

Full IP

nursecall and notification





Actual size

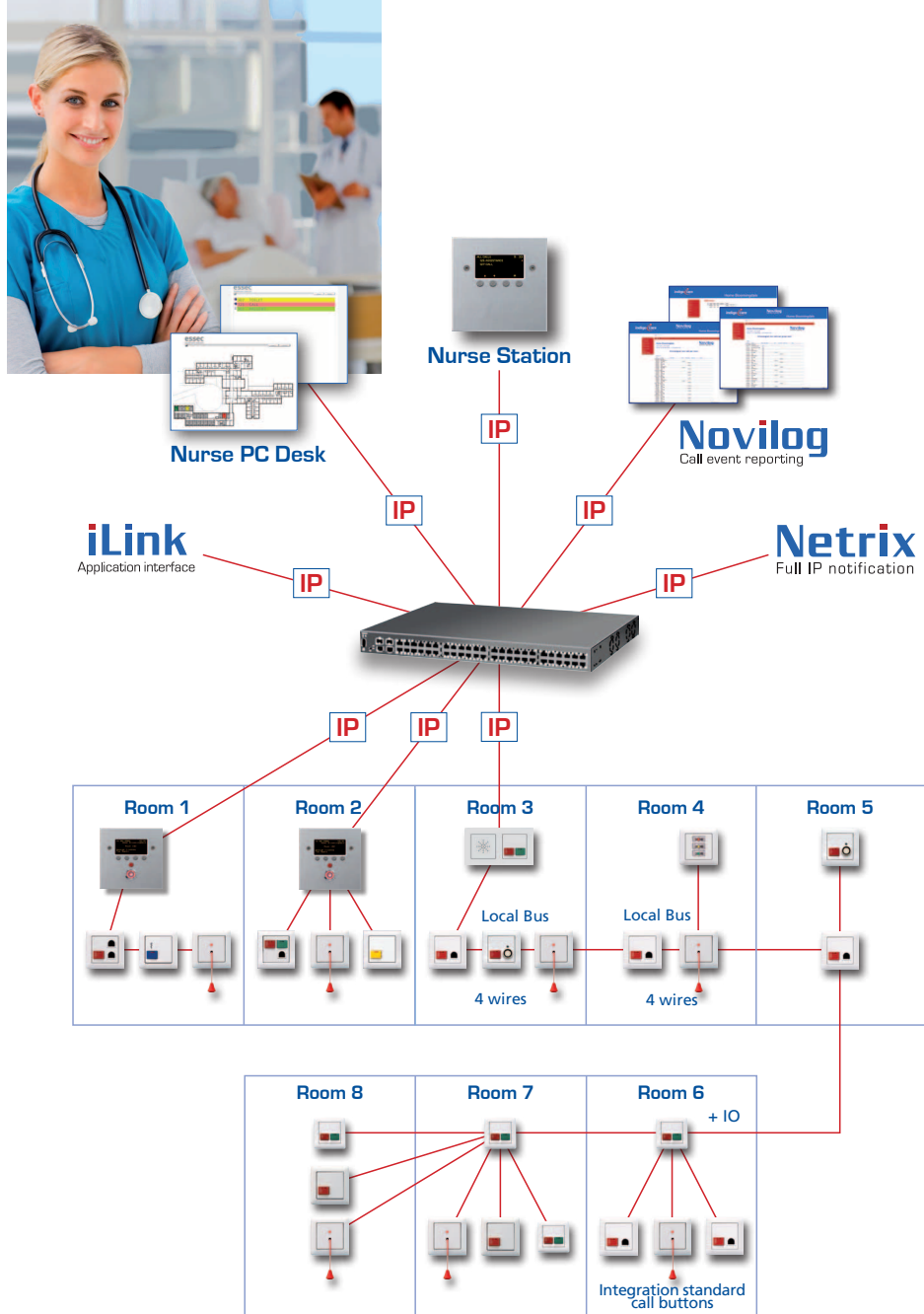
All nursecall intelligence is now inside this IP call button

iCall is the first nursecall system where the connection between the network and the room can run entirely over IP without the need for converters.

Since the installation of the first system in 2007, iCall has proven its reliability.

Each type of call unit can be provided in Full IP-version. As a result, a central nursecall exchange is no longer necessary.

