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| Test Script  SAP S/4HANA - 17-09-20 | public |
| Replenishment in Warehouse (1FY\_DE) |

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# Purpose

With this replenishment processes, you can plan or automate the creation of replenishment warehouse tasks to maintain the right inventory levels for your products in the areas where picking is done. In this process, stock is managed on storage bin level.

This document describes the replenishment process for:

* The replenishment of “Small Parts” products EWMS4-01 or EWMS4-02 from the Narrow Aisle High Rack Pallet Buffer (Storage Type Y011) to the Mezzanine (Storage Type Y021).
* The replenishment of “Large Parts” products EWMS4-10 or EWMS4-11 from the Narrow Aisle High Rack Pallet Buffer (Storage Type Y011) to the Narrow Aisle High Rack Picking Area (Storage Type Y051).
* The replenishment of products EWMS4-42 from the Bulk Storage B (Storage Type Y042) to the Bulk Storage B Picking Area (Storage Type Y052).

For the replenishment process, the following Warehouse Process Types are used:

* Y310 (Replenishment of Small Part Products)
* Y311 (Replenishment of Large Part Products)
* Y312 (Replenishment to Picking Area for Bulk B)

The replenishment process is activated per type of replenishment (i.e. Planned Replenishment, Automatic Replenishment) and storage type within as part of the IMG configuration.

* Automatic Replenishment:

The system creates replenishment warehouse tasks automatically in the background when picking warehouse tasks during an outbound process and the stock in the picking bin falls below a predefined threshold.

* Planned Replenishment:

The system creates replenishment warehouse tasks as a result of a planned replenishment run if the current stock is below the threshold at the time when the program is executed.

This document provides a detailed procedure for testing the scope item after solution deployment, reflecting the predefined scope of the solution. Each process step is covered in its own section, providing the system interactions (that is, test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly (see the Test Step column). Customer-project-specific steps must be added.

# Prerequisites

This section summarizes all prerequisites needed to conduct the test in terms of system, user, master data, organizational data, and other test data and business conditions.

## System Access

The test should be conducted with the following system:

|  |  |
| --- | --- |
| System | Details |
| S/4HANA OP | System ID:  Client: |
| UI | Accessible via the SAP Fiori Launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

Assign the following business roles to your individual test users. Alternatively, if available, you can create business roles using the following spaces with pages and predefined apps for the SAP Fiori launchpad and assign the business roles to your individual test users.

Note These roles or spaces are examples provided by SAP. You can use them as templates to create your own roles or spaces.

For more information about business roles, refer to Assigning business roles to a user in the [Administration Guide to Implementation of SAP S/4HANA with SAP Best Practices](https://help.sap.com/viewer/S4HANA2020_AdminGuide) .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name (Role) | ID (Role) | Description (Space) | ID (Space) | Log On |
| Warehouse Clerk (EWM) | SAP\_BR\_WAREHOUSE\_CLERK\_EWM | Warehouse Office | SAP\_BR\_WAREHOUSE\_CLERK\_EWM |  |
| Warehouse Operative (EWM) | SAP\_BR\_WAREHOUSE\_OPERATIVE\_EWM | Warehouse Floor | SAP\_BR\_WAREHOUSE\_OPERATIVE\_EWM |  |

## Master Data and Organizational Data

The organizational structure and master data of your company has been created in your system during activation. The organizational structure reflects the structure of your company. The master data represents materials, customers, and vendors, for example, depending on the operational focus of your company.

Use your own master data to go through the test procedure. If you have installed an SAP Best Practices baseline package, you can use the following sample data:

Material Master Data:

|  |  |  |
| --- | --- | --- |
| Data | Sample Value | Details |
| Material Master | EWMS4-01 | EWM Prod.01,Small Part,Slow Mov. |
| Material Master | EWMS4-02 | EWM Prod.02,Small Part,Fast Mov. |
| Material Master | EWMS4-10 | EWM Prod.10,Large Part,Slow Mov. |
| Material Master | EWMS4-11 | EWM Prod.11,Large Part,Fast Mov. |
| Material Master | EWMS4-42 | Product for Bulk Storage B |

Packaging Material Master Data:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data | Sample Value | Details | Internal Number Range | SSCC Number Range |
| Packaging Material | EWMS4-STOCON00 | EWM Default Storage Container / Box |  |  |
| Packaging Material | EWMS4-PAL00 | EWM Default Pallet with SSCC generation |  |  |
| Packaging Material | EWMS4-PALISU | Pallet Initial Stock Upload (no SSCC#) |  |  |

Warehouse – specific Organizational Master Data:

|  |  |  |
| --- | --- | --- |
| Data | Sample Value | Details |
| Supply Chain Unit | YWAREHOUSE-1010 |  |
| EWM Warehouse Number | 1010 |  |
| Custodian | BP1010 |  |

