

Case Study

Fujitsu Siemens Computers recommends
Windows® XP Professional.

We make sure



Desktop power on the go:

LIFEBOOKs with Intel® Core™ Duo processors give Klinikum Ingolstadt medical staff mobile offices



»The LIFEBOOK E from Fujitsu Siemens Computers makes every IT manager's dream come true—with a solution that lets every mobile user make his rounds with the power and performance of a desktop under his arm.«

Dipl.-Ing. Thomas Kleemann, IT Manager, Klinikum Ingolstadt

→ The Customer

Klinikum Ingolstadt
GmbH

www.klinikum-ingolstadt.de

→ The Project

Enhancement of the workstation infrastructure, especially for physicians

→ The Solution

LIFEBOOK E8210

The IT management of Klinikum Ingolstadt is firmly committed to ongoing improvement in in-house work processes. In addition to deployment of a high-performance IT infrastructure designed to meet high standards of performance throughout the entire healthcare facility, the quality of the individual workstations is another top priority of Klinikum Ingolstadt IT decision-makers. The ultimate goal is to use advanced mobility technology to give employees—and especially physicians—top IT performance and independence wherever their duties take them. And the LIFEBOOK E8210 from Fujitsu Siemens Computers with Intel® Centrino® Duo mobile technology makes it possible to achieve this ambitious goal. For IT Klinikum Ingolstadt decision-makers, the LIFEBOOK E8210 is an investment in the future that has already started to pay off.

The Client

Located in central Bavaria, Klinikum Ingolstadt is the healthcare hub for the approximately 500,000 people living in the area it serves. The facility's capacity is impressive—and not only because of its 1,100 beds. The impressive resources of its many clinics and institutes with their nationally and internationally recognized medical personnel are housed under a single roof, including Surgery Clinics I and II, the Gynecology Clinic, a clinic for traditional Chinese medicine, a center for psychological health and institutes that specialize in anesthesia and intensive care. These facilities cover virtually the entire range of conventional and alternative medicine. Klinikum Ingolstadt wants its patients to feel they're in good hands. And everyone involved actively helps to achieve this—24 hours a day.



Benefits for Klinikum Ingolstadt

- High-performance mobile computer for physicians and other personnel
- Optimal use of PC resources through mobility
- Speeds up everyday work
- Cost savings through the possibility of "LIFEBOOK Sharing" among physicians
- Virtualization permits execution of application tests in parallel with normal operation
- Successfully used for mobile administration of medical systems
- Secure test operation of Windows Vista™

Overview of the solution

- LIFEBOOK E8210 with Intel Centrino Duo mobile technology in Klinikum Ingolstadt—loaded with the following applications: Siemens syngo® Suite, Kuhlmann language recognition, Microsoft® Office, Microsoft® Virtual PC and various network tools
- Operating system: Original Windows® XP Professional

A desktop for people on the go:

The LIFEBOOK E8210 with Intel® Centrino® Duo mobile technology

Dipl.-Ing. Thomas Kleemann, Klinikum Ingolstadt's IT manager, uses an appropriate metaphor to sum up the invaluable advantages of E Series LIFEBOOKs: "Users carry the power and performance of a desktop around with them and have their offices under their arms wherever they go." This statement gets right to the point: The LIFEBOOK with Intel® Centrino® Duo mobile technology can deliver twice as much performance for multitasking. As a result, users benefit from both the high-performance functionality of a PC with an Intel dual-core processor and all the advantages of unrestricted mobility. The members of the team headed by IT Manager Thomas Kleemann had ample opportunity to appreciate the advantages of this mobility during a four-month test with these new notebooks. Various typical scenarios based on everyday hospital activity were set up on the LIFEBOOK E8210 and tested for usefulness in the healthcare environment. The LIFEBOOK passed this test with flying colors due to its high performance and long hours of operational independence and the functionality of WLAN-technology, e.g., in the area of mobile rounds with x-rays. The overall positive impression was reinforced by secure access to a digital Picture Archiving and Communication System (PACS) and a Radiological Information System (RIS). The application that supports this superior performance is syngo® Suite. This software system from Siemens Medical Solutions integrates the entire image management workflow into a uniform working environment to boost the efficiency of diagnostic and therapeutic

activities. With a LIFEBOOK at hand, physicians have everything they need to control the operations involved in image viewing and post-processing. This is driven by the same double performance that is so critical when it comes to batch processing and decompression. The high graphic performance of the LIFEBOOK's high-quality 16:10 display format even permits convenient CT viewing and allows mobile consultation of x-rays. This experience confirms the conclusions of a study entitled "Comparison of Various Imaging Devices for the Recognition of Low-Contrast Details in Digital Radiograms" (S. Wirth et al, Fortschr Röntgenstr 2006; 178: 698-705): "As far as the recognition of details with low contrast in digital thorax images is concerned, the results suggest that economical imaging devices can be also used not only for primary diagnosis, but also for viewing images in wards if a well-lighted working environment is not available." Another feature that facilitates the work of healthcare personnel is the use of language-recognition software. Here too, the Intel dual-core processors guarantee the availability of adequate computing power for different applications operating in parallel. Physicians could also use their LIFEBOOKs for VoIP telephony or even hold video conferences. In addition, the LIFEBOOK also give IT personnel a valuable tool. Long battery life and top performance combine to make it ideal for system administration and fault analysis. For example, it is possible to call up an image and carry out a network analysis at the same time without any difficulty. And, finally, it is also very easy to configure the LIFEBOOK so that a "virtual PC" can be opened, to test medical software, for example.



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