



» Friedrich-Schiller- University Hospital Jena

The Friedrich-Schiller University Hospital in Jena is one of the largest university hospitals in Germany. The new building, "Hospital 2000", is situated in the Lobeda area of town and is made impressive not only by its modern architecture and size but also its all encompassing safety concept in case of fire or emergency - made possible by the Digital Alarm and Communication Server HiPath DACS from Siemens.

Goethe, Schiller, Hegel and Fichte provided the intellectual spirit for the University. Abbe, Zeiss and Schott laid the foundations for economic prosperity. Generations of poets, philosophers and students wrote about it in poems and songs – the talk is about Jena. With today's 25,000 students this Thuringian university town is a significant science site.

At the Jena based University Hospital its 23 medical fields, 1375 beds, 55,000 inpatients, 156,000 outpatients and over 2000 employees in Lobeda alone demonstrate the impressive performance and size of this medical establishment.

The Task. The Lobeda building complex and its open spaces extend to over 33,000m². Therefore fire poses a serious risk for patients and staff. For this reason it was established as early as the conceptions phase for the new building that alerting staff via the classic Pagingssystem was inadequate due to:

- Lack of a call back function for the person called
- No logging or confirmation of alarms
- No prioritization of calls
- Slow manual dealing with calls and long response times

"This old fashioned technology no longer meets our demands", explains Detlef Mehner, head of low voltage and communication technology. "Our main aim was to alert employees, technical services and relief units by means of group calls via the Telecommunicationsystems. Shorter response times and a confirmation from every group member were therefore as important as the technical assistance and efficiency increases for employees in the emergency call centre, where the group calls can also be transmitted manually." The reliability should also be improved from the University Hospital's point of view. Where time is lost in raising the alarm, human lives are in danger.

Reference Projects with HiPath

Alarms – Reliability and Speed make the Difference in an Emergency

Alarms-Reliability and Speed make the Difference in an Emergency

The Solution. The Digital Alarm and Communication Server (DACS) from Tetronik was chosen and installed together with the new Siemens HiPath 4000 Telecommunicationsystems. In the current stage of expansion 90 channels connect the DACS with the TK system. The simultaneous alerting of employees via automated telephone calls supports the quick, targeted evacuation of buildings or sections of buildings in case of fire or emergency. Additional internal and external staff can also be mobilized in the same way.

The DACS is connected via a hazard alert system to 3500 automatic detectors within the hospital campus. If a fire is detected up to 120 call groups can be alerted based on the fire area – a total of 2500 phone participants, of who around 900 have mobile DECT end devices. The participants and call groups are maintained centrally within a data bank. In order to reach the frequently changing user circle fixed end devices are alerted, from which call forwarding to the DECT end devices will have been programmed. In case of an alarm, the DACS simply selects the corresponding participants, transmits the saved announcement simultaneously over all channels and uses display text to inform all mobile and fixed end devices. This results in a reduced workload for emergency call centre staff. HiPath DACS is also indispensable for deployment of the Revitalisation team. Six doctors and two nurses from four different medical disciplines are available within the university hospital around the clock, who react immediately when human lives are in danger anywhere on the hospital campus. When a call via a special number enters the DACS, the DACS interrupts any existing calls with the member of the team

and connects them with the initial caller in a telephone conference. According to Detlef Mehner, "This procedure is very efficient, as all people concerned communicate and the most appropriate staff member can then respond."

Benefits:

With the introduction of the DACS the Jena University Hospital has an automated alarm system. An enormous advantage of this, according to the technical team, is that alerting via telephone enables a direct acknowledgement of the call as well as voice contact. Therefore the alarm can be handled quickly and efficiently. Further important advantages of the alarm server are: quick mobilization in an emergency psychological relief for staff, prevention of incorrect information as well as the reduction of the alarm response time to a minimum. "Our alarm scenario without the DACS is no longer conceivable. Safety is our highest priority", says Roland Brendel, Head of telecommunication at the Jena Hospital.

Our Offers:

- Conception and realization of mobility solutions in hospitals, rehab centres and retirement homes to increase process efficiency
- Integration of existing Telecommunicationsystems HiPath / HiCom in new solution scenarios (transport logistics, menu ordering)
- Design of IP / WLAN solutions to support medical staff processes
- Customer individual security, services and financing concepts
- Integration of the solution with other Siemens business areas (building management, hospital information system, saving and archiving systems, multimedia terminals and end devices) with your existing IT infrastructure



„Whenever an incident occurs that requires a quick response, HiPath DACS enables us to provide the appropriate staff with the necessary information. This saves time and above all reduces risk for patients and staff and damage to equipment by providing fast and efficient help“.

Roland Brendel,
Head of telecommunication, Jena Hospital.



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