



...a technology that takes hospitals and nursing homes to a higher level

Big visions are back in Health Service.  
Made possible by the intelligent  
OpenBus™ technology from LINAK.

# The intelligent hospital bed has been born

This is an invitation to start thinking big, an invitation to begin making real improvements in hospital hygiene, economy, work environment, and not least patient satisfaction.

This is possible because, as of now, hospital bed technology is taking a big step forward. From being a passive necessity, the bed is now an active, advanced, intelligent partner and the centre of many innovative functions limited only by the boundaries of imagination.

The new technology is called OpenBus™ and it is the brain in the all-new and advanced versions of LINAK control boxes. In this brochure we introduce some of the fantastic opportunities already available with OpenBus. However there are many other functions in the pipeline and some have not even been identified as of yet. In short, the platform is future-proof and only limited by the imagination.

We do not know quite where it will end. We just know that this is where it all begins...



IMAGINE

## ... a bed that reduces the risk of accidents

Up to 70% of patient accidents are caused by patients falling\*. Most of these accidents happen in the ward and often at night when patients get up to go to the bathroom.

Not only inconveniencing patients, this also puts a strain on hospital resources as an accident often results in a prolonged hospitalisation.

Luckily, it is easy to do something about this situation. With lights installed under the bed, patients will be able to see clearly and find their way consequently preventing many falling accidents. Furthermore, the patient will not wake the other patients in the room.

The LINAK Under Bed Light feature enables patients to turn the light on and off with a hand remote or easy to reach switch – without having to do an awkward and discomforting stretch. As a result, the patient is more self-supporting, a fact that in the end benefits both hospital staff and resources.

LINAK Under Bed Light is easy to operate and significantly reduces the risk of falling accidents. One of many innovative solutions made possible by LINAK's intelligent OpenBus™ technology.



*Hospitals exist to aid and help people not to burden them with new problems. Therefore, a simple Under Bed Light solution that reduces the risk of accidents when getting up is an obvious improvement.*



## ... a bed that knows if the patient is in bed

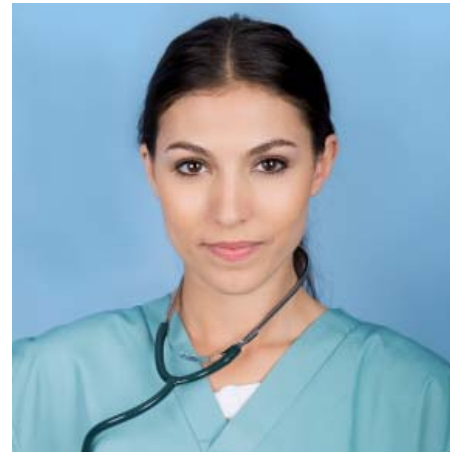
Certain patients are not supposed to leave the bed – period. However, as things are today, nurses cannot watch each individual patient every single minute of the day.

As a result, patients often leave the bed even when they are not supposed to. In doing so, they not only risk harming themselves, they also cause additional stress for the nurse. As many hospitals are understaffed, this adds to an already stressful work load.

Fortunately, there is a way to solve this. The solution is a hospital bed that monitors and informs the nursing staff if the patient is getting up. That way, nurses do not need to watch all patients all the time.

The LINAK Out of Bed Detection solves the problem of patients putting themselves at risk. As an extra benefit, the nursing staff's work and stress load is reduced significantly.

The Out of Bed Detection system helps patients and reduces strain on hospital staff. One of many innovative solutions made possible by LINAK's intelligent OpenBus™ technology.



*Patients deserve to feel and not least be safe when hospitalised. As nurses have many duties, constant monitoring of patients from a distance is a huge advantage that benefits patient safety greatly.*

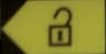


Alarmtone  
OFF

NIBT  
Start  
Stop

Zoom

Menu



## ... a bed that tells you in what condition its components are

When hospital equipment breaks down it never happens at a convenient time. It is very expensive – first and foremost the direct costs – but equally important, the hospital's ability to provide a satisfying level of service suffers.

Today huge investments are made in technologically advanced hospital beds. As such, there are large sums to be gained in an effective maintenance procedure. Preventive maintenance reduces the number of unforeseen breakdowns and prolongs the service life of hospital equipment. That is something to be valued – not least financially.

