

Partners in traceability of instrument sets

Better tracing of instrument sets with Steri-ID tags,
SteriLine software and the right scanners

Optimising logistics processes in CSSD and OR with RFID

Locating and identifying instrument sets during the logistics cycle remains a constant challenge. RFID has proven itself as being a technology that can improve hygiene, efficiency and productivity at hospitals at multiple levels: in asset tracking, patient tracking and medication management. Tracking sterilised instruments sets is the logical next step when considering a CSSD in a fully integrated, RFID-enabled hospital environment.

The innovative Steri-ID tags offer a high quality complementary technology for barcode labelling across the logistics process. In combination with the SteriLine traceability and location management software and the right readers, you have an end-to-end performing logistics chain.

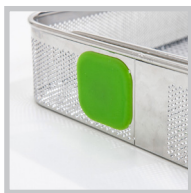
Using RFID technology, all instrument trays of each set can be identified when sets are being transported from your CSSD, either within the hospital, or from your own or external sterilisation vendor to your individual hospital sites or campuses. This facilitates packaging and prevents sets being delivered to the wrong location. Again, rather than health care workers having to take care of logistics, the traceability is facilitated by SteriLine.



Steri-ID tags

Two form factors

The tags come integrated in the instrument basket or in a stand-alone Steri-ID loop. The loop can be used on existing instrument baskets or internal and external transport carts. The RFID-tag is embedded within a silicone coating which is resistant to washing and sterilisation conditions in the autoclave (high temperatures, steam and vacuum), as well as to the most common chemicals used in hospitals.



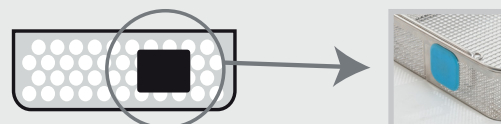
Visual identification

The silicone coating of both the Steri-ID tags integrated in the instrument baskets and the Steri-ID loops are available in 8 colours: Green Yellow, Black, Blue, White, Red, Purple, Teal. This allows you to put together different standard surgical sets or visually identify different locations falling under the same CSSD.

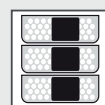


On each sterilisation cycle, a new production label is printed. Multiple criteria can be mentioned, including:

- The medical specialty
- The type of set and the set name
- Date of sterilisation + Shelf Life end date
- Total number of cycles so far
- Sterilisation method
- Location name (after Sterilisation)



Each instrument tray receives its own ID tag, which will never change throughout the lifecycle of the production. The tag mentions both the instrument tray code and the set code.



A set can contain multiple instrument trays. Each instrument tray is wrapped in a Sterilisation Packaging sheet.
(RFID inside, production label outside)



Production labels with a instrument tray code can be printed. The labels, the adhesive and the ink are heat-resistant.

SteriLine software

SteriLine supports a MultiSite workflow - with one single internal or external Sterilisation Department and multiple Operating Rooms. With the use of RFID tags, SteriLine reflects the exact location of each sterile set, allowing Health Workers in all Hospital Sites to trace and follow each individual sterile set using SteriLine Web Monitoring. The loss or faulty deliveries of surgical instrument sets can be dramatically reduced using RFID.



SteriLine: Instrument traceability and CSSD Quality Management

Considering their diversity, complexity, cost and traceability requirements, surgical instruments require efficient management by the central sterilisation department.

SteriLine optimises the CSSD quality and efficiency. It offers a real-time graphical overview allowing to trace the stock and whereabouts of any individual set - including cross-site. Add as many locations as required and determine your own level of granularity. of available sets. More features include loan gear management, workflow support and reporting; integration with washing machines, autoclaves and other sterilisation equipment. With the performance of the operating theatre being strongly dependent on the reactivity of the CSSD, its integration with Operating Theatre planning*, logistics* and workflow* is an essential part.

* SteriLine is one of the modules of Aegis Medical's MLine, which includes OR planning, logistics and workflow.

A health worker in the Operating Theatre waiting for a set to arrive from the CSSD, no longer has to pick up the phone. Simply use the SteriLine Web Monitoring tool to check the status and the location of every single instrument set being processed by the CSSD at any moment.

Defining the right scanners

A wide range of scanners is available. Some suggestions below.



Zebra RFD8500 Sled

With or without Barcode reader connect via Bluetooth with your Mobile Device.



Nordic ID Merlin

UHF or HF via a Handheld Terminal.



Zebra DS9808

UHF and Barcode together via Keyboard emulation via USB cable.



