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| Test Script  SAP S/4HANA Cloud - 12-01-19 | public |
| Third-Party Warehouse Management System Integration - Production Scenarios (2RU\_DE) |

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# Purpose

The scope item covers production processes. The business part of the processes, including creation and confirmation of production order, are performed in the SAP S/4HANA Cloud system. The decentralized third-party warehouse management system runs processes required for the physical and logical goods movements. The two variants of the process include material staging to ensure that all needed components or raw materials are available for production as well as the goods receipt of the finished goods after production confirmation. The first variant is without automatic backflush of the components and with the assumption that all involved storage locations are managed by third-party warehouse management solution. The other variant works with automatic backflush and the assumption of a centrally managed production storage.

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.

Important to know:

* ODATA and SOAP WebServices are offered as a means to integrate S/4HANA Cloud with 3rd party solutions on-Premise and Cloud.
* For exceptional cases and based on individual customer requests, SAP admits usage of BAPIs and IDocs on a temporary basis to integrate your solution with SAP S/4HANA Cloud wherever the currently available OData and SOAP WebServices are not sufficient.
* This admittance is restricted to individual customers and to a well-defined set of BAPIs and IDocs, which have been technically enabled by SAP for this purpose. To get this approval please follow the process described in the [Note 2653671 - Approval request to use BAPI / IDOC interfaces for integration of 3rd party products with S/4 Cloud Edition](https://launchpad.support.sap.com/#/notes/Note 2653671 - Approval
                request to use BAPI / IDOC interfaces for integration of 3rd party products with S/4
                Cloud Edition).
* These BAPIs and IDocs are available as is and will not be functionally extended. They will be maintained for a limited period of time. Maintenance of a BAPI/IDoc will end 12 months after availability of an equivalent OData or SOAP WebService.
* SAP will provide services according to the roadmap for OData and SOAP Webservices.
* These Webservices might not be a 1:1 replacement for the enabled BAPIs and IDocs. However, the new Webservices shall be “mappable” to the old interfaces.
* The call of BAPIs in S/4HANA Cloud shall be triggered on-Premise via the SAP Cloud Connector installed on Premise. A mapping in SAP Cloud Platform Integration to call BAPIs in S/4HANA Cloud is technically not possible.

# 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.

## 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, see 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>).

## 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

Use the following standard test users or assign roles to testers, respectively:

|  |  |  |
| --- | --- | --- |
| Business Role Name | Business Role ID | Log On |
| Production Supervisor - Discrete Manufacturing | SAP\_BR\_PRODN\_SUPERVISOR\_DISC |  |
| Production Operator - Discrete Manufacturing | SAP\_BR\_PRODN\_OPTR\_DISC |  |
| Warehouse Clerk | SAP\_BR\_WAREHOUSE\_CLERK |  |
| Inventory Manager | SAP\_BR\_INVENTORY\_MANAGER |  |

## Master Data, Organizational Data, and Other Data

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

Use your own master data to go through the test procedure. If you have installed an SAP Best Practices baseline package, you can use the following baseline package sample data:

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Details | Comments |
| Material | SG224 |  | SG224 |
| Material | RM124 |  | RM124 |
| Material | FG228 |  | Production material with batch |
| Material | RM122 |  | Production material with batch |
| Plant | 1010 |  | Plant 1 |
| Storage Location | 101A |  | 101A |
| Storage Location | 101B |  | 101B – Production Storage location |
| Storage Location (WMS) | 101I |  | 101I – Storage location for raw-material + finished goods (managed by decentralized WMS) |
| Storage Location (WMS) | 101J |  | 101J – Production Storage location (managed by decentralized WMS) |
| Shipping Point | 1010 |  |  |
| Sales Organization | 1010 |  |  |
| Distribution Channel | 10 |  |  |
| Division | 00 |  |  |

Bill of Material Structure

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Material | Level | Material Type | Unit | Characteristic of Material | Optional Enhancements |
| FG226 | 0 | FERT | PC | Finished Good for MT0 processing with batch and serial number processing | Batch processing for Finished Good optionally |
| SG224 | 1 | SEMI | PC | Internal production of subassembly (MTO strategy) |  |
| RM124 | 2 | RAW | PC | External procured using Fixed Bin |  |
| RM122 | 1 | RAW | PC | External procured with Batch Management (FIFO-Strategy) | Initial Stock Posting |

