



Introduction to QRSS (Quark Record Security System)

QRSS is a software system which allows paper based documents to be identified and tracked electronically using Radio-Frequency Identification Techniques (RFID). A small tag is attached to documents that are to be controlled by the system and can be read at strategically placed points (e.g. Document Storage location). When records are to be stored, RFID tags are attached to documents and they are scanned using a reader. The system software automatically records the documents and authorizing person's IDs and also records the target destination through mouse or touch-pad selection. This information, along with date, time and place of the transaction is then stored in a centralized database that can be accessed by authorized personnel. The system software automatically records the target destination information in the tag related to that file are stored in the system.



Quark Gen IT Solutions Pvt. Ltd

Quark Gen[®]
Invading Technology

QRSS is a Powerful Tool for Today's Office

QRSS is an anthology of powerful information administration tools for today's office. Organizations that use QRSS save money by streamlining business processes and are able to document compliance with regulations, and improve responsiveness to auditors, clients, and peers.

QRSS is highly efficient and works exactly in the same way each client and each department wants it to.

The following features make QRSS the perfect solution for your business needs:

- Browser-based user interface
- Configurable search and results
- Flexible label designer
- Unlimited user-defined Classifications
- Multi-File Room / Multi-Office architecture
- Quick-Maps interactive mapping technology
- Single Sign-on via Windows
- Secure audit trails
- Synchronization via connectors



► RFID Reader

QRSS works with the latest technologies:

- Windows 2000, 2003 or 2008 Server
- MS SQL Server 2000 and 2005 database
- Oracle 9i database
- MS Access database
- MS .NET 2.0 and 3.5
- IE 5.5, 6 or 7 browser for Windows

Technology can be customized according to the need.

QRSS has some major capabilities:

- File Tracking
- Search and Request
- Request Fulfillment
- Retention Management
- Workflow Management
- Records Room Automation
- Automated Color Coding
- Bar Code Technology for Tracking
- RFID Technology for Tracking
- RFID Control of Exits
- Image Capture and Sharing
- Document Management
- Automation of archiving and retrieval

Tracking of Files

Ability to track active files, performing check-in and check-out from file rooms

QRSS Application's tracking module which directly interacts with the RFID edge-ware known as Middleware. Middleware is placed at some strategic location to get the QRSS-time tracking data. Middleware is connected to number of RFID readers which are placed at some important locations like doorways, file room entrance or exit and other areas, where they collect the data using their antennas. QRSS Application's tracking screen shows the details of all the files tracked which include files are in movement from person to person, and files are in processing, it also gives details of who is processing what and gives details of since when the file is in that particular employee's custody. Check in and Check out can be tracked automatic as well as using manual modes. In automatic mode check in and check out can be tracked without manual interference and the data related to tracking will be directly saved into the database as well as show on the screen. In manual mode only those tracking related data relevant can be saved using the manual intervention. As each employee passes through logical gates created using RFID field, application logic decides that whether employee is checking in or checking out and at the same time it will be displayed on screen.

Ability to assign files to a specific bar coded shelf

QRSS application integrates both RFID and Barcode, there by creating common ground to set and configure both types of identification mechanisms. User / Administrator using QRSS Barcode Configuration module has the tools not only just for configuring barcode readers but also has bar code creator dialog using this user / Administrator can create the barcodes of any standard type and take printout of that based on the requirement. At the same time user associate bar code tags and RFID tags with available assets, files, boxes or any other physical object needs tracking.



Ability to track a box, such as doing checkout, without needing to scan each file in the box

QRSS offers high volume scanning technology using RFID. **Quark Gen IT Solutions Pvt. Ltd.** provide high frequency RFID tags at lower costs and promises the customer better technology at lesser price using its High Quality Low Cost Model. On each check out RFID readers placed at some strategic locations detects RFID tags placed on objects (Files/Assets/Objects) within the container (box or anything) with 100% accuracy.

Quark Gen IT Solutions Pvt. Ltd. RF engineers designs and implements the RFID sensor network in such away that no reading from RFID tag is missed and promises 100% capture rates to provide accurate data and check the data with already provided records on that specific container.

Report Generation

Ability to store each movement in a location history (chain-custody) that can be viewed, but cannot be edited or altered

History Reports are created using the tracking data generated over the period of time, which contains the tracking information of particular item tracked using RFID or Barcode Technology. Such data cannot be edited because QRSS application do not provide any interface to change the tracking information as it will go against the regulatory laws and rules and regulations followed by the organization, as anybody can manipulate the data. Quark Gen IT Solutions Pvt. Ltd. always takes in to account all the regulatory laws applicable to the system when designing and developing the solutions, hence QRSS provides unmatched security and regulatory compliance.

Alarm Notification

Ability to flag files as Missing and search for them with the portable RFID reader, generating an audible tone and on-screen alert when found.

QRSS has built in search facility in portable RFID /Barcode Scanner which generates the audible tone when searching as the item found audible tone goes to its peak level showing that searching item is found.

Request Placing System

Ability to support multiple files rooms, this

requires: File Room staff sees only the file room they work in. Requests for files, either in the file room or at the archives, go to the appropriate file room. QRSS uses RPS (Request Placing System) to handle the file room scenario and process the request. Based on the files those are in process already, files are shown and disabled, so that user won't be able to select that file. And each user can see only those files which are in process within the same room. Once the user enters into the session with the server after proper login server environment creates the instance of interfaces at client side and create valid session to take input and display prompt output as and when necessary.

Benefits of QRSS:

- **Automated Labeling**

QRSS prints color coded or black and white labels. Each label design can be customized to match your current labeling system.

- **Automate Shelf Inventory**

QRSS leverages RFID-enabled shelving to automate check-in and shelf inventory to speed retrieval of files and help to find lost files.

- **Find Missing Files Quickly**

The Detector feature on QRSS RF-Mobile allows you to locate missing Files quickly like using a metal detector. The long read-range of few feet alerts you to a missing File, then zero in on its precise location.

- **Streamline Check-in and Check-out**

QRSS RFID makes check-in and check-out a breeze by processing large batches instantly. Automatic check-in at a 'returns' table eliminates the manual check-in process, while a self-serve check-out option leverages existing security badges.

- **Integration with Other Systems**

QRSS integrates with other systems using connectors to synchronize data with upstream resources, and Web Services to provide display of File locations, history and requesting within 3rd-party applications.

- **Easy Audits Update Locations**

Periodic audits using RF-Mobile can be done in one-seventh of the time as using bar coding.

- **Enforcement of Data Standards and Validation**

QRSS helps create and enforce standardization of data where organizations commonly lack structured data and automation. Our unlimited user-defined fields and configuration tools ensure that each department can describe its records using its data and terminology.



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