Recurring productivity gains:
- Clinical Staff: 100%
- Supply Staff: 21%

Storage space-related gains:
- Space reduction: 22%

Supply-related gains:
- Inventory reduction: 33%
- Shrinkage reduction: 90%

Source: University Hospital in Lund, Emergency Medical Care Ward
SpaceTRAX® NoCount® enables the implementation of the hospital’s overall supply-strategy and allows for the planning of deliveries of products and goods based on actual need. Active management of the demand is basic for a rational supply chain.

SpaceTRAX NoCount as a support application for the internal logistics provides full control of materials from central supplies to the individual department or operating room.

The solution adds economic efficiency to hospitals by reducing excess inventory, eliminating losses due to expired items, increasing inventory turns and reducing handling costs due to improved quality and security in deliveries. Moreover, it saves valuable hours spent every day on locating products, and manual replenishment and inventory routines.

SpaceTRAX NoCount has been specifically designed to support the two-bin (Kanban) replenishment concept, a leading practice recognised internationally in the healthcare sector.

SpaceTRAX NoCount is scalable and is easy to implement in both individual departments and for entire hospitals. The solution is ideal for low-cost, high-volume items.

### Time savings with SpaceTRAX NoCount

**Inventory management before implementing SpaceTRAX NoCount**

- Identifying items: 5.5 hours per week (Index 100)
- Sending order
- Picking and packing
- Supplying the department: 13.4 hours per week (Index 100)
- Supplying the patient rooms

**Inventory management with SpaceTRAX NoCount**

- Identifying items
- Picking and packing
- Supplying the department and the patient rooms
- Central Supply
- Department

- 5.5 hours per week (Index 41)
Advantages

- Completely automates the hospital department storage unit replenishment process utilizing both RFID (real time) and bar code technologies
- Improves the overall service level and replenishment response times for the actual supplies required
- Reduces the number of regular and urgent replenishments
- Compiles historical consumption data for replenishment optimization reports
- Interface with hospital’s host applications (ERP, WMS, MMIS etc.)
The software

SpaceTRAX NoCount is a specialised replenishment software that brings RFID (radio frequency identification) technology to the process of replenishing supplies in hospital departments. Allowing the utilisation of both RFID and bar code technologies, SpaceTRAX NoCount is an ideal data gathering tool used to identify the replenishment needs of the various storage areas while minimising the involvement of staff from both departments and central supply.

The flexibility and scalability of SpaceTRAX NoCount allows the system to fit perfectly into the existing logistics infrastructure. Specific logistics support tools are designed to aid supplies departments manage inventory and capture actual demand.

Input

SpaceTRAX identifies replenishment needs through RFID real time data capture and/or barcode scan of detachable item labels (1).

Output

SpaceTRAX easily interfaces with existing ERP system and generates valuable usages statistics (2). SpaceTRAX generates precise picking lists for supply staff to complete the replenishment process (3).
Advantages

• A unified and hospital wide concept with fixed item locations
• Par levels and order quantities are standardised
• Ordering is triggered by actual consumption
• Constant inventory turn and shrinkage reduction
The two-bin concept

The two-bin concept that we introduced in 1972 greatly simplifies the process used to determine supply needs. When compared to other replenishment systems, the two-bin concept stands apart because it requires no inventory taking “No Count” or verification when needs are being identified. Moreover, the concept significantly improves the level of service delivered, assures improved control of stock levels in storage areas and facilitates stock rotation – an essential step in preventing product expiry.

The two-bin concept operates with two bins, an active and a backup. When the last item is used from the active bin, the contents from the backup bin are moved into the active bin and the detachable item label is placed for reordering; either on a rail for scanning (Barcode labels) or on a RFID Wall Panel (RFID tags). This automatically notifies the supplies department that an item needs to be replenished. Once the backup bin is replenished the detachable item label is returned from the panel or the rail to the bin.

Recent studies revealed that Stanley Healthcare Solutions’ revolutionary two-bin concept provides tangible improvements in efficiency. A study conducted on Canadian and French healthcare institutions revealed that the average ordering time per supply line could be four to seven times faster with the two-bin concept than with traditional par level systems.

