

Application

Fujitsu RFID and Sensor Solution for Medical Device Traceability

Fujitsu's advanced RFID solutions enable the real-time medical device and asset traceability that the healthcare industry needs to optimize operations and reduce costs

Healthcare organizations are under tremendous pressure to increase the quality of care, improve patient safety and reduce costs. As a result, asset optimization is a top priority for hospitals and other clinical facilities—which must manage hundreds of critical assets, including everything from wheelchairs and IV pumps to expensive medical devices, and must maintain a lifetime of records for each item.

When staff members can't find the equipment they need quickly, they have to waste valuable time search for assets. Equipment may be "hoarded" in departments, and the hospital ultimately makes unnecessary capital expenditures to keep extra assets on hand. In addition, medical device manufacturers must comply with the FDA's new Unique

Device Identification (UDI) track-and-trace requirements that require the use of Automated Identification Technology (AIT).

Radio frequency identification (RFID) technology provides a robust track-and-trace solution for the healthcare and medical device industries that ensures real-time visibility. Fujitsu helps healthcare providers quickly create automated traceability systems by offering a complete AIT solution that includes flexible software and application development tools, as well as rugged RFID tags that can withstand the demanding hospital environment.

RFID tags provide a way to encode data directly onto a part or asset so that it can be captured and recorded with no manual

intervention. Because the data on the tags is rewritable, equipment data can travel with asset.

Fujitsu's RFID Tracking Pro platform and rugged RFID tags provide accurate identification data that can be used across the healthcare supply chain, within the hospital environment, and by medical device manufacturers to ensure compliance with FDA requirements.

Improved Asset Management

Hospitals must be able to properly inventory, track and account for every piece of equipment used by clinicians, including small items that can't be managed with RTLS systems. Using Fujitsu's RFID Tracking Pro platform and reliable RFID readers from our market-leading partners, healthcare providers can implement an asset management solution that provides up-to-date information on the location of each piece of equipment.

RFID tags can also help ensure that devices have been properly maintained and sterilized after use. The configurable software can run on its own or integrate with asset management or other enterprise systems. Because of the high memory on these RFID tags, maintenance information can be stored along with the manufacturer's standard maintenance practices.

FDA UDI Compliance

Fujitsu's RFID tags can satisfy UDI lifetime identification requirements. The FDA UDI requirements were developed to improve



Fujitsu's RFID tags were designed to work on metal and can survive harsh sterilization processes.

patient safety by accurately tracking medical devices, boost the efficiency and effectiveness of device recalls, and simultaneously improve healthcare business processes and supply chain operations. The Global Unique Device Identification Database (GUDID) will be used to manage the information.

The UDI rollout has broken into phases, with labeling requirements going into effect for some devices in 2014. The program will be expanded to encompass more medical devices each year through 2020.

Fujitsu's RFID tags, designed to work on metal and survive harsh sterilization processes, can help medical devices manufacturers meet the FDA requirements and provide additional benefits. And unlike bar code labels, RFID tags can be read without line-of-sight.

They could be used downstream in the hospital environment to track equipment as it moves throughout a facility. The tags can also be used to enable inspection and maintenance tracking, which can further improve patient safety.

Rugged, Scalable RFID Solutions

Fujitsu provides a one-stop shop for your medical device AIT needs, including rugged RFID tags, RFID readers from leading providers, application software, middleware and deployment services.



RFID tags provide a way to track and account for every piece of equipment.

Easy integration with existing systems

Pre-built applications for fast deployments

Rugged tags designed to withstand sterilization

With Fujitsu RFID Tracking Pro, you can quickly create RFID applications that can be easily integrated with legacy enterprise systems. RFID Tracking Pro reduces the time needed to create, deploy and expand your tracking systems. It includes a middleware component with the native ability to accept RFID, bar code, text and sensor input. RFID Tracking Pro parses the input and provides properly formatted data to the enterprise systems that need it.

RFID Tracking Pro works with all standard GS1 EPCglobal Gen 2 readers that support the Low Level Reader Protocol (LLRP), and has extensive tag reading and filtering capabilities that are user configurable. That allows you to control what information is passed from tags to readers and software applications. Tag data can be output through TCP/IP, HTTP and in different database and file formats for easy integration with host systems.

RFID Tracking Pro also includes a pre-built client/server part tracking application that



High memory tags can store maintenance information along with maintenance practices.

can automatically track and populate a back-end database for work-in-process, tracking, inventory control, equipment inspections and other applications.

Fujitsu also offers a full line of durable RFID tags for permanent asset identification. Our 64KByte RFID Tag is the highest-capacity tag on the market, and provides industry-leading performance on metal surfaces. The Fujitsu 8KByte RFID Tag is a high memory tag that can perform on metal. Both of these tags are compliant with EPCglobal Class 1, Gen 2 and related ISO standards.

Real-time parts traceability is a must for medical device manufacturers that want to remain competitive. Fujitsu's RFID platform provides the building blocks that can help you achieve total life cycle visibility, meet FDA traceability requirements and help ensure adherence to internal process requirements.

For more information about how Fujitsu's RFID solutions can improve your asset management, contact us today.

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