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| Test Script  SAP S/4HANA - 21-08-20 | public |
| Basic Handover of Bill of Material (1ZI\_DE) |

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# Purpose

Handover to Manufacturing allows the user to create a Manufacturing Bill of Material from an Engineering Bill of Material within one step. The manufacturing Bill of Material is initially being created as a copy of the Engineering Bill of Material. With this step the system automatically generates a linkage between both Bill of Materials. As an optional step this newly created Manufacturing Bill of Material can be reworked with Change Management technology. Finally this Bill of Material will be release for productive use.

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

|  |  |
| --- | --- |
| System | Details |
| System | Accessible via 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 |
| * Production Engineer - Discrete Manufacturing   Maintains manufacturing-relevant master data such as bill of materials.  Coordinates with engineering department, production supervisors, and others relevant for manufacturing. | SAP\_BR\_PRODN\_ENG\_DISC | Production Engineering - Discrete Manufacturing | SAP\_BR\_PRODN\_ENG\_DISC |  |

## Master Data, Organizational Data, and Other Data

Released FG126 Material BOM as Engineering BOM (see detail 1R3).

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Details | Comments |
| Plant | 1010 | Plant 1 DE |  |
| Material | FG126 | FIN126,MTS-DI,PD,Batch-Fifo,SerialNo |  |
| Material | RM129 | RAW129,PD | Additional Manufacturing Material |
| E-BOM | BOM structure for FG126 |  |  |
| Material | FG126 | FIN126,MTS-DI,PD,Batch-Fifo,SerialNo |  |
| Material | SG21 | SEMI21,PD,RepetitiveManuf. |  |
| Material | SG22 | SEMI22,PD,Phantom |  |
| Material | RM122 | RAW122,PD,Batch-Fifo,ProcureImport |  |
| Material | RM128 | RAW128,PD,Consignment |  |
| Material | RM120 | RAW120,PD,QualityManaged |  |
| Material | SG23 | SEMI23,PD,Subcontracting |  |
| Material | SG25 | SEMI25,PD,ExternalProcurement |  |
| Material | SG124 | SEMI124,PD,Subassembly |  |
| Material | RM20 | RAW20,PD |  |
| Material | RM27 | RAW27,PD,PackagingBox |  |

For more information on creating master data objects, see the following [Master Data Scripts (MDS)](https://support.sap.com/content/dam/SAAP/Sol_Pack/BP_OP_ENTPR/BP_OP_ENTPR_S4HANA2020_7_Master_Data_EN_XX.htm)

Table 1: Master Data Script Reference

|  |  |
| --- | --- |
| Master Data ID | Description |
| BNR | Create Product Master of Type "Raw Material" |
| BNS | Create Product Master of Type "Semi-Finished Good" |
| BNT | Create Product Master of Type "Finished Good" |

## Business Conditions

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

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| 1R3 – Engineering Bill of Material - Change Master Management | Engineering BOM FG126 is created. |

For testing purposes, the objects listed in [Overview Table](#unique_7) [page ] 7 are already created in your system.

# Overview Table

This scope item consists of several process steps, provided in the table below.

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 | Business Role | App/Transaction | Expected Results |
| [Create Change Master](#unique_8) [page ] 8 | Production Engineer - Discrete Manufacturing | Create Change Master (CC01) | Change Master is created. |
| [Create Manufacturing Bill of Material as Copy of Engineering Bill of Material](#unique_9) [page ] 9 | Production Engineer - Discrete Manufacturing | Maintain Bill Of Material - Create, change & display BOMs (F1813) | M-BOM is created. |
| [Rework Manufacturing BOM](#unique_10) [page ] 11 | Production Engineer - Discrete Manufacturing | Maintain Bill Of Material - Create, change & display BOMs (F1813) | M-BOM is reworked. |
| [Release Manufacturing BOM](#unique_11) [page ] 12 | Production Engineer - Discrete Manufacturing | Maintain Bill Of Material - Create, change & display BOMs (F1813) | M-BOM is released. |
| [Set Status of Change Master to Inactive](#unique_12) [page ] 14 | Production Engineer - Discrete Manufacturing | Change Change Master (CC02) | Change master status is set to inactive. |

# Test Procedures

This section describes test procedures for each process step that belongs to this scope item.

## Create Change Master

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. |

Purpose

In this process step, you create the change master that is used to create the manufacturing BOM.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instructions | Expected Result | Comments |
| 1 | Log on | Log on to the SAP Fiori launchpad as Production Engineer - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the app | Open the Create Change Master (CC01) app. | The Create Change Master: Initial Screen screen displays. |  |
| 3 | Enter change master data | 1. In the Change Number field, enter a change number, for example, CN003, and press Enter. 2. On the Create Change Master: Change Header screen, make entries similar to the following example, and press Enter.    * Change number (Field 2): Change master for creating manufacturing BOM    * Valid From: <Current date>    * Change no. status: 01 (Active) | The Create Change Master: Object Types screen displays. |  |
| 4 | Select object types | In the Object types section, Bill of Material row, select the following check boxes:   * Actv. * Object * MgtRec |  |  |
| 5 | Save the change master | Choose Save. | The change master is created. |  |

## Create Manufacturing Bill of Material as Copy of Engineering Bill of Material

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. |

Purpose

In this process, you create a new manufacturing bill of material (MBOM) as a copy of an engineering bill of material (EBOM).