LINAK Service Data Tool enables technicians to monitor the condition of the beds continually and, if necessary, to intervene before a disruptive and expensive breakdown. The system can be linked to the hospital network making it effortless to monitor, prioritise, and make maintenance more efficient.

LINAK Service Data Tool makes the maintenance of hospital beds much more efficient by means of service data tool. One of many innovative solutions made possible by LINAK's intelligent OpenBus technology.



*Patients should have as problem-free a stay as possible and hospital equipment simply needs to function properly at all times. Now, it is possible to do preventive maintenance of hospital beds by means of an easy-to-use intelligent diagnostics tool. And that is a big step forward.*

# And imagine, OpenBus opens many other doors

## Clean Me feature

Reduce the risk of infections with a warning system that tells you when the bed needs cleaning. It is very simple; after each cleaning the Clean Me feature is activated and following a preset time frame the button lights up signalling the need for additional cleaning. The feature helps organise the ever-important effort of improving hospital health standards.

## Scale System

A vital procedure when taking care of patients is weighing. Keeping track of the patients weight is important. However, doing it manually is hard work for the caregivers and is also often uncomfortable for the patients. Integrating LINAK's Scale System in the application will save time, improve ergonomics and make life easier in the daily care.

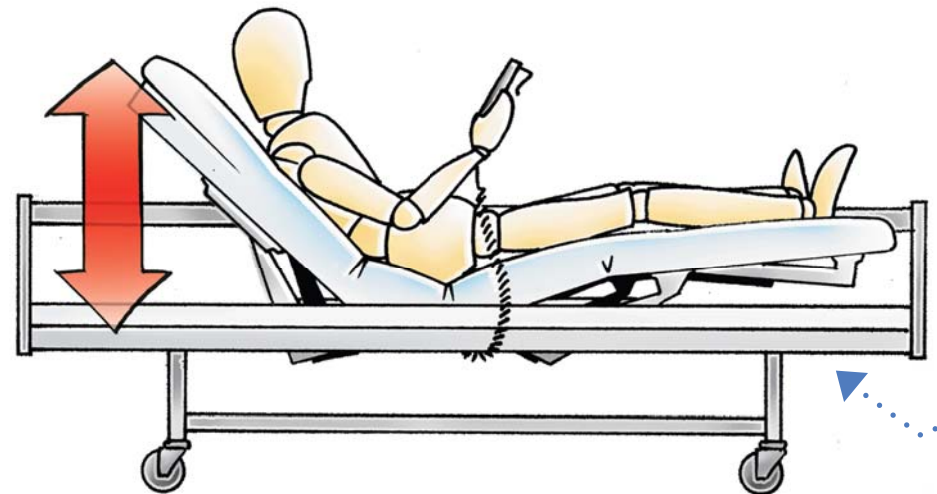
## More to come

But all this is just the beginning. Tomorrow, LINAK OpenBus will become the platform for many innovative functions that turn the hospital bed into an intelligent partner in the modern hospital.

Examples of future possibilities could also be a link-up to the electronic patient journal or perhaps a sensor registering if the siderail is up/down.

Furthermore, a control box with OpenBus can function as a power supply for a long list of applications like an LCD-monitor, a reading lamp or a motorised fifth wheel that makes the hospital porter's job much easier.

