WISE Logistics

WISE

Royal 4 Systems

An Inventory and Warehouse Management System (IWMS) for the Public Sector

COVID-19 is a crisis that will disrupt the public sector's supply chain, most notably in warehouse activities

Existing Inventory and Warehouse Management Systems (IWMS) will not be adequate for the current emergency brought about by the COVID-19 pandemic.

When the volumes or complexity of inventory handling increases rapidly, paper or spreadsheet based IMWS systems will be overwhelmed.

In this crisis, accuracy, control, best practices, and visibility to your inventory is no longer nice to have, it is a critical capability to meet and manage your agency's readiness.

Poor Inventory and Warehouse Management System (IWMS) amplify deficiencies under stress

No clarity on damaged, excess, or shortages

Low customer service levels

Lack of return materials control

Lack of visibility to inventory

Difficulty in locating items

No real time updates

Slow reaction time to changing conditions

Lack of the ability to forecast demand for items

Hidden or hoarded inventory within departments

No reporting or query functions for inventory

Stock discrepancies

Inability to Allocate items in short supply

Low inventory accuracy

Too many staff, too much Administrative Overhead

Redundant wasteful processes

Manual or duplicate entry of data

Reliance upon spreadsheets or outdated systems

Lack of documented processes

Agencies have new of demands on their Inventory and Warehouse Management System

It is more important than ever that you know in real time:

- Everything that you have in stock
- How many of each item you have
- Where items are located in detail and;
- What the condition the items are in

This is an ongoing requirement and will make the difference between success and failure in meeting the agency's obligations during the coming months or years.

You can no longer operate with limited or outdated information about your inventory in a dynamic, unpredictable environment subject to potential nationalizations of critical materials, rationing, or strict allocation policy.

Royal 4 has an IWMS) that can meet all your current and potential conditions for inventory handling

- Royal 4 has products to meet the needs of public sector clients providing Inventory and Warehouse Management (IWMS) control software for over 30 years. Over 400 customers needed for a powerful, comprehensive, and capable system based on best practices that can be quickly and affordably deployed in a hosted environment.

- Since 1984, we have created systems and solutions to manage warehouses, local and/or remote storage facilities, vehicles, and sites with a state-of-the-art real time inventory application based on bar code and smart device technology across any number of departments or jurisdictions.

30 Years of IWMS Experience around the World

Some Federal, State, and Local Public Sector Clients

US State Department
US Department of Energy
Harris County TX
Los Angeles World Airports
Montana Department of Corrections
District of Columbia
City of Long Beach, CA

Inventory Types

Food
Pharmaceuticals
Materials
Operational Supplies
IT and Mobile Assets
Equipment

Commercial IWMS Clients

Wide Ranging Experience
Four hundred customers - Six Continents

Sterling Jewelers Inc. · Mercedes-Benz · MERCK Research Laboratories · Victoria's Secret · J&R · AkzoNobel Tomorrow's Answers Today · Claxton Cold Storage · POJESZ SUPERMARKTEN · AIRBUS AN EADS COMPANY · Metraflex · BLACK&DECKER · LEATHERMAN · TOYO TIRES DRIVEN TO PERFORM · BEARING ENGINEERS, INC. · ARD Logistics · UniGroup Worldwide UTS · FOUR SEASONS GENERAL MERCHANDISE · DELHAIZE GROUP · Jel Sert · Smith Optics · KAISER PERMANENTE thrive · allied printing · René Rofé LINGERIE · LEXANI · THE BETESH GROUP · LAX Los Angeles World Airports · CITY OF LONG BEACH INCORPORATED 1897 · FOOD LION, LLC · Hannaford · Sweetbay SUPERMARKET · ZODIAC AEROSPACE

The return on investment numbers for IWMS are well known and documented by our customers

1. Reduced Administrative Overhead
    48-percent decrease in resource overhead

2. Increased Accuracy and Quality of Information
    5.4 level sigma inventory accuracy (99.8%)

3. Reduced obsolescence
    50 percent less material loss or waste

4. Increased Fulfillment Accuracy
    98 percent first-time inventory fill rate

5. Reduced Direct and Indirect Costs
    42 percent decrease in operating costs

Resources may be reallocated to other areas or tasks with more direct benefits

What WISE Logistics IWMS will do for your agency

- **WISE Logistics** is offered as a Software As A Service (SAAS) so implementation is simple and fast. No local servers or complex infrastructure is required. Simple existing connection to the IWMS service via the internet from desktop PC"s, laptops, tablets, smart devices, or smart phones.

- Fast deployment, immediate visibility, control, accuracy, and governance for every inventory item moving or stored throughout your agency is available.

- You will know what you have, where it is, what quantities are available for use, and their condition and suitability. This critical knowledge will now be at your fingertips for decision making and planning.

- No set of processes offer a better opportunity for immediate cost reductions and improved efficiency than bringing automated, paperless logistics to the administration of physical materials, supplies, and assets. Lean logistics offers the ability to free up cash, reduce inventory carry costs, and eliminate significant indirect costs associated with materials, supplies, and assets logistics.