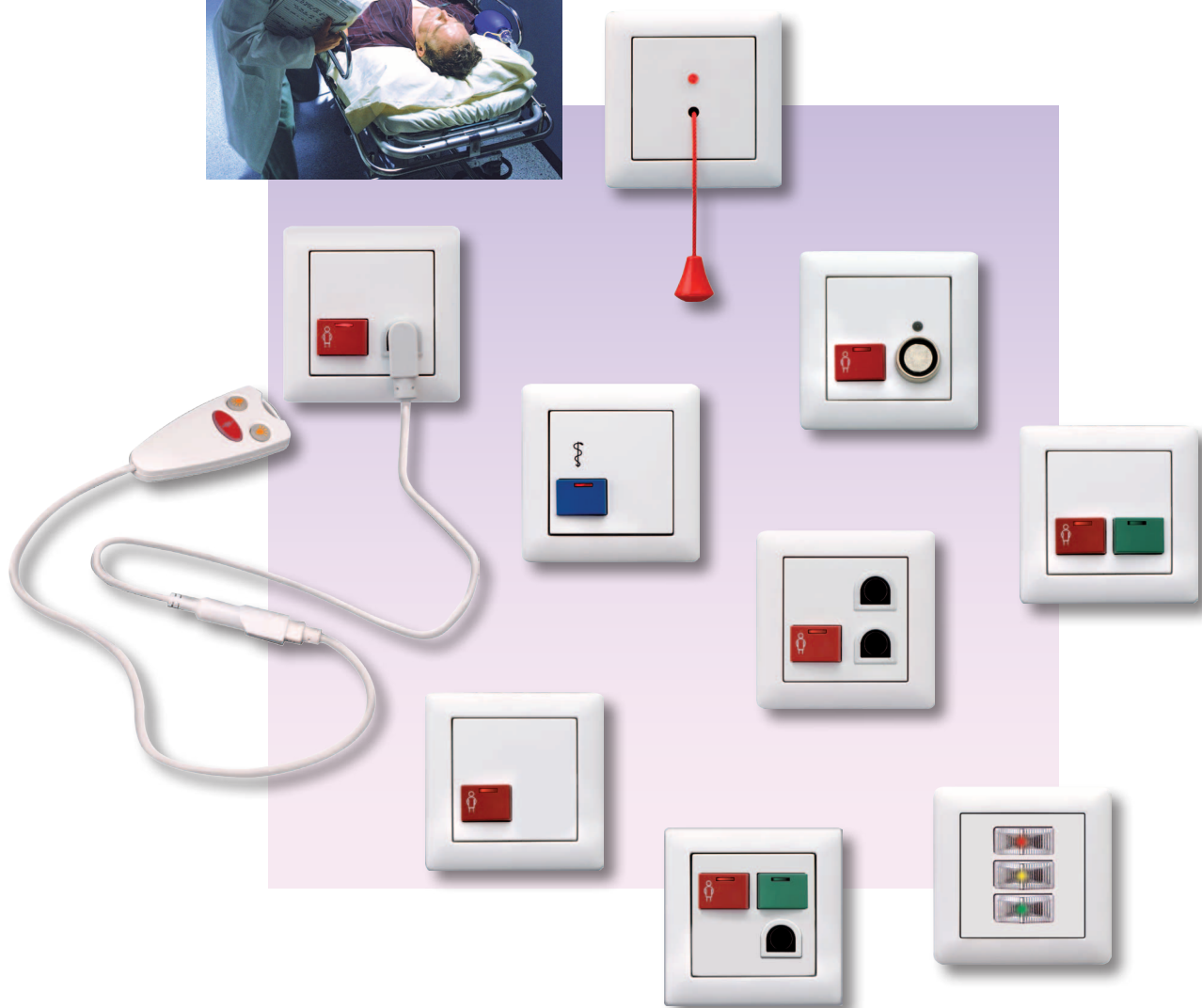
Additionally, display terminals that can be integrated with external applications can be provided.



All possible combinations in one distributed system

Since iCall no longer uses central call exchange, all intelligence has been moved to the IP units which can be positioned anywhere. As long as there is an IP connection available, location doesn't matter; whether it is any room, apartment or home. iCall offers complete flexibility of topology. Based on the IP-standard, iCall IP units can be connected to the nearest Ethernet switch, with substantial savings in infrastructure cost. The IP-units communicate directly over

IP to the Netrix message server or any other application which can be integrated. iCall is also compatible with other suppliers and external devices. The IP circuit board can be located behind any call button in the iCall series. Also, no specific converters, which can be located in sometimes difficult to access areas are required. This retains the advantages of a distributed system. With this architecture, iCall offers lower power consumption than most other systems in the market.



