|  |  |
| --- | --- |
|  |  |
| Test Script  SAP S/4HANA - 18-09-20 | public |
| Material Replenishment with Kanban - Stock Transfer (4B4\_DE) |

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# Purpose

The Kanban method for controlling production and material flow is based on the actual stock quantity in production. With Kanban, instead of being pushed through production by higher-level planning, materials are called from the supply source by production at the manufacturing level where they’re needed (pull principle). Replenishment or production of a material is only triggered when a higher production level requires the material. This replenishment is triggered directly in production using previously maintained master data.

Kanban replenishment is commonly used in - but not restricted to - repetitive manufacturing environments, when a production process requires that the same or similar products are produced over a certain period at a certain rate per period. The products produced always follow the same sequence through the machines and work centers in production. Routings tend to be simple and don’t vary much.

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

# Prerequisites

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

## System Access

|  |  |
| --- | --- |
| System | Details |
| System | Accessible via SAP Fiori launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

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

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name (Role) | ID (Role) | Description (Space) | ID (Space) | Log On |
| Production Planner | SAP\_BR\_PRODN\_PLNR | Production Planning | SAP\_BR\_PRODN\_PLNR |  |
| Production Supervisor - Repetitive Manufacturing | SAP\_BR\_PRODN\_SUPERVISOR\_RPTV | Production Control | SAP\_BR\_PRODN\_SUPERVISOR\_RPTV |  |
| Production Planner - Lean Manufacturing | SAP\_BR\_PRODN\_PLNR\_LEAN\_MFG | Lean Manufacturing Planning | SAP\_BR\_PRODN\_PLNR\_LEAN\_MFG |  |
| Production Operator - Repetitive Manufacturing | SAP\_BR\_PRODN\_OPTR\_RPTV | Production Execution | SAP\_BR\_PRODN\_OPTR\_RPTV |  |
| Production Operator - Lean Manufacturing | SAP\_BR\_PRODN\_OPTR\_LEAN\_MFG | Lean Manufacturing Operations | SAP\_BR\_PRODN\_OPTR\_LEAN\_MFG |  |
| Warehouse Clerk | SAP\_BR\_WAREHOUSE\_CLERK | Inventory Processing | SAP\_BR\_WAREHOUSE\_CLERK |  |
| Cost Accountant - Production | SAP\_BR\_PRODN\_ACCOUNTANT | Product Costing | SAP\_BR\_PRODN\_ACCOUNTANT |  |

## Master Data, Organizational Data, and Other Data

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

Use your own master data to go through the test procedure:

|  |  |  |  |
| --- | --- | --- | --- |
| Master | Value | Details | Comments |
| Material | FG233 |  |  |
| Material | SG234 |  |  |
| Material | SG233 |  |  |
| Material | RM234 |  |  |
| Material | RM233-1 |  |  |
| Material | RM233-2 |  |  |
| Material | RM233-4 |  |  |
| Material | RM235 |  |  |
| Vendor | 10300002 |  |  |
| Plant | 1010 | Plant 1 DE |  |
| Storage Location | 101A | Std. storage 1 |  |
| Storage Location | 101B | Std. storage 2 |  |
| Storage Location | 101C | Raw mat. sto. loc. |  |
| Storage Location | 101E | Kanban |  |

Bill of Material Structure

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Material | Level | Material Type | Unit | Characteristic of Material | Optional Enhancements |
| FG233 | 0 | FERT | PC |  |  |
| SG234 | 1 | SEMI | PC |  |  |
| RM235 | 2 | RAW | PC |  |  |
| SG233 | 1 | SEMI | PC |  |  |
| RM234 | 2 | RAW | PC |  |  |
| RM233-1 | 1 | RAW | PC |  |  |
| RM233-2 | 1 | RAW | PC |  |  |
| RM233-4 | 1 | RAW | PC |  |  |

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

Table 1: Master Data Script Reference

|  |  |
| --- | --- |
| Master ID | Description |
| BNT | Create Product Master of Type "Finished Good" |
| BNS | Create Product Master of Type "Semi-Finished Good" |
| BNR | Create Product Master of Type "Raw Material" |
| BNE | Create Supplier Master |
| 40D | Create Production Supply Area |
| 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 condition must be met.