Warehouse Storage Types:

|  |  |  |
| --- | --- | --- |
| Data | Sample Value | Details |
| Storage Type | Y001 | Narrow Aisle High Rack Hand-Over Point |
| Storage Type | Y011 | Narrow Aisle High Rack Pallet Buffer |
| Storage Type | Y021 | Mezzanine |
| Storage Type | Y042 | Bulk Storage B (No Partial Pallets) |
| Storage Type | Y051 | Narrow Aisle High Rack Picking Area (Large Parts) |
| Storage Type | Y052 | Picking Area for Bulk B (Fixed Bin) |

Replenishment Queues and Resources

|  |  |  |
| --- | --- | --- |
| Queue | Resource | Comments |
| YR-001-001 | YLLTR-1 | NA: Replenishment via Handover Points |
| YR-001-021 | YMEZZ-1 | NA: Handover Point to Mezzanine |
| YR-001-N01 | YHLTR01-1 | NA: Handover Point to Aisle 01 |
| YR-001-N02 | YHLTR02-1 | NA: Handover Point to Aisle 02 |
| YR-042-052 | YLLTR-1 | Bulk Storage B to Picking Area |
| YR-N01-001 | YHLTR01-1 | NA: Aisle 01 to Handover Point |
| YR-N01-N01 | YHLTR01-1 | NA: Replenishment within Aisle 01 |
| YR-N02-001 | YHLTR02-1 | NA: Aisle 02 to Handover Point |
| YR-N02-N02 | YHLTR02-1 | NA: Replenishment within Aisle 02 |

## Business Conditions

The business process described in this Test Script is part of a larger chain of integrated business processes or scope items.

As a result, you either have completed the 1FS - Basic Warehouse Inbound Processing from Supplier in order to have pallets in the Y011 Narrow Aisle or you may use an initial stock upload as described in 1FU - Initial Stock Upload for Warehouse.

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| 1FS - Basic Warehouse Inbound Processing from Supplier | You have set up an inbound process and run through it for the following products listed below, in order to have those products in pallet quantity in the Y011 Narrow Aisle or Y042 Bulk Storage B. It is the prerequisite to create stock in the system.  EWMS4-01  EWMS4-02  EWMS4-10  EWMS4-11  EWMS4-42 |
| 1FU - Initial Stock Upload for Warehouse | Alternatively, (or in addition to the inbound processing), you complete an initial stock upload as described in 1FU - Initial Stock Upload for Warehouse test script. |
| 1G2 - Basic Warehouse Outbound Processing to Customer | You have set up the outbound process and are able to run through it. This is to bring the stock level below the replenishment threshold to trigger the replenishment process. |

## RFUI Handling – Verification

During the execution of various warehouse tasks (putaway, picking or internal movement etc.) using the RFUI environment, there are steps to ‘verify’ certain values, such as Destination Bin, Packaging Material or Handling Units. To execute this kind of steps, copy the value to be verified and paste into the verification field next to the original value field, and choose Enter to confirm.

## Preliminary Steps

### Check the Stock Situation

Context

Before you go through the different steps of replenishment and outbound processing, you first need to get an overview of the current stock situation of the following products:

* EWMS4-01
* EWMS4-02
* EWMS4-10
* EWMS4-11
* EWMS4-42

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Clerk (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Choose Warehouse Monitor (/SCWM/MON) . |  |  |
| 3 | Display stock overview | On the Warehouse Management Monitor SAP – Warehouse Number 1010 screen, choose Stock and Bin from the navigation area.   * Double-click the Stock Overview node in the hierarchy tree. * On the /SCWM/SAPLSTOCK\_OVERVIEW\_MON screen, locate the Product field and choose Multiple Selection (the button situated on the right side of the Product field). * On the Multiple Selection for Product screen, enter the following data: * EWMS4-01 * EWMS4-02 * EWMS4-10 * EWMS4-11 * EWMS4-42 * Choose Copy (F8). * Choose Execute (F8). | In the result list you see the different storage types and bin which contain stock of that product. |  |

### Preparation of a Specific Stock Situation

Context

In order to provide a predictable flow of the process steps in replenishment, it is necessary to have a specific initial stock situation.

Therefore, you should create the following stock situation in your system where you may need to make use of additional Apps in order to achieve such specific situation:

* Manual warehouse tasks to move stock (products or HUs)
* Fiori App Home > All My Apps > EWM – Work Scheduling > Create Warehouse Tasks – Product .
* Fiori App Home > All My Apps > EWM – Work Scheduling > Create Warehouse Tasks – Handling Units .
* Inbound or outbound processes to receive / remove stock
* see corresponding Test Script Basic Warehouse Inbound Processing from Supplier (1FS) or Basic Warehouse Outbound Processing to Customer (1G2)
* Stock correction or scrapping of stock
* Fiori App Home > All My Apps > EWM – Work Execution Office > Post Goods Issue – Unplanned .

