

BE RFID Software Suite Effective & Mobile Products

Overview of Business Effect RFID SW Suite End-To-End Applications

A comprehensive range of end-to-end applications that cover the needs of organizations that require shrink-wrapped RFID applications, either standalone or able to cooperate with third party systems already in use by simply developing or fine-tuning data exchange mechanisms

Effective Applications

These are full-fledged applications processing flexible parameterization features and rich functionality, which can cover comprehensively various horizontal and vertical operational needs by fully exploiting modern RFID technology. They utilize the "Object Tagging" Utility if printing and/or correlating new RFID tags is required and:

- **Can operate in a completely standalone way** to fully automate manually implemented processes
- **Can interoperate effectively with third party systems**, allowing organizations to subsequently adopt RFID technology, without having to intervene with or modify already successfully operating applications.

Effective Object Inventory

This application fully interoperates with fixed and/or mobile stock taking and object locating software to:

- Realize the functionality analytically described in "Mobile Applications" below
- Download from third party systems (e.g. ERP) theoretical inventories (code, lot or serial no., quantity) for specific storage areas and/or objects (assets, specific categories of stock items, etc) and either compare them with actual inventories uploaded from stock taking applications, or forward them to such applications
- Translate RFID codes of actual inventory data to item codes recognizable by third party systems (see RFID codification types) and upload this data to them for further processing.

Effective Object Management

This is a generic object monitoring, tracking and tracing application that allows the semi and/or fully automatic recording of movements / assignments of RFID elements inside an organization, as well as sending / receiving procedures to / from third parties, together with any resources utilized to accomplish them. In that sense, it utilizes virtually all BERSS Utilities to keep RFID based detailed historical information, hence providing the management with full traceability, control and statistical analysis capabilities.

Parameterization Features - User Defined:

- RFID nodes (RFID tag recording points, e.g. RFID portals, etc) with respective object access / passage rights
- Attributes for all master and transaction files (alphanumeric, numeric, list of values, etc)
- Header / detail transaction codes and respective templates based on RFID nodes, object types etc
- Object statuses (e.g. object is in storage area 1 or outside the organization premises, etc) and methods of status changes according to the current object status and the latest transaction code
- Object counters (e.g. no. of times object went in and out of storage area 1 or passed through RFID node 5, etc) and methods of counter calculation according to object statuses and transaction codes.

Main Functionality

- Comprehensive parameter, list of values and master file maintenance and projection / listing capabilities
- Analytical object transaction recording and reporting (object histories, transaction journals, etc)
- Ad-hoc reporting with user defined filters (code masks, status sets, low and upper limits on counter values, time periods, etc), as well as sorting and aggregation criteria (e.g. stock per storage area, slow moving assets, etc)
- Extensive interoperability and two-way data interchange with third party systems at user defined levels of detail.

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Effective Object Replenishment

This is a fully distributed system with the enterprise RFID server database installed at e.g. the headquarters or the distribution center of a certain company and one RFID server application operating at each of its (Retail) stores. The synchronization between the central and the local databases is manually or automatically triggered when appropriate and is accomplished over the Internet, rendering the whole enterprise-wide system robust, resilient and cost-effective. The system automates all everyday goods ordering, dispatching and receiving procedures between the distribution center (DC) and the stores or between different stores, including returns.

Main Functionality

- Manual or automatic (e.g. data drawn from ERP) order placing at stores or headquarters, data sent to DC
- Object tagging and RFID tag correlation (if necessary) during picking procedure at DC ("Object Tagging" Utility)
- Order checking, loading and distribution at DC ("Object Checking & Handling" Utilities), data sent to stores
- Order receiving and checking ("Object Checking & Handling" Utilities) at stores, automatic update of store IT systems (ERP, POS, etc), goods stored in store's warehouse or placed on shelves for sale
- Similar procedures followed for store to DC returns, inter-store transactions, etc
- Full interoperability with "Effective Object Inventory" and Mobile applications for respective store procedures
- Object RFID tag removal and database update, either during sale procedure (RFID tag reading and translated code sent to POS for document printing), or en-masse (end of shift, day, etc using "Object Checking" Utility).

Mobile Applications

These applications are suitable for handheld terminals with RFID readers running the **Microsoft® Windows CE** operating system and fully interoperate with "Effective Object Inventory" (EOI).

Mobile Object Stock Taking

This is an en-masse stock taking application for selected storage areas and/or objects (assets, specific categories of stock items, etc) and supports 2 different modes of operation:

- **"Blind" mode**, under which all RFID tags in a certain storage area that comply with certain code constraints are simply recorded to be uploaded to EOI, either for further processing, or for translating to codes recognizable by other systems (e.g. ERP, WMS, etc), so that they can be forwarded to them for further handling
- **"List" mode**, under which a list of RFID tags originally downloaded from EOI is compared to the list of those actually recorded, so that deviations are instantly highlighted at the terminal to be handled on the spot.



Mobile Object Locating

This application, after entering or downloading (from EOI) a list of specific RFID tags or a desired RFID code mask, helps the user locate from a distance one or more objects complying with the code constraints given, by producing intelligent optical and sound guidance signals.



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