You can find general 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_CLD_ENTPR/BP_CLD_ENTPR_S4CLD1902_15_Master_Data_EN_XX.htm) :

Table 1: Master Data Script Reference

|  |  |
| --- | --- |
| MDS | 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" |
| BND | Create Customer Master |
| BNE | Create Supplier Master |

## Business Conditions

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

|  |  |
| --- | --- |
| Scope Item | Comment |
| BNU - Create Costing Run | You have completed the steps described in the master data script BNU: Create Costing Run (Product Costing). |
| 1ZQ – Third-Party Warehouse Management System Integration | Prerequiste |
| BLF – Batch Management | Prerequiste (only if batch managed materials are used) |

## Initial Material Stock

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

Material master data must be extended to store location views. Refer to the master data script [Master Data, Organizational Data, and Other Data](#unique_6) [page ] 5.

To create batch for batch material, refer to scope item BLF Batch Management.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP Fiori Launchpad | Log on to the SAP Fiori Launchpad using the role Inventory Manager. | The SAP Fiori Launchpad is displayed. |  |
| 2 | Access the App | Open Manage Stock (F1062). | The Manage Stock screen is displayed. |  |
| 3 | Input Material | Make the following entries and select them from the right drop-down list:  Material: RM124  Plant: 1010  (Optional) Batch: batch number (for batch material only, for example RM122). | The stock overview for the material is displayed. |  |
| 4 | Select Stock | Select the icon beside the stock that you want to add initial stock, for example:  Storage Location:101B / 101I  Unrestricted-Use Stock | A dialog box is opened. The Storage Location, Stock Type, and Current Quantity are displayed according to your entries in the previous steps. |  |
| 5 | Add Initial Entry | Make the following entries and choose Post:  Document Date: <today>  Posting Date: <today>  Stock Change: Initial Entry  Quantity: <enter a number>  Note Please ensure that enough stock is available in the storage location where the raw material is located but no stock of the raw material RM124 in the production storage location (101B and 101J). | The system displays Material document XXX created. The stock has been added. |  |

# Overview Table

The scope item Third-Party Warehouse Management System Integration - Production Scenarios consists of several process steps provided in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Business Role | Transaction / APPs | Expected Results |
| Production Order Processing for Semifinished Product without Automatic Backflush of Components - and All Storage Locations Managed by 3rd Party WMS | | | |
| [Create and Release Production Order](#unique_10) [page ] 11 | Production Supervisor - Discrete Manufacturing | Create Production Order (CO01) |  |
| [Material Staging](#unique_11)  [page ] 13 | Production Operator - Discrete Manufacturing | Stage Materials for Production (MF60) |  |
| [Check Idoc and Execute on Delivery in WMS](#unique_12) [page ] 14 | External System | Pick components and provide them to production supply area and send confirmation back |  |
| [Pick Components for Production](#unique_13) [page ] 15 | Production Operator - Discrete Manufacturing | Pick Components for Production Orders (CO27) |  |
| [Confirm Production Order for Semifinished Product](#unique_14) [page ] 16 | Production Operator - Discrete Manufacturing | Confirm Production Order Operation (CO11N). | The Enter Time Ticket for Production Order screen is displayed. |
| [Posting Goods Receipt for Production Order](#unique_15) [page ] 18 | Warehouse Clerk | Post Goods Receipt for Production Order (F0843) |  |
| [Check Idoc and Execute on Delivery in WMS](#unique_16)  [page ] 19 | External System | Post Goods Receipt of finished goods and send confirmation back |  |
| Production Order Processing for Semifinished Product with Automatic Backflush of Components - and Production Storage Location is Managed Centrally | | | |
| [Create and Release Production Order](#unique_17) [page ] 21 | Production Supervisor - Discrete Manufacturing | Create Production Order (CO01) | The Monitor Material Coverage Net and Individual Segments screen is displayed. |
| [Material Staging](#unique_18)  [page ] 23 | Production Operator - Discrete Manufacturing | Stage Materials for Production (MF60) |  |
| [Check Idoc and Execute on Delivery in WMS](#unique_19) [page ] 24 | External System | Provide components for production supply area and send back confirmation |  |
| [Confirm Production Order for Semifinished Product](#unique_20) [page ] 25 | Production Operator - Discrete Manufacturing | Confirm Production Order Operation (CO11N). | The Enter Time Ticket for Production Order screen is displayed. |
| [Check Idoc and Execute on Delivery in WMS](#unique_21)  [page ] 27 | External System | Post Goods Receipt for finished goods and send back confirmation |  |