Centralized Administration – Departmental Participation
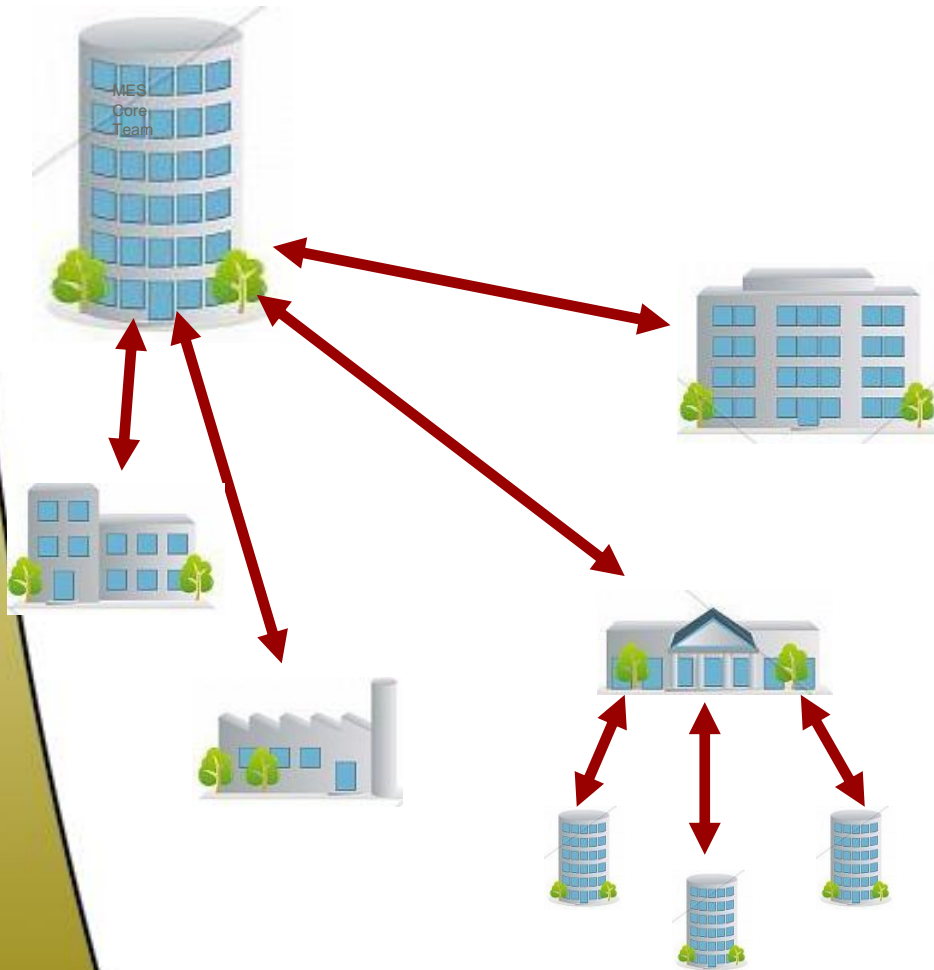
Center of Excellence (COE)

Roll Up Data – Federated Configuration
Each department functions separately and
can stand alone

24/7/365 Operations
No down time
High performance
Scalability from 1 to 1,000's of users

**Implementation**
Fast
Simple
Remote

Core Team/ COE

General Services

First Responders

Others

Health Services

Agency Processes

Fire Department

Police/Sheriff

Public Works

Central Warehouse

Parks and Rec

Convention Center

Utilities

Business Process
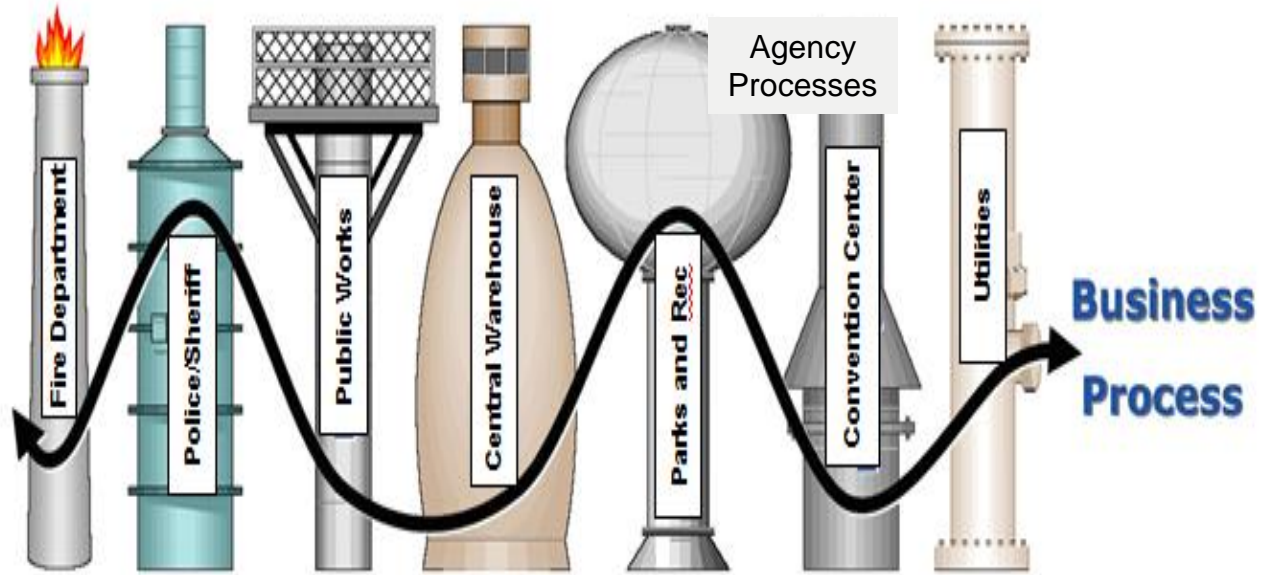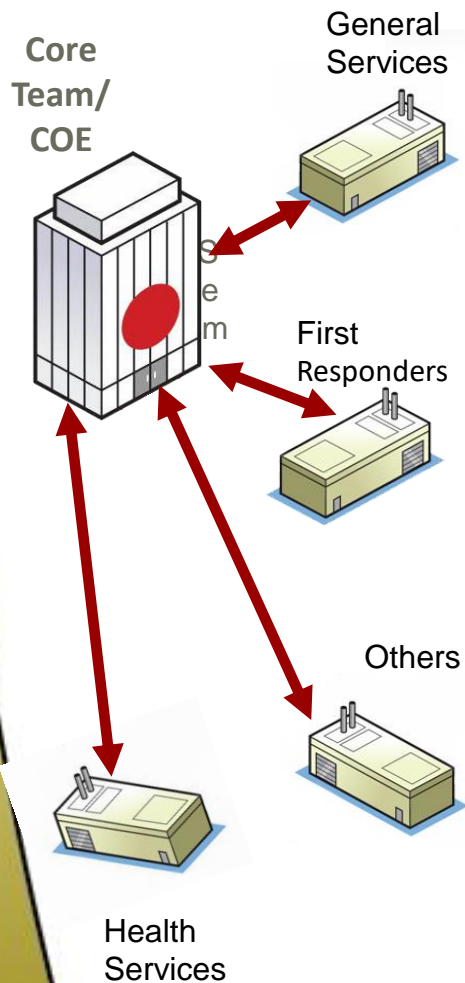
Inventory Management May Be Standardized Across All Departments

