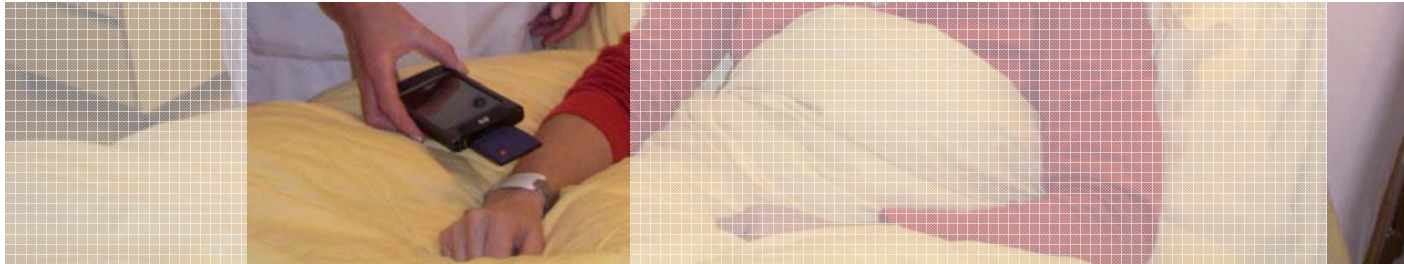


## IM-Assist

### More Security for Patients in Tracking Blood Bags, Blood Products and Pharmaceuticals



The identification of the patient in the hospital is the key for a correct assignment of blood bags, blood products and pharmaceuticals. The quality of the identification is crucial for your process control and of course your costs.

IM-Assist works on the basis of RFID (Radio Frequency Identification) and Barcode. It automatically tracks blood bags, blood products and pharmaceuticals and directs them to the right patient\*. The system works like a security and documentation assistant.

- **Security:** The patient wears an RFID-wrist band. He is in the centre of the process. By using a special system for encryption the key data are transmitted to the assigned blood bags through the whole chain of transport and laboratory analysis. By using IM\_Assist the loss or change of assigned products is not possible any more.
- **Documentation:** Every action, e.g. who has done what where and when, is captured by the end devices and stored in the IM-Server for further processing. By automatically logging every single event the highest possible documentation and quality control is given. And it works without a permanent link to the LAN or WLAN and central database, so you can react even in critical moments when the patient needs instant help.
- **Less Paperwork:** All this happens without any additional paper work – some of the previous complicated checking and double cross checking might even disappear. You will spend more time with the patient and not in administrative work.

The system can be integrated in any IT-Infrastructure. There is no need to change or adapt any previous processes, especially when changes cannot be done because of certified processes. This was a precondition in many hospitals when we installed the system.

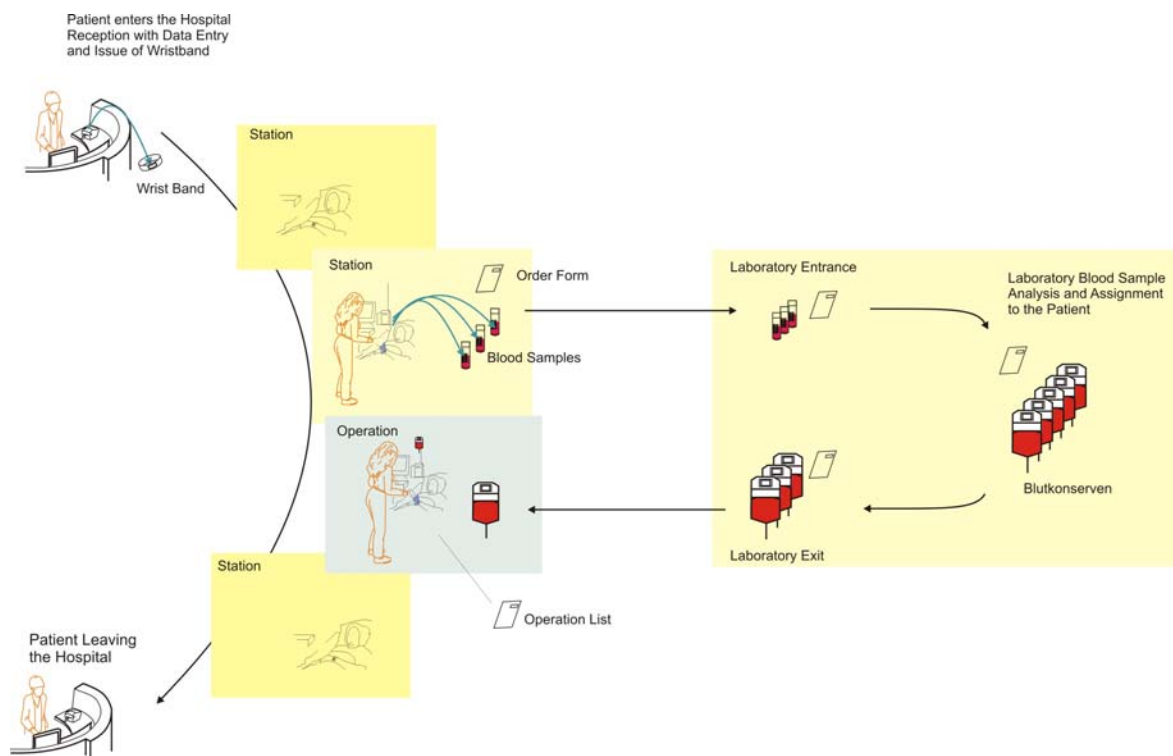
The system integration requires a detailed analysis of the hospital's work processes in order to identify all interfaces. The process chain can include many intermediate steps. The links are made with the RFID-Transponders which act as data carriers right on the object.

\* Patent Pending

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The parameterisation of IM-Assist allows for the matching with an existing patient file with barcode and at the same time program an RFID-chip. Specific order forms or operation work lists can always be assigned to or checked against a patient. The possible use of Barcodes and the independency from the main system leads to a very cost effective installation.

The process chain starts at the hospital reception when the patient is identified for the first time and receives an RFID-wrist band. This first wrist band will be the source of all connected actions and objects by transferring key information to another RFID-tagged object, such as blood sample tubes. A personal digital assistant (PDA) is used with an integrated RFID / Barcode reader. The test tubes will be transferred to the laboratory, being checked there for completeness and plausibility. After the laboratory tests the key information is transferred to the blood bag(s). At the end of the process, when the blood bag reaches the patient, it is simply checked against the key information on his wrist band. If the information matches the transfusion can be performed.



IM-Assist is suitable for hospitals in which Wireless-Technologies are increasingly used. IM-Assist is not influenced by other radio signals from medical devices and does not influence medical devices itself, as it is only triggered by hand and it is a near field communication with very low reading distances.

Required Components	
PDA	With integrated RFID- and Barcode Reader
PC	With stationary RFID-Reader
IM_Server	With Data Base (SQL 2005)
Labels on test tubes	Barcode and RFID-Labels with approved HF-Technology (13,56 MHz)
Patient Wrist Bands	RFID-Wrist Bands with approved HF-Technology (13,56 MHz)
User Software	IM_Assist on stationary PCs and PDAs
RFID-Printer	Optional at the hospital reception for direct print of the wrist bands