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|  |  |
| Test Script  SAP S/4HANA - 20-08-20 | public |
| Production Operations with SAP Manufacturing Execution (2JN\_DE) |

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# Purpose

SAP's manufacturing solution for discrete industries enables a fully integrated production process from top floor to the shop floor.

Production Operations with SAP Manufacturing Execution can orchestrate highly automated production processes enabling product variants with a lot size of one. Variants and their production sequence can be changed automatically, quickly, and easily. The solution also offers real-time transparency of production operations and KPIs plus complete traceability based on as-built records.

Production Operations with SAP Manufacturing Execution reflects SAP's roadmap to get connected with the future of Discrete Manufacturing. It allows very low production volumes while still making a profit, providing state-of-the-art production execution and insights to action in real-time.

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) | Description | ID (Role) | Description (Space) | ID (Space) | Log On |
| Production Assembler | Production Assembler for ME |  |  |  |  |
| Production Administrator | Production Administrator for ME |  |  |  |  |
| Production Planner | Production Planner | SAP\_BR\_PRODN\_PLNR | Production Planning | SAP\_BR\_PRODN\_PLNR |  |
| Production Supervisor - Discrete Manufacturing | Production Supervisor - Discrete Manufacturing | SAP\_BR\_PRODN\_SUPERVISOR\_DISC | Discrete Manufacturing Execution Management | SAP\_BR\_PRODN\_SUPERVISOR\_DISC |  |
| Production Operator - Discrete Manufacturing | Production Operator - Discrete Manufacturing | SAP\_BR\_PRODN\_OPTR\_DISC | Discrete Manufacturing Execution | SAP\_BR\_PRODN\_OPTR\_DISC |  |
| Warehouse Clerk | Warehouse Clerk | SAP\_BR\_WAREHOUSE\_CLERK | Inventory Processing | SAP\_BR\_WAREHOUSE\_CLERK |  |

## 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 or the following sample data to go through the test procedure. The master data is used for two different lines in SAP ME. Variant A describes line A and Variant B describes the more complex line B.

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Description | Comments |
| Material | FGME01 | FIN01, MTS, ME Integration, A | Needed for Variant A |
| Material | FGME02 | FIN02, MTS, ME Integration, A | Needed for Variant A |
| Material | SGME01 | SEMI01, MTS, ME Integration, A | Needed for Variant A |
| Material | SGME02 | SEMI02, MTS, ME Integration, A | Needed for Variant A |
| Material | RMME01 | RAW01, MTS, ME Integration, A | Needed for Variant A |
| Material | RMME02 | RAW02, MTS, ME Integration, A | Needed for Variant A |
| Material | RMME03 | RAW03, MTS, ME Integration, A | Needed for Variant A |
| Material | RMME04 | RAW04, MTS, ME Integration, A | Needed for Variant A |
| Material | RMME05 | RAW05, MTS, ME Integration, A | Needed for Variant A |
| Material | RMME06 | RAW06, MTS, ME Integration, A | Needed for Variant A |
| Material | RMME07 | RAW07, MTS, ME Integration, A | Needed for Variant A |
| Material | RMME08 | RAW08, MTS, ME Integration, A | Needed for Variant A |
| Material | FGME03 | FIN03, MTS, ME Integration, B | Needed for Variant B |
| Material | FGME04 | FIN04, MTS, ME Integration, B | Needed for Variant B |
| Material | SGME03 | SEMI03, MTS, ME Integration, B | Needed for Variant B |
| Material | SGME04 | SEMI04, MTS, ME Integration, B | Needed for Variant B |
| Material | RMME10 | RAW10, MTS, ME Integration, B | Needed for Variant B |
| Material | RMME11 | RAW11, MTS, ME Integration, B | Needed for Variant B |
| Material | RMME12 | RAW12, MTS, ME Integration, B | Needed for Variant B |
| Material | RMME13 | RAW13, MTS, ME Integration, B | Needed for Variant B |
| Material | RMME14 | RAW14, MTS, ME Integration, B | Needed for Variant B |
| Material | RMME15 | RAW15, MTS, ME Integration, B | Needed for Variant B |
| Material | RMME16 | RAW16, MTS, ME Integration, B | Needed for Variant B |
| Plant | 1010 | Plant 1 DE | Needed for Variant A and B |
| Storage Location | 101A | Std. storage 1 | Needed for Variant A and B |
| Storage Location | 101B | Std. storage 2 | Needed for Variant A and B |
| Storage Location | 101C | Raw mat. sto. loc. | Needed for Variant A and B |
| Work Center | MEASSY | Assembly, ME Integration | Needed for Variant A and B |

Bill of Material Structure

This overview shows the Bill of Material structure and the usage of each component if you’ve activated all optional enhancements.

The Bill of Material master data presents two different lines in SAP ME. Variant A describes line A and Variant B describes the more complex line B.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Material | Level | Material Type | Unit | Characteristics of Material | Optional Enhancements |
| FGME01 | 0 | FERT | EA | FIN01, MTS, ME Integration, A | Needed for Variant A |
| SGME01 | 1 | SEMI | EA | SEMI01, MTS, ME Integration, A | Needed for Variant A |
| RMME01 | 2 | RAW | EA | RAW01, MTS, ME Integration, A | Needed for Variant A |
| RMME02 | 2 | RAW | EA | RAW02, MTS, ME Integration, A | Needed for Variant A |
| RMME03 | 1 | RAW | EA | RAW03, MTS, ME Integration, A | Needed for Variant A |
| RMME05 | 1 | RAW | EA | RAW05, MTS, ME Integration, A | Needed for Variant A |
| RMME07 | 1 | RAW | EA | RAW07, MTS, ME Integration, A | Needed for Variant A |
| FGME02 | 0 | FERT | EA | FIN02, MTS, ME Integration, A | Needed for Variant A |
| SGME02 | 1 | SEMI | EA | SEMI02, MTS, ME Integration, A | Needed for Variant A |
| RMME01 | 2 | RAW | EA | RAW01, MTS, ME Integration, A | Needed for Variant A |
| RMME02 | 2 | RAW | EA | RAW02, MTS, ME Integration, A | Needed for Variant A |
| RMME04 | 1 | RAW | EA | RAW04, MTS, ME Integration, A | Needed for Variant A |
| RMME06 | 1 | RAW | EA | RAW06, MTS, ME Integration, A | Needed for Variant A |
| RMME08 | 1 | RAW | EA | RAW08, MTS, ME Integration, A | Needed for Variant A |
| FGME03 | 0 | FERT | EA | FIN03, MTS, ME Integration, B | Needed for Variant B |
| SGME03 | 1 | SEMI | EA | SEMI03, MTS, ME Integration, B | Needed for Variant B |
| RMME10 | 2 | RAW | EA | RAW10, MTS, ME Integration, B | Needed for Variant B |
| RMME11 | 2 | RAW | EA | RAW11, MTS, ME Integration, B | Needed for Variant B |
| SGME04 | 1 | SEMI | EA | SEMI04, MTS, ME Integration, B | Needed for Variant B |
| RMME12 | 2 | RAW | EA | RAW12, MTS, ME Integration, B | Needed for Variant B |
| RMME13 | 1 | RAW | EA | RAW13, MTS, ME Integration, B | Needed for Variant B |
| RMME14 | 1 | RAW | EA | RAW14, MTS, ME Integration, B | Needed for Variant B |
| RMME15 | 1 | RAW | EA | RAW15, MTS, ME Integration, B | Needed for Variant B |
| FGME04 | 0 | FERT | EA | FIN04, MTS, ME Integration, B | Needed for Variant B |
| SGME03 | 1 | SEMI | EA | SEMI03, MTS, ME Integration, B | Needed for Variant B |
| RMME10 | 2 | RAW | EA | RAW10, MTS, ME Integration, B | Needed for Variant B |
| RMME11 | 2 | RAW | EA | RAW11, MTS, ME Integration, B | Needed for Variant B |
| SGME04 | 1 | SEMI | EA | SEMI04, MTS, ME Integration, B | Needed for Variant B |
| RMME12 | 2 | RAW | EA | RAW12, MTS, ME Integration, B | Needed for Variant B |
| RMME13 | 1 | RAW | EA | RAW13, MTS, ME Integration, B | Needed for Variant B |
| RMME14 | 1 | RAW | EA | RAW14, MTS, ME Integration, B | Needed for Variant B |
| RMME16 | 1 | RAW | EA | RAW16, MTS, ME Integration, B | Needed for Variant B |

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.

You can find more information on how to create master data objects in 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" |
| BNJ | Create Production Work Center |
| BNK | Create Material BOM for Production and Sales |
| BNL | Create Routing |
| BLD | Create Production Version |

## Additional Manual Configuration

Before you can test this scope item, you must have completed the additional configuration steps that are described in the Set-Up Instructions for this scope item. These configuration steps are specific for your implementation and include mandatory settings that are not delivered by SAP and must be created by you. For more information, refer to the Set-Up Instructions for this scope item on [SAP Best Practices Explorer](https://rapid.sap.com/bp) (https://rapid.sap.com/bp/#/browse/scopeitems/<enter the scope item ID>).

## Business Conditions

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

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BEG - Standard Cost Calculation | You’ve completed the step described in the Standard Cost Calculation (BEG) test script. |
| BNZ - Create New Open MM Posting Period | You’ve completed the step described in the Create New Open MM Posting Period (BNZ) master data script. Posting Period is up to date. |
| 1QG - Recipe Handover to Production - Bill of Material (Optional) | If you’re going to carry out Make-to-Stock Production - Discrete Manufacturing (BJ5) with Product Lifecycle Management Process Industry sample master data, you must have completed the step described in Recipe Handover to Production - Bill of Material (1QG) to synchronize the recipe into a Bill of Material. You can use this Bill of Material in this test script to create a production order. |

## Preliminary Steps

### Roll MM Period to Current Period

Purpose

Carry out this activity only if the MM period in the SAP S/4HANA system is not set to the current period. Usually, you would have to carry out this activity once a month.