WISE Logistics – Feature Set

- **WISE Logistics provides an agency with:**

  - **One Integrated IWMS for Materials, Supplies, and Assets**
  - **Attributes for any unique Material, Supply, or Asset characteristic**
  - **Replenishment scenarios within or across departments**
  - **Built in, configurable, receiving, storage, and movement rules**
  - **Dynamic Cycle Counts eliminates the need for taking an Annual Inventory**
  - **Global Web Access allows access where no RF coverage may exist**
  - **Visibility - reports and queries with security controls at every level of operation**
  - **Real Time tracking and tracing of hazardous or toxic materials**
  - **Lot, Mfg Code, Date, and Serial Number Control by Item and Vendor**
  - **English based rules and operational characteristics**
  - **Material and Supply Synchronization from vendor to the departmental end user**
  - **Engineered Labor Standards for measuring performance**

Highlights of WISE Logistics IWMS

- **The Software Product – WISE Logistics**

  - Receiving, put away dynamic bin/shelf locations, inventory management, picking, packing, shipping, aging, alerts, allocations of short items, routing, physical /cycle counts, RF, Barcode, mobile devices, signature capture, planning, and demand forecasting.

  - Quick cloud-based installation in the GovCloud region at Amazon Web Services (AWS) for completely secured data, applications, and users.

  - Instantly provides value with full real-time operational capabilities, reporting, auditing, and query functions

Installation/Implementation

- **WISE Logistics** is implemented remotely.
- No local servers or specialty infrastructure are required
- At the agency, just an internet connection and browser is needed
- Royal 4 Systems does Work-at-Home, Stay-at-Home implementations
- No onsite meetings or travel required to install, configure, or train staff
- Compliant with social distancing directives
- Low agency overhead to install, a single agency administrator
- Simple pricing, annual service with renewals
- Multiple agency departments supported
- 30-day implementation and training to bring the system live

Where will you data be held?
Cloud Deployment - AWS GovCloud FedRAMP

WISE Logistics is deployed at Amazon Web Services (AWS) GovCloud region under Federal Risk and Authorization Management Program FedRAMP.

FedRAMP compliance virtually eliminates risk and provided the most secure environment that can be offered for hosted data.

FedRamp is the only place Federal agencies may place their data in the cloud. All data and code is held in the continental US and only US citizens have access to the hosted application.
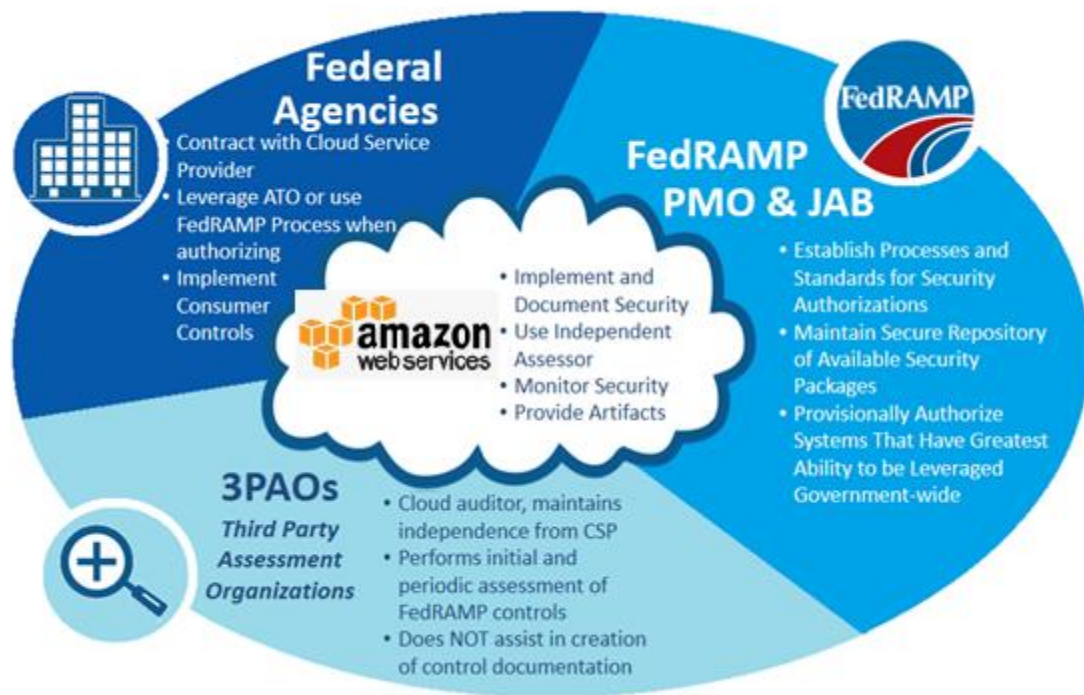
How much does the WISE Logistics IWMS Cost?