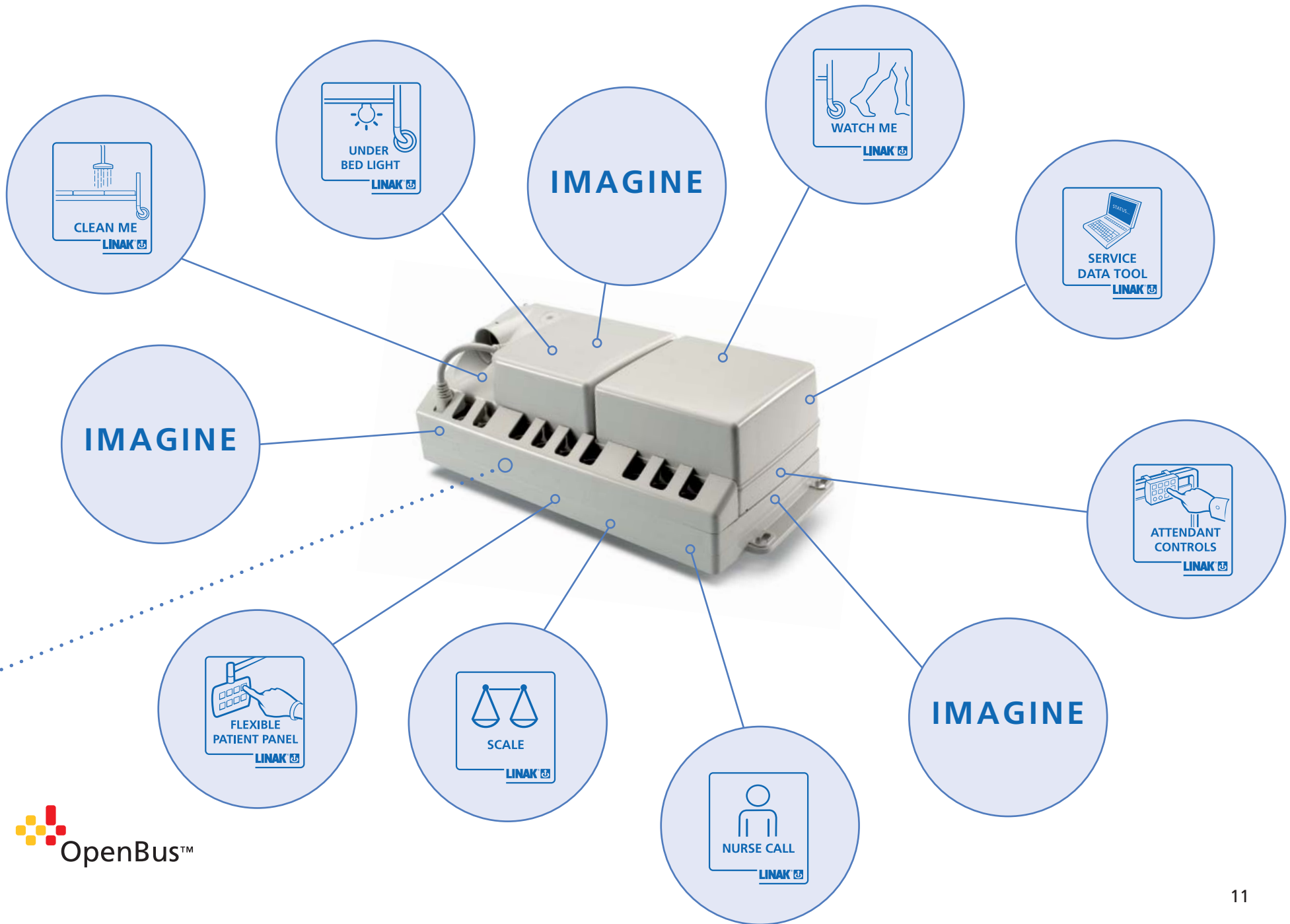
And then there are all the needs and possibilities we have yet to identify. Just imagine...



\* A case-control study of patient, Medication, and Care-related Risk Factors for Inpatient Falls. By Krauss et al., 2004.

\*\* Hilfen für die Pflegenden zur Bewältigung beruflicher Belastungen / Support for nurses in coping with work load and stress. By Determann et al., Der Onkologe, Vol.13, 4, April 2007.

\*\*\* Impact of job satisfaction components on intent to leave and turnover for hospital-based nurses: A review of the research literature. By Coomber & Barriball, International Journal of Nursing Studies, Volume 44, 2, 2007.



Yesterday we were world leaders in  
the field of electric actuators. Today,  
we take a further step forward.

[www.linak.com](http://www.linak.com)

#### Terms of use

The user is responsible for determining the suitability of LINAK products for a specific application. LINAK takes great care in providing accurate and up-to-date information on its products. However, due to continuous development in order to improve its products, LINAK products are subject to frequent modifications and changes without prior notice. Therefore, LINAK cannot guarantee the correct and actual status of said information on its products. While LINAK uses its best efforts to fulfil orders, LINAK cannot, for the same reasons as mentioned above, guarantee the availability of any particular product. Therefore, LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or other written material drawn up by LINAK.

All sales are subject to the Standard Terms of Sale and Delivery for LINAK. For a copy hereof, please contact LINAK.



WE IMPROVE YOUR LIFE

M9-02-392-B - 2011.08