Prerequisites

Make sure that your individual user has the authorization to carry out the following preliminary steps.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to SAP S/4HANA Back-End System | Log on to the SAP S/4HANA back-end system. |  |  |
| 2 | Select Transaction | Choose Logistics > Materials Management > Material Master > Other > Close Period or use transaction code MMPV. | The Close Period for Material Master Records screen is displayed. |  |
| 3 | Roll MM Period to Current Period | Enter the following data:  From company code: 1010  To company code: 1010  Period: <current month>  Fiscal year: <current fiscal year>  Then, choose Execute. | The posting period has been rolled for the current period. |  |

### Create Initial Material Stock

Purpose

In a real business case, the materials are usually purchased from external vendors. However, in this specific case, the process will be covered by the SAP S/4HANA standard purchasing or subcontracting processes. Linked to this prerequisite, the initial stock will be posted directly to the storage locations.

Prerequisites

Make sure that your individual user has the authorization to carry out the following preliminary steps.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Warehouse Clerk. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Post Goods Movement (MIGO). |  |  |
| 3 | Choose Document Type | On the Post Goods Movement (MIGO) screen, select Goods Receipt and Others.  Special Stock Indicator must be blank. |  |  |
| 4 | Specify Material | In the Detail Data section, make the following entries and press Enter. Choose Next Item and select Item OK to add entries.  On the Where tab:  Movement type: 561  Plant: 1010  Storage Location: 101C for RMMExx materials  On the Quantity tab:  Quantity: <Quantity>, for example, <100 EA>  On the Material tab:  Material: Material number  Post stock only for RMMExx materials. Semifinished goods are phantom groups and therefore they don’t need an initial stock. | For a detailed materials list, see the Bill of Materials Structure list in the [Master Data, Organizational Data, and Other Data](#unique_5) [page ] 6 section. |  |
| 5 | Check | Choose Check. | The document is OK. |  |
| 6 | Post | Choose Post. | Material document XXX is posted and materials are available in stock. |  |

If the process was already carried out, we recommend you to check the stock for FGME01, FGME02, FGME03, and FGME04. To check, log on to the SAP Fiori launchpad as a Production Planner and open Check Material Coverage (F0251). If there’s sufficient stock, remove some stock. To remove stock, please refer to the Core Inventory Management (BMC) scope item to the General Stock Scrapping: Goods Issue to Cost Center section. Otherwise, no planned orders are generated later. After removing some stock, run the test again.

You can either post initial stock directly to the storage location or refer to the Procurement of Direct Materials (J45) or Scheduling Agreements in Procurement (BMR) test scripts.

# 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 |
| [Maintain Planned Independent Requirements (Variant A)](#unique_11) [page ] 17 | Production Planner | Maintain PIRs (F3445) | You’ve maintained PIRs for the FGME01 material. |
| [Maintain Planned Independent Requirements (Variant B)](#unique_12) [page ] 19 | Production Planner | Maintain PIRs (F3445) | You’ve maintained PIRs for the FGME03 material. |
| [Carry Out Material Requirements Planning at Plant Level (Variant A)](#unique_13) [page ] 20 | Production Planner | Schedule MRP Runs (F1339) | You’ve created a new job for material requirements planning for the FGME01 material. |
| [Carry Out Material Requirements Planning at Plant Level (Variant B)](#unique_14) [page ] 22 | Production Planner | Schedule MRP Runs (F1339) | You’ve created a new job for material requirements planning for the FGME03 material. |
| [Evaluate Stock/Requirements Situation (Variant A)](#unique_15) [page ] 24 | Production Planner | Monitor Material Coverage - Net Segments (F0247A) | You’ve checked the stock/requirements situation for the FGME01 material. |
| [Evaluate Stock/Requirements Situation (Variant B)](#unique_16) [page ] 27 | Production Planner | Monitor Material Coverage - Net Segments (F0247A) | You’ve checked the stock/requirements situation for the FGME03 material. |
| [Carry Out Conversion to Production Orders for Final Assembly (Variant A)](#unique_17) [page ] 29 | Production Planner | Check Material Coverage (F0251) | You’ve converted the planned order to a production order for the FGME01 material. |
| [Carry Out Conversion to Production Orders for Final Assembly (Variant B)](#unique_18) [page ] 31 | Production Planner | Check Material Coverage (F0251) | You’ve converted the planned order to a production order for the FGME03 material. |
| [Review Material Availability Status for Production Orders (Variant A)](#unique_19) [page ] 32 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | You’ve reviewed the material availability status for the FGME01 material. |
| [Review Material Availability Status for Production Orders (Variant B)](#unique_20) [page ] 34 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | You’ve reviewed the material availability status for the FGME03 material. |
| [Stage Materials for Final Assembly (Variant A and B)](#unique_21) [page ] 36 | Production Operator - Discrete Manufacturing | Stage Materials for Production (MF60) | You’ve staged materials for production. |
| [Release Production Order for Final Assembly (Variant A)](#unique_22) [page ] 38 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | You’ve released the production order for the FGME01 material. |
| [Release Production Order for Final Assembly (Variant B)](#unique_23) [page ] 40 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | You’ve released the production order for the FGME03 material. |
| [Check Production Order Transfer (Optional, Variant A and B)](#unique_24) [page ] 42 | Production Administrator | n/a | You‘ve checked if the production order was successfully transferred to the ME system. |
| [Assign Routing (Variant A)](#unique_25) [page ] 43 | Production Assembler | n/a | You’ve assigned the routing and saved the shop floor order for the FGME01 material. |
| [Assign Routing (Variant B)](#unique_26) [page ] 45 | Production Assembler | n/a | You’ve assigned the routing and saved the shop floor order for the FGME03 material. |
| [Release Shop Order (Variant A and B)](#unique_27) [page ] 46 | Production Assembler | n/a | You’ve released the shop order. |
| [Open Line Monitor (Variant A)](#unique_28) [page ] 48 | Production Administrator | n/a | You’ve reviewed the current status of the production line. |
| [Open Line Monitor (Variant B)](#unique_29) [page ] 49 | Production Administrator | n/a | You’ve reviewed the current status of the production line. |
| [Start OPC Server (Variant A)](#unique_30) [page ] 50 | Production Administrator | n/a | You’ve started the OPC server. |
| [Start OPC Server (Variant B)](#unique_31) [page ] 51 | Production Administrator | n/a | You’ve started the OPC server. |
| [Log On to the Server Where the SAP Plant Connectivity Is Running (Variant A)](#unique_32) [page ] 52 | Production Administrator | n/a | You’ve enabled the simulation. |
| [Log On to the Server Where the SAP Plant Connectivity Is Running (Variant B)](#unique_33) [page ] 54 | Production Administrator | n/a | You’ve enabled the simulation. |
| [Simulate Production Process (Variant A)](#unique_34) [page ] 55 | Production Administrator | n/a | You’ve monitored the simulated processing of the SFC in the line monitor. |
| [Simulate Production Process Manually (Variant A)](#unique_35) [page ] 57 | Production Administrator | n/a | You’ve simulated the production process manually. |
| [Post Rejected SFC to Scrap (Optional, Variant A)](#unique_36) [page ] 68 | Production Assembler | n/a | The rejected SFC has been posted to scrap. |
| [Review Production Order (Variant A)](#unique_37) [page ] 69 | Production Supervisor - Discrete Manufacturing | Manage Production Operations (F2335) | You’ve reviewed the production order for the FGME01 material. |
| [Review Production Order (Variant B)](#unique_38) [page ] 71 | Production Supervisor - Discrete Manufacturing | Manage Production Operations (F2335) | You’ve reviewed the production order for the FGME03 material. |
| [Check Serial Numbers (Variant A and B)](#unique_39) [page ] 74 | Production Operator - Discrete Manufacturing | Display Production Order (CO03) | The serial numbers for Finished Goods are generated. |
| [Preview Goods Receipt Slip and Label (Optional, Variant A)](#unique_40) [page ] 75 | Warehouse Clerk | Material Documents Overview (F1077) | You’ve previewed the goods receipt slip and label for the FGME01 material. |
| [Preview Goods Receipt Slip and Label (Optional, Variant B)](#unique_41) [page ] 76 | Warehouse Clerk | Material Documents Overview (F1077) | You’ve previewed the goods receipt slip and label for the FGME03 material. |
| [Review Scrap Report (Variant A and B)](#unique_42) [page ] 78 | Production Assembler | n/a | You’ve reviewed the material scrap report. |

# Test Procedures

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

The test procedures cover two different lines. Variant A describes the process of line A and Variant B describes the process of the more complex line B.

## Anonymous Forecast and MRP

### Maintain Planned Independent Requirements (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

Planned independent requirements (PIRs) are 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, such as one planned quantity split over time according to dates.

