



„Nurse Call via IP“:
Ackermann makes it possible
Networked care communication at the
University Medical Center in Greifswald, Germany

Sustainable networking via IP

The University Medical Center in Greifswald, Germany (a public body) is a maximum care hospital with 21 clinics and polyclinics, 19 institutes and other central facilities. It is currently undergoing major renovation and extension, including a new diagnostics center. Ackermann has always been the care communication systems provider of choice at the university medical center. This cooperation is continuing during the current construction and renovation work. One of the key objectives of the project is to integrate the existing stand-alone solutions into a comprehensive communication platform. In order to facilitate the central management of as many functions and systems as possible, the nurse call systems in the new buildings as well as other technical systems are to use this common infrastructure.

Seamless migration with the new group zone controller GZ 99 IP

In order to provide intelligent networking of the existing Clino Phon 95 and Clino Phon 99 nurse call systems (the oldest systems date from 1992), a total of 35 TCP/IP-capable GZ 99 IP zone controllers were installed. This facilitated the continued use of the existing nurse call systems and the networking of all other nurse call systems using standardized infrastructures. For this purpose, an individual, specially configured VLAN (Virtual Local Area Network) was set up to transmit the nurse call data.

Safe operation is ensured by dedicated network components with a separate uninterruptible power supply (UPS). In addition, exclusive IP address ranges were defined for the nurse call system and the switches connected in such a way that reliable forwarding and/or escalation of the calls is ensured. As the GZ 99 IP is compatible with all other installed Ackermann systems, the existing nurse call systems could be integrated into the common network without causing major disruption to normal operation.

Centralized logging and controlling of all systems

The IP network offers a number of technical advantages: all of the installed systems can be controlled using a central server. This reduces the cost of servicing and maintaining the facilities. Using a graphical user interface, the engineers can monitor all of the systems in real time, identify faults quickly and even repair faults using remote maintenance.

