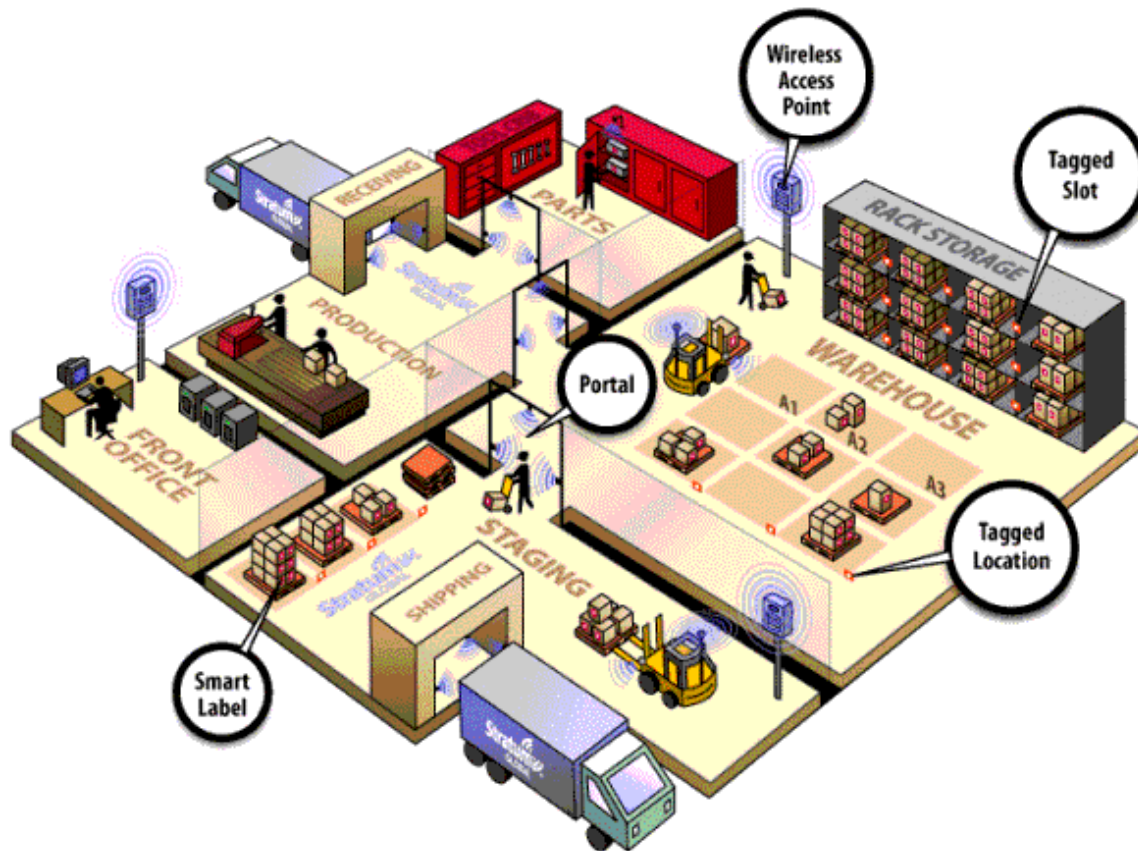


# WAREHOUSE MANAGEMENT

The management of a warehouse is the main function of a warehouse management system. These systems keep record of the storage capacity

## **RFID Based Warehouse Management System**

- The management of a warehouse is the main function of a warehouse management system. These systems keep record of the storage capacity i.e., the specification of the existing storage bins (location management), on the other hand, of the stored units (inventory management).
- In addition to this, it should also include several control functions to optimize the storage activities. Warehouse operation like Planning and control of warehouse facilities and systems has become more complex in supply chain.
- Warehousing is often needed to perform routine logistics operations such as Stock Storage, Order status, paper processes, Sorting, Cycle counts, Loading/unloading and customer service.
- Poor utilization of costly warehouse space, Manual errors, wrong identification of the product during receipt & dispatch, locating items in warehouse will impact the productivity & profitability which results in organization's reputation & losses.



