



STERILIZATION MANAGEMENT & TRACEABILITY SYSTEM

SURGICAL TEXTILES
AND FABRICS

SIXSTER SOFTWARE APPLICATION

SIXSTER has been designed to accomplish operational needs of central sterile service departments (CSSDs), to trace efficiently information and to provide CSSDs with an accurate monitoring tool that helps keeping high productivity standards.



INTRODUCTION

SIXSTER provides leading-edge technologies to manage information with the aim of improving daily activities in the CSSD. The system can efficiently monitor activities in every area of the CSSD so that sterile departments can progressively perfect their services and results.

Modularity is SIXSTER's main feature: the different areas of the CSSD are provided with different modules that cover all their different needs. Modules can be easily activated or deactivated and they allow to better con-

figure the system according to customers' requirements and the types of activities to perform. This modular architecture allows the system to be easily modified in time because of future improvements and/or to different needs of CSSDs.

Recording information in the production and the shipment area, in the warehouse and tracking times between the different areas and in production allow SIXSTER to define precisely production costs for cost centre.

FEATURES

- ✓ results in line with hospital needs
- ✓ respect of high security standards required
- ✓ reliable information and data entirety
- ✓ traceability and backward traceability of user activities and material handling
- ✓ full coverage of activities in the CSSD
- ✓ real-time analysis of the CSSD
- ✓ efficiency improvement
- ✓ procedure automation avoiding unnecessary steps
- ✓ users and workstations can display only activities in their area of competence
- ✓ effective information sharing with customers

Full traceability of procedures in all areas of the CSSD.

Interfaceable with any device and software application used in the CSSD.

Class I medical device, compliant with 93/42/EEC directive and 2007/47/EC amendments.

BENEFITS



MODULAR

Starting with basic features, SIXSTER can be implemented in time with additional modules according to the specific needs of the CSSD.



MULTI CSSD

Multi platform, multi database and multi customers



USER FRIENDLY

Guided procedures and simple user interface (touchscreen monitors)



PARAMETERIZABLE

The system can be completely parameterized and configured by the company using access policies that allow operators to display only information in their area of competence



WEB

Users can log into the system using a standard browser from any workstation within the corporate intranet or using the Internet if they are outside of the hospital. No client installation required.



SECURITY & PRIVACY

System administrators can grant, deny and check authorizations to access the system and configure security policies (even the more sophisticated ones), avoiding the access to unauthorized users.