This document does not explain all these preparatory steps in detail, but gives an example how to use stock corrections / scrapping of stock (via Fiori App Post Goods Issue – Unplanned) to come to a specific stock level in the storage types.

Before you start with the actual replenishment processing, the stock situation in the storage type where the products are usually picked should look like this.

Especially for the storage types from where the products are actually picked, the stock level must be as shown here if you expect replenishment to be triggered:

|  |  |  |  |
| --- | --- | --- | --- |
| Product | Storage Type | Stock Level to Trigger Replenishment | … in Altern. UoM |
| EWMS4-01 | Y021 | 23 PC – 0 PC (below 24 PC) … | … or below 4 CAR |
| EWMS4-02 | Y021 | 127 PC – 0 PC (below 128 PC) … | … or below 16 CAR |
| EWMS4-10 | Y051 | 3 PC – 0 PC (below 4 PC) … | … or below 1 PAL |
| EWMS4-11 | Y051 | 5 PC– 0 PC (below 6 PC) … | … or below 1 PAL |
| EWMS4-42 | Y052 | 1 PC– 0 PC (below 2 PC) … | … or below 2 PC |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product | Storage Type | Storage Bin | Quantity | Comment |
| EWMS4-01 | Y011 | 011.##.##-… | 48 PC / 8 CAR | It is important to have at least 1 pallet (8 CAR / 48 PC) in a bin of storage type Y011 |
| EWMS4-01 | Y021 | 021.##.##-… | Between 0-23 PC or less than 4 CAR | It is important to have a stock level of product EWMS4-01 in storage type Y021 which is below the replenishment threshold of 4 CAR (24 PC). |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product | Storage Type | Storage Bin | Quantity | Comment |
| EWMS4-02 | Y011 | 011.##.##-… | 192 PC / 24 CAR | It is important to have at least 1 pallet (24 CAR / 192 PC) in a bin of storage type Y011 |
| EWMS4-02 | Y021 | 021.##.##-… | Between 0-127 PC or less than 16 CAR | It is important to have a stock level of product EWMS4-02 in storage type Y021 which is below the replenishment threshold of 16 CAR (128 PC). |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product | Storage Type | Storage Bin | Quantity | Comment |
| EWMS4-10 | Y011 | 011.##.##-… | 4 PC (1 PAL) | It is important to have at least 1 pallet (4 PC) in a bin of storage type Y011 |
| EWMS4-10 | Y051 | 051.##.##-… | Between 0-3 PC (less than 1 PAL) | It is important to have a stock level of the product in storage type Y051 below the replenishment threshold of 4 PC. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product | Storage Type | Storage Bin | Quantity | Comment |
| EWMS4-11 | Y011 | 011.##.##-… | 6 PC (1 PAL) | It is important to have at least 1 pallet (6 PC) in a bin of storage type Y011 |
| EWMS4-11 | Y051 | 051.##.##-… | Between 0-5 PC (less than 1 PAL) | It is important to have a stock level of the product in storage type Y051 below the replenishment threshold of 6 PC. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product | Storage Type | Storage Bin | Quantity | Comment |
| EWMS4-42 | Y042 | 011.## | 6 PC (1 PAL) | It is important to have at least 1 pallet (6 PC) in a bin of storage type Y011 |
| EWMS4-42 | Y052 | 051.## | Between 0-2 PC | It is important to have a stock level of the product in storage type Y052 below the replenishment threshold of 2 PC. |

-The stock situation should be as follows:

* The stock levels in the receiving storage types Y021, Y051 are below the thresholds mentioned for the products which are used in these storage types.
* There is stock in storage type Y011 from which Y021 can be replenished for products EWMS4-01 and EWMS4-02
* There is stock in storage type Y011 from which Y051 can be replenished for products EWMS4-10 and EWMS4-11
* There is stock in storage type Y042 from which Y052 can be replenished for products EWMS4-42

You may deviate from it in the sense, that you might have additional with stock in storage types where the products are stored in pallets. This doesn’t influence the behavior of the replenishment processes to be shown.

The main pre-requisite is, to have the indicated stock level in storage types Y021/ Y051/Y052 and at least 1 pallet in storage type Y011/Y042.