Instead of creating a single requirement, sometimes a requirements 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 to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Maintain PIRs (F3445). | The Maintain PIRs (F3445) screen is displayed. |  |
| 3 | Check Default Setting | Choose the user icon, and select App Settings. In the MRP Settings dialog box, choose Area of Responsibility.  Check that only the following entry is displayed:  Plant 1 DE (1010)  001 (MRP Controller 001)  Choose + to add this entry if not displayed. Choose the Delete icon to remove any other plant entries, then choose Save. | If this entry is not listed in the Area of Responsibility dialog box , choose Add to select it and then choose OK. For all other plant entries, choose Delete to remove them and then choose OK. |  |
| 4 | Enter Filter Criteria | On the Maintain PIRs (F3445) screen, enter the following data:  Plant: 1010  Period Indicator: Weekly (W)  Search: FGME01 |  |  |
| 5 | Filter Result | Choose Go. | The material is listed in the table. |  |
| 6 | Select Material | Select the checkbox for the material and choose Edit PIRs at the top right of the table. |  |  |
| 7 | Edit PIRs | On the Edit PIRs screen, enter quantities per period.  Enter 100 in the current month. |  |  |
| 8 | Save PIRs | Choose Save at the bottom right. | The PIRs are saved. |  |

### Maintain Planned Independent Requirements (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

Planned independent requirements (PIRs) are 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, such as one planned quantity split over time according to dates.

Instead of creating a single requirement, you can sometimes maintain a requirements plan that includes one or more planned independent requirements 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 to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Maintain PIRs (F3445). | The Maintain PIRs (F3445) screen is displayed. |  |
| 3 | Check Default Setting | Choose the user icon, and select App Settings. In the MRP Settings dialog box, choose Area of Responsibility.  Check that only the following entry is displayed:  Plant 1 DE (1010)  001 (MRP Controller 001)  Choose + to add this entry if not displayed. Choose the Delete icon to remove any other plant entries, then choose Save. | If this entry is not listed in the Area of Responsibility dialog box , choose Add to select it and then choose OK. For all other plant entries, choose Delete to remove them and then choose OK. |  |
| 4 | Enter Filter Criteria | On the Maintain PIRs (F3445) screen, enter the following data:  Plant: 1010  Period Indicator: Weekly (W)  Search: FGME03 |  |  |
| 5 | Filter Result | Choose Go. | The material is listed in the table. |  |
| 6 | Select Material | Select the checkbox for the material and choose Edit PIRs at the top right of the table. |  |  |
| 7 | Edit PIRs | On the Edit PIRs screen, enter quantities per period.  Enter 100 in the current month. |  |  |
| 8 | Save PIRs | Choose Save at the bottom right. | The PIRs are saved. |  |

### Carry Out Material Requirements Planning at Plant Level (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The aim of material requirements planning is to tailor available capacities and receipts on time to suit requirement quantities. You can use MRP or consumption-based planning for this purpose. Single-item multi-level requirement planning is carried out for plant 1010.

Prerequisite

The Finished Good FIN01, MTS, ME Integration, A (FGME01) is planned at plant level. There’s now a requirement for the Finished Good FIN01, MTS, ME Integration, A (FGME01) material in plant 1010.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Schedule MRP Runs (F1339). | The Application Jobs screen displays. |  |
| 3 | Create New Job | ChooseCreate.  On the New Job screen, make the following entries.  For 1. Template Sectionsection:  Job Template: Material Requirements Planning (MRP)  Job Name: MRP for FGME01  Choose Step 2.  For 2. Scheduling Options section:  Start Immediately: Selected  Choose Define Recurrence Pattern.  In the Scheduling Information dialog box, make the following entries:  Start Immediately: Selected  Recurrence Pattern: Single Run  Choose OK.  Choose Step 3.  Choose 4 Parameters and make the following entries:  For Parameters section:  Plant: 1010  Material: FGME01  Changed BOM Components: Selected  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 Table | To check the status of the job that you created, search for MRP for FGME01 job name, and choose Go at the top right corner of the screen. | The new job is created and will display in the Application Jobs table.  The Application Jobs table is refreshed. |  |

### Carry Out Material Requirements Planning at Plant Level (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The aim of material requirements planning is to tailor available capacities and receipts on time to suit requirement quantities. You can use MRP or consumption-based planning for this purpose. Single-item multi-level requirement planning is carried out for plant 1010.

Prerequisite

Finished Good FIN03, MTS, ME Integration, B (FGME03) is planned at plant level. There’s now a requirement for the Finished Good FIN03, MTS, ME Integration, B (FGME03) material in plant 1010.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad is displayed. |  |
| 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 Section section:  Job Template: Material Requirements Planning (MRP)  Job Name: MRP for FGME03  Choose Step 2.  For 2. Scheduling Options section:  Start Immediately: Selected  Choose Define Recurrence Pattern.  In the Scheduling Information dialog box, make the following entries:  Start Immediately: Selected  Recurrence Pattern: Single Run  Choose OK.  Choose Step 3.  Choose 4 Parameters and make the following entries:  For Parameters section:  Plant: 1010  Material: FGME03  Changed BOM Components: Selected  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 Table | To check the status of the job that you created, search for MRP for FGME03 job name, and choose Go in the top right corner of the screen. | The new job is created and will display in the Application Jobs table.  The Application Jobs table is refreshed. |  |

### Evaluate Stock/Requirements Situation (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

After you’ve carried out the requirements planning, you want to display the stock/requirements situation for the Finished Good FIN01, MTS, ME Integration, A (FGME01) in the stock/requirements list.

Prerequisite

You’ve carried out the requirements planning.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad is displayed. |  |
| 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 | Search in the Material bar, select the following materials and then choose Manage Materials at the bottom right of the screen:  Material: FGME01 | The Material and Material Details subscreens display. |  |
| 4 | Review Stock / Requirements List | Select the corresponding material on the Material screen on the left side. | The detailed Stock / Requirements List for each material displays. |  |
| 5 | Display Planned Order | From the list on the Material screen on your left, select the material for which you want to check the planned order.  Material: FGME01  On the Material Details subscreen, choose PldOrd XXXX in the MRP Element column.  The BOM explosion during the MRP run has generated dependent requirements for the demand-driven planned components. If there is not enough inventory to fulfill the requirements, planned orders and purchase requisitions are created for both inhouse-produced and externally-procured materials.  Depending on the elements created in the MRP run, refer to Procurement of Direct Materials (J45) or Scheduling Agreements in Procurement (BMR) test scripts for processing externally-procured materials. | The selected planned order is displayed.  If there’s no shortage for those materials, the planned order won’t be generated.  If you want to display more information on the planned order, choose Open... > Planned Order at the bottom right of the dialog box. |  |
| 6 | Rescheduling Check (Optional) | On the Stock/Requirements List tab, the Rescheduling column displays the rescheduling status of the following MRP elements:   * PurReq * Purchase Orders * Planned Orders * Production Orders * Process Orders   If needed,you can choose the following icons in the Rescheduling column for corresponding functions:   * Reschedule in (bring operation forward if the receipt element lies after the requirement date) * Reschedule Out (postpone operation, if the receipt element lies before the requirement date) * Plan Process according to schedule * Cancel Process * Excess Stock * Excess in individual segment | Corresponding actions perform. |  |

### Evaluate Stock/Requirements Situation (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

After you’ve carried out the requirement planning, you want to display the stock/requirements situation for the Finished Good FIN03, MTS, ME Integration, B (FGME03) in the stock/requirements list.

Prerequisite

You’ve carried out the requirements planning.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad is displayed. |  |
| 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 | Search in the Material bar, select the following materials and then choose Manage Materials at the bottom right of the screen:  Material: FGME03 | The Material and Material Details subscreens display. |  |
| 4 | Review Stock / Requirements List | Select the corresponding material on the Material screen on the left side. | The detailed Stock / Requirements List for each material displays. |  |
| 5 | Display Planned Order | From the list under Materials on your left, select the material for which you want to check the planned order.  Material: FGME03  On the Material Details subscreen, choose PldOrd XXXX in the MRP Element column.  The BOM explosion during the MRP run has generated dependent requirements for the demand-driven planned components. If inventory does not cover the requirements, purchase requisitions for externally procured materials are created. To continue processing externally procured materials, please carry out the Procurement of Direct Materials (J45) or Scheduling Agreements in Procurement (BMR) test scripts, depending on the element created in the MRP run. | The selected planned order displays.  If there’s no shortage for those materials, the planned order won’t be generated.  If you want to display more information on the planned order, choose Open... > Planned Order at the bottom right of the dialog box. |  |
| 6 | Rescheduling Check (Optional) | In the Stock/Requirements List, the Rescheduling column displays the rescheduling status of the following MRP elements:   * PurReq * Purchase Orders * Planned Orders * Production Orders * Process Orders   If needed,you can choose the following icons in the Rescheduling column for corresponding functions:   * Reschedule in (Bring operation forward if the receipt element lies after the requirement date) * Reschedule Out (Postpone operation, if the receipt element lies before the requirement date) * Plan Process according to schedule * Cancel Process * Excess Stock * Excess in individual segment | Corresponding actions perform. |  |

## Production Order Conversion and Available-To-Promise Check

### Carry Out Conversion to Production Orders for Final Assembly (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The daily MRP run creates planned orders for goods that are to be produced internally. When the planned opening date is reached, the planned orders are converted to production orders for both semifinished and finished goods.