Nordic ID Medea

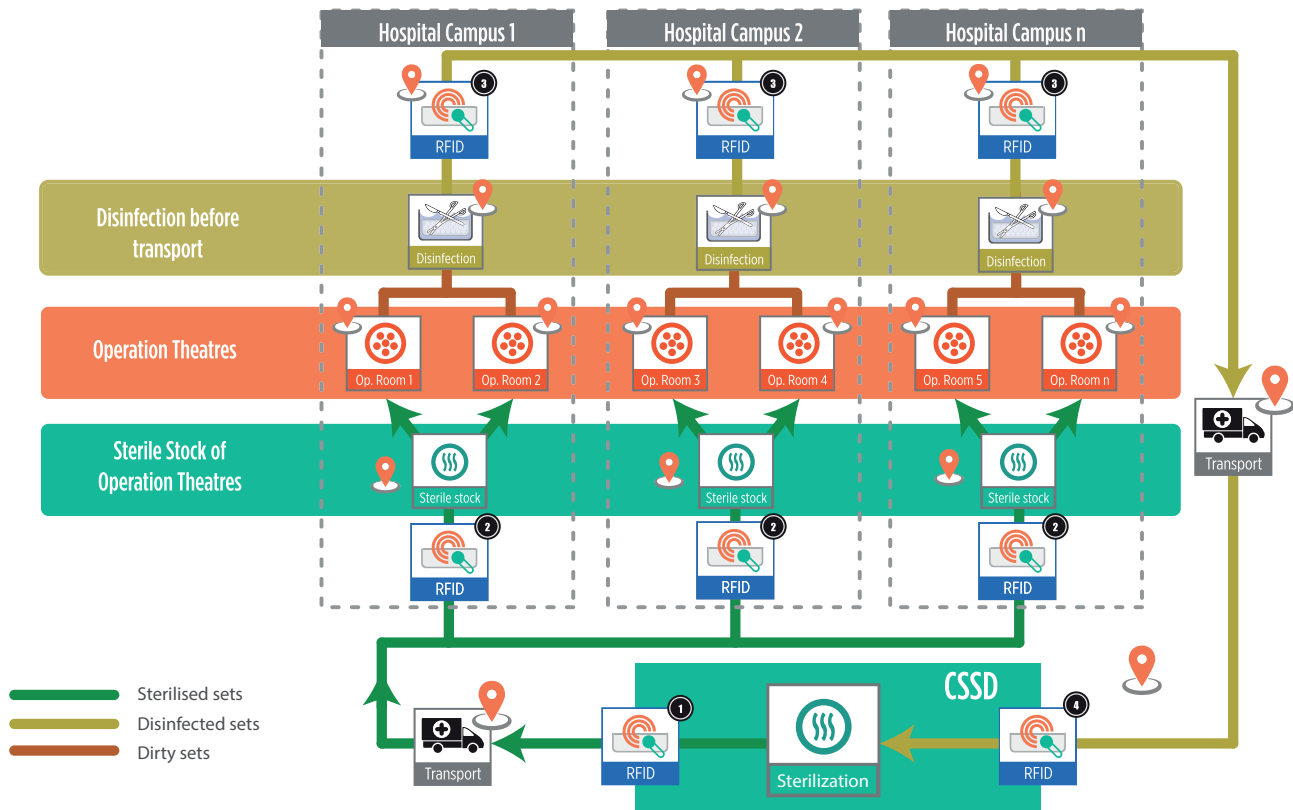
UHF via a Handheld Terminal.



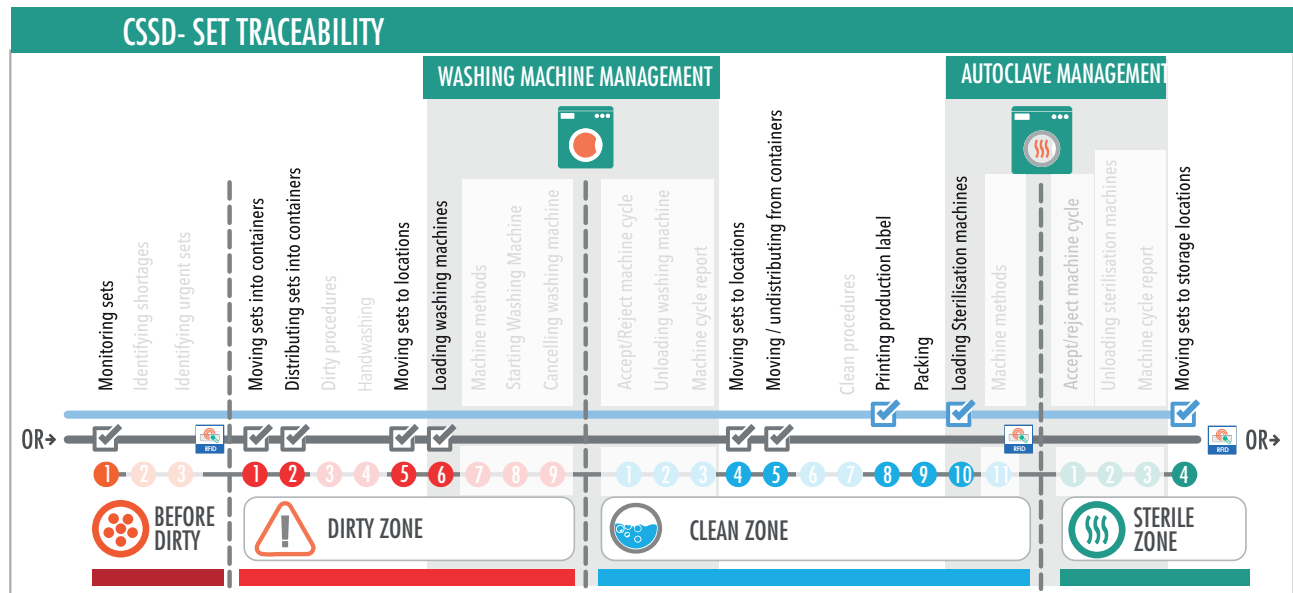
Obid

HF and/or UHF together or separately via Keyboard emulation – whether or not via Bluetooth or USB cable.

Using HF/UHF-RFID tags in a multi-site set-up with one central or external CSSD



Using HF-RFID tags in a single-site set-up with in-house CSSD



✓ The Container Label is scanned multiple times throughout the Sterilisation Process.

✓ One Production Label per sterilised set is reprinted on each Sterilisation Cycle and attached to the wrapped set just before putting the set in the AutoClave. From that moment onwards, it is used to trace the set & the rest of the process.