





The solution for complete cycle documentation





SCDS [Schlumbohm Cycle Documentation System]

SCDS is designed to meet all needs, with a perfectly compatible and integrated traceability system with network and IT management software already in use in hospitals

SCDS manages and controls the entire process of washing, disinfection and sterilization of the CSSD, automatically monitoring all phases. Each activity is constantly monitored to ensure a high standard performances, quality, safety and productivity

SCDS is configured to assist the operator during the production and recording process of all the ongoing activities with accurate information and daily statistics. Thanks to real-time updated information, it is possible identify incorrect procedures and initiate immediate corrections

• User-friendly: suitable to be used by all operators without special computer skills (language of the Country of Destination available)

- flexible, easily adaptable: it can be easily adapted to the operational needs of the hospital
- data interchange and total interaction with sterilizers and washing machines
- operational continuity of the software

In line with the primary objective of achieving a high level of organization and transparency of the hospital, ALS developed a special technical division, with a team of qualified engineers, SCDS ensures easy integration between all of washing information, disinfection and sterilization, and the existing management system.

European Commission Directive 93/42 rules all activities of design, production and marketing in the healthcare system. The Directive provides that the sterilization process is correct and valid. With this scope, SCDS obliges operators to perform predefined tasks according to the standardized procedure, allowing it to store and re-check all the processing phases of the medical device and the single phase of work. The information stored concerning the temperature, the pressure and the time of the sterilization cycles, disinfection and cleaning, with the aim of increasing the security level of the sterile product warranty. At the end of each cycle, the system automatically checks these parametric to make sure they meet the standards, and allow the operator validation.

The **advantages** of the **SCDS** system are the following:

- complete guarantee of sterile product
- increase of safety for operators, assisted by the system every activity
- increased attention by operators, because all activities are recorded and linked to the operator that performed them



INFORMATION ON STERILIZATION PROCESS

Tracking and recording of all activities relating to the sterilization process, allows to manage a large number of information that represents an excellent tool for the analysis and process control, with the ability to process reports and statistics for the optimization of the production process.



Between these:

• report and statistics in materials reception (daily or periodic receipt - date, time, operator, material and hospital departments)

- report and delivery statistics (daily or periodical date, time, operator, equipment, hospital department)
- report and sterile production statistics (daily or periodically, for each individual instrument, operator, hospital department, operating rooms, thermodisinfector or autoclave).

MONITORING AND MAINTENANCE OF THE SYSTEM

SCDS automatically operates information on maintenance tasks required for the medical device:

- Location information / activities of maintenance tools (delivered, waiting for maintenance, in maintenance, the date set for reusing)
- Information on the maintenance performed on the instrument (type of service, the number of activities maintenance per formed on a single instrument, the cost, the repair rate)
- Monitoring of the actual availability of the medical instrument status; quality control and cost of maintenance



A VALUABLE SUPPORT FOR REACHING ISO CERTIFICATION

SCDS allows creation of a direct connection among the sterile product, the sterilization cycle and the patient; it is there-fore able to ensure:

- human error reduction
- optimization of the production cost
- safety on recording data
- real-time information on individual product

All these results are an important support to enable operational protocols in line with the requirements of the ISO standards (as ISO 17665, ISO 13485, etc).

A VALUABLE SUPPORT FOR A CORRECT ADMINISTRATIVE MANAGEMENT

SCDS allows the optimization of production and management processes of the CSSD Administration office, and of the operating room, with definition of the following activities:

- external suppliers (vendors of medical instruments, maintenance providers; providers of external services)
- sterile material warehouse
- for internal end-user service (operating rooms, hospital departments)
- checking and control of management and production of costs

DATA SECURITY AND CONTINUITY OF THE PROCESS

The tracking system is of primary importance, and the protection and saving of stored information requires an enormous attention to allow operational continuity to the entire hospital.

SCDS offers an automatic data backup in 4 different ways, with the aim of ensuring complete safety:

- automatic recording on a second hard disk, located on the server PC
- automatic recording on optical means
- uploading data to one or more client stations
- interface with the hospital back-up system for saving data in real time



SPECIAL FUNCTIONS

SCDS assists the operator during each stage of the process, allowing the control of the surgical set or individual medical instrument.

For each set (basket, tray, container or textile packed), the system provides information on the type, quantity, type of use, photos and, if necessary, the assembly process of the set. This information is needed to support the operator during the preparation to packing the various sets; any change is recorded in the checklist. Easily and quickly adding further tools also.

