|  |  |
| --- | --- |
|  |  |
| Test Script  SAP S/4HANA - 17-09-20 | public |
| Make-to-Order Production - Semifinished Goods Planning and Assembly (1BM\_DE) |

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# Purpose

This scope item supports production planning for semifinished components within a Make-to-Order (MTO) environment prior to the receipt of incoming sales orders. This reduces the lead time of sales orders for finished goods received that are received later.

Demand forecast is created for semifinished components that are represented through Planned Independent Requirements (PIRs). Based on PIRs, Material Requirements Planning (MRP) creates a production plan for the component and explodes the bill of material structure for higher low-level codes. As a result, the demand for semifinished component production and raw material is planned.

The production process is made up of the following: conversion of planned into production orders, order release, confirmation of order operations with automatic backflush of components and goods receipt posting.

The scenario is completed with the receipt of an incoming sales order and either the consumption of the component part of this scope item, or by reference to the entire MTO scenario in the BJE scope item.

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 Planner | SAP\_BR\_PRODN\_PLNR | Production Planning | SAP\_BR\_PRODN\_PLNR |  |
| Production Supervisor - Discrete Manufacturing | SAP\_BR\_PRODN\_SUPERVISOR\_DISC | Discrete Manufacturing Execution Management | SAP\_BR\_PRODN\_SUPERVISOR\_DISC |  |
| Production Operator - Discrete Manufacturing | SAP\_BR\_PRODN\_OPTR\_DISC | Discrete Manufacturing Execution | SAP\_BR\_PRODN\_OPTR\_DISC |  |
| Warehouse Clerk | SAP\_BR\_WAREHOUSE\_CLERK | Inventory Processing | SAP\_BR\_WAREHOUSE\_CLERK |  |
| Internal Sales Representative | SAP\_BR\_INTERNAL\_SALES\_REP | Internal Sales | SAP\_BR\_INTERNAL\_SALES\_REP |  |
| Inventory Manager | SAP\_BR\_INVENTORY\_MANAGER | Inventory Management | SAP\_BR\_INVENTORY\_MANAGER |  |
| Administrator | SAP\_BR\_ADMINISTRATOR | Administration | SAP\_BR\_ADMINISTRATOR |  |

## Master Data, Organizational Data, and Other 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 baseline package sample data:

|  |  |  |  |
| --- | --- | --- | --- |
| Master | Value | Details | Comments |
| Material | FG228 |  | FIN228,MTO,PD,Batch-Fifo,SerialNo |
| Material | SG21 |  | SG21 |
| Material | SG22 |  | SG22 |
| Material | SG25 |  | SG25 |
| Material | SG23 |  | SEMI23,PD,Subcontracting |
| Material | RM13 |  | RAW13,PD,Subcontracting |
| Material | RM14 |  | RAW14,PD,Subcontracting |
| Material | SG224 |  | SG224 |
| Material | RM16 |  | RM16 |
| Material | RM17 |  | RM17 |
| Material | RM18 |  | RM18 |
| Material | RM20 |  | RM20 |
| Material | RM27 |  | RM27 |
| Material | RM120 |  | RM120 |
| Material | RM122 |  | RM122 |
| Material | RM124 |  | RM124 |
| Material | RM128 |  | RM128 |
| Customer | 10100001 |  |  |
| Plant | 1010 |  | Plant 1 DE |
| Storage Location | 101A |  | Std. storage 1 |
| Storage Location | 101B |  | Std. storage 2 |
| Shipping Point | 1010 |  |  |
| Sales Organization | 1010 |  |  |
| Distribution Channel | 10 |  |  |
| Division | 00 |  |  |