Procedure

1. If you are lacking stock in storage type Y011 in general, you should go through the inbound processing as described in the Test Script Basic Warehouse Inbound Processing from Supplier (1FS).
2. As an alternative to build up stock in storage types Y011 you may use the initial stock upload as described in the process description Initial Stock Upload for Warehouse (1FU).
3. In order to remove stock from the storage types Y021 or Y051 or Y052, you can use an ad-hoc goods issue described in the following steps.

# Overview Table

The test script Replenishment consists of several process steps, reports, items provided in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step, Report or Item | Business Role | Transaction/App Name | Expected Results |
| [Replenish Stock](#unique_11) [page ] 13 | Warehouse Clerk (EWM) and Warehouse Operative (EWM) (only required in Automatic Replenishment) | Refer to Basic Warehouse Outbound Pro-cessing to Customer (1G2) – for Automatic Replenishment, or  Chapter Replenish Stock (/SCWM/REPL) – for Planned Re-plenishment | Replenishment warehouse task and warehouse order created with Warehouse Process Type Y310 or Y311 or Y312 |
| [Check Replenishment Warehouse Tasks (Optional)](#unique_12) [page ] 15 | Warehouse Clerk (EWM) | Warehouse Monitor (/SCWM/MON) | Replenishment warehouse task displayed in the Warehouse Monitor. |
| [Process Replenishment of Mezzaine](#unique_13) [page ] 16 | Warehouse Operative (EWM) | Test RF Environment (/SCWM/RFUI) | Replenishment warehouse task confirmed. |
| [Process Replenishment of High Rack Narrow Aisle Picking Area](#unique_14) [page ] 21 | Warehouse Operative (EWM) | Test RF Environment (/SCWM/RFUI) | Replenishment warehouse task confirmed. |
| [Process Replenishment of Bulk Storage Picking Area](#unique_15) [page ] 31 | Warehouse Operative (EWM) | Test RF Environment (/SCWM/RFUI) | Replenishment warehouse task confirmed. |

# Test Procedures

## Replenish Stock

Customer project: Fill in the project-specific parts.

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Once you have checked the stock situation as described in section 2.5.1 Check the Stock Situation , go through the outbound process as described in the Basic Warehouse Outbound Processing to Customer (1G2).

Note You may need to change the ordering quantities, or repeat the Basic Warehouse Outbound Processing to Customer (1G2) in order to reach the threshold quantity for products EWMS4-01, EWMS4-02, EWMS4-10, EWMS4-11 or EWMS4-42.

For threshold level for respective prodcts, please refer to section 2.5.2 Preparation of a Specific Stock Situation :

By going through the Basic Warehouse Outbound Processing to Customer (1G2) test script, replenishment Warehouse Task(s) will be created automatically by the system upon the stock of respective product falls below the threshold level stated above.

Alternatively, if the stock level of products is either 0 or at least below the threshold value because of a scrapping or Ad Hoc product/HU movement (which could probably not trigger automatic replenishment Warehouse Task creation based on your configuration), you can run through the following steps to perform a Planned Replenishment to create replenishment task(s).

In a real-life environment, you can schedule the Planned Replenishment Run as a daily background job to make sure replenishment is not only relying on the Automatic Replenishment.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Clerk (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Open Replenish Stock (/SCWM/REPL). |  |  |
| 3 | Schedule Replenishment | On the Schedule Replenishment screen, enter the following data :   * Plnd Rplnshmt: X * Warehouse Number: 1010 * Party Entitled to Dispose: BP1010 * Product: EWMS4-01 or EWMS4-02 or EWMS4-10 or EWMS4-11 or EWMS4-42   Note It is recommended to schedule planned replenishment for each product individually. To do so, you repeat all the activities for the remaining products.   * Show Log Immediately: X   Note This checkbox is useful in a user dialog session, not when program is scheduled for background processing.  Choose Execute F8. | Based on the current stock figures in storage types Y021, Y051 and Y052, if replenishment is necessary, the system shows the Select Replenishment Items screen. Usually, you would find one line for the product/ storage type combination. In case the stock level in the storage type is sufficient, the system will display the log and indicate 'No Replenishment to execute'. In this case, you must first adjust the stock situation so it is below the replenishment threshold. |  |
| 4 | Perform Replenishment | On the Select Replenishment Items screen, check the proposed quantity to be replenished. If necessary, change the quantity.  You can change the proposed replenishment quantity to a smaller quantity. In that case, it is easier for you to reach the threshold again (for example, with an outbound process that immediately brings the stock under the threshold and, thus initiating an “Automatic Replenishment”).  Check the WT Immed. checkbox.  Select the line item to be processed.  Choose Perform Replenishment(F8) | A system message in the lower part of the screen confirm the number of warehouse tasks that have been created.  For more information about processing the created replenishment warehouse tasks, see chapter Test Procedure.  Regarding how to scrap or correct stock, see chapter Preparation of a Specific Stock Situation. |  |

Note As a result, you should have created Replenishment Warehouse Tasks with either warehouse process type Y310 (replenishment for small parts) or Y311 (replenishment for large parts).