- **Special Pricing for the Public Sector**
    - **SAAS application and costs are based on:**
        - **Implementation, Configuration, and Training**
        - **Annual Subscription for the Hosted Software**
    - **Implementation**
        - **Standard Installation, configuration, and training**
        - **Usually less than $10,000**
    - **Hosted Software**
        - **Based on Concurrent Licensing Model**
            - » **Small Agency – Approximately $1,000 per month**
            - » **Medium Agency – Approximately $1,500 per month**
            - » **Large Agency – Approximately $2,000 per month**
    - **Hardware – Dependent upon the number of devices and infrastructure**
    - **Standard Contract –**
        - **Short Duration – Initial Year plus annual renewals**
        - **Fixed pricing for the life of the contract**
        - **Cancel contract at any time after initial year**
        - **Return of all agency records, data, and documentation upon cancellation**
        - **Complex implementation are quoted time and materials**

WISE Logistics – Outcomes

1. Eliminate 90+% of the *Data Collection* and *Administrative Effort* in the receipt, movement, storage, retrieval, and shipping of materials and products

2. Reduce errors and establish a 99.9+% accuracy rate for materials and products that are handled

3. Track operations in real time for Good Decision Making

4. Unlimited Scalability

5. Reduced Operating Costs

6. Improved Customer Service

7. Structured Operations

8. Complete Flexibility Over Time

9. Keep it Simple to Use and Manage

10. ATM Model for the End User

Target Benchmarks

- **Supervisory 10-40% increase in productivity**

- **Material handling 10-25% increase in productivity**

- **Equipment productivity 10-30% increase**

- **Outbound productivity 16-30% increase**

- **Clerical 40-90% increase in productivity**

- **Outbound productivity 16-30% increase**

- **Equipment maintenance cost reduction 5-44%**

- **Storage space reductions 10-40%**

WISE Logistics SAAS means quick ramp to value

Immediate benefits

- High-powered Inventory Management Capabilities at your fingertips
- Visibility: what you have, how much, where it is, and it's condition
- Speedy Implementation and Deployment
- Reduce resources required for their release to more productive work elsewhere
- Best practices imbedded in the system
- Low or No Impact to your overworked IT staff – Just an Internet Connection
- Hosted at a secure location (Amazon Web Services (AWS) GovCloud with FedRamp
- Support any number of mobile and remote users – Add or subtract users at will
- Substitutes Upfront Investment for Annualized Payments in times of budget impacts
- Short Term License Contracts Conform to Public Sector Needs
- Re-evaluate needs annually with no long-term commitment or price increases
- Meet the demand placed upon state and local government for compliance to evolving Federal Compliance requirements

How to get started

- We invite you to learn more. Royal 4 Systems has over 30 years providing IWMS systems to the public and private sector clients.   Our public sector clients span a wide variety of usage and our extensive experience in delivering successful systems can be validated by our extensive reference accounts.

- A small investment in time may provide you with a wealth of knowledge. Join us in an informative webinar to see how **WISE Logistics** will meet your needs and determine if this can provide the level of support to meet the new demands for management, visibility, control, and accuracy for you inventory data.

- To better understand how **WISE Logistics** provides best practices in inventory management, we invite you to visit our website for more information and to request a proposal:

https://www.royal4.com/government/

WISE Logistics

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Royal 4 Systems

Product Design Features

WISE Logistics Addresses Three Process Groups

1. *Inbound* Processes

Receiving Goods

Advanced Shipping Notices (ASN) Expected Receipts

Quality/RMA for Damaged Goods / Return Materials Tracking

Quality Processing

Put Away to Storage

Bar Code Labeling

2. *Holding, and Storage Processes*

Physical and Cycle Counting

Moves

Repackaging

Replenishment

Allocations

3. *Outbound Processes*

Picking

Allocations

Pack/Delivery

Check Out

Loading

Delivery

Public Sector WISE Logistics

WISE Logistics can:

1. Manage all processes, in a single automated, centralized system with segmented databases for individual departments or divisions

2. Provide complete management and control governance for all materials, supplies, mobile, and controlled assets in central or departmental locations

3. Builds 99%+ inventory accuracy for Financial Reporting Systems

4. Eliminates paper-based manual data entry for material management

4. Error-proofing the handling of hazardous, restricted, dangerous materials, or food products

5. Create a real-time inputs for receiving, storing, moving, and accounting for materials, supplies, mobile and controlled assets

Royal 4 Customers Invest in Inventory and Warehouse Management System (IWMS) Software

Royal 4 customers decided to automate because they were experiencing:

- Additional Complexity
- Increased Lines Per Invoice
- Picking Errors – Order Errors
- Shipments were Late or Delayed
- Fill Rates are Low or Falling
- Order Volume was Rising
- Variety or Number of SKU's was Rising
- Customer Service was Low or Falling
- Inventory Accuracy was Low or Falling
- Compliance Cost was High or Rising
- Error Rates on Orders were High or Rising
- Allocations became Necessary or Mandatory
- Dock to Stock Cycle Times were Long

Why is an IWMS important?