Bill of Material Structure

This overview shows the bill of material structure and the usage of each component if you have activated all optional enhancements.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Material | Level | Material Type | Unit | Characteristic of Material | Optional Enhancements |
| FG228 | 0 | FERT | PC | Finished Good for MT0 processing with batch and serial number processing | Batch processing for Finished Good optionally |
| SG21 | 1 | SEMI | PC | SF Repetitive Manufacturing |  |
| RM12 | 2 | RAW | PC | External procured |  |
| SG22 | 1 | SEMI | PC | SF, Phantom Assembly |  |
| RM16 | 2 | RAW | PC | External procured |  |
| RM17 | 2 | RAW | PC | External procured |  |
| RM18 | 2 | RAW | PC | External procured |  |
| SG23 | 1 | SEMI | PC | External procured with subcontract |  |
| RM13 | 2 | RAW | PC | External procured |  |
| RM14 | 2 | RAW | PC | External procured |  |
| RM120 | 1 | RAW | PC | External procured |  |
| RM122 | 1 | RAW | PC | External procured with Batch Management (FIFO-Strategy) |  |
| RM128 | 1 | RAW | PC | External procured with Consignment Processing |  |
| RM13 | 2 | RAW | PC | External procured |  |
| RM14 | 2 | RAW | PC | External procured |  |
| SG224 | 1 | SEMI | PC | Internal production of subassembly (MTO strategy) |  |
| RM124 | 2 | RAW | PC | External procured using Fixed Bin |  |
| RM27 | 1 | RAW | PC | External procured, Packaging Box |  |

For more information on creating these 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 | Master Data Script Text |
| BNJ | Create Production Work Center |
| BNK | Create Material BOM for Production and Sales |
| BNL | Create Routing |
| BLD | Create Production Version |

## Business Conditions

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

|  |  |
| --- | --- |
| Scope Item | Comment |
| BNU - Create Costing Run (master data script) | You have completed the steps described in the master data script BNU: Create Costing Run |

## Preliminary Step

### Initial Material Stock

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as an Inventory Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Stock (F1062). | The Manage Stock (F1062) screen displays. |  |
| 3 | Input Material | Make the following entries and choose Enter:   * Material Master : RM124 * Plant:1010 | The Stock overview for the material displays. |  |
| 4 | Select Stock | Select the icon beside the stock that you want to add initial stock, for example:   * Storage Location:101B * Unrestricted - Use Stock | A dialog box opens. The Storage Location, Stock Type, and Current Quantity display according to your entries in the previous steps. |  |
| 5 | Add Initial Entry | Make the following entries and choose Post:   * Document Date: today * Posting Date: today * Stock Change: Initial Entry * Quantity: <quantity number> | The system displays Material document XXX created. The stock has been added. |  |

# 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 | Transaction/App | Expected Results |
| Anonymous Forecast and Material Requirements Planning for Semifinished Product | | | |
| [Create Planned Independent Requirements](#unique_9) [page ] 11 | Production Planner | Manage PIRs (Obsolete) - Replaced by “Maintain PIRs” (F1079) | The Manage PIRs (Obsolete) - Replaced by “Maintain PIRs” (F1079) screen displays. |
| [Material Requirements Planning](#unique_10) [page ] 13 | Production Planner | Manage PIRs (Obsolete) - Replaced by “Maintain PIRs” (F1079) | The Application Jobs screen displays. |
| [Monitor Material Coverage](#unique_11) [page ] 14 | Production Planner | Monitor Material Coverage - Net / Individual Segments (F2101) | The Monitor Material Coverage - Net / Individual Segments (F2101) Screen displays. |
| Production Order Processing for Semifinished Product | | | |
| [Create Production Order](#unique_12) [page ] 16 | Production Planner | Monitor Material Coverage - Net / Individual Segments (F2101) | The Monitor Material Coverage - Net / Individual Segments (F2101) screen displays. |
| [Release Production Order](#unique_13) [page ] 17 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | The Manage Production Orders (F2336) screen displays. |
| [Confirm Production Order for Semifinished Product](#unique_14) [page ] 19 | Production Operator - Discrete Manufacturing | Confirm Production Operation (F3069) | The Perform Work screen displays. |
| [Review Production Order for Semifinished Product](#unique_15) [page ] 21 | Production Operator - Discrete Manufacturing | Manage Production Operations (F2335) | The Manage Production Operations (F2335) screen displays. |
| Sales Order Processing for Finished Products | | | |
| Alternative 2: Incoming Sales Order and Consumption of the Component | | | |
| [Create Sales Order for Finished Product](#unique_16) [page ] 24 | Internal Sales Representative | Manage Sales Orders (F1873) | The Manage Sales Orders (F1873) screen displays. |
| [Monitor Material Coverage for Semifinished Product](#unique_17) [page ] 25 | Production Planner | Monitor Material Coverage - Net / Individual Segments (F2101) | The Monitor Material Coverage - Net / Individual Segments (F2101) Screen displays. |
| [Material Requirements Planning for Finished Product](#unique_18) [page ] 27 | Production Planner | Schedule MRP Runs (F1339) | The Application Jobs screen displays. |
| [Monitor Material Coverage for Semifinished and Finished Product](#unique_19) [page ] 28 | Production Planner | Monitor Material Coverage - Net / Individual Segments (F2101) | The Monitor Material Coverage - Net / Individual Segments (F2101) displays. |
| [Review Manufacturing Object Pages](#unique_20) [page ] 30 | Any role for production listed in Roles chapter. | Search function | The list of search result displays. |