## Check Replenishment Warehouse Tasks (Optional)

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Clerk (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Choose Warehouse Monitor (/SCWM/MON). | The Warehouse Management Monitor screen is displayed. |  |
| 4 | Enter Selection Data | On the Warehouse Management Monitor selection screen, make the following entries:  Warehouse Number: 1010  Monitor: SAP  Choose Execute (F8). |  |  |
| 4 | Display Warehouse Orders | In the hierarchy tree, double click Documents > Warehouse Order .  In the /SCWM/SAPLWO\_TO\_MON dialog, make the following entry:  Select the Open WOs checkbox.  Deselect the Canceled WOs checkbox.  Deselect the Locked WOs checkbox.  Deselect the Confirmed WOs checkbox.  Deselect the WOs in Process checkbox.  Hdr Whse Process Type Y310 or Y311  Note The Warehouse Process Type Y310 is for replenishment of Small Parts (to Mezzanine) and Y311 is for Large Parts (to Narrow Aisle Picking Area).  Choose Execute (F8).  Note down the determined RF Queues ( YR-…-…).  Note down the Warehouse Order IDs.  The Warehouse Order ID is displayed. |  |  |

Pay attention to the determined RF Queues ( YR-…-…) because replenishment warehouse orders will be processed based on the queue they are assigned to.

In addition, later in RFUI processing you should check whether the WOs are proposed by corresponding queues.

Picking activity areas in the Narrow Aisle High Rack are not storage type specific, they are aisle specific.

Every time you pick from storage type Y011, it is important to know from which aisle the materials are picked. You can find the aisles by simply examining the replenishment queues, as follows:

For details about replenishment queues and resources to use, please refer to the Replenishment Queues and Resources table in the Master Data and Organizational Data.

## Process Replenishment of Mezzaine

Test Administration

Customer project: Fill in the project-specific parts.

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Use

The warehouse worker processes the replenishment warehouse task using Radio Frequency (RF) Environment.

This is relevant for the products EWMS4-01 and EWMS4-02.

Prerequisites

A planned replenishment for a Small Part product (EWMS4-01 or EWMS4-02) has been triggered.

Thus, replenishment warehouse task/s was/were created.

### Move Handling Unit to Handover Point

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Operative (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Open Test RF Environment (/SCWM/RFUI) . | The RFUI screen is displayed. |  |
| 3 | Enter Data for RFUI | Whse No: 1010  Resource: YHLTR01-1or YHLTR02-1  DefPresDvc: YE00  Choose Enter.  YHLTR##-1 are High Level Truck Resources. Choose the resource depending on the aisles where the source bin is located. The number 01 or 02 in the resource ID indicates the aisle the resource is operating in. |  |  |
| 4 | Choose Menu | Choose 01 System guided > 02 System-guided By Queue . | Note It may occur that in the System-Guided Selection, other warehouse tasks appear instead of the expected task. In this case, you can follow the path 02 Manual Selection > 01 Selection by WO and enter the corresponding warehouse order number in the Whse Order field to process the task(s). |  |
| 5 | Enter Queue name | On the following screen, make the following entries:  YR-N01-001  or YR-N02-001  Choose Enter.  If the source bin is located in the aisle 01, use YR-N01-001.  If the source bin is located in the aisle 02, use YR-N02-001. |  |  |
| 6 | Create Picking HU | On the following screen, make the following entry:   * Pick HU: for example, STOCO-## * Pack-Mat: EWM-STOCON00 (proposed by the system) * Choose F2Handling Unit Creation * Choose F4Next.   Note The warehouse worker may scan the fixed ID of the used storage container (real-life use case) or let the system assign an internal number automatically (demo use case)  The system proposes packaging material EWM-STOCON00 as the packaging material for the Pick HU.  In case you assume the storage containers have fix IDs a.k.a. “license plates”), you would scan this ID and use it as the system’s HU ID.  If you do not assign a number/ID, the system assigns an internal number from the HU number stack. The storage container packaging material EWM-STOCON00 uses internal 8 digit numbers, no SSCC numbers.  In case you are replenishing more than 2 CAR (that is, the content of one storage container EWM-STOCON00), the system displays several lines for Pick HUs.  In this case, you have to repeat this step for each storage container to be filled! | The system displays the HU ID and packaging material which it will use later in the display fields. |  |
| 7 | Enter data | In the following screen, verify Source Bin:  SrcBin: 011.##.##.##  Note To confirm or verify, please copy the required information into the verification field next to the display field. In real life, it is the action of scanning the bar code and the relevant information goes into the verification field automatically.  Enter target quantity:  AQty: Your quantity  for example: 1 (PAL)  Note The target quantity UoM 'PAL' is prompted by the system and it is for display only. You do not need to enter the UoM. |  |  |
| 8 | Verify destination bin | In the following screen, make the following entries:  DstBin: 001.##.01  Note## indicates whether your operating in aisle 01 or 02. Destination HU field DestHU and HU ID 112345678########### are displayed on the same screen for Information.  Choose Enter.  Note In case you’re processing more than 1 storage container, you repeat this step for each additional storage container. |  |  |
| 9 | Logoff and Save | Choose F1Logoff.  Choose F1 Save.  You can use function key F7 to go back to previous screens. |  |  |

