



# DocSys Healthcare Systems



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## Dox TMS

### Theatre Costing & Inventory Management System

#### INVENTORY

Inventory management is fully automated, including purchase orders, receipts, and consignment stock.

Stock is managed at economic levels using rolling stocktakes; staff time is minutes per month rather than hours per week.

Serialised prosthesis management, batch controlled stock and end to end management of consignment stock are all included.

#### PREFERENCE CARDS

Managing the many permutations of Surgeons' Preference Cards is very easy using list inheritance. Items need only be maintained at one point rather than in each card.

#### ROTATING ROSTERS

Labour costs are automatically generated and applied by Roster / List / Episode. TMS makes light work of staff rostering.

Manage procedure and inventory costs — very easily .



- All costs, direct and indirect, are automatically brought to account.
- Requires minimal to no effort from theatre staff.
- Analysis and management is by procedure type, doctor, list or episode and any date range
- Comprehensive inventory management including serialized items, batch control, consignment stock and automated purchasing.

Hospitals face increasing cost management pressures yet are often deprived of the essential tool of cost management—detailed and timely information.

Management may suspect that the costs of surgical inventories are too high, that purchasing could be better managed, theatres utilised more gainfully or staff better deployed. However, without good information, changes for improvement and the ongoing management of changes remain difficult tasks.

Information on items and equipment used in theatre and which staff costs are applicable has previously been a burden for clinical staff, but Dox TMS requires little or no nursing effort .

Those problems are overcome by Dox TMS which also provides comprehensive management tools such as costed rotating staff rosters and sophisticated inventory control for all of your stock including prostheses and consignment products.

TMS is as equally well suited to hospitals as it is to day surgeries. In each case TMS can interface with the principal PAS or PMS and can scale from one theatre to twenty, along with the attendant factors of scale including roster complexity, inventory stores, lists, preference cards and surgeons. The system can span from one campus to another with true multi-location and central services department capability.

TMS is offered in configurations suitable to small day surgeries through to a large scale enterprise version. Each configuration has a companion CSD suite that brings comprehensive sterilisation management and instrument tracking.

TMS is on the Web at:  
[www.medicalit.com.au](http://www.medicalit.com.au)

DocSys Pty Ltd

P.O. Box 501

Carina, Qld, 4152

Phone 07 3117 0956

Fax 07 3117 0962

eMail [dox@docsys.com.au](mailto:dox@docsys.com.au)

# Dox TMS



Dox TMS does not require staff involvement to capture every movement of stock or any other expense transaction. TMS captures data by exception yet still provides an overall detailed cost analysis.

The system knows what has been picked from stock for Doctor X performing Procedure Y (that's where the Preference Card works). Just the few instances where the consumed quantity varies from expectation or item X was used rather than item Y are all that need be recorded to capture full knowledge of stock transactions for the procedure.

Those few possible exceptions are either listed on a paper based Tally Sheet (mark the appropriate box) or on the Touch Screen of a computer (touch the appropriate entry). Each of those techniques requires less than a minute for all data input; the entered data is later reviewed and confirmed by administration staff. If all went according to expectation in a procedure, that is there are no exceptions to record, then there would be no data entry requirement at all for theatre staff.

The recording of labour expenses is made easy with costed rosters that are configured with your rotating schedule of lists and nursing staff.

Dox TMS captures all variable expenses for each episode, absorbing as necessary other pro rata allocations of variable expenses from the List (of which the episode is a part) and from the Roster (of which one or more Lists are parts). TMS covers pre-operative, anaesthetic and recovery costs as well as theatre costs.

Fixed expenses are also automatically applied. These would typically included administrative labour, building and occupancy costs, amortisation or depreciation charges, and so on.

All allocations for both fixed and variable indirect expenses are only applied where appropriate. Theatre costs may for example be absorbed across all procedure types but amortisation expenses for some specific theatre equipment might only be absorbed by retinal procedures and possibly further refined to only apply for certain ophthalmologists.

TMS can bring to account every item of expense for the enterprise, absorbing them pro rata against appropriate income producing episodes. The detail and extent of that breakdown is a choice made by management using pro rata or weighted allocation of the actual cost, or a standard cost (both cost bases are available for reporting). There is no limit to the number of Fixed Expense categories, each of which is set up to allocate its annual gross cost against one or more types of procedure or episode.

## ACCOUNTING

TMS includes the award winning Jiwa Financials software system. Jiwa provides the inventory management capabilities that help automate what are otherwise time consuming accounting issues. TMS and Jiwa give you alternative items and vendors, consignment stock management, multiple costing methods and more in a multi-company and multi-location system.

## PURCHASING

Staff use a simple screen to place an order for stock and to receive deliveries. Dox TMS automatically calculates stock orders using

- Stock on hand, on order and allocated for future procedures
- Delivery lead times
- Economic order quantities

## REPORTS

TMS has a comprehensive set of reports. These can be user modified or supplemented using Crystal Reports.

TMS has several 'Temporal Tables' for transactions that are specifically used to collate user accessible data for data-mining.

## Key Features

- Least possible effort by clinical staff yet the transactional data is 100% complete. Typical clinical staff time per procedure is less than a minute.
- All costs (fixed, variable, direct, indirect, inventory, capital items, amortisation, cyclic expenses, labour, etc) can be applied with your rules determining how, when and where each type of expense is applied.
- Labour management is made easy with the TMS sub-system for the costing of rosters on a rotating schedule.
- Inventory consumption (actual and waste) can be recorded using Tally Sheets (mark the sheet for only those items that have varied from typical use and then automatically enter the data by scanning the sheet) or by Touch Screens.
- Easily account for waste and extraordinary items.
- Easily and automatically manage Preference Cards
- Full automation for inventory—picking lists, optimised stock purchasing, easy and infrequent stocktakes, alternative items and alternative suppliers, consignment stock, serialised items and batch control.
- Integration with Dox CSD system (1<sup>st</sup> Qtr 2008) for sterilizing management and surgical instrument tracking.
- Scalable from day surgery to public hospital.
- Integrates with popular healthcare administration systems
- Records are protected with 256 bit AES encryption.
- User access is controlled by system security. User accounts can be linked to Windows security for authentication.

## Technical Specifications

- Metadata (Dox TMS and Jiwa) — MS SQL Server 2005 or better (MS SQL Express compatible)
- Client PC—Pentium P4 or better with 1 GB RAM and MS Windows 2000 Pro or better.
- eForms PC—Intel Centrino PM Tablet PC with Windows Tablet PC operating system and 802.11g wireless networking.
- Scanning PC—Pentium P4 or better with 1 GB RAM and MS Windows 2000 Pro or better and TWAIN compliant scanner with dual head true duplex scanning.
- Server PC—Pentium P4 or better with 1 GB RAM, 80GB HDD free space, Windows 2000 Server or better. Windows Terminal Server is recommended.

### Supplied and supported by

Medical I.T. Pty Ltd

Phone 07 3117 0956

04 1220 0771

eMail [dox@medicalit.com.au](mailto:dox@medicalit.com.au)