WISE Logistics is designed to:

Deliver *tangible savings* in the logistics of materials, supplies, and assets

Provide *accurate data* for proper governance and financial reporting

Maintain *quality information* about the materials, supplies, and assets owned, their location, status, condition, and disposition in real time

Manage and control expenses and overhead costs

WISE Logistics does this by:

Efficiently managing and tracking the flow of materials, supplies, and assets within an individual department or across the entire agency through automatic entry.

Eliminate manual data entry, forms, slips, and documents used to enter and update the status of Materials, Supplies, and Assets the agency uses in day to day operations.

Maintaining the accuracy and integrity of information for the production of financial reports and statements.

Achieving Best Practices – Embedded in the Software License

Measure	Best Practice	What This Means
On Time Shipments	99.8%	Executing shipments on time means that less than 2 shipments per thousand are late. Create **confidence** that you are prepared, ready, and able to meet the demands of your constituents.
Order Picking Accuracy	99.9%	Only 1 pick per thousand has an error. Speed means nothing if you are not accurate. Errors increase workload ten-fold when extra resources are used to reconcile problems
Location Utilization	92%	Space is expensive.
Annual Workforce Turnover	2.8%	In a period of high demand, workers may leave taking their knowledge of operations with them.
On Time – Ready to Ship	99.9%	1 Order per thousand is not ready to ship on time and staging functions are automated
Peak Warehouse Capacity	>= 100%	At peak workload time, storage location may exceed the maximum capacity
Fill Rate – Line Item	99.8%	Orders may be immediately filled and when short of inventory, the systems allocates orders
Dock to Stock Cycle Time	<2.3 hours	Receiving takes less than 1/3 of the time when automated
Inventory Accuracy Location	>= 99.8%	2 items per thousand cannot be found on the first look
Fill Rate - Orders	99.83%	Less than 2 orders per thousand cannot be filled on the first pass

WISE Logistics Supports Unique Requirements
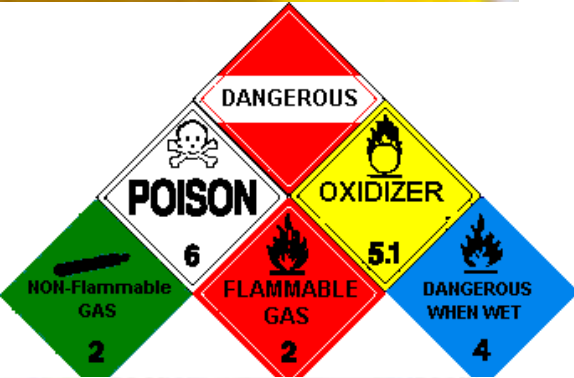
- **Management**
  - Tracks Department-Specific Materials and Supplies
  - Receives expected receipts from ERP
  - Communicates receipts, moves, transfers to ERP
- **Requisitioning/Catalog**
  - Order of materials and supplies based on actual and forecasted consumption,
  - Allocations and Cycle Management
- **Governance**
  - Complete Management, Visibility, and Control
  - Audit Support for Controlled Materials
  - Reduced Errors, Omissions, Liability
  - Expiration and Recall Management
- **Special Handling**
  - Hazardous Materials
  - Environmentally Sensitive