# Test Procedures

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

## Anonymous Forecast and Material Requirements Planning for Semifinished Product

### Create Planned Independent Requirements

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

Planned Independent Requirements (PIR) is used to perform demand management functions. A planned independent requirement contains one planned quantity and one date, or a number of planned independent requirements schedule lines, that is, one planned quantity split over time according to dates.

Note Instead of creating a single requirement, sometimes a requirement plan that includes one or more planned independent requirements can be maintained for mass processing. In this case, the requirements are grouped and maintained under a requirement plan number.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Maintain PIRs (F3445). |  |  |
| 3 | Check Default Area of Responsibility | On the Maintain PIRs screen, select your user name and choose the App Settings icon. On the MRP Settings screen, choose Area of Responsibility.  Check that only the following entry is assigned:  Plant 1 DE / 001 (MRP Controller 001)  Choose AOR status button of this entry if not assigned, choose AOR status button of the corresponding entry to unassign any other entry then choose Back. |  |  |
| 4 | Select | On the Maintain PIRs (F3445) screen, make the following entries:   * Plant: 1010 * Period Indicator: Monthly (M) * Version Active: Yes, No * Search: SG224 |  |  |
| 5 | Filter Result | Choose Go to execute. | Material item displays. |  |
| 6 | Select Material Item | Check the material item, and choose Edit in the upper right. |  |  |
| 7 | Edit PIRs | On the screen, enter quantities per period, for example:  PIR: 100 for all 12 periods  Make sure the version is active.  Version Active: Yes |  |  |
| 8 | Save PIRs Draft | Choose Save at bottom right. | The PIRs are saved. |  |

### Material Requirements Planning

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

This process step shows you how to use Material Requirements Planning (MRP) to tailor available capacities and receipts on time to suit requirements quantities. Single item multi-level requirement planning is performed for plant 1010.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Schedule MRP Runs (F1339). | The Application Jobs screen displays. |  |
| 3 | Create New Job | Choose Create.  On the New Job screen, make the following entries:  For 1. Template Selection section:   * Job Template: Material Requirement Planning (MRP) * Job Name: <MRP for SG224>   Choose Step 2.  For 2. Scheduling Options section:   * Start Immediately: <select>   Choose Define Recurrence Pattern.  On the Scheduling Information screen, make the following entries:   * Start Immediately: X * Recurrence Pattern: Single Run   Choose OK.  Choose Step 3.  For 3 Parameters section:   * Plant: 1010 * Material: MRP for SG224 * Changed BOM Components: select * Planning Mode: 1   Choose Check at the bottom right.  Choose Schedule. | A message appears: You can go ahead and schedule the job. |  |
| 4 | Refresh Application Jobs List | To check the job’s status, enter MRP for SG224 in the search box and choose Go at the top right section of the screen. | The new job is created and is displayed in the Application Jobs table when refreshed. |  |

### Monitor Material Coverage

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

This process step shows you how to display the stock and requirements situation for the semifinished product (SG224) in the stock and requirements list after the requirements planning performed.