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BNU - Create Costing Run | You have completed the steps described in this master data script. |
| BEG - Standard Cost Calculation | You have completed the step described in the Test Script BEG. |

## Preliminary Steps

This Business Process Documentation contains process steps that must be completed before you can start to work through the standard Business Process Documentation of selected logistics scenarios.

### Create Product Cost Collectors

Purpose

This step can only be executed if product cost planning is activated.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Cost Accountant - Production. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Create Product Cost Collectors - Production Versions - Collective (KKF6M). | The Create Multiple Product Cost Collector for Production Versions screen displays. |  |
| 3 | Enter Relevant Values | Make the following entries and choose Execute.   * Plant: 1010 * Order Type: YBMR * Only Repetitive Mfg Mat.: <select>   Once the product cost collector is created, it can't be created again with the same data. |  |  |
| 4 | Select Production Versions | The Select Production Versions screen could display if there is more than one production version or more than one material. | The Select Production Versions screen may display if there is more than one production version or more than one material. |  |
| 5 | Save | Select the row for the production version of materials FG233 and SG233. Choose Save. | The message log displays. |  |
| 6 | Exit | Choose Exit. |  |  |

### Create Preliminary Cost for the Product Cost Collectors

Purpose

In this topic, you create preliminary costs for the product cost collectors.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Cost Accountant - Production. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Create Preliminary Cost Estimate - Product Cost Collectors (MF30). | The Creation of Preliminary Cost Estimates For Product Cost Collectors screen displays. |  |
| 3 | Enter Relevant Values | Make the following entries and choose Execute.   * Costing Date : <Current Date> * Plant: 1010 |  |  |

### Create Queue for Kanban Card Printing (Optional)

Purpose

A new printing queue for Kanban which would be assigned in the Kanban control cycle is created. Ask your system administrator to complete this step because the Administrator role is required to access the app.

A default printing queue has to be used if you don't create a specific Kanban printing queue, which would be difficult to find among other printings.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as Administrator. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Maintain Print Queues (F1260). | The Maintain Print Queues (F1260) screen displays. |  |
| 3 | Create a New Queue | Choose New.  On the New Print Queue screen, make the following entries:   * Queue: <Queue name> * Description: <Queue description> * Format: PDF * Print user: <Choose an existing user>   You can choose New Print User to create a new one.  Retention: 1  Choose Create. | The Queue has been created. |  |

### Control Cycle for Classic Kanban: Stock Transfer

Purpose

In this step, you create a control cycle for classic Kanban that can be used for direct stock transfer. In the control cycle, you define the demand source, the supply source and the procedure that must be used to replenish the Kanban material. You also define the number of Kanbans that circulate among the supply source and the demand source, as well as the quantity a Kanban contains.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner - Lean Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Kanban Control Cycles (PKMC). | The Manage Kanban Control Cycles (PKMC) displays. |  |
| 3 | Navigate to Create Control Cycle Screen | Make the following entries and choose Display/Change.  Plant: 1010  Choose Create Control Cycle. | The Create Control Cycle screen displays. |  |
| 4 | Enter the Selection Details | Make the following entries and choose Continue:   * Classic KANBAN: Selected * Material: RM233-1 * Prodn Supply Area: KANBAN\_03 * Lifecycle status: Released | The Control Cycle Maintenance: Change screen displays. |  |
| 5 | Enter the Control Cycle Details | Make the following entries:   * Number of Containers: 5 * Kanban quantity: 400 * Maximum Empty Containers: 2 * Number of Load Carriers: 1   In Replenishment Strategysection, select Stock Transfer, enter PD03 and choose Enter.  Storage Location: 101C |  |  |
| 6 | Save | Choose Save Control Cycle. | You have created a Kanban control cycle for material RM233-1. |  |