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log on | Log on to the SAP Fiori launchpad as Production Engineer - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the app | Open the Maintain Bill Of Material - Create, change & display BOMs (F1813) app. | The Maintain Bill of Material screen is displayed. |  |
| 3 | Find the EBOM | Make the following entries, and choose Go:   * Material: FG126 * BOM Usage: Engineering/Design | The EBOM is displayed in the search results. |  |
| 4 | Hand over the EBOM to manufacturing | 1. Select the BOM FG126, and then choose Handover to Manufacturing.   If the Handover Engineering Product Structures (3NE) scope item is activated, a dialog box displays prompting you to choose whether to hand over from the current app or from the Engineering Bills of Material (EBOM) (F3056) app.   1. If the prompt displays, select From Current App, and choose OK. 2. On the Handover to Manufacturing dialog box, make the following entries:    * Plant: 1010    * Change Number: CN003 3. Select the Copy Components check box. (Selected by default) 4. Choose OK. | The EBOM is copied over to a new MBOM, which displays in the draft mode. |  |
| 5 | Save the MBOM | Choose Save. | The MBOM is created. |  |

## Rework Manufacturing BOM

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. |

Purpose

In this process step, you add a new component to the BOM.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log on | Log on to the SAP Fiori Launchpad as Production Engineer - Discrete Manufacturing.  Note If you are already logged on and the BOM details are already displayed, then skip to test step 7. | The SAP Fiori Launchpad displays. |  |
| 2 | Access the app | Open the Maintain Bill Of Material - Create, change & display BOMs (F1813) app. | The Maintain Bill of Material screen is displayed. |  |
| 3 | Find BOM | Make the following entries and choose Go:   * Material: FG126 * Plant: 1010 * BOM Usage: Production | BOM is displayed in the result list. |  |
| 4 | Open BOM | Select the BOM in the result list. | The BOM details are displayed. |  |
| 5 | Choose Edit | Choose Edit.  Tip If the Edit button is not visible, then choose More options and then choose Edit. | BOM can be edited now. |  |
| 6 | Enter BOM Item Category, Component, and Component quantity | Make the following entries in the top row:  Item Category: Stock item (default)  Component: RM129  Component quantity: 2 PC | BOM Item Number, Component, Component Description, and Component quantity are displayed in the top row in the table. |  |
| 7 | Save BOM | In the Maintain Bill of Materia screen, choose Save.  The Material BOM saved message appears. Choose Close. | BOM is saved. |  |

## Release Manufacturing BOM

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. |

Purpose

In this process step, you release the BOM.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log On | Log on to the SAP Fiori Launchpad as Production Engineer - Discrete Manufacturing.  Note If you are already logged on and the BOM details are already displayed, then skip to test step 6. | The SAP Fiori Launchpad displays. |  |
| 2 | Access the App | Open the Maintain Bill Of Material - Create, change & display BOMs (F1813) app. | The Maintain Bill of Material app is launched. |  |
| 3 | Find BOM | On the Maintain Bill of Material screen, make the following entries and choose Go:   * Material: FG126 * Plant: 1010 * BOM Usage: Production | BOM is displayed in the result list. |  |
| 4 | Open BOM | Select the BOM FG126 in the result list. | The BOM details are displayed. |  |
| 5 | Choose Edit | Choose Edit. | BOM can be edited now. |  |
| 6 | Check the status of the BOM | On the Header Attributes, set the BOM status to 1(Active). | Status is set to Active. |  |
| 7 | Save BOM | Choose Save. | BOM is saved. |  |

## Set Status of Change Master to Inactive

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. |

Purpose

In this process step, you set the Change Master Status to Inactive so that this specific Change Master cannot be used anymore for managing further changes.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log On | Log on to the SAP Fiori launchpad as Production Engineer - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open the Change Change Master (CC02) app. | The Change Change Master: Initial Screen screen displays. |  |
| 3 | Find Change Number | On the Change Change Master: Initial Screen, set the filters.  Example Change Number: CM001  Press Enter. | The change number details display. |  |
| 4 | Set change number status | In the Status Information section, make the following entry:  Change no. status: 2 (Inactive) | Change number status is set to Inactive. |  |
| 5 | Save Change Number | Choose Save. | The Change Number is saved. |  |

# 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 |
| Engineering Bill of Material – Change Master Management(1R3) |  |

### Succeeding Processes

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

|  |  |
| --- | --- |
| Process | Business Condition |
| Make-to-Stock Production - Discrete Manufacturing (BJ5) | The production order is created and processed. |

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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