# Test Procedures

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

## Production Order Processing for Semifinished Product without Automatic Backflush of Components – and All Storage Locations Managed by 3rd Party WMS

### Create and Release Production Order

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This scope item is focusing on the integration part of the process. It starts with the creation of a production order.

Prerequisite

The inventory needs to be checked before creating the production order to make sure, that not enough stock is available for the raw material or component in storage location 101J (which is the production storage location). If there is enough stock, no material staging is needed – and with that also no stock transfer/delivery.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP Fiori Launchpad | Log on to the SAP Fiori Launchpad as a Production Supervisor - Discrete Manufacturing (PRODN\_SUPERVISOR\_DISC). | The SAP Fiori Launchpad is displayed. |  |
| 2 | Access the App | Open Create Production Order (CO01). | The Production Order Create: Initial Screen is displayed. |  |
| 3 | Select Initial Values | Enter the following entries:  Material : SG224  Production Plant : 1010  Order Type: YBM1  Choose Continue. | The Production order Create: Header screen is displayed. |  |
| 4 | Maintain Header Values | Choose General > Quantities > Total Qty , enter 10.  Scroll down to the Scheduling section, in the Type field, select Current date.  Choose tab Goods Receipt (On the system message window, choose Continue), in the Receipt > Stor. Loc. field, enter 101I.  Select Tab Components, for component RM124, deselect the flag for Backflush and change the storage location to 101J.  Make sure you have unchecked Backflush and change the storage location to 101J before saving the production order.  Choose Release Order tab at the top menu, on the Release Order screen, choose Release Order button. | Message：Order has missing parts (see log) (=> This message is wanted to allow material staging.)  The Release Order screen is displayed.  Message: Release carried out(Please check log) |  |
| 5 | Save Order | Choose Save. | Message: Order number xxx saved. |  |

### Material Staging

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

Ensure that enough stock is available of the raw-material and all components in production area.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1. | Log on to SAP Fiori Launchpad | Log on to the SAP Fiori Launchpad as a Production Operator - Discrete Manufacturing (PRODN\_OPTR\_DISC). | 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 Order Information | On the Material Staging for Planned Orders screen, make the following entries:  Plant: 1010  Selection Horizon for Reqmts: <today + 3 days>  Choose Tab Production/Process Orders, in the Production Orders/Process Orders section, enter the following:  Order: <Production Order Number you noted>  Choose Execute. |  |  |
| 4. | Check the Pull List | Select the entry and choose Replenishment Proposals. | The Pull List: Storage Location Level screen is displayed.  One line with the chosen raw material or component should appear because there is not enough stock for this material available in 101J which is the storage location for the production.  The field Quantity staged is filled. |  |
| 5. |  | Mark the line,then choose tab Replenishment Elements and make the following entry:  RepLoc: 101I.  (Optional) Batch: batch number(for batch material only)  Mark the line, then choose Stage and Save. | A new grid is opened at the bottom of the screen.  In the current release, no message is displayed when using storage locations that are managed by 3rd Party. |  |

### Check Idoc and Execute on Delivery in WMS

Note Steps described in this chapter need to be processed in a 3rd-party WMS system.

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

Pick the needed components for the production and provide them to the production supply area.

Send confirmation back.

Check the corresponding configuration and receiving message in your 3rd-party WMS to get the required business data for completing all the necessary operational processes in the 3rd-party system.

