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| Test ScriptSAP S/4HANA - 18-09-20 | public |
| Planning of External Transportation Requirements (4OZ\_DE) |

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# Purpose

Planning of External Transportation Requirements supports your company´s transportation planning and execution.

The sales order-based transportation demand (freight unit) is created in SAP S/4HANA Cloud considering transportation constraints. The freight unit is replicated at the same time to the connected SAP S/4HANA On-Premise system. The necessary process steps are referred in the Business Conditions chapter.

In the SAP S/4HANA On-Premise, the transportation planner creates a freight order and assigns the freight unit received from the SAP S/HANA Cloud system. Additionally, he assigns a carrier to the freight order to execute the transportation of the goods. As soon as the transportation planner is done with the planning activities, he saves the freight order. The freight order is automatically replicated to the SAP S/4HANA Cloud system for further processing. Steps to be executed are mentioned in chapter Succeeding Processes.

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

# Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data, and business conditions.

## System Access

|  |  |
| --- | --- |
|  | Details |
| SAP S/4HANA Cloud System | Accessible via SAP Fiori launchpad. Your system administrator provides you the URL to access the various apps assigned to your role. |
| SAP S4/HANA On-Premise System | Accessible via SAP Fiori launchpad. Your system administrator provides you 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 |
| Transportation Planner | SAP\_BR\_TRANSPORTATION\_PLANNER |  |  |  |

## Master Data, Organizational Data, and Other Data

Master data shown in the below table should be replicated from the SAP S/4HANA Cloud System using the guide Setting Up Order-based Transportation Consolidation. You can find the document in the [SAP Best Practices Explorer](https://rapid.sap.com/bp/scopeitems/BD9) or in the downloaded content library.

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Details | Comments |
| Customer | 1018600110186002 | TM Domestic DE Customer 1TM Domestic DE Customer 2 |  |
| Customer Locations | 00 1018600100 10186002 | Location for TM Domestic DE Customer 1Location for TM Domestic DE Customer 2 |  |
| Carrier | 10386001 (used for Invoice Verification)10386002(used for Evaluated Receipt Settlement) | TM Carrier1 DETM Carrier2 DE |  |
| Shipping Point Location | SP\_ 1010 | Shipping Point Location 1010 |  |
| Product | TG11 | Trading Good for Reg. Trading (MRP planning) |  |

### Required Organizational Units

Purpose

The organizational structure of your company needs to be created in your SAP S/4HANA On-Premise system. The organizational structure reflects the structure of your company. Follow the subchapters below to setup your organizational structure:

#### Defining Company

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Start transaction | Use one of the following options to start the transaction:* SAP ECC Menu: Logistics > Customer Service > Service Processing > Environment > Organization > Organizational Plan > Organization and Staffing > Create
* Transaction Code: PPOCE
 | A dialog box is displayed. |  |
| 2 | Enter validity dates | In the dialog box, enter the validity dates. | The Organization and Staffing Create screen is displayed. |  |
| 3 | Enter basic data. | On the Organization and Staffing Create screen, enter the following information in Basic Data tab page:

|  |  |  |
| --- | --- | --- |
| Field | Description | Value |
| Organizational Unit | Identifier | CCP\_DE\_1010 |
| Description | General description | Company DE 1010 |

 |  |  |
| 4 | Enter org. data. | On the Org. Data tab page, choose Create and enter the following information:

|  |  |  |
| --- | --- | --- |
| Field | Description | Value |
| Organization ID | Identifier for the organizational unit | CCP\_DE\_1010 |
| Org. Unit Function | Not applicable | 24 – Company |
| Org. Unit Role | Role of this organizational unit | 1 – Organization |