With the possibility to connect a unidirectional code to each individual instrument, the hospital has a detailed instrument maintenance framework and related surgical activity, as the frequency of maintenance.

The supported coding methods are the most various, from the data matrix to the bar code. With this flexibility the hospital can easily:

- Change supplier or brand of instruments without any problem for the information system
- Select the method of identification for the instrument already present within the hospital
- Decide to use the matrix system data only for specific instruments or phases.





SCDS [Schlumbohm Cycle Documentation System]

TECHNICAL DESCRIPTION

The batch documentation system SCDS has been developed to provide rapid, easy and reliable documentation that meets all statutory requirements. Every step taken in the process of sterilization is recorded, documented and filed. The amount of time spent on documenting the processes in the sterile supplies department is thus greatly reduced. A wide range of other information is available using modules that can be configured to suit the requirements.

We have concentrated on designing modular, user-friendly and intuitive software. Therefore the system can be adjusted to suit the local IT architecture while guaranteeing that adjustments/extensions are possible at any time in the future. It takes little time to learn the various functions and the innovative user interface can be configured to the needs of each separate employee, so that the system is not only easy to use but gains ready acceptance from those who operate it.

Connecting individual workstations to a central SQL database ensures communication and flexible work sharing. All the standard functions needed to operate the system can be activated via barcode laser scanners (included for RFID codes), a touch screen or a keyboard and mouse.

Clearly arranged input masks permit operators to enter new users (with dedicated User Licence), articles and sets into the system. The familiar Windows environment and the clearly set out intuitive interfaces mean that even the less practised users can operate the system and work effectively with it.



SCDS [Manager module]

The SCDS Manager is a comprehensive software system for setting up and managing the master data required in the batch documentation system. User-friendly masks such as the User Manager are used to record the name, function and code of each member of the central sterile services department (CSSD).

Each user may be allocated specific access rights, so that employee A for example could be allowed to access PACKING and OPERATE STERILIZER only, whereas employee B might also be authorized to RELEASE goods for use.

Creating a barcode for each user means that each person can access the system using a barcode scanner (in line with their authorizations). Likewise, it is possible to identify, for all batches, the position and the employee responsible for conducting each process. The solution allows also to track material and employee outside the CSSD (transportation and return).

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SCDS [Manager module]

The *Set Manager* is used to list baskets of instruments for surgical procedures and each article therein. For greater clarity in the packing list, notes on packing as well as photos and videos can be added here.

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The *Instrument Manager* can be used to add new articles or incorporate items from existing catalogues.

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SCDS [Manager module]

User Manager

- ✓ Add new users
- ✓ Issue user passes
- ✓ Grant rights to individual users
- ✓ Allocate to departments

Customer Manager

- \checkmark Add new customers
- ✓ Allocate cost centres
- ✓ Record invoice addresses and contact details

Category Manager

- \checkmark Add categories so that sets are easier to find
- ✓ Filing architecture with main and sub-categories

Instrument Manager

- ✓ Add new articles
- ✓ Allocate department, cost centre and repair firms
- ✓ Identify owner of third-party products
- \checkmark Choice of packaging and state weight
- ✓ Choice of programme and, if appropriate, alternatives
- \checkmark Overview of stocks, repair orders and to which sets items belong
- ✓ Record use-by dates
- ✓ Serial numbers and manufacturers' article numbers
- ✓ Add photos, videos, files and text notes
- ✓ RKI (Robert Koch Institute) classification
- \checkmark Active version updates with warnings and overview of alterations made



Set Manager

- ✓ Add instrument sets
- ✓ Allocate department and cost centre
- ✓ Identify owner of third-party sets
- \checkmark Choice of packaging, state of weight and record sterile goods volumes
- ✓ Choice of programme and, if appropriate, alternatives
- ✓ Record use-by dates
- \checkmark Optional record of fixed costs or time required for processing
- \checkmark Define order in which goods are packed and number of labels
- \checkmark Add notes and work instructions
- \checkmark Add photos, videos, files and text notes
- ✓ RKI and DGSV classification
- \checkmark Create categories to make sets quicker to find
- ✓ Allocate storeroom
- \checkmark Active version updates with overview of alterations made

Machine Manager

 \checkmark Clear presentation of maintenance, service, validation and routine tests incl. automatic reminder with adjustable delay



SCDS [Recorder module]

The SCDS recorder saves all the relevant parameters for the processes performed by the machinery to which it is connected (cleaning and disinfecting equipment / sterilizers / sealing devices / other medical devices) in an SQL database. The data recorded can be displayed on the system or by means of a print-out. All items of machinery that have an IT interface can be integrated into the system.