Prerequisite

The MRP run has generated planned orders for the Finished Good FIN01, MTS, ME Integration, A (FGME01) material.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Check Material Coverage (F0251). | The Find Material dialog box is displayed. |  |
| 3 | Select Material | Make the following entries:  Material: FGME01  Plant: 1010  Shortage Definition: MRP Standard  Then, choose OK. | The Manage Material Coverage screen is displayed. |  |
| 4 | Find Planned Order | Choose the generated planned order. | The order information is displayed.  If no planned orders were generated, there’s sufficient stock for material FGME01. Remove stock for material FGME01 and run MRP again. |  |
| 5 | Convert Planned Order to Production Order | Select Convert from Edit dropdown list in the Action column for a planned order (PldOrd XXXX).  In the Convert Planned Order XXXX dialog box, choose Convert to Production Order radio button, confirm End Date and Quantity. Choose OK. | You’ve created the production order. Note down the number for further usage. |  |

### Carry Out Conversion to Production Orders for Final Assembly (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The daily MRP run creates planned orders for goods that are to be produced internally. When the planned opening date is reached, the planned orders are converted to production orders for both semifinished and finished goods.

Prerequisite

The MRP run has generated planned orders for the Finished Good FIN03, MTS, ME Integration, B (FGME03) material.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Check Material Coverage (F0251). | The Find Material dialog box is displayed. |  |
| 3 | Select Material | Make the following entries:  Material: FGME03  Plant: 1010  Shortage Definition: MRP Standard  Then, choose OK. | The Manage Material Coverage screen is displayed. |  |
| 4 | Find Planned Order | Choose the generated planned order. | The order information is displayed.  If no planned orders were generated, there’s sufficient stock for material FGME03. Remove stock for material FGME03 and run MRP again. |  |
| 5 | Convert Planned Order to Production Order | Select Convert from Edit dropdown list in the Action column for a planned order (PldOrd XXXX).  In the Convert Planned Order XXXX dialog box, choose Convert to Production Order radio button, confirm End Date and Quantity. Choose OK. | You’ve created the production order. Note down the number for further usage. |  |

### Review Material Availability Status for Production Orders (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Prerequisite

The production orders for subassembly and final assembly have been created.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Manage Production Orders (F2336). |  |  |
| 3 | Check the Default for Area of Responsibility (Work Center) | On the Manage Production Orders (F2336) screen, choose your avatar (at the top left) and choose App Settings. In the App Settings dialog box, choose Production Supervisor, select Work Center and choose OK. Then, choose the arrow icon. Check that only the following entry is displayed:  Plant 1 DE (1010)  Assembly, ME Integration (MEASSY) | If there’s no Plant 1 DE (1010) entry in the Area of Responsibility (Work Center) dialog box, choose Add to select it and then choose OK.  For other plant entries in the Area of Responsibility (Work Center) dialog box, choose Delete to remove them and choose OK. |  |
| 4 | Select Production Order | On the Manage Production Orders (F2336) screen, enter the following search conditions as filters.  Choose Adapt Filters to display more selection filters. Choose More filters under Material and Planning Plant.Select the checkbox for Material and Plant and choose Go. Then, choose OK. The Material and Production Production Plant fields are added to the filter bar.  Status: Created  Material: FGME01  Plant: 1010 Production Plant  Choose Go. |  |  |
| 5 | Review Material Availability Status | In the Issue column, choose the Component Issue icon to display the missing components.  On the next screen, scroll down to the Components list and choose Missing to display missing parts. | According to the [Create Initial Material Stock](#unique_9) [page ] 11 section, there should be no missing components.  However, it’s also possible that raw materials are missing parts if the test script was carried out several times. |  |

### Review Material Availability Status for Production Orders (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Prerequisite

The production orders for subassembly and final assembly have been created.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Manage Production Orders (F2336). |  |  |
| 3 | Check the Default for Area of Responsibility (Work Center) | On the Manage Production Orders (F2336) screen, choose your avatar (at the top left) and choose App Settings. In the App Settings dialog box, choose Production Supervisor, select Work Center and choose OK. Then, choose the arrow icon. Check that only the following entry is displayed:  Plant 1 DE (1010)  Assembly, ME Integration (MEASSY) | If there’s no Plant 1 DE (1010) entry in the Area of Responsibility (Work Center) dialog box, choose Add to select it and then choose OK.  For other plant entries in the Area of Responsibility (Work Center) dialog box, choose Delete to remove them and choose OK. |  |
| 4 | Select Production Order | On the Manage Production Orders (F2336) screen, enter the following search conditions as filters.  Choose Adapt Filters to display more selection filters. Choose More filters under Material and Planning Plant. Select the checkbox for Material and Plant and choose Go. Then, choose OK. The Material and Production Production Plant fields are added to the filter bar.  Status: Created  Material: FGME03  Plant: 1010 Production Plant  Choose Go. |  |  |
| 5 | Review Material Availability Status | In the Issue column, choose the Component Issue icon to display the missing components.  On the next screen, scroll down to the Components list and choose Missing to display missing parts. | According to the [Create Initial Material Stock](#unique_9) [page ] 11 section, there should be no missing components.  However, it’s also possible that raw materials are missing parts if the test script was carried out several times. |  |

## Production Order Processing for Final Assembly

### Stage Materials for Final Assembly (Variant A and B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you stage materials for production. If there’s sufficient stock available in the production storage location, no line items are generated.

Prerequisite

Stock must be available.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Stage Materials for Production (MF60). | The Material Staging for Planned Orders screen is displayed. |  |
| 3 | Enter Details | Make the following entries and choose Execute at the bottom right.  Staging Types  Activate the SLoc Level checkbox.  Plant: 1010  Selection Horizon for Reqmts: The date must be in the future - after the scheduled start date of the production order.  Choose the Production/Process Orders tab.  Production Orders/Process Orders  Order: <Production Order Number> | The Pull List: Storage Location Level screen is displayed. |  |
| 4 | Choose Replenishment Proposal | In the Total Reqmts table, select the line items and choose Replenishment Proposal at the top of the screen.  If you don’t see line items, make sure that the date of the selection horizon is after the scheduled start date of the production order. |  |  |
| 5 | Choose Replenishment Elements | Review the staged quantity and choose Replenishment Elements. |  |  |
| 6 | Enter Replenishment Storage Location | In the Replen. Element table, in the RepLoc column, enter 101C for staged materials. |  |  |
| 7 | Choose Stage | Choose Stage in the center of the screen. |  |  |
| 8 | Save | Choose Save. | Missing materials are transferred to the shop floor from the designated storage area. The shortage of raw material for final assembly production order is supplied with this step. |  |

### Release Production Order for Final Assembly (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

A release at order operation level results in the order and all its operations being released. The order and the operations receive the REL status (released).

Prerequisite

The production order created by the MRP controller has been 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 to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Manage Production Orders (F2336). |  |  |
| 3 | Check the Default for Area of Responsibility (Work Center) | On the Manage Production Orders (F2336) screen, check the following default:  Choose your avatar (at the top left). Then choose App Settings > Production Supervisor. Select Work Center from the dropdown list and choose OK. Then, choose the arrow icon. Check that only this entry is displayed:  Plant 1 DE (1010)  Assembly, ME Integration (MEASSY) | If there’s no Plant 1 DE (1010) entry in the Area of Responsibility (Work Center) dialog box, choose Add Plant and Work Center to select it and then choose OK .  For other plant entries in the Area of Responsibility (Work Center) dialog box, choose Delete to remove them and then choose OK. |  |
| 4 | Select Production Order | On the Manage Production Orders screen, choose Adapt Filters to display more filter options. In the Adapt Filters dialog box, choose More filters. Select Material and Production Plant and choose OK. Choose Go.  Enter the following filter criteria, and choose Go:  Status: Created  Material: FGME01  Plant: 1010 | The Material and Production Plant fields are added to filter bar.  The searched order displays. |  |
| 5 | Release | Check the selected order. Choose Release in the top right corner. | You’ve released the order. Note down the production order number.  If the Release Order screen pops up and says Non-Availability of Material, it means that you have not made sufficient stock for FGME01’s components. You can choose Release Order in the dialog box to force the order to be released. Or you can carry out preliminary steps to make initial material stock posting and complete the production order processing for semi-finished goods and come back to release this order again. |  |

### Release Production Order for Final Assembly (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

A release at order operation level results in the order and all its operations being released. The order and the operations receive the REL status (released).

Prerequisite

The production order created by the MRP controller has been 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 to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the App | Open Manage Production Orders (F2336). |  |  |
| 3 | Check the Default for Area of Responsibility (Work Center) | On the Manage Production Orders (F2336) screen, check the following default:  Choose your avatar (at the top left). Then choose App Settings > Production Supervisor. Select Work Center from the dropdown list and choose OK. Then, choose the arrow icon. Check that only this entry is displayed:  Plant 1 DE (1010)  Assembly, ME Integration (MEASSY) | If there’s no Plant 1 DE (1010) entry in the Area of Responsibility (Work Center) dialog box, choose Add Plant and Work Center to select it and then choose OK .  For other plant entries in the Area of Responsibility (Work Center) dialog box, choose Delete to remove them and then choose OK. |  |
| 4 | Select Production Order | On the Manage Production Orders screen, choose Adapt Filters to display more filter options. In the Adapt Filters dialog box, choose More filters. Select Material and Production Plant and choose OK. Choose Go.  Enter the following filter criteria, and choose Go:  Status: Created  Material: FGME03  Plant: 1010 | The Material and Production Plant fields are added to the filter bar.  The searched order displays. |  |
| 5 | Release | Check the selected order. Choose Release in the top right corner. | You’ve released the order. Note down the production order number.  If the Release Order screen pops up and says Non-Availability of Material, it means that you have not made sufficient stock for FGME03’s components. You can choose Release Order in the dialog box to force the order to be released. Or you can carry out preliminary steps to make initial material stock posting and complete the production order processing for semi-finished goods and come back to release this order again. |  |

### Check Production Order Transfer (Optional, Variant A and B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

Upon release of the production order for the subassembly in SAP S/4HANA (status=REL), the order is transferred to the SAP ME system. For this solution, the automated transfer process (DRF) will be used.