### Move Handling Unit from Handover Point to Mezzanine

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Operative (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Open Test RF Environment (/SCWM/RFUI). | The RFUI screen is displayed. |  |
| 3 | Enter Data for RFUI | Whse No: 1010  Resource: YMEZZ-1  DefPresDvc: YE00  Choose Enter. |  |  |
| 4 | Choose Menu | Choose 01 System guided > 02 System-guided By Queue .  Note It may occur that in the System-Guided Selection, other warehouse tasks appear instead of the expected task. In this case, you can follow the path 02 Manual Selection > 01 Selection by WO and enter the corresponding warehouse order number in the Whse Order field to process the task(s). |  |  |
| 5 | Enter Queue name | YR-001-021 |  |  |
| 6 | Verify source HU | Verify the Source HU  SrceHU: #########  Choose Enter.  Note Make sure it is the HU ID from the previous step. If not, do not proceed because you would “leave your process example”! |  |  |
| 7 | Verify destination bin | In the following screen, verify the Destination Bin:   * DstBin: 021.##.##.##   Choose Enter. | The warehouse task that transfers the Handling Unit from the outbound section of the Hand-over Point to the Mezzanine is confirmed. |  |
| 8 | Logoff and Save | You can use function key F7 to go back to previous screens. |  |  |

## Process Replenishment of High Rack Narrow Aisle Picking Area

Test Administration

Customer project: Fill in the project-specific parts.

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Use

The warehouse worker processes the replenishment warehouse task using Radio Frequency (RF) Environment.

This is relevant for the products EWMS4-10 and EWMS4-11.

Prerequisites

A planned replenishment for a Large Part product (EWMS4-10 or EWMS4-11) has been triggered. A replenishment warehouse task was created as described above.

### Variant 1: Intra-Aisle Replenishment

“Intra-aisle” replenishment means that the pallet of a product to be replenished is taken from the Narrow Aisle High Rack Pallet Buffer bin (Storage Type Y011) and moved to the Narrow Aisle Picking Area (Storage Type Y051) within the same aisle.

It refers to a “classical” let-down of a pallet since the High Level Truck can simply take it from the top and “let it down” to a bin in the picking area on the ground level.

In contrast to the intra-aisle replenishment, there may also be the need to do the operation across-aisles (or “inter-aisle”); that is, when the bin from which the pallet is picked is in a different aisle than the bin to where the pallet is moved.

The system is set up to “randomly” assign bins to products based on specific strategies.

#### Putaway of Handling Unit in Destination Bin

Customer project: Fill in the project-specific parts.

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Operative (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Open Test RF Environment (/SCWM/RFUI). | The RFUI screen is displayed. |  |
| 3 | Enter Data for RFUI | Whse No: 1010  Resource: YHLTR01-1  or  YHLTR02-1  DefPresDvc: YE00  Choose Enter. |  |  |
| 4 | Choose Menu | Choose 01 System guided > 02 System-guided By Queue .  Note It may occur that in the System-Guided Selection, other warehouse tasks appear instead of the expected task. In this case, you can follow the path 02 Manual Selection > 01 Selection by WO and enter the corresponding warehouse order number in the Whse Order field to process the task(s). |  |  |
| 5 | Enter Queue name | On the following screen, make the following entries:  YR-N01-N01  or YR-N02-N02  Note If the source and target bin is located in aisle 01, use YR-N01-N01.  If the source an target bin is located in aisle 02, use YR-N02-N02.  Choose Enter. |  |  |
| 6 | Skip screen | In the following screen, the system displays::   * Pick HU   As the system does not propose a packaging material, you are business-wise doing a full pallet withdrawal, meaning you are picking the HU from the bin as it is.  Choose F4Next. |  |  |
| 7 | Verify source HU | In the following screen, verify the Source HU:   * SrceHU: 112345678#########   Note In the right upper corner, the system indicates a full HU withdrawal ( HUWh [X]).  Choose Enter. |  |  |
| 8 | Verify destination bin | In the following screen, verify the Destination Bin:   * DstBin: 051.##.##.##   Choose Enter. |  |  |
| 9 | Logoff and Save | You can use function key F7 to go back to previous screens. |  |  |

### Variant 2: Cross-Aisle Replenishment

In cross-aisle (or “inter-aisle”) replenishment, the pallet to be picked is located in a different aisle than the bin to where the pallet is moved.