 |  |  |
| 5 |  | Save your entries. |  |  |

#### Defining Purchasing Organization

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Start transaction | Use one of the following options to start the transaction:* SAP ECC Menu: Logistics > Customer Service > Service Processing > Environment > Organization > Organizational Plan > Organization and Staffing > Create
* Transaction Code: PPOCE
 | A dialog box is displayed. |  |
| 2 | Enter validity dates. | In the dialog box, enter the validity dates. | The Organization and Staffing Create screen is displayed. |  |
| 3 | Enter basic data. | On the Organization and Staffing Create screen on the Basic Data tab page, enter the following information:

|  |  |  |
| --- | --- | --- |
| Field | Description | Value |
| Organizational unit | Identifier | PO\_DE\_1010 |
| Description | General description | Purchasing Organization DE 1010 |

 |  |  |
| 4 | Enter org. data. | On the Org. Data tab page, choose Create and enter the following information:

|  |  |  |
| --- | --- | --- |
| Field | Description | Value |
| Organization ID | Identifier for the organizational unit | PO\_DE\_1010 |
| Org. Unit Function | Not applicable | 2 – Purchasing |
| Org. Unit Role | Role of this organizational unit | 1 – Organization |
| Business System Group | Business System Group | BSG |
| BSG Org. Unit | Org. Unit External ID | 1010 |

 |  |  |
| 5 |  | Save your entries. |  |  |

#### Defining Purchasing Groups

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Start transaction | Use one of the following options to start the transaction:* SAP ECC Menu: Logistics > Customer Service > Service Processing > Environment > Organization > Organizational Plan > Organization and Staffing > Change
* Transaction code: PPOME
 | A dialog box is displayed. |  |
| 2 | Enter validity dates. | In the dialog box, enter the validity dates. | The Organization and Staffing Create screen is displayed. |  |
| 3 | Enter basic data. | On the Organization and Staffing Create screen on the Basic Data tab page, enter the following information:

|  |  |  |
| --- | --- | --- |
| Field | Description | Value |
| Organizational unit | Identifier | PG\_DE\_1010 |
| Description | General description | Purchasing Group DE 1010 |

 |  |  |
| 4 | Enter org. data. | On the Org. Data tab page, choose Create and enter the following information:

|  |  |  |
| --- | --- | --- |
| Field | Description | Value |
| Organization ID | Identifier for the organizational unit | PG\_DE\_1010 |
| Org. Unit Function | Not applicable | 2 – Purchasing |
| Org. Unit Role | Role of this organizational unit | 3 – Group |
| Business System Group | Business System Group | BSG |
| BSG Org. Unit | Org. Unit External ID | 005 |

 |  |  |
| 5 |  | Save your entries. |  |  |

#### Defining Company Structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Start transaction | Use one of the following options to start the transaction:* SAP ECC Menu: Logistics > Customer Service > Service Processing > Environment > Organization > Organizational Plan > Organization and Staffing > Change
* Transaction code: PPOME
 | The Organization and Staffing Change screen is displayed. |  |
| 2 | Search | Search for your Company DE 1010 you created before and open it in edit mode. |  |  |
| 3 |  | Select the Company DE 1010 and choose Assign. |  |  |
| 4 |  | Select Is line supervisor of and assign the Purchasing Organization DE 1010 you created before. | Assignment is done. |  |
| 5 |  | Select the Purchasing Organization DE 1010 and choose Assign. |  |  |
| 6 |  | Select Is line supervisor of and assign the Purchasing Group DE 1010 you created before. | Assignment is done. |  |
| 7 | Save | Save your changes. |  |  |

## Business Conditions

Before you can test this scope item, the following business conditions must be met.

|  |  |
| --- | --- |
| Scope Item ID | Business Condition |
| 3EP – Order-based Transportation Consolidation | Scope item 3EP–Order-based Transportation Consolidation is the S/4HANA Cloud scenario which needs to be installed to integrate with 4OZ – Planning of External Transportation Requirements.Execute the Create Sales Order process step in the scope item Order-based Transportation Consolidation (3EP). In the test script, go to Test Procedures > Create Sales Order . You can find the document in the SAP Best Practices Explorer or in the downloaded content library. |
| BNZ - Create New Open MM Posting Period | You have completed the steps described in the Create New Open MM Posting Period master data script. The posting period is up-to-date. |

# Overview Table

If your system administrator has enabled spaces and pages on the SAP Fiori launchpad, the homepage will only contain the essential apps for performing the typical tasks of a business role.