Depending on the type of machine, you obtain a record of all the process parameters that the equipment manufacturer supplies. Additionally, the AIC/SCHLUMBOHM models can provide readings on the machine's own display.



Active user guidance / information displayed on the sterilizer touch screen:

Recording process data of sterilizers and automatic cleaning and disinfection equipment

- ✓ Batch and exposure times
- ✓ Programme selected
- ✓ Batch number
- ✓ All temperature gauges
- ✓ All pressure gauges
- ✓ Temperature and pressure chart
- ✓ Loading
- ✓ History of each separate phase
- ✓ Remote maintenance diagnosis





SCDS [Packing area module]

This module provides all necessary packing information at a glance. Sets are selected using the convenient barcode scanner. When the required set has been selected it is possible to check the instruments prior to packing to see if they are intact and fully functioning and "tick off" ones that are in



order. If defects are detected, or instruments are missing, these can be marked as "defective" and processed further using the optional repair module. If photos of the sets or individual articles have been stored, these can be selected to display in the desired size.

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An image of an instrument or set is of particular interest when it is important to check a complex arrangement or significant details.

Instructions for use supplied by the manufacturer can also be shown in this manner. To avoid using a keyboard, the individual commands can also be given by scanning barcodes or by "pressing" a button on the touch screen.



SCDS [Packing area module]

A packing list and several photos / videos / written notes can be displayed for each set or printed out if a printer is connected. Data such as area of application, programs, suppliers and notes on correct care can be stored for each instrument. After items have been selected and packed to form a specific set the packing order is completed with the printing of the label.



Documentation and support for the packing procedure

- \checkmark Drag and drop to select set / article
- \checkmark Photos, videos and general information
- \checkmark Packing instructions can be integrated into the packing lists
- \checkmark Tick off articles already packed
- ✓ Mark defective articles
- ✓ Create individual and group labels
- \checkmark Create new sets at the packing station
- ✓ Define categories
- ✓ Document past packing activity
- \checkmark Users can choose their input mode scanner / touch screen / mouse + keyboard
- \checkmark Create and manage group labels



SCDS [Cycle module]

This is the module that displays all recorded batches. The data shows when batches can be released and gives an end-to-end record of the processing cycle.

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		1200229423 1000000833 7300012598 57	L NORCHWEN CHEZ	•	15.10.2014 13.15.13 STERUE 27584 Industrets	, 500000002

A filter function is able to distinguish batches by machine, date, status, user etc. so that only the relevant batches are shown or appear on the print out.

	CODC	Last B4D Test	16 10 1014 07-52-04	1				
	Cycle report (Sterilizer) 1 / 2	Last Vacuum Tes	15.10.2014 10:12:43					
Oycle	27590	Status	SUCCESSFUL	Terre	Provision	Temo	Person	
Machine	STERI II	Residence Time	00:00:01			°C	mbar	
Program	Instrumente	Plateauphase Min.	5.	10:30:44	Furstmung andresen Programmatant	910	80	
Start	16.10.2014 10.36:38	Plate auphase Max	-	10.36.59	Paik. Vakuum - Evakuleren	91.1	980	
End	16.10.2014 11:27:50			15:38:29	Prail Valuami DameRitrais	82.0	1787	
Duration	00.51.12	Error	-	10-44-35	Prak. Vielaum - Demphtone	83.1	1792	
Operator	500000005	1.1		10.47.07	Frail, Valuomi Evaluation	118.3	1005	
Gearance	16.10.2014 11:36:47	Remarks	16.10.2014 11:36 Indikator I.O.	10-49-00	Prail, Vakuum - Demofetore Brail, Vakuum - Euskularen	110.1	1792	
Clearer	500000005			10 52 49	Arteirer	88.0	107	
				10.56:11	Plateauphase	136.0	3128	
TEMP/C			PRESS, Inter	1102.49	True ren	77.8	178	
100 100 80			2400 1000 2400 1100]				



SCDS [Cycle module]

Using a drop down menu, the comprehensive statistics function provides an option to create, with little fuss, customized requests for information, e.g. machine capacity utilization / goods sent for sterilization broken down by department / use of available manpower / cost checks for third-party sterile goods etc.



For a rapid assessment, the requisite data is clearly presented in the shape of a print preview.