Prerequisites

The appropriate background processes to transfer the production orders to SAP ME from SAP S/4HANA have been configured and scheduled in SAP MII systems.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to SAP MII | Log on to the SAP MII/ME system (for example, http://mo-06db2707d.mo.sap.corp:50000/XMII) as a Production Administrator. | The MII start screen is displayed. |  |
| 2 | Start Queue Monitor | In the SAP MII menu, choose SAP ME ERP Integration > Monitoring > Queue Monitor – Standard . | The Queue Monitor screen is displayed. |  |
| 3 | Display Production Order List | On the Queue Monitor screen, enter LOIPRO04 in the Document Type field and optionally a date range such as the current date.  Choose Search. | Production orders that were successfully sent from SAP S/4HANA and received in SAP MII are shown in the display table.  If the order was sent to SAP MII but not yet transferred to SAP ME, the record has the QUEUED status.  If the order was successfully transferred to SAP ME, the record has the PASSED status.  If the order was not successfully sent to SAP ME, the status will be FAILED. You can choose Trace to view details about the error. |  |

### Assign Routing (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this step, you assign the shop floor specific routing.

Prerequisites

The production order is downloaded to SAP ME but not yet released.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to SAP MII/ME | Log on to the SAP ME system (for example, http://mo-06db2707d.mo.sap.corp:50000/manufacturing) as a Production Assembler. | The ME start screen is displayed. |  |
| 2 | Start Shop Order Maintenance | In the SAP ME menu, choose Production > Product > Shop Order Maintenance . | The Shop Order Maintenance screen is displayed. |  |
| 3 | Retrieve Shop Order | On the Shop Order Maintenance screen, make the following entries:  Site: 1010  Shop Order: <your shop order number>  Use the production order number from the Save test step in section [Release Production Order for Final Assembly (Variant A)](#unique_22) [page ] 38.  You can also use the Browse icon to find your shop order.  Choose Retrieve. | Production orders that were successfully sent from SAP S/4HANA and received in SAP MII are shown in the display table.  If the order was sent to SAP MII but not yet transferred to SAP ME, the record has the QUEUED status.  If the order was successfully transferred to SAP ME, the record has the PASSED status.  If the order was not successfully sent to SAP ME, the status will be FAILED. You can choose Trace to view details about the error. |  |
| 4 | Assign Routing | In the Planned Routing field, replace the current value by FGME01 (for the current version) and choose Save. | You’ve assigned the routing and saved the shop floor order. |  |

### Assign Routing (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this step, you assign the shop floor specific routing.

Prerequisites

The production order is downloaded to SAP ME but not yet released.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to SAP MII/ME | Log on to the SAP ME system (for example, http://mo-06db2707d.mo.sap.corp:50000/manufacturing) as a Production Assembler. | The ME start screen is displayed. |  |
| 2 | Start Shop Order Maintenance | In the SAP ME menu, choose Production > Product > Shop Order Maintenance . | The Shop Order Maintenance screen is displayed. |  |
| 3 | Retrieve Shop Order | On the Shop Order Maintenance screen, make the following entries:  Site: 1010  Shop Order: <your shop order number>  Use the production order number from the Save test step in section [Release Production Order for Final Assembly (Variant B)](#unique_23) [page ] 40.  You can also use the Browse icon to find your shop order.  Choose Retrieve. | Production orders that were successfully sent from SAP S/4HANA and received in SAP MII are shown in the display table.  If the order was sent to SAP MII but not yet transferred to SAP ME, the record has the QUEUED status.  If the order was successfully transferred to SAP ME, the record has the PASSED status.  If the order was not successfully sent to SAP ME, the status will be FAILED. You can choose Trace to view details about the error. |  |
| 4 | Assign Routing | In the Planned Routing field, replace the current value by FGME03 and choose Save. | You’ve assigned the routing and saved the shop floor order. |  |

### Release Shop Order (Variant A and B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In SAP ME, the shop order release activity releases the shop order and creates the SFCs that have either been assigned to that order in SAP S/4HANA or will be created by SAP ME. The shop order has the Releasable status and the SFCs have the New status. You can edit selected attributes of the shop order such as the release quantity, scheduled start and end dates, and planned work center (line).

Prerequisites

The production order created by the MRP controller has been successfully transferred to SAP ME and a corresponding shop order has been created.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP MII/ME | Log on to the SAP ME system (for example, http://mo-06db2707d.mo.sap.corp:50000/manufacturing) as a Production Planner. | The ME start screen is displayed. |  |
| 2 | Start Shop Order Maintenance | In the SAP ME menu, choose Production > Advanced > Shop Order Release . | The Shop Order Release screen is displayed. |  |
| 3 | Retrieve Shop Order | On the Shop Order Release screen, enter your shop order number in the Shop Order field.  You can also use the Browse icon to find your shop order.  Choose Retrieve. |  |  |
| 4 | Release Shop Order | In the Qty to Release field, enter 1.  Choose Release.  Note down the SFC number. It’s needed to simulate the production process manually (see the [Simulate Production Process Manually (Variant A)](#unique_35) [page ] 57 section). | The screen refreshes and the shop order release details appear, showing the shop order, the quantity released, the first and last SFC sequence for the order, the material, the routing, and the operation where the SFCs are in queue initially. |  |

### Open Line Monitor (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you open the line monitor to control the production line and to check the machine status before starting a new SFC.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to SAP MII/ME | Log on to the SAP ME system (for example, http://mo-06db2707d.mo.sap.corp:50000/manufacturing) as a Production Administrator. |  |  |
| 2 | Start Line Monitor | In the SAP ME menu, choose Production > Product > Line Monitor for Connected Manufacturing .  You can also open the Line Monitor screen in a new window.  To do this, right-click Line Monitor for Connected Manufacturing and select Open link in new window. | The Line Monitor screen is displayed.  The production planner can review the current status of the production line. |  |

### Open Line Monitor (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you open the line monitor to control the production line and to check the machine status before starting a new SFC.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to SAP MII/ME | Log on to the SAP ME system (for example, http://mo-06db2707d.mo.sap.corp:50000/manufacturing) as a Production Administrator. |  |  |
| 2 | Start Line Monitor | In the SAP ME menu, choose Production > Product > Beckhoff Line Monitor .  You can also open the Line Monitor screen in a new window.  To do this, right-click Beckhoff Line Monitor and select Open link in new window. | The Line Monitor screen is displayed.  The production planner can review the current status of the production line. |  |

### Start OPC Server (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you start the OPC server that is sending and receiving tag information from SAP ME via SAP PCo.

The following instructions are done for a Kepware demo OPC server but can be done with any OPC server supporting the data access protocol and having simulation capabilities.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the Windows Server | Log on to the Windows server (for example, via remote desktop connection to mo-4909bb03a.mo.sap.corp) as a Production Administrator. |  |  |
| 2 | Start KEPServerEX 6 Configuration | In the Start menu of Windows, choose All Programs > SAP > Kepware > KEPServerEX6 > KEPServerEX 6 Configuration . | The KEPServerEX – Runtime screen opens. |  |

### Start OPC Server (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you start the OPC server that is sending and receiving tag information from SAP ME via SAP PCo.

The following instructions are done for a Kepware demo OPC server but can be done with any OPC server supporting the data access protocol and having simulation capabilities.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the Windows Server | Log on to the Windows server (for example, via remote desktop connection to mo-4909bb03a.mo.sap.corp) as a Production Administrator. |  |  |
| 2 | Start KEPServerEX 6 Configuration | In the Start menu of Windows, choose All Programs > SAP > Kepware > KEPServerEX6 > KEPServerEX 6 Configuration . | The KEPServerEX – Runtime screen opens. |  |
| 3 | Start Quick Client | Choose Quick Client. | The OPC Quick Client – Untitled \* screen is displayed. |  |
| 4 | Choose Digital\_Manufacturing.PLC | Choose Digital\_Manufacturing.PLC. | The tag names are displayed in the frame on the right side of the screen |  |
| 5 | Display Synchronous Write Screen | Check the Digital\_Manufacturing.PLC.LineInit tag under Digital\_Manufacturing.PLC. If the value is not zero, right-click and select Synchronous Write.... | The Synchronous Write screen is displayed. |  |
| 6 | Initialization of Tags | Enter 0 in the Write Value field. Choose OK. | The initialization of tags with value zero is done. |  |
| 7 | Initialization of the Other Tags | Repeat steps 5–6 for all the tags. | The initialization of tags with value zero is done. |  |

### Log On to the Server Where the SAP Plant Connectivity Is Running (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you start the SAP PCo agent instances to enable the connection between the machines and the SAP ME system.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the Windows Server | Log on to the Windows server (for example, via remote desktop connection to mo-4909bb03a.mo.sap.corp) as a Production Administrator. |  |  |
| 2 | Start Plant Connectivity Management Console | In the Start menu of Windows, enter Management Console and press Enter. | The Plant Connectivity Management Console opens. |  |
| 3 | Verify that Agent Instances Are Started | Verify that the following agent instances are started:   * CONNECTED\_MANUFACTURING\_2015 * CONNECTED\_MANUFACTURING\_2015\_SIMULATOR   If they’re not, select and right-click the agent instance and select Start Agent Instance. | Agent instances are running. |  |
| 4 | Enable the Simulation | Drill-down the Connected\_Manufacturing\_2015\_Simulation agent and select Init.  Choose the Trigger tab and set the simulation trigger in the Trigger Expression field to 'SimulatorTrigger'==1.  You can only change this data when the agent is not running. | You’ve enabled the simulation. |  |

### Log On to the Server Where the SAP Plant Connectivity Is Running (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you start the SAP PCo agent instances to enable the connection between the machines and the SAP ME system.