## Negative Business Impact Of The Warehouse

- Manual Errors
- Wrong identification of the items.
- Poor utilization of costly warehouse space.
- Poor inventory visibility and accurac.
- Manual Product counts results into higher labor costs.
- Locating the items.
- Reduced Customer Satisfaction.



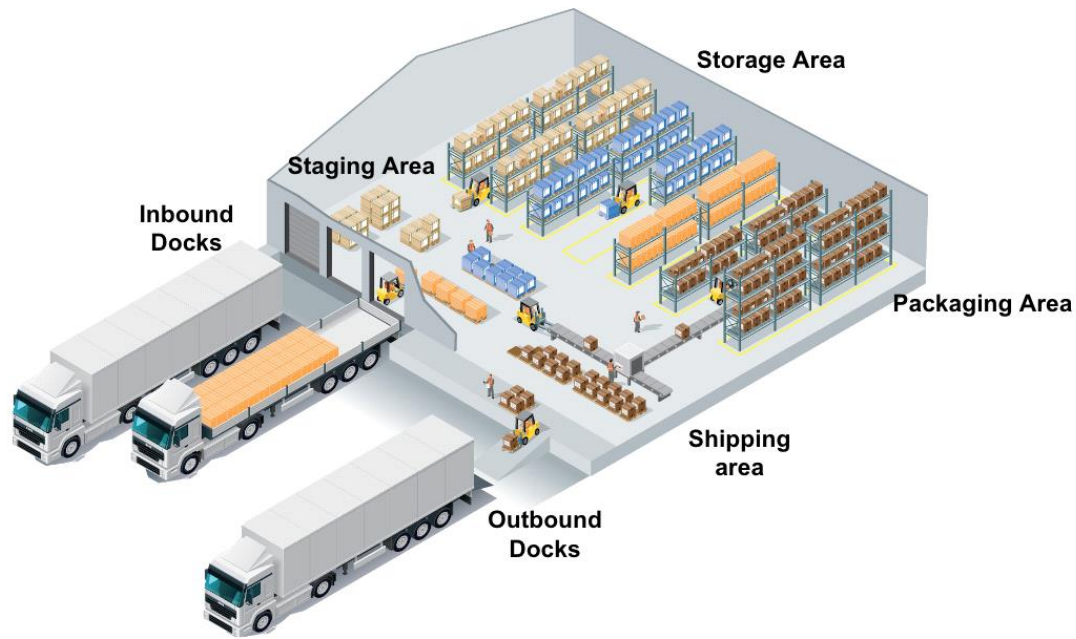
## Warehouse Receipt Process

- The products arrive at the warehouse from the Suppliers warehouse. At the Dock door is mounted with the reader with antenna. Goods(pallets) from the truck are unloaded in the forklift & while forklift passes through the dock door of the warehouse, antenna & reader reads the RFID tag pasted on the all the pallets.
- The captured data is passed to the server immediately. This is how the truck loaded with goods can be received in the warehouse. By correlating the item with the location, item stacking can be achieved in the warehouse.



## **Warehouse Dispatch Process**

- While dispatching the goods, items are put in a forklift from various locations of the goods. When the forklift passes through the Exiting Dock door, the reader attached at the door reads the tag on the pallets & sends it to the server.
- Server then compares the received data with the data stored at the time of receipt of goods & if the match is found, system records as goods are dispatched.
- If the item quantity is not matched, wrong item is dispatching or excess item is dispatching, alert is given at the exiting dock door when the forklift passes through it.
- If the location of the item is unknown or item is misplaced, handheld reader can be used to identify the location in the Warehouse.
- Manual Product counts results into higher labor costs.
- By loading the Data like item no, location etc in the handheld reader & passing the handheld reader over the item, location of the item can be identified.



## Benifits Of RFID In Warehouse Management

- Smoother-running business environments.
- Reduced labor costs.
- Reduction in order entry errors.
- Reduces stocking inventory levels and related warehouse space requirements.
- Advanced data capture capabilities.
- A quick scan of a RFID tag provides instant verification