You can find all other apps not included on the homepage using the search bar.

If you want to personalize the homepage and include the hidden apps, navigate to your user profile and choose Settings > App Finder .

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Name (Role) | App/Transaction | Expected Results |
| [Select Freight Unit](#unique_13) [page ] 11 | Transportation Planner | Freight Units - Worklist |  |
| [Create Freight Order](#unique_14) [page ] 12 | Transportation Planner | Freight Orders - Worklist |  |

# Test Procedures

This section describes the test procedures for each process step.

## Select Freight Unit

Once the freight units are replicated to the SAP S/4HANA On-Premise system, they can be selected for planning.

Procedure

Table 1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as a Transportation Planner. | The SAP Fiori Launchpad displays. |  |
| 2 | Access App | In the Planning section, select Freight Units - Worklist Freight Units Worklist. | The Freight Units- Worklist opens. |  |
| 3 | Open POWL Query | Locate the freight unit replicated from the SAP S/4HANA Cloud system with the help of the filter functionality in columns Origin of FU and Life Cycle Status.You can add additional columns to the table by editing its settings. | The freight unit is located. |  |
| 4 |  | Write down your freight unit number. |  |  |

## Create Freight Order

Procedure

Table 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as a Transportation Planner. | The SAP Fiori Launchpad displays. |  |
| 2 | Access App | In the Freight Order Management section, select Freight Orders - Worklist. | The Freight Orders - Worklist opens. |  |
| 3 |  | 1. Choose New to create a new freight order.
2. Enter the Freight Order Type as SFO1.
3. Choose Continue.
 |  |  |
| 4 | Enter General Data | Navigate to the General Data tab and enter the following data:1. Enter the Carrier with 10386001 or 10386002.
2. Enter the Procuring Company Code Company DE 1010.
3. Enter Purchasing Organization with Purchasing Organization DE 1010.
4. Enter Purchasing Group with Purchasing Group DE 1010.
 |  |  |
| 5 | Create Capacity Document | 1. Navigate to the Items tab.
2. Choose Insert > Insert FUs based on Freight Unit ID .
3. Enter your freight unit number from chapter .
4. Choose Ok.
 | Freight unit numbers are assigned to the freight order. |  |
| 6 | Remove Incoterm Information | Navigate to the Terms and Conditions tab and delete the entries in the fields Incoterm and Incoterms Location. |  |  |
| 7 | Save Document | Choose Save. | The freight order is created, planned, and automatically replicated to the connected SAP S/4HANA Cloud system. |  |

# Appendix

# Process Integration

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

## Preceding Processes

The following processes and conditions can proceed this process.

|  |  |
| --- | --- |
| Process | Business Condition |
| 3EP – Order-based Transportation Consolidation | The sales order is created in the SAP S4HANA Cloud system. With that, freight unit(s) are created. Freight unit(s) are automatically replicated to the SAP S/4HANA On-Premise system. |

## Succeeding Processes

After completing the activities in this test script, you can continue testing the following business processes:

|  |  |
| --- | --- |
| Process | Business Condition |
| 3EP – Order-based Transportation Consolidation | After the freight units are planned in the SAP S/4HANA On-Premise system, the resulting freight order is automatically replicated to the SAP S/4HANA Cloud system and can be processed further.Execute ALL process steps in the Scope Item Order-based Transportation Consolidation (3EP) starting with Monitor Freight Orders. In the test script, go to Test Procedures > Monitor Freight Orders . You can find the document in the SAP Best Practices Explorer or in the downloaded content library. |

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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