Prerequisite

Make sure that the Kepware tags (Digital\_Manufacturing.PLC items) have zero as initial value.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the Windows Server | Log on to the Windows server (for example, via remote desktop connection to mo-4909bb03a.mo.sap.corp) as a Production Administrator. |  |  |
| 2 | Start Plant Connectivity Management Console | In the Start menu of Windows, enter Management Console and press Enter. | The Plant Connectivity Management Console opens. |  |
| 3 | Verify that Agent Instances Are Started | Verify that the following agent instances are started:   * [1] keyValueBufferProductive * [1] new\_uaRobotALock * DIGITAL\_MANUFACTURING\_2018 * KepwareNotif   If they’re not, select and right-click the agent instance and select Start Agent Instance. | Agent instances are running. |  |

### Simulate Production Process (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you simulate the production process.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the Windows server | Log on to the Windows server (for example, via remote desktop connection to mo-4909bb03a.mo.sap.corp) as a Production Administrator. |  |  |
| 2 | Start KEPServerEX 6 Configuration | In the Start menu of Windows, choose All Programs > SAP > Kepware > KEPServerEX6 > KEPServerEX 6 Configuration . | The KEPServerEX – Runtime screen is displayed. |  |
| 3 | Start Quick Client | Choose Quick Client. | The OPC Quick Client – Untitled \* screen is displayed. |  |
| 4 | Choose Connected Manufacturing.PLC | Choose Connected\_Manufacturing.PLC. | The tag names are displayed in the frame on the right side of the screen. |  |
| 5 | Display Synchronous Write Screen | Choose Connected\_Manufacturing.PLC.o10\_Start\_Com\_iTrigger, right-click and select Synchronous Write…. | The Synchronous Write screen is displayed. |  |
| 6 | Monitor Processing of SFC | Enter 1 in the Write Value field, choose OK and switch immediately to the line monitor that has already been started in section [Open Line Monitor (Variant A)](#unique_28) [page ] 48. | The simulation is triggered. The next available SFC is requested from SAP ME and processed. The different tags are automatically filled by the simulation tool and the production process runs as a self-controlled process.  You can monitor the processing of the SFC in the line monitor. |  |

### Simulate Production Process Manually (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you simulate the production process manually.