Actual added value, now and in the future

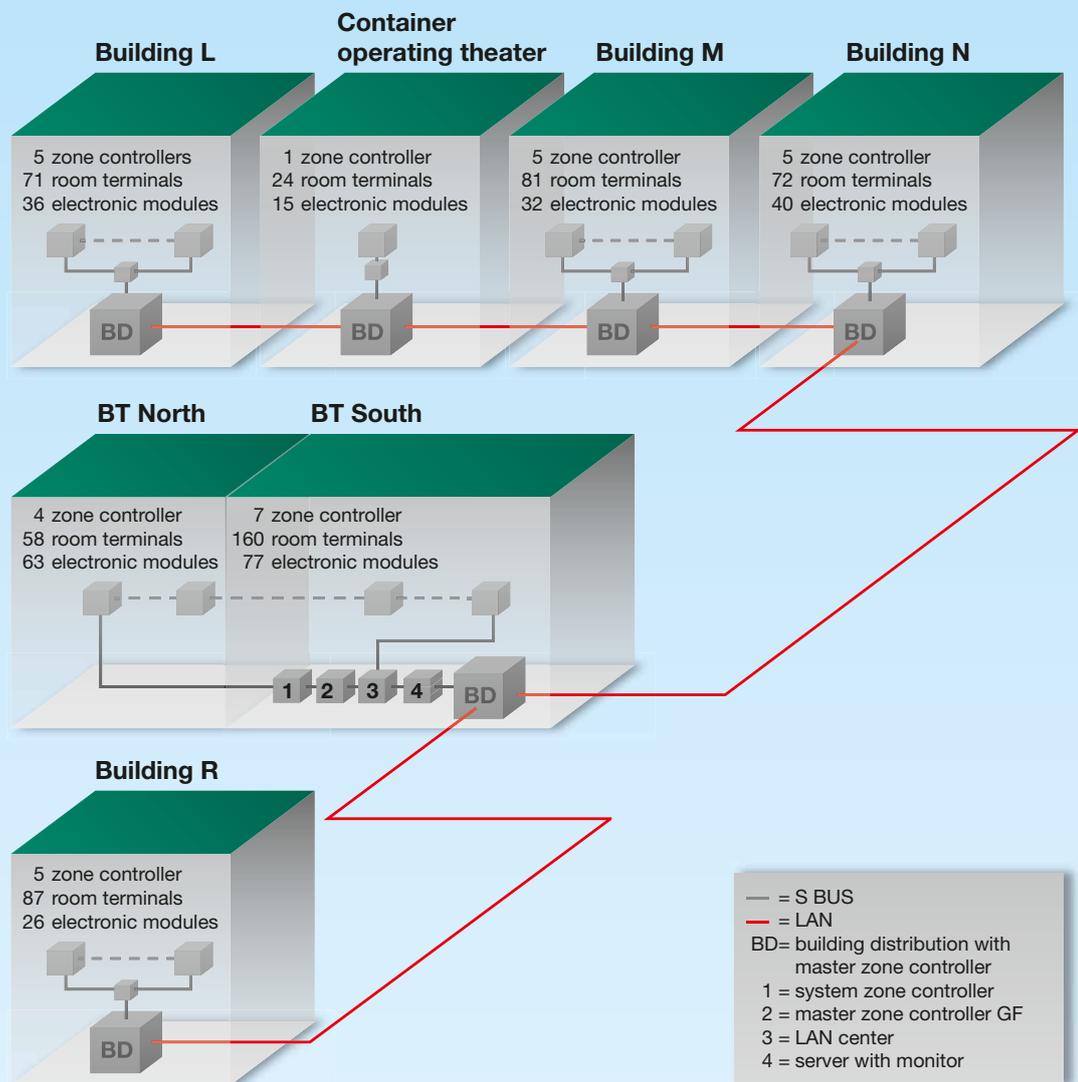
The comprehensive system also supports the care staff. Existing and newly installed nurse call systems can be used in the usual way. In addition, calls and messages can be addressed in a more targeted manner, preventing sensory overload caused by irrelevant messages. The intelligent system concept not only supports the implementation of added-value services such as multimedia, IP TV and Internet, but also process-orientated functions directly at the point of care. Integrated terminal devices enable, for example, the recording of nursing data and patient education or access to a patient's complete medical record.

Conclusion

The University Medical Center in Greifswald now has a comprehensive communication solution that simplifies processes and nursing care. The intelligent combination of a safe nurse call system with IP networks provides a sustainable platform that is ready for innovative applications whilst offering flexible extension options. Clino System 99plus offers a combination of safety and comfort for every situation. In this way, the requirements of DIN VDE 0834 are fully met, and simultaneously, the need for homogenous infrastructures, services and applications is taken into consideration.



University Medical Center Greifswald



The new GZ 99 IP zone controller offers a safe nurse call system and networking using standardized infrastructures

Project information

- 35 GZ 99 IP zone controllers
- Partial upgrade of existing zone controllers
- Integration of Clino Phon 99 and Clino Phon 95
- Central nurse call server with graphical user interface
- 30 additional duty room interfaces
- 600 additional room terminals with display and doctor call
- 500 additional bed modules
- 300 additional EM140 electronic modules
- Additional components, e.g. paging sets, call units, pull cords, information display



Zone controller GZ 99 IP

Your specialists:

Novar GmbH a Honeywell Company

Dieselstraße 2
41469 Neuss, Germany
Phone: +49 2137 17-0 (Administration)
Phone: +49 2137 17-600 (Customer Service Center)
Fax: +49 2137 17-286
Internet: www.ackermann-clino.de
E-mail: info@ackermann-clino.de

Honeywell Life Safety Austria GmbH

Lemböckgasse 49
1230 Wien, Austria
Phone: +43 1 600 6030
Phone: +43 1 600 6030-900
Internet: www.hls-austria.at
E-mail: hls-austria@honeywell.com

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