WISE Logistics

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Royal 4 Systems

Product Overview

Process Flow

QC

Put Away

Receive

Vendor or other location

Pick

Stage

Ship

Return

Management, Visibility, and Control

End User
Point of Distribution
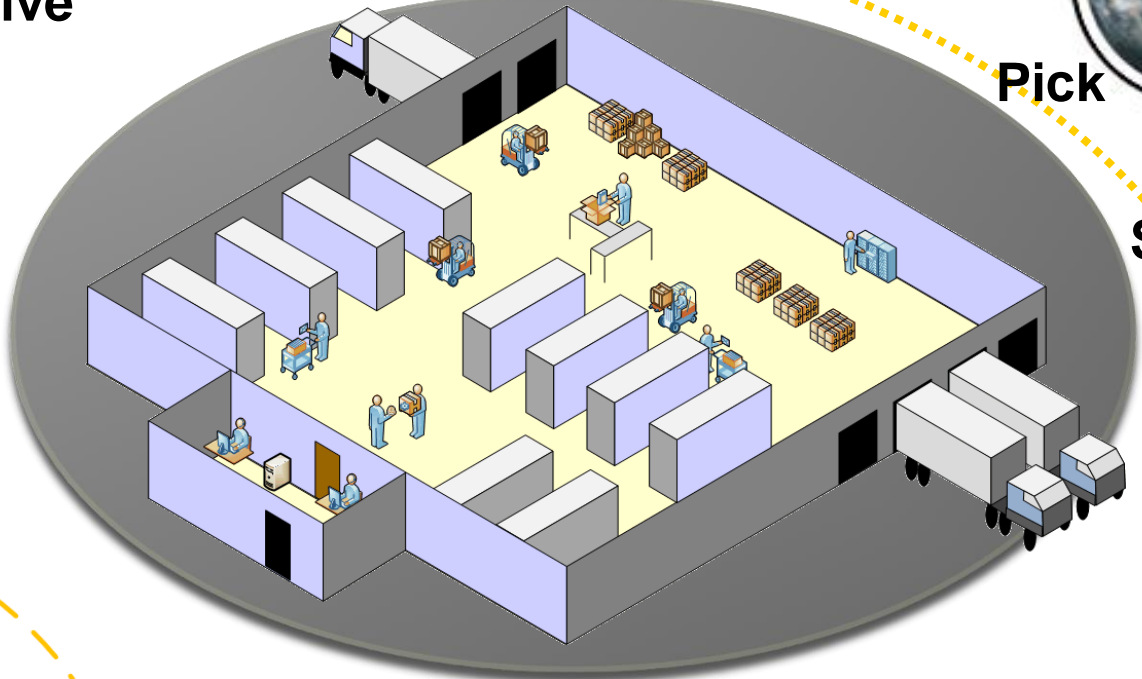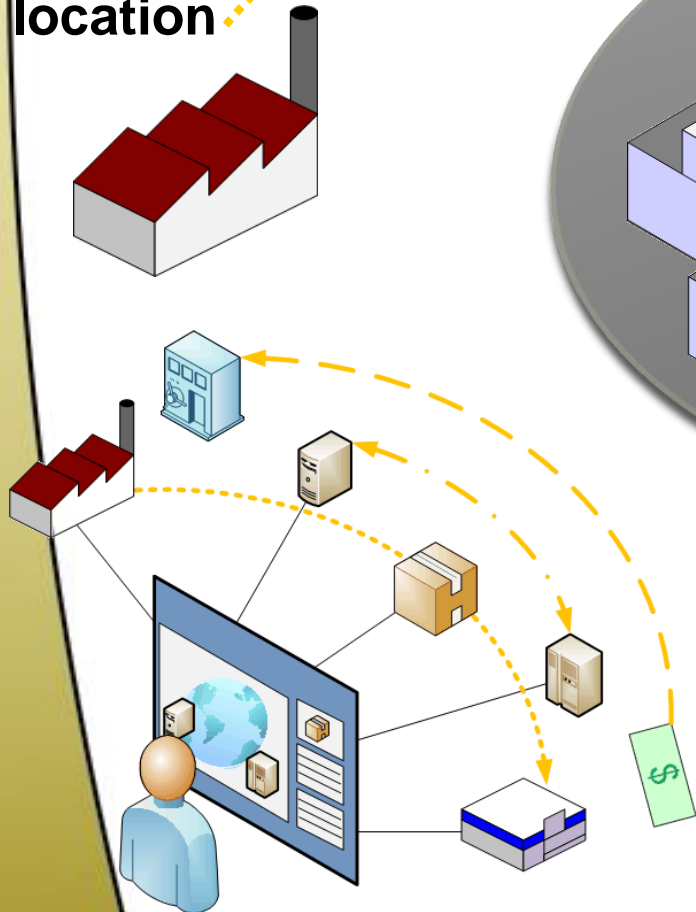
WISE Logistics Supports Every Kind of Automated Recording Device