### Initialize Material Stock

Purpose

This step describes standard purchasing process. But in real business cases, raw materials are usually purchased from external vendors.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as an Inventory Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Stock (F1062). | The Manage Stock (F1062) screen displays. |  |
| 3 | Input Material | Make the following entries and press Enter:   * Material: RM233-1 * Plant: Plant 1 DE 1010 | The stock overview for the material displays. |  |
| 4 | Select Stock | Select the icon next to the stock where you want to add initial stock.  For example:   * Storage Location:   101C  for RM233-1   * Unrestricted Use Stock | In a dialog box, the Storage Location, Stock Type and Current Quantity fields display per your entries in previous steps. |  |
| 5 | Add Initial Entry | Make the following entries and choose Post:   * Document Date: <Today> * Posting Date: <Today> * Stock Change: Initial Entry * Quantity: <Enter a quantity> |  |  |
| 6 | Repeat | If you want to execute the whole production process for finished goods FG233, you can post initial stock for other necessary components, for example,RM234, RM233-2, RM233-4, SG234, SG233, into Storage Location 101B. |  |  |

# 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/APPs | Expected Results |
| Anonymous Forecast and MRP | | | |
| [Create Planned Independent Requirements](#unique_15) [page ] 14 | Production Planner | Maintain PIRs (F3445) |  |
| [Material Requirements Planning](#unique_16) [page ] 16 | Production Planner | Schedule MRP Runs (F1339) |  |
| [Adjust Planning in Planning Table](#unique_17) [page ] 17 | Production Supervisor - Repetitive Manufacturing | Manage Repetitive Manufacturing (MF50) |  |
| Production-Supply by Changing Kanban Container Status and Using Kanban Board | | | |
| Classic Kanban: Stock Transfer | | | |
| [Set Available Kanban to EMPTY](#unique_18) [page ] 19 | Production Operator - Lean Manufacturing | Set Kanban Container Status (F3717) |  |
| [Change the Kanban to FULL](#unique_19) [page ] 21 | Production Operator - Lean Manufacturing | Set Kanban Container Status (F3717) |  |
| [Repetitive Manufacturing Backflush](#unique_20) [page ] 23 | Production Operator - Repetitive Manufacturing | Confirm Repetitive Manufacturing (MFBF) |  |
| [Post Processing List of Error Records](#unique_21) [page ] 25 | Production Operator - Repetitive Manufacturing | Reprocess Goods Movements (COGI) |  |
| [Review Manufacturing Object Pages](#unique_22) [page ] 26 | Production Planner | Search |  |

# Test Procedures

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

## Anonymous Forecast and MRP

### Create Planned Independent Requirements

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

Planned Independent Requirements (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, that is, splitting one planned quantity according to dates.

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

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Maintain PIRs (F3445). |  |  |
| 3 | Check Default Area of Responsibility | On the Maintain PIRs screen, choose your user name and choose the App Settings icon. On the MRP Settings screen, choose Area of Responsibility and check if only the following entry is assigned:   * Plant 1 DE (1010) * MRP Controller 001(001)   Choose AOR status button of this entry if not assigned, choose AOR status button of the corresponding entry to unassign any other entry then choose Back. |  |  |
| 4 | Select | On the Maintain PIRs screen, make the following entries:   * Plant: 1010 * Period Indicator: Weekly (W) * Search: FG233 |  |  |
| 5 | Filter Result | Choose Go to execute. | Material item displays. |  |
| 6 | Select Material Item | Choose the material item and choose Edit on the upper right side of the screen. |  |  |
| 7 | Edit PIRs | On the screen, enter quantities per period, for example:  PIR: 100  And make sure the version is active.  Version is active: YES |  |  |
| 8 | Save PIRs Draft | Choose Save at bottom right. | The PIRs are saved. |  |