In this case, the pallet is moved to the (outgoing) handover point of the source aisle, from there to the (Incoming) handover point of the target aisle, and from there, finally the putaway warehouse task to the destination bin in the picking area of the target aisle is confirmed.

#### Move Handling Unit to Handover Point

Customer project: Fill in the project-specific parts.

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Operative (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Open Test RF Environment (/SCWM/RFUI). | The RFUI screen is displayed. |  |
| 3 | Enter Data for RFUI | Whse No: 1010  Resource:  YHLTR01-1  or  YHLTR02-1  DefPresDvc: YE00  Choose Enter.  YHLTR##-1 are High Level truck.  Choose the resource depending in which aisle the pallet for the replenishment is initially picked. |  |  |
| 4 | Choose Menu | Choose 01 System guided > 02 System-guided By Queue .  It may occur that in the System-Guided Selection, other warehouse tasks appear instead of the expected task. In this case, you can follow the path 02 Manual Selection > 01 Selection by WO and enter the corresponding warehouse order number in the Whse Order field to process the task(s). |  |  |
| 5 | Enter Queue name | On the following screen, make the following entries:  YR-N01-001  or  YR-N02-001  Note If the source bin is located in aisle 01, use YR-N01-001.  If the source bin is located in aisle 02, use YR-N02-001.  Choose Enter. |  |  |
| 6 | Skip screen | On the following screen, the system displays:  Pick HU  Note As the system does not propose a packaging material, you are business-wise doing a full pallet withdrawal, meaning you are picking the HU from the bin as it is.  Choose F4Next. |  |  |
| 7 | Verify source HU | In the following screen, verify the Source HU:  SrceHU: 112345678#########  Note In the right upper corner, the system indicates a full HU withdrawal ( HUWh [X]).  Choose Enter. |  |  |
| 8 | Verify destination bin | In the following screen, verify the Destination Bin:  DstBin: 001.##.01  Note## indicates whether you are operating in aisle 01 or 02.  Choose Enter. | The warehouse task that moves the Handling Unit to the outbound section of the source aisle (aisle 1 or aisle 2) is confirmed.  The system enables the transfer from the outbound section of the source aisle to the inbound section of the destination aisle.  Check whether other replenishment warehouse orders of your example are assigned to the other aisle. If this is the case, repeat the process steps for this RF Queue and the corresponding High Level Truck resource. |  |
| 9 | Logoff and Save | You can use function key F7 to go back to previous screens. |  |  |

#### Move Handling Unit between Handover Points

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |
| --- | --- |
| Test Case ID | X.XX |
| Tester Name |  |
| Testing Date |  |
| Business Role(s) |  |
| Responsibility | State Service Provider, Customer or Joint Service Provider and Customer |
| Duration | Enter a duration. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Operative (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Open Test RF Environment (/SCWM/RFUI). | The RFUI screen is displayed. |  |
| 3 | Enter Data for RFUI | Whse No: 1010  Resource: YLLTR-1  DefPresDvc: YE00  Choose Enter.  YLLTR-1 is the Low Level Truck. |  |  |
| 4 | Choose Menu | Choose 01 System guided > 02 System-guided By Queue .  Note It may occur that in the System-Guided Selection, other warehouse tasks appear instead of the expected task. In this case, you can follow the path 02 Manual Selection > 01 Selection by WO and enter the corresponding warehouse order number in the Whse Order field to process the task(s). |  |  |
| 5 | Enter Queue name | On the following screen, make the following entries:  YR-001-001  Choose Enter.  Movement between the Handover Points (Outgoing Section in the source aisle, Incoming Section in the destination aisle). |  |  |
| 6 | Verify source HU | In the following screen,verify the Srouce HU:  SrceHU: 112345678#########  Choose Enter. |  |  |
| 7 | Verify destination bin | In the following screen, verify the Destination Bin:  DstBin: 001.##.01  Note## indicates whether you are operating in aisle 01 or 02.  Choose Enter.  Note down the aisle number of the destination handover point so you can choose the correct queue in the next step. In case there are further warehouse orders/tasks in the queue, the system automatically proposes the next item. Repeat from step 6 onwards. | The warehouse task that transfers the Handling Unit from the outgoing section of the source aisle to the incoming section of the destination aisle is confirmed.  The system activates the warehouse task that transfers the Handling Unit from the incoming section of the destination aisle to the Picking Area of the aisle. |  |
| 8 | Logoff and Save | Choose F1Logoff.  Choose F1Save.  You can use function key F7 to go back to previous screens. |  |  |

#### Putaway of Handling Unit in Destination Aisle

Customer project: Fill in the project-specific parts.