RF / RFID Label Printers

RF/RFID Handheld Guns

eWISE Web

Other Bluetooth Devices

RF Router

Cellular Network

Local or Wide Area Network

Wedge USB or Bluetooth Scanners
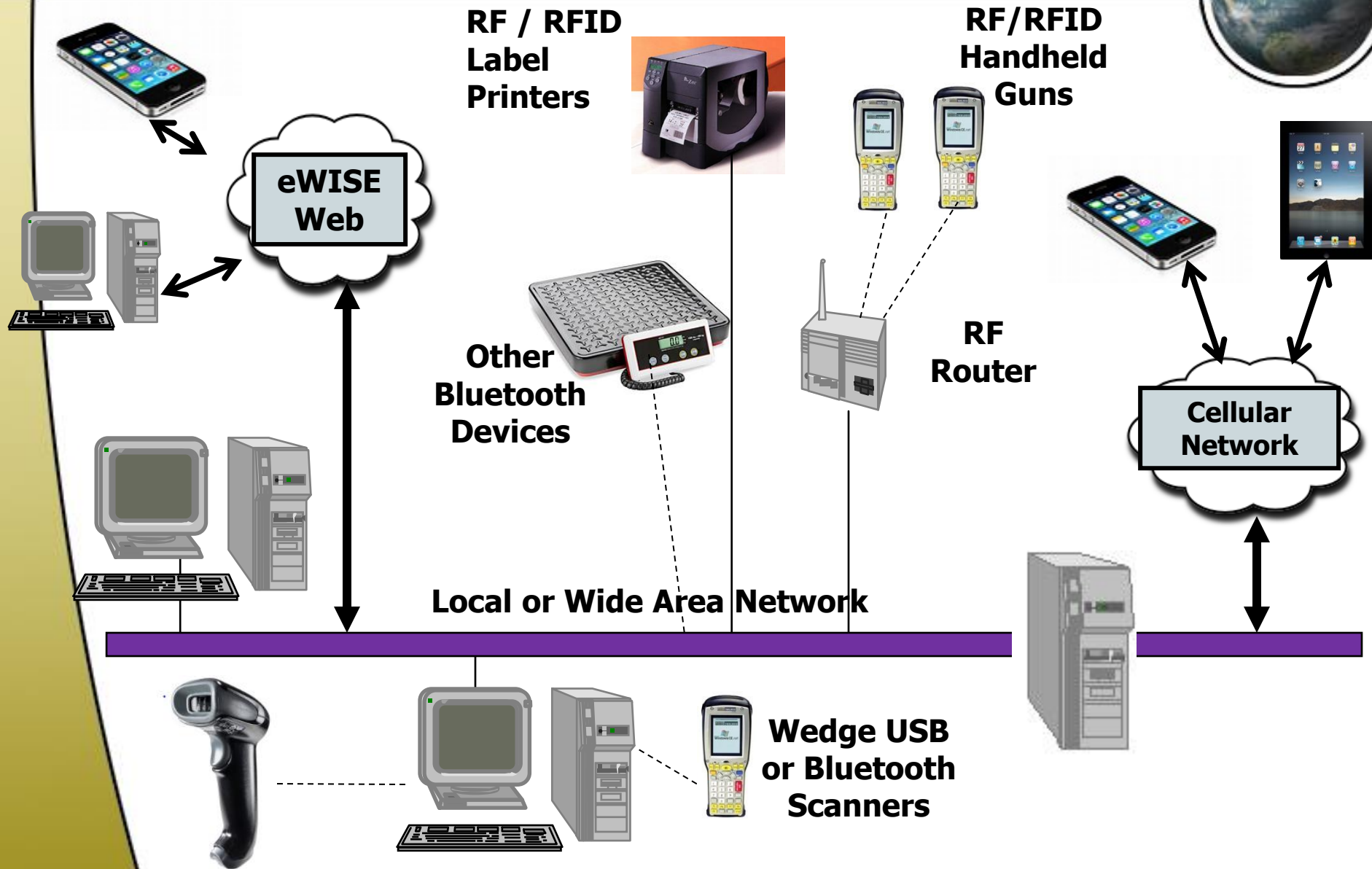
WISE Logistics Supports every Bar Code Label Type and Every Type of Bar Code Label Reader

Any Handheld or Smart Device…
Any RF or RFID Label Type

Example: *Bluetooth* 10 Meter Honeywell Voyager 1452g (1452g1D-1)

Code 39–based barcode.

Example: USB 2.0 1D/2D QR Code Barcode Reader Scanner (wedge)

GS1-128 (formerly known as UCC/EAN–128)

Example: LXE MX7 RF enabled

Quick Response (QR Code)

RFID Tag
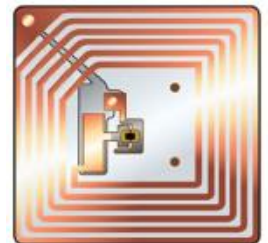
WISE Logistics: Desktop and/or Web Access

WISE RF and Smart Devices: GUI and/or Hand-Held
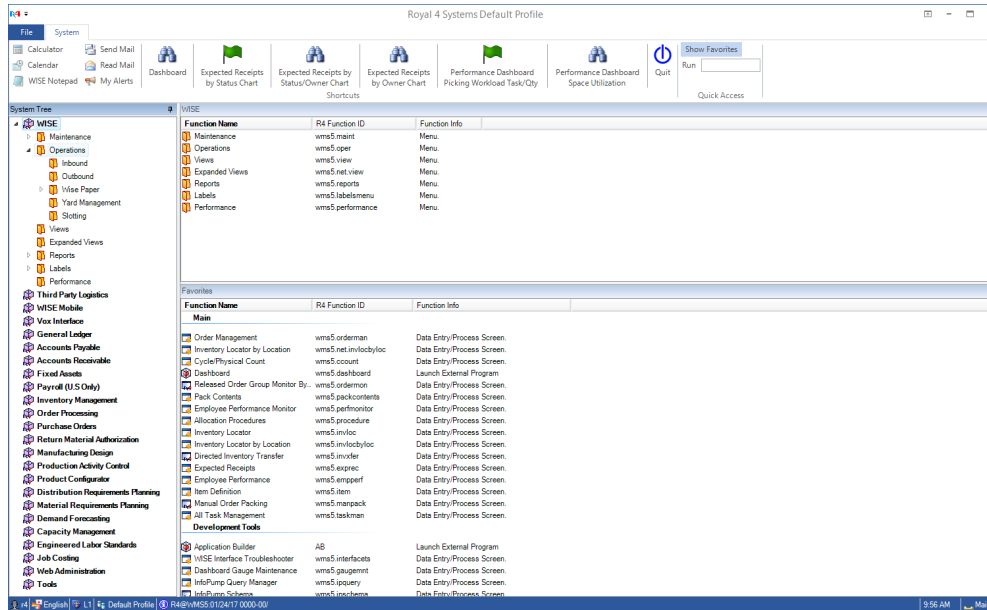
On your desktop
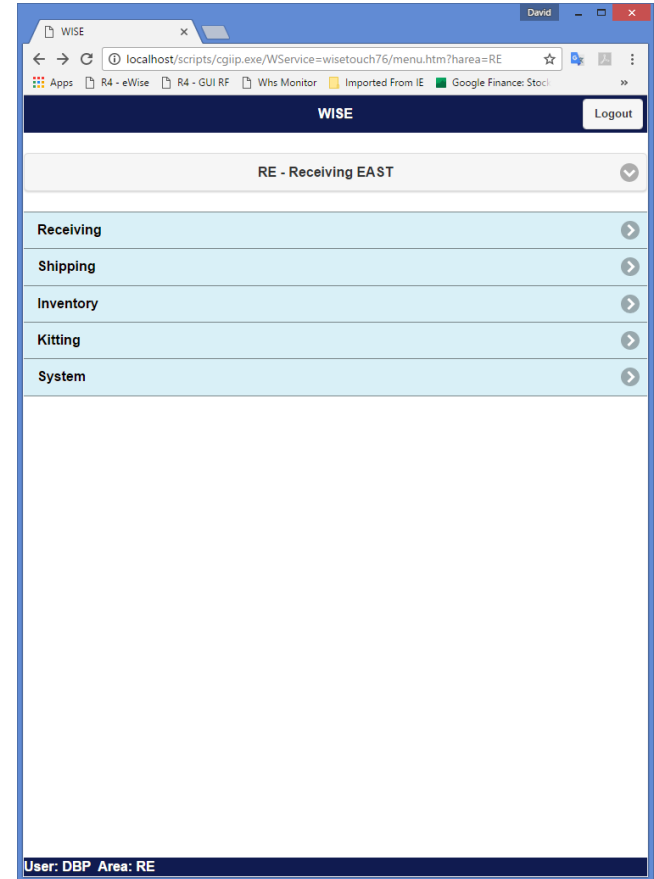
For your RF Gun, Tablet, Smart Device, or Smart Phone