### Material Requirements Planning

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

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

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Schedule MRP Runs (F1339). | The Application Jobs screen displays. |  |
| 3 | Create New Job | Choose Create.  On the New Job screen, make the following entries:  For 1. Template Selection section:   * Job Template: Material Requirement Planning (MRP) * Job Name: <MRP for FG233>   Choose Step 2.  For 2. Scheduling Options section:   * Start Immediately: <select>   Choose Define Recurrence Pattern.  On the Scheduling Information screen, make the following entries:   * Start Immediately: X * Recurrence Pattern: Single Run   Choose OK.  Choose Step 3.  For 3 Parameters section:   * Plant: 1010 * Material: MRP for FG233 * Changed BOM Components: select * Planning Mode: 1   Choose Check at the bottom right.  Choose Schedule. | A message appears: You can go ahead and schedule the job. |  |
| 4 | Refresh Application Jobs List | To check the job’s status, enter MRP for FG233 in the search box and choose Go at the top right section of the screen. | The new job is created and is displayed in the Application Jobs table when refreshed. |  |

### Adjust Planning in Planning Table

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This step describes how to plan the production of materials on the production lines.

Prerequisite

Requirements planning is performed.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Repetitive Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Repetitive Manufacturing (MF50). | The Planning Table Initial Screen: Change Mode screen displays. |  |
| 3 | Enter Details | Make the following entries and choose Execute.   * Material: FG233 * Plant: 1010 | The Planning Table For Repetitive Manufacturing: Change Model screen displays. |  |
| 4 | Change the Quantity | Change any planned quantities in row 0001 WINDING. | If you want to change the periods in the Planning table, choose More > View > Period > Week (Month or Day) . |  |
| 5 | Save | Choose Save.  Confirm any warning notifications for Storage Locations. | Material production is planned on production lines and the planned orders are fixed. When there are quantity changes, log on to the SAP Fiori launchpad as a Production Planner, open Monitor Material Coverage - Net Segments to check the planned order number. |  |

## Production-Supply by Changing Kanban Container Status and Using Kanban Board

Kanban board is one of the tools that can be used to change the container status, which can provide both demand source (consumer) and supply source (supplier, producer) with a detailed overview of Kanban circulation. In addition, Material Replenishment could be quickly triggered by setting Kanban container status.

### Classic Kanban: Stock Transfer

If you want to transfer components with a previous reservation, you can use this function. When the Kanban is set to Empty, it automatically triggers a reservation for material RM233-1.

#### Set Available Kanban to EMPTY

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 set an available Kanban to EMPTY to trigger a reservation for material RM233-1.

Prerequisite

The Kanban control cycle for material RM233-1 is created and sufficient stock is available of material RM233-1 in storage location 101C.

Procedure

It is possible to change status of Kanban Container with various Fiori apps. You can choose one of them to execute the task in this step (set to EMPTY) and subseequent steps (for example, set to FULL) where applicable. Here we provide two options you can leverage, and you can choose either of them.

Option 1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 - Lean Manufacturing | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Set Kanban Container Status (F3717). |  |  |
| 3 | Select the Kanban | Select a Kanban container on the left part of the screen. Choose Value Help icon to open Select: Barcode window. Choose Show Advanced Search to make following entries and press Enter.  Plant: 1010  Production Supply Area: KANBAN\_03  From the Items list, choose one of the Kanban for RM233-1 with Current Status of either WAIT or FULL. | The Kanban you entered is displayed. |  |
| 4 | Check Kanban Information | On the right part of the screen, check the following entry:  Target Status: Empty |  |  |
| 5 | Set the Kanban to Empty | On the left part of the screen, choose Save at the bottom. | Setting an available KANBAN to empty results in a reservation for the material. |  |