Reports		×
нк 14 эн Q. • Дэ		
	Workload by Sterilizer 01.01.2014 - 28.12.2014	
	Total Workload by Sterilizer (Cycles)	
	197- 00 197-	
	Verkkaal by Month (Cycles) m Ac Ag Sep Dot. Test 9m Am Mex Mey Mey An Ad Sep Dot. Test 9m Am Mey Mey Mey Mey An Mey Sep Mey An Mey	
	Warkbad by Program (Cycles) State Instant State Instant State Instant State STREEL 0.0 0 0 0.07 STREEL 0.0 0 0 0.07 STREEL 0.0 0 0 1.0 1.03 Stread 0.0 0 1.7 0 1.33 Testal 24.40 0 0 1.7 0 2.69	
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SCDS [Cycle module]

Display of batch data

- ✓ Batch number
- ✓ Identify sterilizer used
- \checkmark Identify cleaning and disinfection device used
- ✓ Track sets position and display each separate station (washing, packaging, sterilization and transportation, etc)
- ✓ Program used
- ✓ Current status (in operation / malfunction / end)
- ✓ Operator
- \checkmark Time started and finished
- \checkmark Status and event. Description of fault if batch not successfully processed
- Diagram showing cycle
- \checkmark Print out of batch document with all relevant details
- \checkmark Comprehensive search functions and filters for a wide range of criteria
- Statistics function with customizable query generator to determine, e.g. machine capacity utilization / employee efficiency / volumes of sterile goods handled / cost allocation to departments etc.



SCDS [Quality module]

This module instantly shows you all the relevant process details and allows you to compare the batches on screen with up to three validation curves that have been entered into the system. In addition it is possible to mark single sets / baskets (individual packages) as NOT DISINFECTED or NOT STERILE and to note this in the documentation.



Display and documentation of the release procedure for automatic cleaning & disinfecting devices and sterilizers

- ✓ Direct comparison of process data
- \checkmark Up to 3 validation curves registered per program
- \checkmark Document name and number of person authorizing release
- $\checkmark\,$ Record date and time
- ✓ Option to mark sets / baskets as NOT DISINFECTED or NOT STERILE
- \checkmark Processing individual sets in the batch
- ✓ User-friendly interface
- ✓ Automatic filtering of batches by:
 - not released
 - released
 - defective

 \checkmark A scanner or mouse/keyboard can be used as input mode



SCDS [Storage module]

This module provides functions such as storage planning, inventory management and automatic monitoring of use-by dates. It is easy to prepare delivery notes and invoices, including allocation of costs, for specific houses or wards using the facility's own letterhead.

Store Manager

- ✓ Overview of inventory
- ✓ Search functions (e.g. show out of date sets)
- ✓ Create delivery note with own letterhead
- ✓ Possible to manage more than one storeroom
- ✓ Possible to manage a variety of customers
- ✓ Document past storage activity
- ✓ Users can choose their input mode scanner / mouse + keyboard / touch screen

SCDS [Cleaning area module]

Every set received in cleaning area is registered and recorded. It is possible to spot at once if any items are missing.

Two working station provided, one on arrival and loading side, one on unloading side.

Features

Receiving, record and check the instruments returning of the operating theatre

- ✓ Receving
- ✓ Drag and drop to select set / article
- ✓ Photos, videos and general information
- ✓ Tick off articles already checked
- ✓ Mark defective articles
- ✓ Washing set rejection (re-washing)
- ✓ Define categories
- ✓ Document past incoming goods
- \checkmark Users can choose their input mode scanner / mouse + keyboard / touch screen



SCDS [Repair module]

Every instrument under repairing is registered and recorded.

Features

- ✓ Allocate department, cost centre and repair firms
- ✓ Choice of repair programme
- \checkmark Overview of under repair instruments, repair orders and to which sets items belong
- ✓ Record use-by dates
- $\checkmark\,$ Serial numbers and manufacturers' article numbers

SCDS [OT Module]

Track the material during transportation and return.

Features

Display of sets data

- ✓ Set OT number and patience reference number
- ✓ Identify sterilizer set used
- ✓ Current status (OT / in use / transportation / end)
- ✓ Operator
- \checkmark Time started and finished
- \checkmark Comprehensive search functions and filters for a wide range of criteria

SCDS [Hardware]

Hardware consists of:

- ✓ Barcode reader
- ✓ Barcode printer
- ✓ Label printer
- ✓ User workstation
- ✓ Server workstation