Prerequisite

Requirements planning has been carried out.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Monitor Material Coverage - Net / Individual Segments (F2101). | The Monitor Material Coverage - Net / Individual Segments (F2101) Screen displays. |  |
| 3 | Select Material | Mark the checkbox of the following materials, and choose Manage Materials at bottom right.  Material: SG224 | The Manage Material Coverage screen displays. |  |
| 4 | Review Stock and Requirements List | Select the corresponding material on the left Material screen. | The detailed Stock and Requirements List for each material displays. |  |
| 5 | Display Planned Order | From the list on the left Material screen, select the material for which you want to check the planned order.  Material: SG224  On the Material Details screen, select the PldOrd XXXX in column MRP Element. | The Planned Order you selected display in the dialog box.  If there is no shortage for those materials, the planned order will not be generated.  If you want to display more information about the planned order, at the right bottom of this dialogue, choose Open > Planned Order . |  |
| 6 | Note | The BOM explosion during the MRP run has generated dependent requirements for the demand-driven planned components. If inventory does not cover the requirements, planned orders are created for in-house-produced materials or purchase requisitions for externally procured materials. |  |  |

## Production Order Processing for Semifinished Product

### Create Production Order

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

This process step shows you how to create production order. The MRP run creates planned orders that will be produced internally. When the planned opening date reaches, the planned orders are converted to production orders.

Prerequisite

The MRP run has generated a planned order for material SF Subassembly SG224.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Monitor Material Coverage - Net / Individual Segments (F2101). | The Monitor Material Coverage-Net / Individual Segments screen displays. |  |
| 3 | Select Material | Mark the checkbox for material SG224 and then choose Manage Materials. | Material Details displays. |  |
| 4 | Find Planned Order | Find the generated planned order. | Order Information displays. |  |
| 5 | Convert Planned Order to Production Order | Select Convert from Action dropdown list. Choose Convert to Production Order and confirm the End Date and Quantity, then Choose OK | The production order is created. |  |

### Release Production Order

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

This process step shows you how to release the order and all its operations at order header level . The order and the operations receive the status REL (released). You can also release a production order in create and change modes.

Prerequisite

The production order created by the MRP controller is assigned a release date in accordance with the scheduling margin key.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Production Orders (F2336). | The Manage Production Orders (F2336) screen displays. |  |
| 3 | Check Default Area of Responsibility (Supervisor) | On the Manage Production Orders (F2336) screen, make the following entries.  Select the user (from the top left corner). Choose App settings. Choose Area of Responsibility Production Supervisor. Check if only the following entry displays:  Plant 1 DE 1010  MTS DI - Valuated (YB1) | If the Plant 1 DE 1010 is blank on the Area of Responsibility (Supervisor) screen, choose add to select it and then choose OK.  For other plant entries on the Area of Responsibility (Supervisor) screen, choose Delete to remove the others and then choose OK. |  |
| 4 | Select Production Order | On the Manage Production Orders (F2336) screen, enter the following search condition as filter.  Choose Adapt Filters to display more selection filter. Choose More filters under Material and Plant. Select the Material and Plant checkboxes and choose Go. Choose OK. Material and Plant fields are then added to filter bar.   * Status: Created * Material: SG224 * Production Plant: 1010   Choose Go to execute. | The Manage Production Orders (F2336) screen displays. |  |
| 5 | Execute Release | On the Production Order Change: Header screen, choose Release Order in the top left corner. |  |  |
| 6 | Save Production Order | Choose Save. |  |  |

### Confirm Production Order for Semifinished Product

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

The confirmation documents include the processing status of orders, operations, suboperations. It is an instrument for controlling orders. Here you have to confirm the operations of the production order for semi-finished material SF Subassembly SG224. When you confirm the last operation, the system generates a goods movement document for SF Subassembly SG224. The backflush is carried out together with the confirmation steps. Via the confirmation the goods receipt for semifinished material SG224 will also be executed automatically.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Confirm Production Order Operation (CO11N). | The Enter Time Ticket for Production Order screen displays. |  |
| 3 | Enter Time Ticket for Production Order | On the Enter time ticket for production order screen, make the following entries:   * Order: Production Order Number you noted * Operation: for example, operation 0010 * Confirmation: Final Confirmation   Choose Enter to show related information of the production order. |  |  |
| 4 | Fill Yield field and To confirm-Labor field | Ensure that you have pressed enter before this step.  In the Yield field, enter the amount you want to confirm.  In the To Be Confirmed and Unit fields, for Setup enter a value (for example, 10 and Unit of Hour) for the labor time and confirm with Enter. |  |  |
| 5 | Choose Goods Movements | Choose Goods Movements screen. | The system shows you an overview table of all materials for which the withdrawing is done automatically with the confirmation of the operation.  The material RM124 is set for backflush (in material master) so that the withdrawing is done automatically after you confirm the operation. |  |
| 6 | Save Your Entries | Click Post to save. | Confirmation saved. |  |
| 7 | Repeat Steps | Repeat steps 3 to 6 for operation number 020 and save your entries. |  |  |