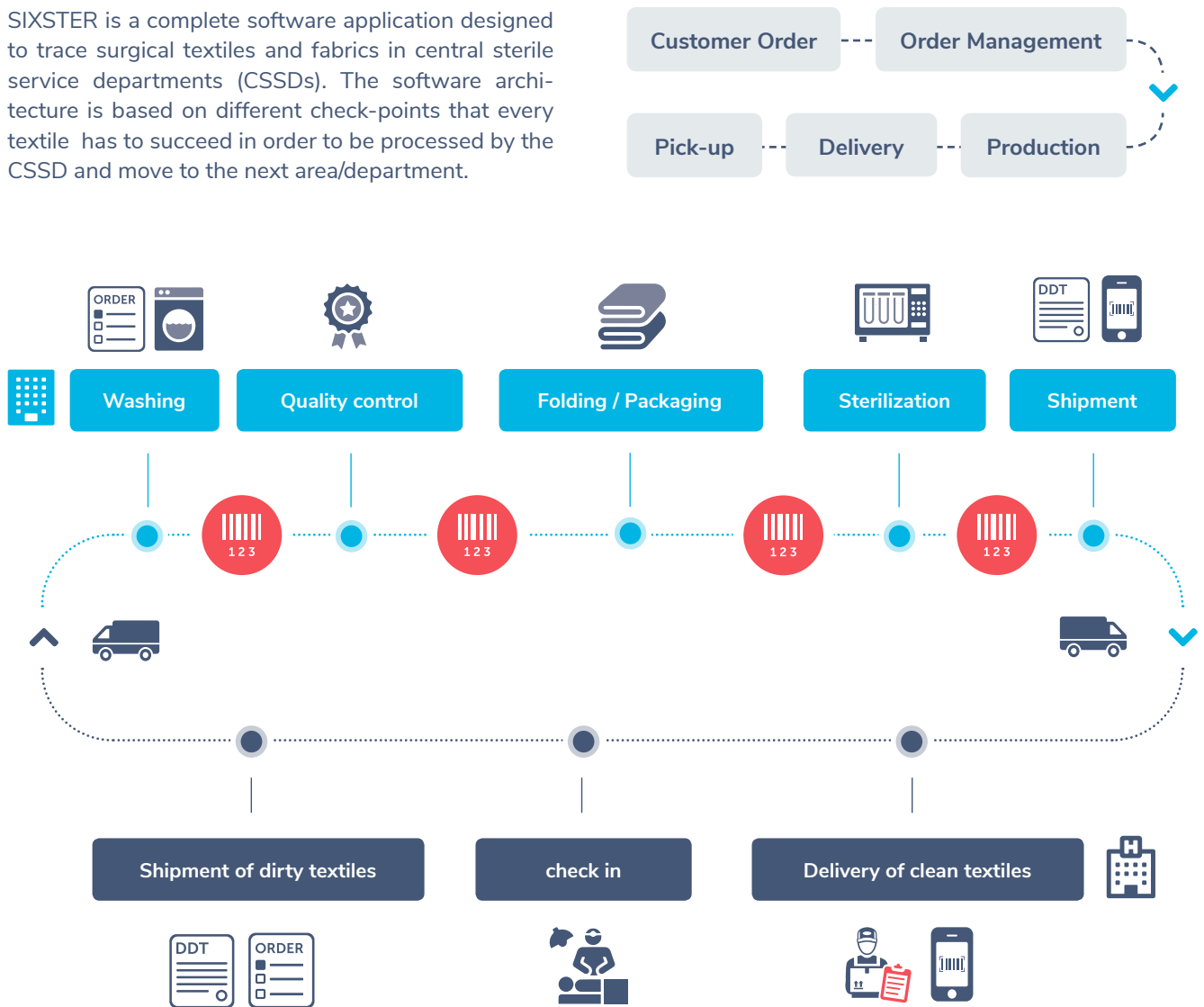


INTERFACEABLE

with any device in operating rooms to collect and record information

TEXTILE MANAGEMENT WORKFLOW

SIXSTER is a complete software application designed to trace surgical textiles and fabrics in central sterile service departments (CSSDs). The software architecture is based on different check-points that every textile has to succeed in order to be processed by the CSSD and move to the next area/department.



When textiles move to the next area in the CSSD, the system checks they succeeded all conditions required.

Operators are acoustically advised if operations have been done correctly.

Textiles to be sterilized can be codified with unique identification systems based on barcodes and/or RFID tags.

SIX manages disposable textiles as well.

SIXSTER can be integrated and it can share information with any equipment used in the CSSD such as:

- ✓ antennas and/or tunnels to read HF RFID laundry tags
- ✓ radiofrequency barcode readers
- ✓ sterilizers, washers, etc...

to collect information about working procedures and trace textiles. To monitor production trends, managers of the CSSD can constantly check:

- ✓ produced lots in the day and their location in the CSSD
- ✓ open/closed lots and/or cancelled ones

SIXSTER supports users globally from the pick-up of dirty textiles up to the delivery of the sterilized ones to customers, offering reports and statistics and a real-time

monitoring of all activities in the CSSD. This allows the CSSD to keep high productivity standards.

