



IMPRESSIVE
technology
housed in
impressive
architecture:
the University
Hospital of
Heidelberg,
Germany.

The University Hospital of Heidelberg Goes Wireless with Dräger Medical*

In 2004, the University Hospital of Heidelberg, Germany, opened a new 280-bed medical center focused on Internal Medicine with ICU and IMC units for cardiology and other specialties.

The hospital's goal was to create an open, state-of-the-art, wired and wireless infrastructure that included patient monitoring on its own existing network. The hospital also wanted to standardize on one patient monitor hospitalwide. Heidelberg investigated alternative solution providers and decided on Dräger Medical.

To meet Heidelberg's challenging requirements, Dräger Medical implemented Infinity® OneNet, a shared infrastructure solution based on industry standards, including 802.11b (WiFi). The wireless implementation was a collaborative effort involving Dräger Medical, the adept IT team at the hospital, and third-party networking experts including

* A Dräger and Siemens Company



»Patients are able to move around freely. The monitor travels with them, so they are no longer confined to their beds.«

Eike Martin, M.D., CEO of the University Hospital of Heidelberg, Germany

Infinity Patient Monitoring

Infinity OneNet: a new service capable of running wired and wireless patient monitoring by sharing the existing hospital network

Traditionally, patient monitoring has required its own separate, dedicated network in order to guarantee security and performance. Infinity OneNet is Dräger Medical's innovative approach to implementing "life critical" patient monitoring networks. Infinity OneNet is both a network architecture and a comprehensive suite of professional services that allows the hospital's existing enterprise network to provide patient monitoring in parallel with its commercial and administrative applications – all on one industry-standard network.

As a VLAN-based shared infrastructure, Infinity OneNet reduces costs and simplifies network administration because it enables one integrated network, integrates wired and wireless monitoring, ensures Quality of Service (QoS), leverages the hospital's network investment, and embraces industry standards, such as IEEE 802.3 Ethernet and 802.11b (WiFi).

Infinity Omega: a two-screen monitoring solution that brings ClinicalVision™ to the acute point of care

Omega ensures uninterrupted display of real-time data at the point of care on the Infinity Delta monitor. At the same time, it shows expanded monitoring with continuous trending on the Infinity Explorer. It can also host IT applications and access Web-based applications with an optional Web browser. There are no compromising pop-ups or interruption of vital signs monitoring. Omega delivers ClinicalVision – a comprehensive view of the patient – by letting each caregiver see the information that is relevant to them. And it allows control of key monitoring functions from multiple locations.

Infinity OneNet is not yet commercially available in Canada.

Packeteer®, Inc., and Anyware Network Solutions. Heidelberg standardized on the Infinity Delta monitor for all beds in the hospital because it is compact, flexible, and easy to carry. In addition, every critical care bed was equipped with an Infinity Explorer. This combination of the Infinity Delta monitor and the Infinity Explorer is called the Infinity Omega solution. Using the Infinity Explorer's IT capabilities, physicians and nurses can access HIS applications, DICOM images, lab data, and critical care documentation – right at the acute point of care. Wireless monitoring technology offers new and better ways to support patients, since

patients are monitored every time they leave their room or care area. According to Professor Eike Martin, CEO of the University Hospital of Heidelberg, "one important advantage of Infinity OneNet technology is that it allows us to perform patient monitoring in hospital areas where no special network connections are available or planned. This saves the hospital costly investments in network infrastructure."

According to Professor Martin, "monitored patients appreciate the increased comfort provided by wireless technology. Patients are able to move around freely, which is usually possible only with a classical tele-



THE IT CAPABILITIES of the Infinity Explorer allow physicians and nurses to access HIS applications, DICOM images, lab data, and critical care documentation right at the acute point of care.

metry solution. Now, the monitor travels with the patient, so patients are no longer confined to their beds.”

Professor Martin concludes, “Another benefit is that our physicians and care personnel co-monitor the patient’s condition centrally,

and are therefore able to react more quickly and accurately in emergencies.”

Packeteer is a registered trademark of Packeteer, Inc.

Siemens and Dräger Medical: Two Partners, Joint Solutions

Siemens and Dräger Medical combine clinical strengths and expertise in diagnostic, therapeutic, and information technologies to enable increased quality and efficiency of patient care.

Dräger Medical is one of the world’s leading manufacturers of medical technology for the acute point of care. The company offers innovative products, services, and integrated CareArea™ Solutions that support patient-centered processes, from Emergency Care and Perioperative Care on to Critical Care, Perinatal Care, and Home Care.

Together, Siemens and Dräger Medical jointly develop IT solutions to ensure the seamless integration of patient data throughout the entire patient care process by connecting the enterprise and departmental levels with the acute point of care.