www.corerfid.com

MMIA – How It Works

Integrated intelligent cabinets manage stocks for medics, managers & manufacturers

The CoreRFID Terso Managed Medical Inventory Access (MMIA) provides an automatic way of managing medical inventory in the ward, the theatre or the laboratory. It uses a combination of electronic tags for inventory, intelligent cabinets able to access the internet and a managed software application that links it all together.

Move to 0HIO for Medical Stock Management

"Zero Human Interface Operations" (0HIO) are seen as the ideal way to remove the risk of error in keeping computer records in step with the real world. The CoreRFID Terso MMIA brings the 0HIO concept to the handling of drugs, prosthetics and medical consumables in the ward, theatre or laboratory. The MMIA system means that authorised users of inventory need to do no more than open the intelligent stock cabinet with their card and then remove the stock item. The system automatically detects the item removed and links that specific item to the user that has removed it, providing instant updating of stock levels and an audit trail of who used which stock item when.

Keeping track of stock movements needs no forms and no data entry. Authorised staff simply use the inventory that they need, everything else happens in the background. The system uses radio frequency identification (RFID) tags to identify staff and individual items of stock. The NHS already recognises RFID as a valuable tool for identifying assets and inventory and has published directives regarding the coding systems to be used.

| Place Internet enabled RFID cabinet at the point of use | Pre-authorized users access the cabinet with personalized badge | Users add and/or remove RFID tagged inventory from the cabinet | Users access the web-based system for global visibility, 24/7 operation, and remote access to individual units |

The MMIA Range of Cabinets, Tags & Software

The Terso cabinets used to provide the MMIA all require a power supply and a communications channel (usually ethernet but optionally DSL or, for low volume usage installations, cellular). All are equipped with an electronic lock activated by the user's RFID identity card and an RFID reader operating in the ETSI (European) standard frequency band of 865 to 868MHz. The cabinets are available in a range of capacities / sizes and with or without temperature control as follows:

Volume	Dimensions (h x w d)	Temperature Control
224 Litres	1118 x 610 x 610mm	None
717 Litres	2032 x 914 x 660mm	None
161 Litres	1055 x 610 x 660mm	-25°C to -15°C
274 Litres	1803 x 610 x 686mm	-30°C to -20°C
421 Litres	1981 x 686 x 955mm	-50°C to -86°C
156 Litres	1054 x 610 x 660mm	2°C to 8°C

Key Benefits

The MMIA solution provides:

- A complete solution: hardware, software, tags & services.

- An easy to implement solution: no complex IT installation.

- A fully UK supported solution: backed up by CoreRFID's expertise.

- A proven sollution: already in use at the UK clients of Promega

These cabinets work with industry standard low frequency (EM41xx compatible) RFID identity cards. CoreRFID is able to provide suitable cards for your MMIA aplication.

Stock items are tagged with EPC Global Class 1 Gen 2 standard (UHF) RFID tags but the exact form factor and perfomance of these tags can vary with the items being tagged. CoreRFID works with clients to identify the most appropriate tags for their particular application.

The system is backed up by a managed, hosted software application. The MMIA application can be configured for Consignment and/or Vendor Managed Inventory style applications or for conventional Laboratory, Stockroom or Hospital inventory management. All systems feature an electronic audit trail of which items were removed by which user from which cabinet at what time. They also provide electronic alerts in the event of stock items moving out of their usability date range or if a cabinet's temperature range is exceeded. The system supports product recall by lot number – rapidly identfying where across a network of user cabinets, the required titem(s) can be found.

The MMIA system is installed and supported by CoreRFID in the UK

CoreRFID's MMIA Solution

CoreRFID is working with Terso Solutions to deliver the MMIA solution in the UK. It is a complete offering, combining all the hardware, software and services needed to operate a distributed stock management system. CoreRFID provides UK based project management and installation teams and local software support. CoreRFID also offers integration services between the MMIA and the user's information systems where needed. CoreRFID is a member of the Active & Intelligent Packaging Association

About CoreRFID

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