STRONG POINTS OF THE SYSTEM ARE:

SOFTWARE ARCHITECTURE

- ✔ customized user interface for every user group/workstation
- ✔ users can only display information they are allowed to see
- ✔ quick access to data, information and documents using different menus that can be customized according to assigned profiles

PROCESS CONTROL

- ✔ complete coverage of all areas/departments in the CSSD
- ✔ support to all users in the CSSD using check-points, check-lists and help-online
- ✔ visual and acoustic warnings in case of failed checks in every procedure
- ✔ specific tools to support and speed up user effectiveness (for ex. optical and Datamatrix™ readers, RFID tags, wireless printers,...)
- ✔ workflows can be completely customized

MANAGEMENT CONTROL

- ✔ full and detailed reports to analyze production costs for cost centre
- ✔ electronic record keeping and invoice automation

TRACEABILITY

- ✔ full traceability in production departments

INTEGRATION

- ✔ integration with the different equipments used in the CSSD and collection of their information (instrument washers, sterilizers, ...)
- ✔ integration with administration and finance (customer contracts, customer masters, delivery notes, invoices,.....) and warehouse systems (in CSSDs, hospitals,...)

a reliable and solid support in the CSSD

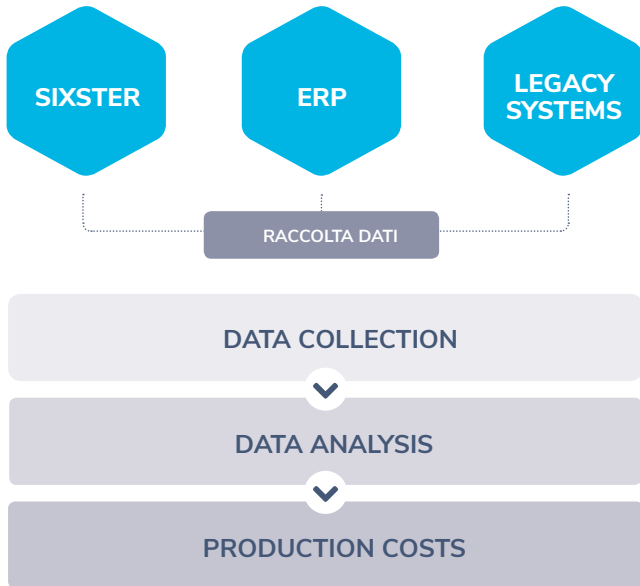
WORKFLOW

SIXSTER workflow is based on the following steps:

- 1 production planning**
customer orders can be recorded in different ways in the system (scheduled delivery contracts, direct orders added by customers or supplies based on consumptions). Production schedules allow operators to calculate net requirements of textiles and fabrics, issue production orders and assign activities to operators/workstations
- 2 identification and collection of textiles sent by hospitals**
reading their RFID tags (single or multiple reading)
- 3 reception in the folding area**
every textile is identified with a unique barcode. In this way textiles assigned to specific “baskets” can be traced throughout all different procedures
- 4 textile quality control**
non conformities are recorded and traced by the system using RFID multireader tags
- 5 textile folding**
using RFID reader, operators can record folding activities and identify folding baskets from their barcodes
- 6 textile packaging**
items to be packed are listed by the system and every textiles is identified using RFID antennas (integrated in workstations). The system advises operators if any errors is advised on textiles. In case textiles succeed all checks, the system prints a tag with overall information about the tray, the operator identification code and the current date
- 7 sterilizer loading, sterilization and lot validation**
textile boxes are matched to sterilizers; the system saves information about sterilization cycles, printing conformities reports
- 8 shipment to the hospital and delivery notes printing**
operators in the delivery are can print delivery notes and an automatic indication about textiles to send to the different customers/departments
- 9 delivery to the final hospital wards**
operators can check expiration dates of delivered boxes, they can monitor ordered textiles and require supplies for textiles under their safety stocks.

MANAGEMENT CONTROL AND COST ACCOUNTING

SIXSTER records information about production, warehouse handlings, shipment, tracking times spent between the different departments/areas and procedures. For this reason it can easily analyze production costs for cost centre.



Management control functions allow the CSSD to reach fixed targets in operational scheduling, monitoring the gap between scheduled targets and results achieved using specific indicators.

Those information can be shared with the management in order to take proper actions.

The integration between SIXSTER and any management software allows the corporate management to get statistics to analyze production cost related to:

- ✓ user performances and costs
- ✓ working times and costs of equipments
- ✓ production times and costs
- ✓ time needed to dispatch orders and their delivery

HARDWARE DEVICES



All-in-one personal computers



Barcode readers



(barcode & laser) printers



Mobile devices



RFID HP multireader readers