“Since its introduction I personally have never received even one phone call from a user complaining about a stock-out of an item”.

Logistics Manager, Goulburn Valley Health, Australia

Reduction of floor space and inventory value with SpaceTRAX NoCount

Source: Emergency Medical Care Ward, University Hospital in Lund, Sweden
The Central Supply pick and pack items from warehouse…

The nurse picks the last item in the active bin.

The items in the backup bin is moved from backup bin to active bin.

Department

Central Supply

Items are placed in empty backup bins and labels are returned to clips from the RFID Wall Panel.

...and transport items to department with a supply list.

The Central Supply pick and pack items from warehouse...
The detachable item label is moved from the clip to the RFID Wall Panel. The RFID Wall Panel automatically sends an order to the Central Supply.

The Central Supply automatically receives an order. The Central Supply prints a picking list.

Advantages

- Complete automation of replenishment process for individual departments
- Real time overview of replenishment need at all stock location
- Traceability of replenishment order from time of ordering to time of delivery
- Improves the overall service level and replenishment system response time for actual supply requirements
- Creates a standardised material flow to reduce capital inventory investment
- Relieve nurses from clerical duties and allow more time for quality nursing
- Reduces overall stock levels by eliminating excess stock
- Consistent rotation and elimination of expired stock
- Reduces physical storage requirements through the use of consumption determined par-levels
- Ability to react on emergency orders
- Monitor supply chain performance and optimize replenishment system through compiled historical consumption data

By combining SpaceTRAX NoCount with the proven two-bin inventory concept you will achieve the goal of always having:

THE RIGHT ITEMS IN THE RIGHT QUANTITY AT THE RIGHT TIME AND RIGHT PLACE.
Get started with SpaceTRAX NoCount

It is extremely easy to get started with SpaceTRAX NoCount. The software is installed in no time – and it can easily be integrated with existing hospital IT systems.

We can also help you analyse supply flows to determine the optimal par-level for each item. We can even help you organise your stock physically in the two-bin concept.

For more information call us on (+31) 30 6 345 345 or send an email to SHS-Europe-SpaceTRAX@sbdinc.com
At the University Hospital in Lund, Sweden, the management decided that they needed a new logistics organisation to improve the patient care for the entire hospital. The Hospital Management set up below 7 key objectives for the new logistical organisation based on their overall vision; “To have the right items, in the right quantity in the right locations at the right time”. A pilot project and a case study was conducted for Emergency Medical Care Ward.

The supply procedure in the Emergency Medical Care Ward, prior to implementing SpaceTRAX NoCount, was based on a manual routine. Within the department, two people were responsible for the inventory management. Their replenishment decisions were largely based on experience and subjective opinions regarding the items and quantities required for the coming period. The positive outcome of the pilot project has resulted in a full scale implementation of SpaceTRAX NoCount in the hospital.

### Case: University Hospital in Lund, Sweden

#### Objectives

- To simplify the supply procedures making the staff on the department able to concentrate more on treating patients
- Through a smarter supply procedure to optimise storage facilities and therefore minimise required space in the departments
- To save money through a more efficient supply procedure
- To focus on the environment and instigate to a supply procedure where as few items as possible expire and has to be discarded
- To give wards more efficient deliveries by delivering every day
- To create a better work environment and a more safe hospital by elimination storage carts in the corridors
- All of the above should be done on the premises of the departments and for the better of the patients

#### Results

- Reduced time spend by nurses managing inventory by 100%
- Reduced time spend in total managing inventory by 59%
- Reduced inventory level by 33%
- Reduced inventory assortment by 44%
- Improved utilisation of storage equipment and storage space with 22%
- Reduced handling costs in total with 70%
- Reduced handling costs for nurses with 100%
- Improved inventory turnover with 50%
- Reduced wastage (incl. expired items) with 90%

> “The Central Supply gives us a very good service with daily deliveries, and feel responsible that we always have the right items in time for our treatments”

> “Now everything can fit in the storage equipment and is no longer sitting in the corridors in boxes or on trolleys or on the top of the cupboards”

> “Now we (nurses) can spend more time on treating patients”
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