Prerequisite

Either the CONNECTED\_MANUFACTURING\_2015\_SIMULATOR simulation agent is not running or the simulation trigger is set to 0.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the Windows Server | Log on to the Windows server (for example, via remote desktop connection to mo-4909bb03a.mo.sap.corp) as a Production Administrator. |  |  |
| 2 | Start KEPServerEX 6 Configuration | In the Start menu of Windows, choose All Programs > SAP > Kepware > KEPServerEX6 > KEPServerEX 6 Configuration . | The KEPServerEX – Runtime screen is displayed. |  |
| 3 | Start Quick Client | Choose Quick Client. | The OPC Quick Client – Untitled \* screen is displayed. |  |
| 4 | Choose Connected Manufacturing.PLC | Choose Connected\_Manufacturing.PLC. | The tag names are displayed in the frame on the right side of the screen. |  |
| 5 | Display Synchronous Write Screen | Select Connected\_Manufacturing.PLC.o10\_Start\_Com\_iTrigger, right-click and select Synchronous Write…. | The Synchronous Write screen is displayed. |  |
| 6 | Set Simulation Trigger and Start Operation 1010 | Enter 1 in the Write Value field and choose OK. | The simulation is triggered.  Connected\_Manufacturing.PLC.o10\_Start\_Com\_iTrigger: The value is automatically set to 0.  Connected\_Manufacturing.PLC.o10\_Start\_Req\_sSfc: The value is automatically set to your SFC number.  Connected\_Manufacturing.PLC.o10\_Start\_Req\_sItem: The value is automatically set to your material number (FGME01Connected\_Manufacturing.PLC.o10\_Start\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o10\_Start\_Com\_iResponse: The value is automatically set to 1.  Connected\_Manufacturing.PLC.o10\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number. |  |
| 7 | Complete Operation 1010 | Select the Connected\_Manufacturing.PLC.o10\_Comp\_Com\_iTrigger item, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The next available SFC is requested from ME and set into the queue. The following data is displayed:  Connected\_Manufacturing.PLC.o10\_Comp\_Req\_sSFc: The value is automatically set to your SFC number.  Connected\_Manufacturing.PLC.o10\_Comp\_Res\_sOp: The value is automatically set to 1020.  Connected\_Manufacturing.PLC.o10\_Comp\_Res\_sOpRev: The value is automatically set to #.  Connected\_Manufacturing.PLC.o10\_Comp\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o10\_Comp\_Com\_iResponse: The value is automatically set to 1.  Connected\_Manufacturing.PLC.o10\_Start\_Res\_sItemRev: The value is automatically set to A. |  |
| 8 | Select SFC for Operation 1020 | Select Connected\_Manufacturing.PLC.o20\_Start\_Req\_sSfc, right-click and select Synchronous Write….  Enter your SFC number in the Write Value field and choose OK. | Your SFC is ready for processing in operation 1020. The following data is displayed:  Connected\_Manufacturing.PLC.o20\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number. |  |
| 9 | Start Operation 1020 | Select Connected\_Manufacturing.PLC.o20\_Start\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The following data is displayed:  Connected\_Manufacturing.PLC.o20\_Start\_Com\_iTrigger: The value is automatically set to 0.  Connected\_Manufacturing.PLC.o20\_Start\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o20\_Start\_Com\_iResponse: The value is automatically set to 1. |  |
| 10 | Complete Operation 1020 | Select Connected\_Manufacturing.PLC.o20\_Comp\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine confirmed the completion of processing. The following data is displayed:  Connected\_Manufacturing.PLC.o20\_Comp\_Res\_sOp: The value is automatically set to 1030.  Connected\_Manufacturing.PLC.o20\_Comp\_Res\_sOpRev: The value is automatically set to #.  Connected\_Manufacturing.PLC.o20\_Comp\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o20\_Comp\_Com\_iResponse: The value is automatically set to 1. |  |
| 11 | Select SFC for Operation 1030 | Select Connected\_Manufacturing.PLC.o30\_Start\_Req\_sSfc, right-click and select Synchronous Write….  Enter your SFC number in the Write Value field and choose OK. | Your SFC is ready for processing in operation 1030. The following data is displayed:  Connected\_Manufacturing.PLC.o30\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number.  Connected\_Manufacturing.PLC.o30\_Par\_Req\_ sSfc: The value is automatically set to your SFC number. |  |
| 12 | Start Operation 1030 | Select Connected\_Manufacturing.PLC.o30\_Start\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine is triggered to process the SFC. The following data is displayed:  Connected\_Manufacturing.PLC.o30\_Start\_Com\_iTrigger: The value is automatically set to 0.  Connected\_Manufacturing.PLC.o30\_Start\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o30\_Start\_Com\_iResponse: The value is automatically set to 1.  Connected\_Manufacturing.PLC.o30\_Par\_Req\_sDcGroup: The value is automatically set to SGME01Connected\_Manufacturing.PLC.o30\_Start\_Res\_sDcGroup: The value is automatically set to SGME01.  Connected\_Manufacturing.PLC.o30\_Par\_Req\_sName1: The value is automatically set to DRILLING\_PARAMETER.  Connected\_Manufacturing.PLC.o30\_Start\_Res\_sName1: The value is automatically set to DRILLING\_PARAMETER.  Connected\_Manufacturing.PLC.o30\_Start\_Res\_iValue1: The value is automatically set to 1. |  |
| 13 | Simulate Machine Acceptance | Select Connected\_Manufacturing.PLC.o30\_Par\_Req\_iValue1, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine has accepted to process the SFC. |  |
| 14 | Set Trigger for Machine Action | Select Connected\_Manufacturing.PLC.o30\_Par\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The following data is displayed:  Connected\_Manufacturing.PLC.o30\_Par\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o30\_Par\_Com\_iResponse: The value is automatically set to 1. |  |
| 15 | Complete Operation 1030 | Select Connected\_Manufacturing.PLC.o30\_Comp\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine confirmed completion of processing. The following data is displayed:  Connected\_Manufacturing.PLC.o30\_Comp\_Res\_sOp: The value is automatically set to 1040.  Connected\_Manufacturing.PLC.o30\_Comp\_Res\_sOpRev: The value is automatically set to #.  Connected\_Manufacturing.PLC.o30\_Comp\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o30\_Comp\_Com\_iResponse: The value is automatically set to 1. |  |
| 16 | Select SFC for Operation 1040 | Select Connected\_Manufacturing.PLC.o40\_Start\_Req\_sSfc, right-click and select Synchronous Write….  Enter your SFC number in the Write Value field and choose OK. | Your SFC is ready for processing in operation 1040.  The following data is displayed:  Connected\_Manufacturing.PLC.o40\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number. |  |
| 17 | Start Operation 1040 | Select Connected\_Manufacturing.PLC.o40\_Start\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | Connected\_Manufacturing.PLC.o40\_Start\_Com\_iTrigger: The value is automatically set to 0.  Connected\_Manufacturing.PLC.o40\_Start\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o40\_Start\_Com\_iResponse: The value is automatically set to 1. |  |
| 18 | Complete Operation 1040 | Select Connected\_Manufacturing.PLC.o40\_Comp\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine confirmed completion of processing. The following data is displayed:  Connected\_Manufacturing.PLC.o40\_Comp\_Res\_sOp: The value is automatically set to 1050.  Connected\_Manufacturing.PLC.o40\_Comp\_Res\_sOpRev: The value is automatically set to #.  Connected\_Manufacturing.PLC.o40\_Comp\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o40\_Comp\_Com\_iResponse: The value is automatically set to 1. |  |
| 19 | Select SFC for Operation 1050 | Select Connected\_Manufacturing.PLC.o50\_Start\_Req\_sSfc, right-click and select Synchronous Write….  Enter your SFC number in the Write Value field and choose OK. | Your SFC is ready for processing in operation 1050.  The following data is displayed:  Connected\_Manufacturing.PLC.o50\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number.  Connected\_Manufacturing.PLC.o50\_Par\_Req\_ sSfc: The value is automatically set to your SFC number. |  |
| 20 | Start Operation 1050 | Select Connected\_Manufacturing.PLC.o50\_Start\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine is triggered to process the SFC. The following data is displayed:  Connected\_Manufacturing.PLC.o50\_Start\_Com\_iTrigger: The value is automatically set to 0.  Connected\_Manufacturing.PLC.o50\_Start\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o50\_Start\_Com\_iResponse: The value is automatically set to 1.  Connected\_Manufacturing.PLC.o50\_Par\_Req\_sDcGroup: The value is automatically set to SGME01.  Connected\_Manufacturing.PLC.o50\_Start\_Res\_sDcGroup: The value is automatically set to ME-S116L.  Connected\_Manufacturing.PLC.o50\_Par\_Req\_sName1: The value is automatically set to OVENTEMP.  Connected\_Manufacturing.PLC.o50\_Start\_Res\_sName1: The value is automatically set to OVENTEMP.  Connected\_Manufacturing.PLC.o50\_Par\_Req\_sName2: The value is automatically set to OVENTIME.  Connected\_Manufacturing.PLC.o50\_Start\_Res\_sName2: The value is automatically set to OVENTIME.  Connected\_Manufacturing.PLC.o50\_Start\_Res\_iValue1: The value is automatically set to 360.  Connected\_Manufacturing.PLC.o50\_Start\_Res\_iValue2: The value is automatically set to 30. |  |
| 21 | Change Value for Processing Time | Select Connected\_Manufacturing.PLC.o50\_Par\_Req\_iValue2, right-click and select Synchronous Write….  Enter 30 in the Write Value field and choose OK. | The requested processing time for the oven is set to 30 minutes. |  |
| 22 | Change Value for Processing Temperature | Select Connected\_Manufacturing.PLC.o50\_Par\_Req\_iValue1, right-click and select Synchronous Write….  Enter 360 in the Write Value field and choose OK. | The requested processing temperature for the oven is set to 360 °C. |  |
| 23 | Set Trigger for Machine Action | Select Connected\_Manufacturing.PLC.o50\_Par\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine is triggered to process the SFC.  The following data is displayed:  Connected\_Manufacturing.PLC.o50\_Par\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o50\_Par\_Com\_iResponse: The value is automatically set to 1. |  |
| 24 | Complete Operation 1050 | Select Connected\_Manufacturing.PLC.o50\_Comp\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine confirmed completion of processing. The following data is displayed:  Connected\_Manufacturing.PLC.o50\_Comp\_Res\_sOp: The value is automatically set to 1060.  Connected\_Manufacturing.PLC.o50\_Comp\_Res\_sOpRev: The value is automatically set to #.  Connected\_Manufacturing.PLC.o50\_Comp\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o50\_Comp\_Com\_iResponse: The value is automatically set to 1. |  |
| 25 | Select SFC for Operation 1060 | Select Connected\_Manufacturing.PLC.o60\_Start\_Req\_sSfc, right-click and select Synchronous Write….  Enter your SFC number in the Write Value field and choose OK. | Your SFC is ready for processing in operation 1060.  The following data is displayed:  Connected\_Manufacturing.PLC.o60\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number.  Connected\_Manufacturing.PLC.o60\_Par\_Req\_ sSfc: The value is automatically set to your SFC number. |  |
| 26 | Start Operation 1060 | Select Connected\_Manufacturing.PLC.o60\_Start\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine is triggered to process the SFC. The following data is displayed:  Connected\_Manufacturing.PLC.o60\_Start\_Com\_iTrigger: The value is automatically set to 0.  Connected\_Manufacturing.PLC.o60\_Start\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o60\_Start\_Com\_iResponse: The value is automatically set to 1.  Connected\_Manufacturing.PLC.o60\_Par\_Req\_sDcGroup: The value is automatically set to RMME03.  Connected\_Manufacturing.PLC.o60\_Start\_Res\_sDcGroup: The value is automatically set to RMME03.  Connected\_Manufacturing.PLC.o50\_Par\_Req\_sName1: The value is automatically set to ASSEMBLY\_PROGRAM.  Connected\_Manufacturing.PLC.o60\_Start\_Res\_sName1: The value is automatically set to ASSEMBLY\_PROGRAM.  Connected\_Manufacturing.PLC.o60\_Start\_Res\_iValue1: The value is automatically set to 1. |  |
| 27 | Choose Value for Assembly Program | Select Connected\_Manufacturing.PLC.o60\_Par\_Req\_iValue1, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The requested assembly program is set to 1 (Assembly program for fuse left). |  |
| 28 | Set Trigger for Machine Action | Select Connected\_Manufacturing.PLC.o60\_Par\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine is triggered to process the SFC.  The following data is displayed:  Connected\_Manufacturing.PLC.o60\_Par\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o60\_Par\_Com\_iResponse: The value is automatically set to 1. |  |
| 29 | Complete Operation 1060 | Select Connected\_Manufacturing.PLC.o60\_Comp\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine confirmed completion of processing. The following data is displayed:  Connected\_Manufacturing.PLC.o60\_Comp\_Res\_sOp: The value is automatically set to 1070.  Connected\_Manufacturing.PLC.o60\_Comp\_Res\_sOpRev: The value is automatically set to #.  Connected\_Manufacturing.PLC.o60\_Comp\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o60\_Comp\_Com\_iResponse: The value is automatically set to 1. |  |
| 30 | Select SFC for Operation 1070 | Select Connected\_Manufacturing.PLC.o70\_Start\_Req\_sSfc, right-click and select Synchronous Write….  Enter your SFC number in the Write Value field and choose OK. | Your SFC is ready for processing in operation 1070.  The following data is displayed:  Connected\_Manufacturing.PLC.o70\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number.  Connected\_Manufacturing.PLC.o70\_Par\_Req\_ sSfc: The value is automatically set to your SFC number. |  |
| 31 | Start Operation 1070 | Select Connected\_Manufacturing.PLC.o70\_Start\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine is triggered to process the SFC. The following data is displayed:  Connected\_Manufacturing.PLC.o70\_Start\_Com\_iTrigger: The value is automatically set to 0.  Connected\_Manufacturing.PLC.o70\_Start\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o70\_Start\_Com\_iResponse: The value is automatically set to 1.  Connected\_Manufacturing.PLC.o70\_Start\_Res\_sDcGroup: The value is automatically set to ME-CAMERA-LEFT.  Connected\_Manufacturing.PLC.o70\_Start\_Res\_sName1: The value is automatically set to CHECK\_PROGRAM.  Connected\_Manufacturing.PLC.o70\_Start\_Res\_iValue1: The value is automatically set to 2. |  |
| 32 | Simulate Camera Answer | Select Connected\_Manufacturing.PLC.o70\_Par\_Req\_iCamResult, right-click and select Synchronous Write….  Enter 1 (test passed) or 0 (test failed) in the Write Value field and choose OK. |  |  |
| 33 | Set Trigger for Machine Action | Select Connected\_Manufacturing.PLC.o70\_Par\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine is triggered to process the SFC.  The following data is displayed:  Connected\_Manufacturing.PLC.o70\_Par\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o70\_Par\_Com\_iResponse: The value is automatically set to 1. |  |
| 34 | Complete Operation 1070 | Select Connected\_Manufacturing.PLC.o70\_Comp\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine confirmed completion of processing. The following data is displayed:  Connected\_Manufacturing.PLC.o70\_Comp\_Res\_sOp: The value is automatically set to 1075 (if the test has failed, you've entered 0 in the step before) or to 1080 (if the test has passed, you've entered 1 in the step before).  Connected\_Manufacturing.PLC.o70\_Comp\_Res\_sOpRev: The value is automatically set to #.  Connected\_Manufacturing.PLC.o70\_Comp\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o70\_Comp\_Com\_iResponse: The value is automatically set to 1.  If you entered 1 in this step, proceed with the Select SFC for Operation 1080 step of this procedure. If you entered 0, proceed with the following Select SFC for Operation 1075 step of this procedure. |  |
| 35 | Select SFC for Operation 1075 (only if you entered 0 in the step before) | Connected\_Manufacturing.PLC.o75\_Start\_Req\_sSfc, right-click and select Synchronous Write….  Enter your SFC number in the Write Value field and choose OK. | Your SFC is ready for processing in operation 1075.  The following data is displayed:  Connected\_Manufacturing.PLC.o75\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number.  Proceed with the [Post Rejected SFC to Scrap (Optional, Variant A)](#unique_36) [page ] 68 section. |  |
| 36 | Select SFC for Operation 1080 | Select Connected\_Manufacturing.PLC.o80\_Start\_Req\_sSfc, right-click and select Synchronous Write….  Enter your SFC number in the Write Valuefield and choose OK. | Your SFC is ready for processing in operation 1080.  The following data is displayed:  Connected\_Manufacturing.PLC.o80\_Comp\_Req\_ sSfc: The value is automatically set to your SFC number. |  |
| 37 | Start Operation 1080 | Select Connected\_Manufacturing.PLC.o80\_Start\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine is triggered to process the SFC. The following data is displayed:  Connected\_Manufacturing.PLC.o80\_Start\_Com\_iTrigger: The value is automatically set to 0.  Connected\_Manufacturing.PLC.o80\_Start\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o80\_Start\_Com\_iResponse: The value is automatically set to 1. |  |
| 38 | Complete Operation 1080 | Select Connected\_Manufacturing.PLC.o80\_Comp\_Com\_iTrigger, right-click and select Synchronous Write….  Enter 1 in the Write Value field and choose OK. | The machine confirmed completion of processing. The following data is displayed:  Connected\_Manufacturing.PLC.o70\_Comp\_Res\_sOpRev: The value is automatically set to #.  Connected\_Manufacturing.PLC.o70\_Comp\_Com\_sError: The value is automatically set to OK.  Connected\_Manufacturing.PLC.o70\_Comp\_Com\_iResponse: The value is automatically set to 1. |  |

### Post Rejected SFC to Scrap (Optional, Variant A)

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 post an SFC that was rejected as a result of the camera check to scrap.