### Pick Components for Production

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 components need to be picked to be ready for production.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP Fiori Launchpad | Log on to the SAP Fiori Launchpad as a Production Operator - Discrete Manufacturing (PRODN\_OPTR\_DISC). | The SAP Fiori Launchpad is displayed. |  |
| 2 | Access the App | Open Pick Components for Production Orders (CO27). | The Picking List: Initial Screen is displayed. |  |
| 3 | Enter Order Information | In the field Production Order, enter the order number, and choose Execute. | The Order Information System: Detail List of Components screen is displayed. |  |
| 4 | Perform Picking | Mark the row with RM124, and choose Picking.  Enter a quantity and mark the row with RM124.  Choose Post. | The Picking List screen is displayed. |  |

### Confirm Production Order for Semifinished Product

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

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

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1. | Log on to SAP Fiori Launchpad | Log on to the SAP Fiori Launchpad as a Production Operator - Discrete Manufacturing (PRODN\_OPTR\_DISC). | The SAP Fiori Launchpad is displayed. |  |
| 2. | Access the App | Open Confirm Production Order Operation (CO11N). | The Enter Time Ticket for Production Order screen is displayed. |  |
| 3. | Enter Time Ticket for Production Order | On the Enter Time Ticket for Production Order screen, make the following entries:  Order: <Production Order Number you noted>  Operation: for example, <operation 0010>  Confirm.type: select Final Confirmation.  Press Enter to show related information of the production order. |  |  |
| 4. | Fill Yield Field and To Confirm-Labor Field | Ensure that you have pressed Enter before this step.  In the Quantities > Yield field, enter the amount you want to confirm.  Go to the Activities section, in the To Be Confirmed and Unit fields, for Setup, enter a value (for example, <10> and <Unit of Hour(H)>) for the labor time and confirm with Enter. |  |  |
| 5. | Choose Goods Movements | Choose Goods Movements screen. | For operation number 0010, no goods movement are displayed because the components are already picked for production.  For operation number 0020, the goods receipt of the finished goods is triggered. |  |
| 6. | Save Your Entries | Choose Post to save. | Confirmation saved. |  |
| 7. | Repeat Steps | Repeat steps 3 to 6 for all remaining operations and save your entries. |  |  |

### Posting Goods Receipt for Production Order

Note Steps described in this chapter might be required for finished goods FG228.

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 purpose of this activity is to post the goods receipt for the production order.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP Fiori launchpad | Log on to the SAP Fiori launchpad as Warehouse Clerk. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Post Goods Receipt for Production Order (F0843). | The Post Goods Receipt for Production Order screen displays. |  |
| 3 | Enter Details | On the Post Goods Receipt for Production Order screen, make the following entries and Choose Enter:  Order: <Production Order Number> (From previous step) | Presettings might be changed by other processes. Check if the value in the Action field is Goods Receipt and the value in the Reference field should be Order. If not, maintain the same. |  |
| 4 | Check | In Items section, select the item. |  |  |
| 5 | Post | Choose Post. | Goods receipt for production order has been done. |  |

### Check Idoc and Execute on Delivery in WMS

Steps described in this chapter need to be processed in a 3rd-party WMS system.

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

Post goods receipt of finished goods and send confirmation back.

Check the corresponding configuration and receiving message in your 3rd-party WMS to get the required business data for completing all the necessary operational processes in the 3rd-party system.

### Check Stock Information

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 section the updated stock information is checked

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log onto the SAP Fiori launchpad as a Warehouse Clerk. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Display Warehouse Stock (MB52). | The Display Warehouse Stocks of Material screen displays. |  |
| 3 | Enter material | Make the following entries:  Material: <Material number>  Plant: <Plant>  Storage Location: <Storage Location>  Press Enter. | The Display Warehouse Stocks of Material shows. |  |
| 4 | Check stock | Check if the stock information is now updated and the decreased stock of the 3rd party WMS managed storage location is displayed |  |  |

## Production Order Processing for Semifinished Product with Automatic Backflush of Components – and Production Storage Location is Managed Centrally

### Create and Release Production Order

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This scope item is focusing on the integration part of the process. It starts with the creation of a production order.