The call: a complete range of monitored call modules

The full range of call buttons can be provided on IP, in local bus, dry contact or a combination of all.

For every existing situation in infrastructure, iCall will have a solution. Its user interface will remain the same, no matter what kind of intelligence is behind it.

For aesthetic reasons, the faceplates of iCall are based on Gira's product line, and can be easily integrated to units with light switches and electrical sockets. All units are monitored constantly, even the 2-way wireless call modules, and they comply fully with VDE.834-1 and VDE.834-2 standards, and CE-regulations.



Speech: VoIP-to-the-room

iCall speech units give direct communication between nurse and patient or nurse and resident, which allows the nurse to immediately know the reason for the call. Any type of call button can be combined with bidirectional full duplex speech capability, and more.

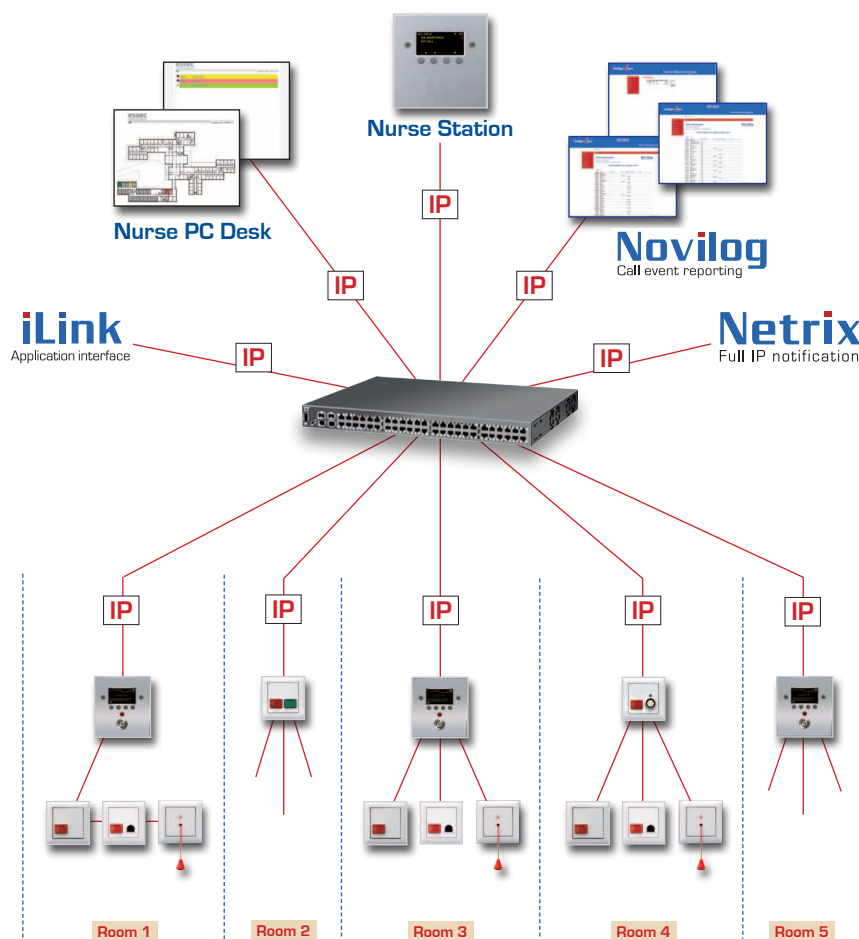
As the complete iCall system is based on open standards, its speech units are based on SIP, bringing Voice-over-IP to the room. Also, there is no need to use phone couplers.

A unit registers directly to a PBX or a SIP-server and will become a genuine internal line, like any phone, DECT or Wifi handset in the system. There is no limit in number of simultaneous speech calls.

Furthermore, iCall speech units can interact handsfree with the PC nurse station or other SIP stations, using peer-to-peer. Nursing staff will enjoy this ease of use!



IP-units with local-bus in room



Save costs on wiring...