Option 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 - Lean Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Kanban Board (F4630).  You can find the app under category Production Control - Kanban Monitoring. |  |  |
| 3 | Search | Make following entries and choose Go:  Plant: 1010  Production Supply Area: KANBAN\_03  Material: RM233-1 |  |  |
| 4 | Select Kanban Container | In the Control Cycle, choose Kanban Container with WAIT or FULL status. You can check the legend for description of visual elements.  Container Details panel displays on the right side.You can check detailed information. |  |  |
| 5 | Set the Kanban to Empty | Choose Set to EMPTY above the list. |  |  |

#### Change the Kanban to FULL

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 change the status of the Kanban you processed in the previous step to FULL. This will be done when the material is delivered.

Prerequisite

The status of the Kanban is previously set to EMPTY.

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 - Lean Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Set Kanban Container Status (F3717). |  |  |
| 3 | Select the Kanban | Select a Kanban container on the left part of the screen. Choose Value Help icon to open Select: Barcode window. Choose Show Advanced Search to make following entries and press Enter.  Plant: 1010  Production Supply Area: KANBAN\_03  From the Items list, choose one of the Kanban for RM233-1 with Current Status:Empty. | The Kanban you entered displays. |  |
| 4 | Check Kanban Information | On the right part of the screen, check the following entry:  Target Status: Full |  |  |
| 5 | Set the Kanban to Full | On the left part of the screen, choose Save at the bottom. |  |  |

## Repetitive Manufacturing Backflush

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This step executes multiple activities in a single step, such as finished product goods receipt, backflush of component materials, posting of costs to cost collector and creation of material and journal entries.

Errors can occur in back flushing. For example, there may not be sufficient warehouse stock available or important data, such as the issue storage location may be missing. You then have the following options:

Make corrections immediately in a component overview.

Backlogs are created for the complete requirement quantities of the components with errors.

You can process these backlogs later. If negative stocks are allowed for the material in the storage location, the system posts negative stock quantities in certain circumstances.

Note Goods Movement is 131 for Goods Receipt and 261 for Goods Issue. The Material is FG233 (Finished Product).

Prerequisite

Planned orders must exist.

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 - Repetitive Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Confirm Repetitive Manufacturing (MFBF). | The REM Confirmation - Transaction Variant: None screen displays. |  |
| 3 | Enter Selection Data | Make the following entries and choose Enter:  Assembly backflush: X  Make-to-stock:  Planned Order: <Planned order number for FG233 from previous step> | The system proposes Material and Conf. Qty. Change the Conf. Qty as needed. |  |
| 4 | Post | Choose Post with Correction.  Select the production version if prompted. |  |  |
| 5 | Post | Choose Post. | The finished product is received into stock and all components listed in the bill of material are issued from stock.  To view the Material document, log on to the SAP Fiori launchpad as a Warehouse Clerk and open Material Document Overview.   * Debited Accounts: Credited Accounts * Cost collector: Consumption * Inventory: Inventory change * Inventory - Finished Product: Inventory Change - Production * Consumption - Raw Materials: Inventory - Raw Materials and semi-finished goods |  |

## Post Processing List of Error Records

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

To post process backlogs from backflushing, you can use this function to create a list of components that have to be postprocessed.

Prerequisite

Material movements are missing for previous backflush operations.

