Highlights

We have created an application SAP Goods Receipt using RFUI, to enable the customer to perform the goods receipt process in an efficient manner.

Challenges

- SAP Extended Warehouse Management paves the way to accommodate more complex Warehouse Processes and design with respect to an existing physical warehouse.
- Goods Receipt is one of the most significant processes in every warehouse when it comes to the inbound process.
- When goods from an external vendor reaches the warehouse, EWM is used to track / process the received goods with respect to the inbound delivery.
- The challenges faced by the customer when standard SAP EWM transactions / standard RF (Radio Frequency) path are used as described below.

- Inbound delivery reaches EWM and based on the packaging specification of the product, packing is automatically done and HU's (Handling Unit) are created.
- If the HU quantity has to be changed, the user has to do it manually by going to the packing work center for the Inbound Delivery.
  If the packing material of the HU has to be changed, re-packing has to be done through the packing work center for the inbound delivery, which also holds true for change of length, width and height of the HU.
- The shelf life expiration date for the HU cannot be changed manually.
- For new HU creation, it has to be done via the packing work center.
- When the HU's are created, inbound HU labels will be printed automatically based on the PPF(Post Processing Framework) configuration.
- In case if the label has to be re-printed, the user has to go to the HU print log through EWM monitor in order to re-print the label.
- After goods receipt for the HU is done, in order to change the stock type of the HU, the user has to perform posting change for the HU through transaction /SCWM/POST.
- The user status of the HU cannot be changed after goods receipt, which is vital to record if the product is dangerous goods relevant.

Solutions

- In order to mitigate the above challenges, while the inbound delivery reaches EWM warehouse, goods receipt and the above processes can be handled through the RF scanner.

  - The user can scan the door where the inbound transportation unit is docked and the goods for the inbound delivery has to be received so that all the inbound deliveries associated with the transportation unit will be displayed to the RF user.
  - The user can choose the inbound delivery of the choice based on the unloading sequence. All the associated HU's will be displayed to the user with its initial user status as a list.
  - Desired HU can be scanned or can be chosen from the list in order to perform Goods Receipt for the same. Here, the User has the options to change the Stock Type, Quantity, Packaging Material, Length, Width and Height of the HU before posting the GR.
  - The HU label can also be re-printed for which an option has been given along with the options to change the above-mentioned characteristics of the HU.
  - If the HU contains non-batch managed product, the user has the option to change the shelf life expiration date of the HU.
  - If the product is dangerous goods relevant, a popup is displayed once the HU is chosen.
  - If the HU is safe to be goods receipted, the user can choose the option for ‘Yes’ so that the relevant user status will be updated at the HU level.
  - If the tolerance for BBD (Best Before Date) violation for the item associated with the non-batch managed HU’s product is reached, a popup will be given to the user so that the user has the option to change the BBD.
  - When the quantity of the HU is increased and if there is any open quantity available in the inbound delivery, the same will be used to increase the HU quantity. If there is no open quantity, tolerance violation is approved for the relevant item and then the HU quantity is increased.
  - It is also taken care such that if it is a batch managed item, both the batch split and the original item’s quantity are increased equally.
  - With reference to the previous point, the user can also create a new HU in the EWM system with all the desired characteristics. For this, the User should scan a product that is part of the inbound delivery.
  - If it is a non-batch relevant product, the BBD from the item level is considered for the HU. If it is a batch relevant product, the BBD from the batch is considered.
  - Here, the user has the option to choose the desired vendor batch from the list of batches available in the inbound delivery items of the same product.
  - The HU type can be changed by altering the Length, Width and Height of the HU based on a custom table during goods receipt.

Business Benefits

- The proposed solution and its implementation improve the flexibility and performance multi-fold, thereby improving the overall Warehouse Process performance index by 10X.
- 100% Ensured customer satisfaction as goods receipt can be completed and the HU's can be kept unloading / final putaway.

Organization

The Goods Receipt using RFUI was implemented for an Europe based logistics & warehousing company.

Result

100% Data Accuracy

10x Automation

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