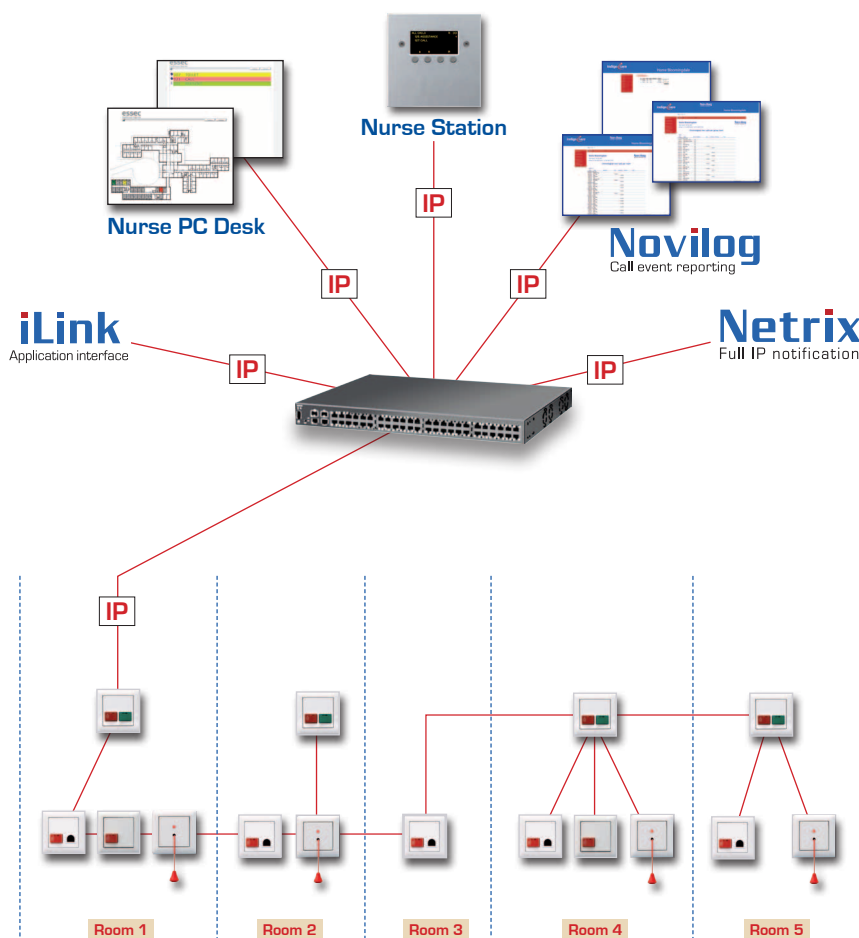
IP-to-the-room is deployed using ethernet topology with a connection to the nearest switch. The ethernet switch can combine an all in one infrastructure (including iCall nurse call, IP-telephony, internet, IP-TV etc...) so expensive cable work can therefore be avoided.

iCall also offers enormous benefits for retrofitting as the existing old cables are sufficient to connect the intelligent local bus call modules. Any kind of 4-wired infrastructure, in bus and/or star topology is adequate.

iCall intelligent units are installed with the least disturbance for the resident. If only the intelligent component of the nurse call system needs to be renewed, iCall offers a range of intelligent call and room units with standard I/O connections, that integrate existing call units inside the room. Since all the intelligence is built into the call units, no additional external hardware or software licensing is required to operate and maintain the iCall nurse call system.



IP-units and local-bus can serve more rooms

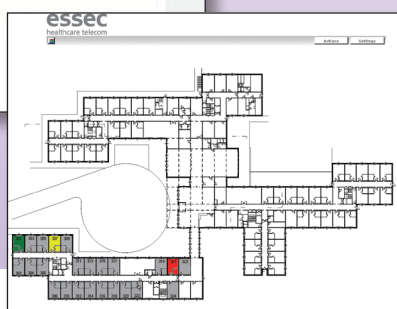
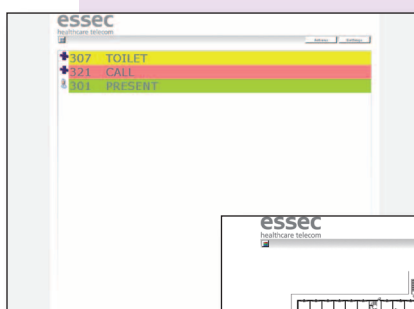


Each call unit is individually programmable

All modules are individually and remotely programmable via browser and can be set as master or slave.

A unit can be defined as any kind of room-, bed or bathroom unit, with any type of regular or emergency call.