1.0 Maintain accurate inventory item stock levels as items are received into inventory, back ordered, and shipped to locations.

1. **Key attributes**
2. **Workflows may communicate from one screen to another by the link**
3. **Excel icon to export data**
4. **Help Screens**

1a. Keep list of inventoried items and their attributes.

Many ways to see inventory
   By Item Number
   By location

Location Detail
   Tabs for granularity

Special Item Attributes
   Overall
   By Location

1.a

1b. Manage the receipt of items for inventory

Expected Receipts
Direct Order for Items

1.b

1c. Received inventory items sent to warehouse or other storage locations, yards, areas, or vehicles.

Links to Pending Receipts
   Inbound Orders
      Source Document for Orders

1.c

1d. Notate inspection of inventory items for damage and completeness

Identify for special attributes
Capture information upon receipt

Note what kind of attribute
Key
Order Allocation
Extract dates for rotation

Special Handling Items
Tracked and Maintained
No limit on item attributes

1.d

1e. Update information about received items.

Receiving Updated in Real Time
All entries at the gun are audit tracked.

Automatic creation of tasks

Cross Docking for items needed for orders

1.e

1f. Annotate results of physical inventory of items in the warehouse and all storage locations.

Two types of inventory tracking
      Physical
      Cycle Count

Specify areas for inventory actions
Counts are held separately until validated

Counts may be done on RF direct entry

1.f

2.0 Process requisitions for inventoried items in the warehouse or storage locations

Requisitions may be placed by direct orders or by attached files.

Either over the web or from remote devices.

2.0

2a. Receive orders or requisitions for processing from internal or external sources

Requisitions received
They appear in the order management console

Orders may process automatically or through a workflow or manually

Support for "lights out" processing

2b. Allow modification of orders or requisitions before items are shipped.

Web portal adjustments by permission
Set up the rules for your facility
Automatic enforcement

Changes accepted will show up in all the other workflows

2.b

2c. Create pick tickets to facilitate inventory item picking, staging, and packing.

Picking

One step or two step
Conditional

Support for pick, stage, load processes

Full support for product shorts

2d. Manage inventory items pulled from their locations in the warehouse and packed for delivery

Shows all allocation
     Soft allocation reserves in bulk
     Hard allocation for specific items
By location, by item
Shipping system managed by dock door
or exit process

2.d

2e. Document shipment of ordered or requisitioned stock items.

All the necessary paperwork
VIC Bill of Lading

Works off RF devices if necessary

Not generated until all data is correct

2.e

2f. Capture the information about the shipment of **inventory**, including shipping method, who is to receive shipment, and shipping tracking numbers.

Ship to Order
Cancelled Orders
My Orders
Full Security for outside users

Limits access by group or division

See different data based on your role and privileges

2g. Change inventory levels for items that have been moved or shipped from the warehouse or other locations.

On hand versus what is available

Deduction for what has been shipped

Real time inventory balances from location to location

Until item is shipped. it is still in inventory and tracked

2.g

Over 100 standard and ad hoc reports for stakeholders come packaged with WISE Logistics

Reports

3.0 Pull data for analysis and reporting and display and/or print information in multiple formats.

**Graphics distilled from reports
shipped with the system
Auto refresh at customer specified times
Can be used for warehouse deliveries**

3.0

3a. Display information about inventory items including their attributes, stock levels, revision levels, etc.

3b Produce standard and ad hoc reports for stakeholders.


3.b

4.0 Manage user access to the system.

Complete Security
- a) Application security
- b) Application access authentication via (LDAP)
- c) Application server security administration
- d) Web server access authentication
- e) Database security administration; and
- f) Administrative security monitoring and maintenance

4.0

4a. Assign user access rights by identifying the roles that a systems user possesses.

4b. Remove or modify access rights that a systems user possesses.

4.b

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