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 - Repetitive Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Reprocess Goods Movements (COGI). | The Postprocessing of Error Records from Automatic Goods Movements screen displays. |  |
| 3 | Enter Selection Data | Make the following entries and choose Enter:  Plant: 1010 | The system displays a list of all assemblies that correspond to the selection criteria and that have components to be postprocessed. This list is sorted by assemblies and production versions. If you have to correct the components or if you want to check availability, select the appropriate assembly and choose Change Selected Postprocessing Recs. The system displays the components of the selected assembly. |  |
| 4 | Save | Review the generated list, then choose Save.  Correct any missing material movement for planned orders processed. |  |  |

## Review Manufacturing Object Pages

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

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

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner.  Note You can use any role in section Role above. | The SAP Fiori launchpad displays. |  |
| 2 | Start Search | Choose Search in the upper right part of the screen. | An input field displays. |  |
| 3 | Search Criteria | Make the following entries and choose Search:  BOM Header Material: <Material> (refer to section Master Data, Organizational Data, and Other Data) | The system displays a list of objects using the selected material. |  |
| 4 | Display Object | In the All field, choose Down arrow.  Select an object and choose Search. | The displaying list of objects is limited to the object type selected. If no object is selected, a message would display instead. |  |
| 5 | Tailor the Result Display | Under the search line, choose an icon (for example, filter, display as table, sort and so on) to filter the results list. | The results list is filtered according to your selections. |  |
| 6 | Repeat Steps | Repeat steps 1 to 5 for any other role in this test script and any other object offered in the search function. | The result list of objects displayed differs by the role you use to log on. |  |

# Appendix

## Process Integration

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

### Succeeding Processes

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

|  |  |
| --- | --- |
| Process | Business Condition |
| BEI - Period-End Closing - Plant (Optional) | These are executed collectively as a part of month-end closing. For more information on the month-end closing procedure, see the Test Script for Period End Closing General Plant.   * Month-end closing can only be executed once a month. |

## Kanban Status - Status Change/Kanban Signal

### Classification of the Processing Status of Kanban Container

The course of Kanban Container processing is controlled and made visible through setting the Kanban Containers to appropriate status. Usually, only the statuses "Empty" and "Full" are used. As a rule, if a material in a Kanban Container has been used and a Kanban Container is then set to "Empty", this Kanban Container status automatically triggers the replenishment process. The source of supply (producer, supplier) receives the signal to fill up the Kanban Container again. When the full Kanban Container arrives back at the demand source (the consumer), the latter sets the Kanban Container to the status "Full" and the goods receipt is posted for the material. Normally, Kanban Container is possible with both statuses "Empty" and "Full".

|  |  |
| --- | --- |
| Status - Description | Business Condition |
| Waiting - 1 | Indicates that although the material has been consumed, the supply source is not yet to supply any more of it. This status is also set if a new Kanban Container has been created.  If a new Kanban Container has been included in the control cycle and no replenishment has yet been triggered, it has the status "Waiting" and can then be set to "Empty" by the demand source (consumer). |
| In Process - 3 / In Transit - 4 | The statuses "In Process" and "In Transit" are set by the supply source (supplier) to inform the demand source (consumer) that the Kanban Containers are either being processed or are in transit.  If you use Kanban Containers with purchase orders, the status of a Kanban Container is automatically set to IN TRANSPORT if an inbound delivery has been generated for the order. |
| Full - 5 | The status "Full" is assigned by the demand source (consumer) upon receipt of the container or if the goods receipt has been posted for the kanban. Exception: Decoupling of Status Change and Goods Receipt Posting. |
| In Use -6 | The status "In Use" is set by the demand source to inform the supply source which Kanban Containers are currently being emptied. (This status can only be set on the kanban board.) |
| Error - 9 | The status "Error" is set only by the system. It is set if an error occurs during the processing of a Kanban Container. This may happen, for instance, if a Kanban Container is set to "Empty" and a purchase order is simultaneously to be created. If the desired vendor is invalid at this time, it does not make sense to resolve the situation in dialog mode here. The status of the Kanban Container is then set to "Error" with an appropriate system message.  If you have specified in Customizing for Kanban that only an error message is to be issued when a certain error occurs, the kanban status is not set to "Error". For more information, see: Error Handling. |
| Empty - 2 | The status "Empty" is set by the demand source (consumer) when the kanban quantity has been consumed. Depending on the replenishment strategy, this immediately triggers replenishment. |

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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