Whatever the type of call might be, units can be added very easily to the system, just by defining them via browser. For example, call units can be defined today as a specific type of room unit with the capability to change its purpose in future retrofitting. This provides almost unlimited possibilities for connecting additional call modules and programming.



Nurse Desk Call notification

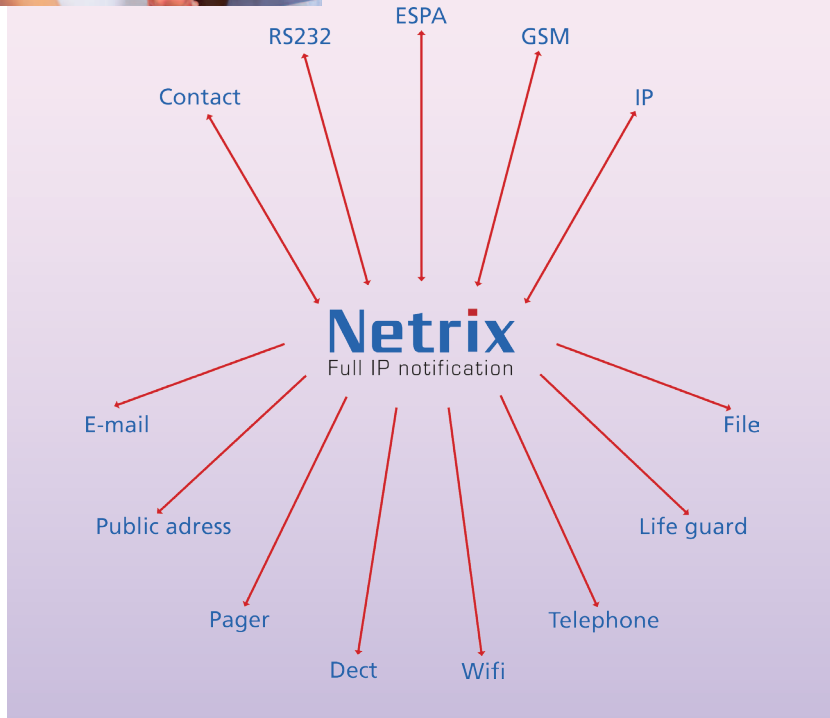
iCall units communicate with the Netrix Notification server over IP. If desired, iCall can be linked with any notification server using the Espo protocol. iCall can alert pagers, phones, dect- and Wifi-handsets and mobile phones. Also, fire and intrusion alarm systems can be integrated.

Each unit can be defined as a part of a section and includes time-based call routing. The nurse's desk unit offers a call view of all units belonging to its section, and the staff can change

routings manually depending on personnel time shifts. At time shifts with lower staff coverage, one unit can overview more sections.

The PC nurse desk displays all ongoing nurse calls and its status, including all mentioned call routing capabilities.

By clicking on a specific room call, the staff can establish a VoIP call with the resident or patient. For ease of use, the user can also create a floor plan, which allows you to view the room status.



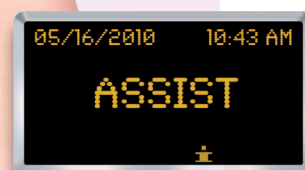
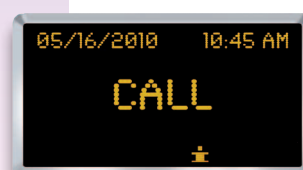
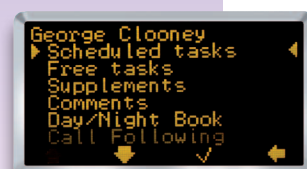
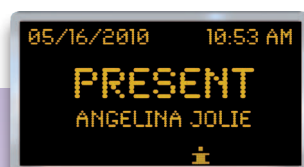
Call notification... everywhere

In any critical environment, staff needs to be alerted as soon as possible. The IP-based Netrix notification server bundles and passes alarms from any kind of alarm- or nurse call system to a various type of receivers. Multiple Netrix notification servers can be put into networking using IP.

All kind of alarms can be sent to Netrix: alarms coming from iCall over IP, other vendors' nurse call systems, fire detection systems and any kind of alarm system using ESPA 4.4.4.-protocol, any RS232 input, or IP-input messages. By using coupler heads, dry alarm contacts can be connected. For non-IP message inputs, Netrix offers 4 Com-ports. Various alert routines can be

programmed depending on the time of day using different types of profiles for different types of receivers. Every room call or alarm can be sent to a group of users of any kind: Dect- or Wifi handsets, pagers and mobile phones can be included in a single group.