### Review Production Order for Semifinished Product

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

This process step shows you how to display and check the order using the app Monitor Production Orders for the Semifinished Product SG224 after the release or confirm of finished goods orders is performed,

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Production Operations (F2335). | The Manage Production Operations (F2335) screen displays. |  |
| 3 | Select Production Order | On the Manage Production Operations (F2335) screen, enter the following search condition as filter.  Select the user (from the top left corner). Choose App settings. Choose against Area of Responsibility Production Supervisor. Check if only this entry displays:  Plant 1 DE 1010  MTS DI - Valuated (YB1)  Select Adapt Filters to display more selection filter. Choose More filters under Material and Production Plant. Check the checkbox for Material and Production Plant and choose Go. Choose OK. Material and Production Plant fields are then added to filter bar.   * Status: Confirmed * Material: SG224 * Production Plant: 1010   Choose Go to execute. | Selected order displays. |  |
| 4 | Check Detailed Operations Status | Check detailed information for selected production operations.  Issue:   1. Empty if there is no issue for production order. 2. Delay / Missing Components / PRT issue / Quantity Deviation / Quality Issue information shows if relevant issue exists.   Components:  Material, total quantity and Issued / open quantity information for order components displays  Order Schedule:  Detailed operation information with relevant work center, confirmed quantity, start or end time displays.  Work Center Schedule:  The relevant order that covering the same work center capacity (operation is partially confirmed) displayed.  Operations not Started:  The relevant order that would cover the same work center capacity (operation is released) displayed.  Confirmation:  Detailed confirmation information with Yield, Scrap; Rework quantity displays if confirmation executed.  Inspection:  Detailed inspection lots information displays if existed | Detailed operations status displays. |  |

## Sales Order Processing for Finished Products

### Alternative 1: Make-to-Order Production - Finished Goods Sales and Final Assembly(BJE)

You can execute the scope item BJE for completing process of sales and production for finished products FG228.

Procedure

Complete all the activities described in the test script of the scope item BJE (Make-to-Order Production - Finished Goods Sales and Final Assembly)

### Alternative 2: Incoming Sales Order and Consumption of the Component

#### Create Sales Order for Finished Product

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

This process step shows you how to create a sales order for material FG228 that customer requires.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log On | Log on to the SAP Fiori launchpad as Internal Sales Representative. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Sales Orders (F1873). | The Manage Sales Orders (F1873) screen displays. |  |
| 3 | Navigate to Create Sales Order Screen | Choose Create Sales Order. | The Create Sales Document screen displays. |  |
| 4 | Enter the Order Type OR (Standard Order) | On the Create Sales Document screen, make the following entries:   * Order Type: OR * Sales Organization: 1010 * Distribution Channel: 10 * Division: 00   Choose Continue. |  |  |
| 5 | Enter Order Details | On the Create Sales Order: Overview screen, make the following entries:   * Sold to party: 10100001 * Ship-to party: 10100001 * Customer Reference: <PO number> * Order Reason: <Order Reason> * Req. Deliv. Date: <Current date + 2 days> * Material Number: FG228 * Quantity   : <Quantity> |  | PO Number: Enter a customer purchase order number as reference  Order Reason: for example, Excellent price  Quantity: for example, 10 PC |
| 6 | Save Document | Choose Save. Make a note of the sales order number: \_\_\_\_\_\_\_\_\_\_. | Note If the sales order might require approval, please refer to scope item Sell from Stock (BD9), and complete the activities of Process Sales Order Approval. |  |