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Operative (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Open Test RF Environment (/SCWM/RFUI). | The RFUI screen is displayed. |  |
| 3 | Enter Data for RFUI | Whse No: 1010  Resource: YHLTR01-1  or  YHLTR02-1  DefPresDvc: YE00  Choose Enter.  Note YHLTR##-1 are High Level truck Choose the resource depending in which aisle the pallet for the replenishment is initially picked. |  |  |
| 4 | Choose Menu | Choose 01 System guided > 02 System-guided By Queue .  Note It may occur that in the System-Guided Selection, other warehouse tasks appear instead of the expected task. In this case, you can follow the path 02 Manual Selection > 01 Selection by WO and enter the corresponding warehouse order number in the Whse Order field to process the task(s). |  |  |
| 5 | Enter Queue name | On the following screen, make the following entries:  YR-001-N01  or  YR-001-N02  Note If the destination bin is located in aisle 01, use YR-001-N01  If the destination bin is located in aisle 02, use YR-001-N02  Choose Enter. |  |  |
| 6 | Verify source HU | In the following screen, verify the Source HU:  SrceHU: 112345678#########  Choose Enter. |  |  |
| 7 | Verify destination bin | In the following screen, verify the Destination Bin:  DstBin: 051.##.##.##  Choose Enter.  In case there are further warehouse orders/tasks in the queue, the system automatically proposes the next item. Repeat from step 6 onwards. As for the final putaway in the destination aisle, there are aisle-specific resources (High Level Truck) you may not only switch to another queue but also log on with the corresponding resource. | The warehouse task that transfers the Handling Unit from the incoming section of the destination aisle to the picking area of that aisle is confirmed.  The replenishment is complete. |  |
| 8 | Logoff and Save | Choose F1Logoff.  Choose F1Save.  You can use function key F7 to go back to previous screens. |  |  |

## Process Replenishment of Bulk Storage Picking Area

Customer project: Fill in the project-specific parts.

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Context

The warehouse worker processes the replenishment warehouse task using Radio Frequency (RF) Environment.

This is relevant for the products EWMS4-42.

Prerequisite

A planned replenishment for the product EWMS4-42 has been triggered. A replenishment warehouse task was created as described above.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Open the Fiori Launch Pad with the Warehouse Operative (EWM) role. | The Fiori Launch Pad is displayed. |  |
| 2 | Access the App | Open Test RF Environment (/SCWM/RFUI). | The RFUI screen is displayed. |  |
| 3 | Enter Data for RFUI | Whse No: 1010  Resource: YLLTR-1  DefPresDvc: YE00  Choose Enter.  YLLTR-1 is the Low Level Truck. |  |  |
| 4 | Choose Menu | Choose 01 System guided > 02 System-guided By Queue .  Note It may occur that in the System-Guided Selection, other warehouse tasks appear instead of the expected task. In this case, you can follow the path 02 Manual Selection > 01 Selection by WO and enter the corresponding warehouse order number in the Whse Order field to process the task(s). |  |  |
| 5 | Enter Queue name | On the following screen, make the following entries:  YR-042-052  Choose Enter. |  |  |
| 6 | Confirm and Proceed | On the following screen, the following fields are displayed:  Pick-HU  Pack-Mat.  Note:  The system does not propose a packaging material because you are going to pick a full pallet/HU.  Choose F1 Next. |  |  |
| 7 | Verify source HU | In the following screen,verify the Srouce HU:  SrceHU: 112345678#########  Choose Enter. |  |  |
| 8 | Verify destination bin | In the following screen, verify the Destination Bin:  DstBin: 052.##  Choose Enter. |  |  |
| 9 | Logoff and Save | Choose F1Logoff.  Choose F1Save.  You can use function key F7 to go back to previous screens. |  |  |

# Appendix

## Process Integration

The process to be tested in this test script is part of a chain of integrated processes.

### Preceding Processes

You may first have completed the following processes and conditions before you start with the test steps:

|  |  |
| --- | --- |
| Process | Business Condition |
|  |  |

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Textual cross-references to other documents. |
| Example | Emphasized words or expressions. |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools. |
| Example | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example> | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system. |
| EXAMPLE | Keys on the keyboard, for example, F2 or ENTER. |

|  |
| --- |
|  |
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