The Netrix notification server is directly integrated into Alcatel-Lucent's OXE over IP, offering the complete range of messaging capabilities to any device, including handsfree answerback from any handsfree desk station. Netrix can send messages over IP to any receiver and can combine iCall with different nurse call systems towards one single ESPA 4.4.4.-output to connect to other vendors' notification servers.

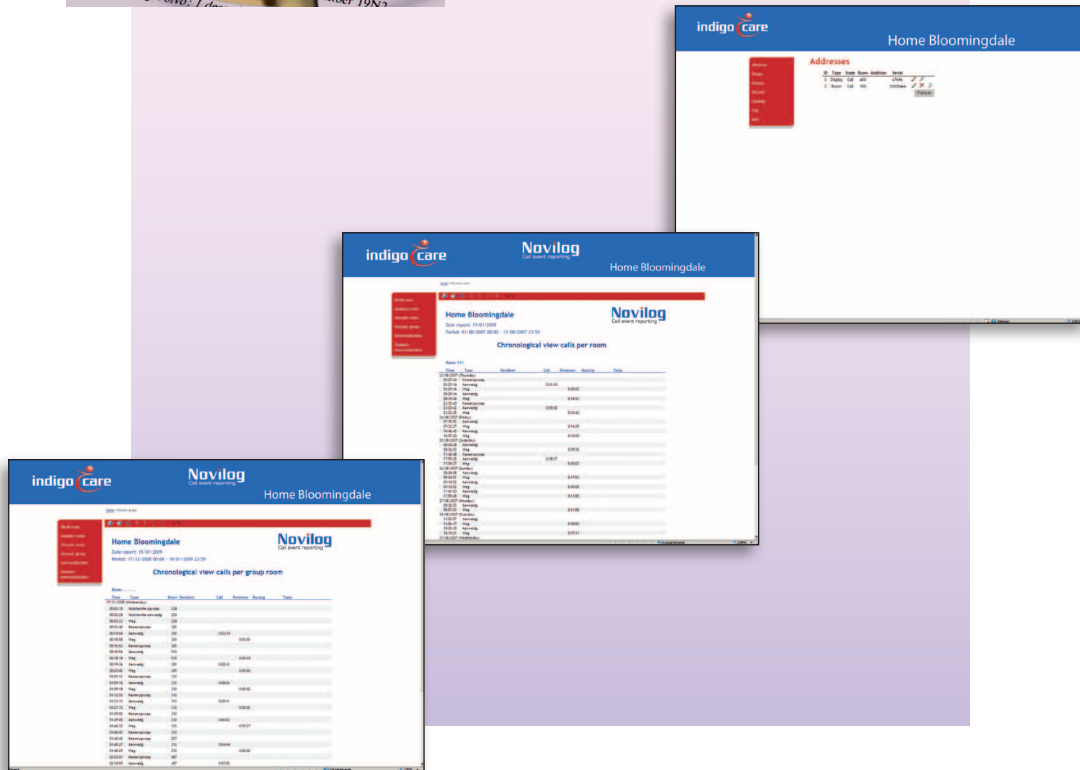


Bring all tasks to the room

An enormous increase in efficiency is created by integrating iCall with your patient care file.

At staffs presence, the planned tasks are shown per resident. These can be checked off individually so they can then be sent to the patient care file.

In addition, measurements, such as temperature, weight, blood pressure etc. can be entered and iCall will provide detailed information about medication, wound care and so on. All of this can be fully integrated with all the options that your patient care file software offers.



Full supervision and control

Measuring the time invested by the staff is extremely important to every healthcare establishment.

With Novilog you know immediately how quickly a call is answered and how much time each incident takes. This is a way to optimize staff efficiency and possibly avoid under or overstaffing and could also be vital for legal issues.

The complete integration of all components in the total care communication plan enables Novilog to register and request various elements such as the time and type of call, assistance, cancellation and so on.

You are provided with a detailed summary of data, time and call types per patient or resident, per nurse and so on. Novilog is web-based so you can request your reports by the use of a browser no matter where you are.

All types of iCall address modules are individual and can be programmed remotely and controlled by the browser. Also, central supervision can be set up from a central service centre. Additionally, the iMaster management software is the management tool for institutions comprising of a large numbers of rooms.



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