#### Monitor Material Coverage for Semifinished Product

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 step, you can note down the PIR of SG224 before MRP run. MRP generates dependent requirement for SG224 which consumes the PIR.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Monitor Material Coverage - Net / Individual Segments (F2101). | The Monitor Material Coverage - Net / Individual Segments (F2101) screen displays. |  |
| 3 | Enter Relevant Search Criteria | Mark the checkbox of the following materials, and then choose Manage Materials at right bottom.  Material : SG224 | The Manage Material Coverage screen displays. |  |
| 4 | View the Report | Check and note down the PIR (IndReq VSFB) of the material SG224. |  |  |
| 5 | Back | Choose Home. |  |  |

#### Material Requirements Planning for Finished Product

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

This process step shows you how to start the MRP run for the sales order you created before.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Schedule MRP Runs (F1339). | The Application Jobs screen displays. |  |
| 3 | Create New Job | Choose Create.  On the New Job screen, make the following entries:  For 1. Template Selection section:   * Job Template: Material Requirement Planning (MRP) * Job Name: <MRP for FG228>   Choose Step 2.  For 2. Scheduling Options section:   * Start Immediately: <select>   Choose Define Recurrence Pattern.  On the Scheduling Information screen, make the following entries:   * Start Immediately: X * Recurrence Pattern: Single Run   Choose OK.  Choose Step 3.  Choose 4 Parameters and make the following entries:   * Plant: 1010 * Material: MRP for FG228 * Changed BOM Components: select * Planning Mode: 1   Choose Check at the bottom right.  Choose Schedule. | A message appears: You can go ahead and schedule the job. |  |
| 4 | Refresh Application Jobs List | To check the job’s status, enter MRP for FG228 in the search box and choose Go at the top right section of the screen. | The new job is created and is displayed in the Application Jobs table when refreshed. |  |

#### Monitor Material Coverage for Semifinished and Finished Product

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

This process step shows you how to monitor dependent requirement of SG224 generated by MRP. Compare current PIR with the PIR you note down in section Monitor Material Coverage for Semifinished Product, you will find the PIR is consumed by the dependent requirement.

Procedure

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |
| 2 | Access the App | Open Monitor Material Coverage - Net / Individual Segments (F2101). | The Monitor Material Coverage - Net / Individual Segments (F2101) displays. |
| 3 | Enter Relevant Search Criteria | Mark the checkbox of the following materials, and then choose Manage Materials at bottom right.   * Material: SG224 * Material: FG228 | The Manage Material Coverage screen displays.  Mark FG228 for the customer order from section Create Sales Order for Finished Product and SG224 without individual segments. |
| 4 | View the Report | Check and compare the PIR (IndReq VSFB) of material SG224 with the individual segment of the customer order FG228.  Results for FG228: An individual planned order was created for the sales order.  Results for SG224 : A dependent requirement from the sales order shows up in the net segment and has consumed the PIR created before.  Select the DepReq to show details for the sales order and planned order. | The PIR (IndReq VSFB) of SG224 is consumed. |
| 5 | Back | Choose Home. |  |

## Review Manufacturing Object Pages

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

This process step shows you how to review different object pages available for different roles in the manufacturing process.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner.  Note You can use any role in section Roles above. | The SAP Fiori launchpad displays. |  |
| 2 | Search Material | Choose the Search icon in the upper right part of the screen.  Make the following entries and choose Search:   * Search: <BOM Header Material>, refer to section Master Data, Organizational Data, and Other Data. | The system displays a list of objects using the selected material. |  |
| 3 | Display Object | In the All field, select an object from the dropdown list and choose the Search icon. | The displaying list of objects is limited to the object type selected. If no object is selected, a message would display instead. |  |
| 4 | Tailor the Result Display | Under the search line, choose an icon (for example, filter, display as table, sort and so on) to filter the results list. | The results list is filtered according to your selections. |  |
| 5 | Repeat Steps | Repeat steps 1 to 5 for any other role in this test script and any other object offered in the search function. | The result list of objects displayed differs by the role you use to log on. |  |

# Appendix

## Process Integration

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

### Succeeding Processes

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

|  |  |
| --- | --- |
| Process | Business Condition |
| BEI (Period-End Closing - Plant)(Optional) | This is collectively executed as a part of month-end closing. For more information on month-end closing procedure, see the test script Period-End Closing - Plant.   * Note that month-end closing can only be executed once a month. |

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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