Prerequisites

The SFC was rejected as a result of the camera check.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP MII/ME | Log on to the SAP ME system (for example, http://mo-b8192af8c.mo.sap.corp:50000/manufacturing) as a Production Assembler. | The ME start screen is displayed. |  |
| 2 | Start Shop Order Maintenance | In the SAP ME menu, choose Production > Product > POD-Connected Manuf. Operation Touch. | The Production Operator Dashboard screen is displayed. |  |
| 3 | Select SFC | Enter your SFC number in the SCF field and press Enter. | Your SFC number is displayed in POD Arbeitsvorrat. |  |
| 4 | Start SFC | Choose Start. |  |  |
| 5 | Post SFC to Scrap | Choose Log NC, choose R310, and choose Add-Done. | Your SFC has been posted to scrap. |  |

### Review Production Order (Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

After the release or confirming of finished goods orders is carried out, the production supervisor could display and check the order using the Manage Production Orders (F2336) app for the finished good FIN01, MTS, ME Integration, A FGME01.

The finished good material is managed with serial numbers. The system generates a serial number for each finished good when the production order is released.

Prerequisite

The serial number profile is defined in the material master record and the production order is released.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 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 conditions as filters.  Choose Adapt Filters to display more selection filter. Choose More filters under Material and Plant. Select the checkbox for Material and Plant and choose Go. Then choose OK. The Material and Plant fields are then added to the filter bar.  Material: FGME01  Plant: 1010  Choose Go. | The selected order displays. |  |
| 4 | Check Detailed Operations Status | Check detailed information for the selected production operations.   * Operation Issue:  1. 1. Empty if there is no production order issue. 2. Delay or Missing Components / PRT issue or 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 and end time displays.   * Work Center Schedule:   The relevant order covering the same work center capacity (operation is partially confirmed) displays.   * Operations not Started:   The relevant order that would cover the same work center capacity (operation is released) displays.   * Confirmation   :  Detailed confirmation information with Yield, Scrap, Rework quantity displays if confirmation has been executed.   * Inspection   :  Detailed inspection lots information displays if it existed. | The detailed operations status displays. |  |
| 5 | Go Back | Close the dialog box and choose Back. |  |  |

### Review Production Order (Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

After the release or confirming of finished goods orders is carried out, the production supervisor could display and check the order using the Manage Production Orders (F2336) app for the finished good FIN03, MTS, ME Integration, B FGME03.

The finished good material is managed with serial numbers. The system generates a serial number for each finished good when the production order is released.

Prerequisite

The serial number profile is defined in the material master record and the production order is released.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to the SAP Fiori Launchpad | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 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 conditions as filters.  Choose Adapt Filters to display more selection filter. Choose More filters under Material and Plant. Select the checkbox for Material and Plant and choose Go. Then choose OK. The Material and Plant fields are then added to the filter bar.  Material: FGME03  Plant: 1010  Choose Go. | The selected order displays. |  |
| 4 | Check Detailed Operations Status | Check detailed information for selected production operations.   * Operation Issue:  1. Empty if there is no production order issue.   Delay or Missing Components / PRT issue or 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 and end time displays.   * Work Center Schedule:   The relevant order covering the same work center capacity (operation is partially confirmed) displays.   * Operations not Started:   The relevant order that would cover the same work center capacity (operation is released) displays.   * Confirmation:   Detailed confirmation information with Yield, Scrap, Rework quantity displays if confirmation has been executed.   * Inspection:   Detailed inspection lots information displays if it existed. | The detailed operations status displays. |  |
| 5 | Go Back | Close the dialog box and choose Back. |  |  |

### Check Serial Numbers (Variant A and B)

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 finsihed goods material is managed with serial numbers. The system generates a serial number for each finished good when the production order is released. This process step shows you how to check the serial numbers.

Prerequisite

The serial number profile is defined in the material master record and the production order is released.

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 Display Production Order (CO03). |  |  |
| 3 | Enter the Number | Make the following entry and choose Continue:   * Order: <production order number for finished goods> | The Prodcution Order Display: Initial Screen displays. |  |
| 4 | Navigate to Serial Number Screen | Choose More > Header > Serial Number on the top of the screen. | The Display Serial Number dialog box displays. |  |
| 5 | Check the Serial Number | In the Display Serial Numbers dialog box, the serial numbers generated during production order release are listed. Make a note of the serial numbers. |  |  |
| 6 | Back | Close the dialog box and choose Back icon. |  |  |

### Preview Goods Receipt Slip and Label (Optional, Variant A)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this step, you preview the material document.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as Warehouse Clerk. | The SAP Fiori launchpad is displayed. |  |
| 2 | Open Manage Documents Overview | Open Material Documents Overview (F1077). | The is displayed. |  |
| 3 | Search for Goods Receipts Material Document | On the Material Documents Overview (F1077) screen, make the following entries and choose Go.  Plant: 1010  Material: FGME01 | The relevant Material Document item is displayed. |  |
| 4 | Select Material Document for Goods Receipt | Choose the row for which you’d like to see the material documents. | The Material Document screen is displayed. |  |
| 5 | Check Goods Issue Details | Take a look at the General Information, Items, Process Flow and Attachment sections. | In the General Information section, you can see the Document Date and Posting Date. |  |
| 6 | Select the Material Document Item | In the Items section, choose the row of the material document item that you’d like to preview. | The Material Document Item screen is displayed. |  |
| 7 | Preview the Material Document Goods Receipt Slip | In the Output Management section, choose the Display Document icon in the item whose Output Type is GOODS\_RECEIPT\_PO\_SLIP. | The Goods Receipt Slip opens in PDF format. |  |
| 8 | Preview the Material Document Goods Receipt Label | In the Output Management section, choose the Display Document icon in the item whose Output Type is GOODS\_RECEIPT\_LABEL. | The Goods Receipt Label opens in PDF format. |  |
| 9 | Choose Home | Choose Home to go back to the SAP Fiori launchpad. |  |  |

### Preview Goods Receipt Slip and Label (Optional, Variant B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this step, the material document is previewed.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as Warehouse Clerk. | The SAP Fiori launchpad is displayed. |  |
| 2 | Open Manage Documents Overview | Open Material Documents Overview (F1077). |  |  |
| 3 | Search for Goods Receipts Material Document | On the Material Documents Overview (F1077) screen, make the following entries and choose Go.  Plant: 1010  Material: FGME03 | The relevant Material Document item is displayed. |  |
| 4 | Select Material Document for Goods Receipt | Choose the row for which you’d like to see the material documents. | The Material Document screen is displayed. |  |
| 5 | Check Goods Issue Details | Take a look at the General Information, Items, Process Flow and Attachment sections. | In the General Information section, you can see the Document Date and Posting Date. |  |
| 6 | Select the Material Document Item | In the Items section, choose the row of the material document item that you’d like to preview. | The Material Document Item screen is displayed. |  |
| 7 | Preview the Material Document Goods Receipt Slip | In the Output Management section, choose the Display Document icon in the item whose Output Type is GOODS\_RECEIPT\_PO\_SLIP. | The Goods Receipt Slip opens in PDF format. |  |
| 8 | Preview the Material Document Goods Receipt Label | In the Output Management section, choose the Display Document icon in the item whose Output Type is GOODS\_RECEIPT\_LABEL. | The Goods Receipt Label opens in PDF format. |  |
| 9 | Choose Home | Choose Home to go back to the SAP Fiori launchpad. |  |  |

## Review Scrap Report (Variant A and B)

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 Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this activity, you review the scrap report.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On to SAP MII/ME | Log on to the SAP ME system (for example, http://mo-06db2707d.mo.sap.corp:50000/manufacturing) as a Production Assembler. | The ME start screen is displayed. |  |
| 2 | Select SFC Report | Choose Reports > WIP > SFC Report . | The SFC Report screen is displayed. |  |
| 3 | Investigate Scrap | You can display materials scrap using various filters.  You can choose the corresponding material in the chart to display the details. |  |  |

# Appendix

## Succeeding Processes

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

|  |  |
| --- | --- |
| Process | Business Condition |
| Period-End Closing – Plant (BEI) (Optional) | These are carried out collectively as a part of month-end closing. For more information on the month-end closing procedure, refer to the Period-End Closing - Plant (BEI) test script.  You can carry out the month-end closing only 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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