

- +** Add Values
- Reduce Overhead
- ÷** Re-Engineer the Business Process
- ×** Multiply Returns On Investment
- ?** Ask us how



SmartMobile

Every organization requires their supply chain network to be transparent and efficient and be receptive to providing more control over the supply chain and to make the bottom line more visible.

A growing demand for the supply chain visibility makes Radio Frequency Identification or RFID technology ideal for utilization as an automation tool for securing automated data using sensor-based network. By utilizing RFID, the data can be collected more efficiently as compared to manual data acquisition. Data management systems utilizing Reltronics Technologies' RFID technology are generally more efficient, secure and rugged as compared to other data management systems that have procedural or manual interfaces.

The other advantage of RFID technology is the extensibility. As the business grows, an organization needs extended international networks to cover the business relations and to tap into resources internationally. Today's business model requires a clear visibility into the security and internet/intranet protocols so that business is done globally around the clock. In such cases, company management requires visibility to the various processes and metrics to be well aware of what is occurring and how the product is moving through all stages of the supply chain. This end-to-end visibility assists in a better control over the entire supply chain and therefore a greater return of investments.

Need for Mobile RFID

There are two types of RFID hardware primarily: fixed RFID door or conveyor portal and mobile RFID hardware that are handheld mobile readers to interact with the RFID

tags. When mobility is an issue, for instance in acquiring inventory and when data is spread out, mobile RFID handheld readers are utilized. These handheld mobile RFID readers provide great convenience in external data collection to the user. Mobile RFID hardware assists in managing availability and serviceability of movable assets and is used to store, secure, protect and control inventory within the supply chain.

It may be noted that mobile assets maybe returnable, reusable containers used to transport raw materials, work-in-progress and finished goods through the supply chain. Mobile assets may also be assets which are shelved (such as test equipment, test fixtures, etc) and which require tracking to identify whether they are misplaced or are collocated as planned. Such mobile asset data can be easily captured, stored and retrieved with the help of the mobile RFID management software, SmartMobile. SmartMobile enables interconnectivity between fixed and mobile readers and allows live data synchronization with the network using either the Wi-Fi network, microwave network, or GSM.

SmartMobile Workflow

SmartMobile is a Reltronics Technologies software solution for handheld RFID devices to collect the data and synchronizes the information to either a local database or a networked database. SmartMobile works well with several types of mobile handheld RFID readers and is agnostic to which RFID mobile hardware is utilized.

The basic premise is that the SmartMobile reads the data from the RFID tags attached to the object and compares the tag data with the information stored on the database server (either locally or remotely). If the data transmitted to the SmartMobile matches





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with the data stored on the database server, the object is considered to be available and present in the inventory. If the data transmitted does not match with the data stored on the database server, the object or the product is considered to be new and the database server is then updated or the user is notified. Continuous and live update allows for an accurate correlation of the Tag data with its respective object to which the RFID tag is attached.

SmartMobile can be used in a wide variety of scenarios where bulk data collection and database transfer is necessary and when locating inventory or assets or entities within a short span of time is important.

SmartMobile has easy convergence with existing enterprise applications, where it takes the burden of collecting the data from disparate sources and transfers the information to the destination either locally or remotely over the network. SmartMobile supports various type of databases including SQL, Oracle, and open-source.

The SmartMobile is well integrated with Reltronics Technologies ReALTagCoder which programs EPCGlobal Class0+, Gen1 and Gen2 tags, with multiple operational modes, including batch and automated modes. Also, SmartMobile is well-integrated with the ReALTrack-AMS, the asset management system. This integration allows SmartMobile to be installed on the RFID mobile devices and to correlate the assets to stations and specific locations. SmartMobile widely supports 3rd party applications such as ERP or SCM or CRM that requires real-time data required applications. SmartMobile versions that are interfaced with other custom applications are available upon the user's request.

Reltronics Technologies integrates all the readers available in the market and enables various functionalities of the application such as AMS, RMS, ReALTagCoder, SmartMobile and ReALTrack-Locater. The SmartInstrument™ is a versatile middleware which supports the following readers:

- ✓ Intermec IP4
- ✓ Intermec IF5
- ✓ Motorola Symbol MC9000
- ✓ Motorola Symbol MC9090
- ✓ Motorola Symbol XR400
- ✓ Alien ALR9800
- ✓ Psion 7435 Gen 2
- ✓ WaveTrend RS-232
- ✓ WaveTrend TCP/IP
- ✓ ThingMagic M4
- ✓ ThingMagic M4e/h
- ✓ ThingMagic M5e/h
- ✓ Intellex Family of readers

The versatility of SmartInstrument™ enables it to be the most efficient, plug and play RFID middleware and the application allows implementation of better control for a successful operation of any business, large or small.

Benefits of SmartMobile

SmartMobile provides many benefits to the user according to the degree of customization and usage:

Less processing time for optimized data collection

Since identifying and scanning RFID tags utilizing the SmartMobile is not a serial process, like traditional Barcode scanning, business can perform concurrent tasks much more quickly. This means process of moving goods through a supply chain are more efficient leading to a reduction in the need for larger inventories, large number of resources, and large over heads used to collect the data. This subsequently increases the profitability of the organization.

Accurate collection of data including self-health check

The data collected through SmartMobile by scanning has greater first time pass accuracy, since it is tightly coupled with the radio frequency nuances. This reduces the number of errors or omissions that are generated and enabling retrieval of appropriate information.

Increased productivity by cutting unnecessary costs

Identifying items utilizing the SmartMobile involves less work than employing barcode scanning and other less automated ways. This leads to greater process effectiveness and productivity in many tasks such as receiving, disposition, packing, and shipment of goods where the time required and cost of identifying items by RFID is substantially less than other methods.

Improved Utilization of Resources

Information obtained by utilizing the SmartMobile RFID scanning can be utilized to improve planning. The result is that processes are improved, time is saved, and

assets are utilized better.

Reduced Risk & Control of Assets

SmartMobile using RFID tracking enables more optimized audit and asset control. The ability to track and trace items better indicates that the assets can be located more easily. The opportunity for enhanced data collection leads to increased accuracy of record maintenance and improved asset maintenance. Regulatory compliance is achieved more effectively.

Strengthened the Management Practice to realize the organization goals

Until a process is measured accurately it often can't be improved. Decisions that are based on limited, inaccurate, out-of-date information are often poor decisions. SmartMobile enables processes and procedures to be measured better. The information contained in SmartMobile allows managers in companies to be alerted when compensatory business decisions need to be exercised.

Increased Revenues

SmartMobile immediately provides value by finding and eliminating uncertainty or "out of stock" situations in advance and providing for replenishment, thereby reducing lost sales and increasing choices leading to more sales.

Improved Security and Service

Being able to validate information relating to an item enables increased security, SmartMobile contributes to more effective access control, reductions in shrinkage and other losses and the ability to provide fast and efficient services at the point of need. SmartMobile's ability to authenticate information prevents activities like counterfeiting and fraud.

Live Synchronization

SmartMobile detects whether network is available for synchronization. If the mobile reader is not in the vicinity of the network, SmartMobile houses the information locally and continually looks for the network. When an authorized network is identified, SmartMobile automatically synchronizes the data with the network.



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