



## **Secure Migration Concept for Reliable Communication**

**Reconstruction without affecting operation of clinic services  
at the Saarland University Hospital, Germany**

## More Possibilities Using Migration

With its 38 clinics and institutes, approx. 1,400 beds, over 100 buildings, and 5,800 employees, the Saarland University Hospital in the southwest of Germany is the medical competence center of its region.

Approx. 50,000 people receive in-patient treatment and about 180,000 receive out-patient treatment.

The close connection between hospital care and research and teaching guarantees the newest forms of treatment in all medical departments to patients of the renowned Saarland University Hospital. It is no surprise that the clinic management also places great value on innovation and quality in the technical equipment. Regarding care communication, they put their trust in Ackermann clino nurse call systems.

### A clear case for clino phon 99

clino phon 95 by Ackermann clino has been in use for many years in building 57, a six-floor ward with a total of 186 beds. Currently this building is being completely renovated with no disturbance in ongoing operation. A new system has also been incorporated for care communication within the framework of these extensive renovations. One of the decisive requirements which the clinic management requested, was the integration of the previous system already present.



Saarland University Hospital (surgical clinics)

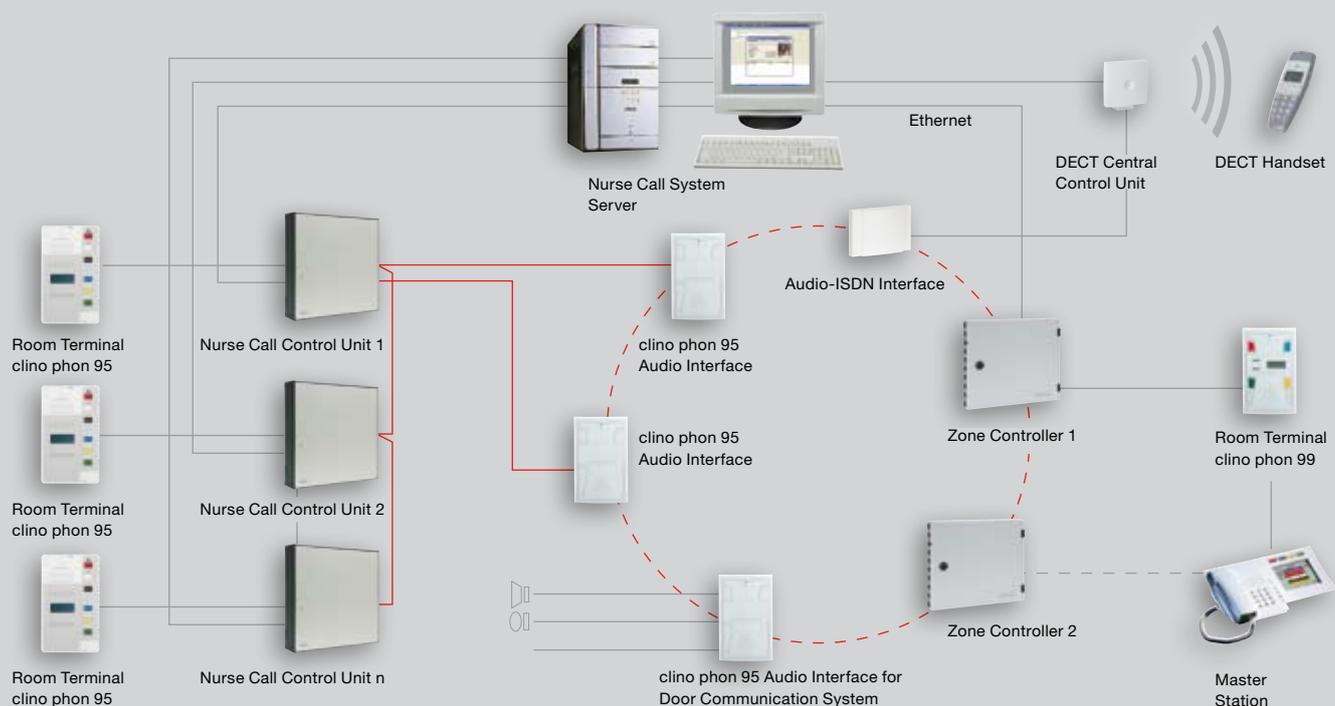
### Step by step to the finish line

The renovation of the ward was planned to last two years—too long for the ward to be closed completely. In order to sustain the operation of care services, two phases were planned for the reconstruction: First of all, the building was subdivided with a provisional wall. This way, the renovations could be carried out in the first section of the building without disturbing care services in the other sections of the ward. The second phase of construction started in 2007. Then the close to 100 beds were put into operation in the renovated area, while the other part of the building was renovated from the ground up. The special challenge for the installer was that neither operators, care givers, nor patients were to experience any loss in functionality regarding communication.

### Two systems working as one

Ackermann clino developed a migration concept for the coupling of clino phon 95 and clino phon 99 during extensions and renovations. It allows the entire communication system to be operated without loss in performance—a great relief in the daily operation of care services.

In the course of reusing the building's renovated levels, the old clino phon 95 and the new clino phon 99 systems were used simultaneously on the same floor upon completion of the first phase. The only indication of this for nursing staff and patients was the different patient handsets and room terminals. Using this migration concept, for example, even connections on the same floor during off-peak times can be smoothly carried out independently of the systems available at the station.



Secure migration concept for reconstruction during running of clinic services: clino phon 95 with clino phon 99

### Advanced technology guarantees full functionality

Specific software and hardware modules mediate between the old and new system in order to facilitate all functions on both systems simultaneously.

For example:

- Indication of system messages
- Call answering
- Auxiliary answering/direct speech to nursing staff
- Announcements
- Zone linking

Intelligent interface units guarantee full functionality:

- Audio interfaces for the connection of analog and digital speech functions
- Software modules as mediators between the systems

With the solutions by Ackermann clino, the Saarland University Hospital is able to preserve both flexibility and integrational security—in spite of highly complex organizational structures.

### Technical details for Saarland University Hospital

Migration for the coupling of clino phon 95 with clino phon 99:

- Data and audio technology in one server
- ELA connection for announcement function
- Audio ISDN interface and clino phon 95 audio interface
- 16 installed loops, 16 configured groups
- Installed devices:  
ZT95\* / ZT99 / KSA95\* / KSA99 / electronic modules



clino phon 95 Room Terminal



clino phon 99 Room Terminal

\*ZT: room terminal    \*KSA: master station

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