Prerequisite

The inventory needs to be checked before creating the production order to make sure, that not enough stock is available for the raw material or component in storage location 101B (which is the production storage location). If there is enough stock, no material staging is needed – and with that also no stock transfer/delivery.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on to SAP Fiori Launchpad | Log on to the SAP Fiori Launchpad as a Production Supervisor - Discrete Manufacturing (PRODN\_SUPERVISOR\_DISC). | The SAP Fiori Launchpad is displayed. |  |
| 2 | Access the App | Open Create Production Order (CO01). | The Production Order Create: Initial Screen is displayed. |  |
| 3 | Select Initial Values | Enter the following entries:  Material : SG224  Production Plant : 1010  Order Type: YBM1  Choose Continue. | The Production order Create: Header screen is displayed. |  |
| 4 | Maintain Header Values | Choose General > Quantities > Total Qty , enter 10.  Scroll down to the Scheduling section, in the Type field, select Current date.  Choose tab Goods Receipt (On the system message window, choose Continue), in the Receipt > Stor.Location field, enter 101I.  Select Tab Components, for component RM124, select the flag for Backflush.  Choose Release Order tab at the top menu, on the Release Order screen, choose Release Order button. | Message：Order has missing parts (see log) (=> This message is wanted to allow material staging.)  The Release Order screen is displayed.  Message: Release carried out(Please check log) |  |
| 5 | Save Order | Choose Save. | Message: Order number xxx saved. |  |

### Material Staging

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

Ensure that enough stock is available of the raw material and all components in production area.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1. | Log on to SAP Fiori Launchpad | Log on to the SAP Fiori Launchpad as a Production Operator - Discrete Manufacturing (PRODN\_OPTR\_DISC). | 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 Order Information | On the Material Staging for Planned Orders screen, make the following entries:  Plant: 1010  Selection Horizon for Reqmts: <today + 3 days>  Choose Tab Production/Process Orders, in the Production Orders/Process Orders section, enter the following:  Order: <Production Order Number you noted>.  Choose Execute. |  |  |
| 4. | Check the Pull List | Check the entry and choose Replenishment Proposals. | The Pull List: Storage Location Level screen is displayed.  One line with RM124 should appear because there is not enough stock for this material available in 101B which is the storage location for the production.  The field Quantity staged is filled. |  |
| 5. |  | Mark the line, then choose tab Replenishment Elements and make the following entry:  RepLoc: 101I  Mark the line, then choose Stage and Save. | A new grid is opened at the bottom of the screen.  In the current release, no message is displayed when using storage locations that are managed by 3rd Party.  Outbound Delivery is created. |  |

### Check Idoc and Execute on Delivery in WMS

Steps described in this chapter need to be processed in a 3rd-party WMS system.

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. |

Context

Provide components for production supply area and send back confirmation.

Check the corresponding configuration and receiving message in your 3rd-party WMS to get the required business data for completing all the necessary operational processes in the 3rd-party system.

### Confirm Production Order for Semifinished Product

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

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

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1. | Log on to SAP Fiori Launchpad | Log on to the SAP Fiori Launchpad as a Production Operator - Discrete Manufacturing (PRODN\_OPTR\_DISC). | The SAP Fiori Launchpad is displayed. |  |
| 2. | Access the App | Open Confirm Production Order Operation (CO11N). | The Enter Time Ticket for Production Order screen is displayed. |  |
| 3. | Enter Time Ticket for Production Order | On the Enter Time Ticket for Production Order screen, make the following entries:  Order: <Production Order Number you noted>  Operation: for example, <operation 0010>  Confirm.type: select Final Confirmation.  Press Enter to show related information of the production order. |  |  |
| 4. | Fill Yield Field and To Confirm-Labor Field | Ensure that you have pressed Enter before this step.  In the Quantities > Yield field, enter the amount you want to confirm.  Go to the Activities section, in the To Be Confirmed and Unit fields, for Setup, enter a value (for example, <10> and <Unit of Hour(H)>) for the labor time and confirm with Enter. |  |  |
| 5. | Choose Goods Movements | Choose Goods Movements screen. | The system shows you an overview table of all materials for which the withdrawing is done automatically with the confirmation of the operation.  For operation number 0010, the material RM124 is set for backflush (in material master) so that the withdrawing is done automatically after you confirm the operation.  For operation number 0020, goods receipt for the finished good SG224 is automatically created. |  |
| 6. | Save Your Entries | Choose Post to save. | Confirmation saved. |  |
| 7. | Repeat Steps | Repeat steps 3 to 6 for operation number 0020 and save your entries. |  |  |

### Check Idoc and Execute on Delivery in WMS

Steps described in this chapter need to be processed in a 3rd-party WMS system.

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

Post Goods Receipt for finished goods and send back confirmation.

Check the corresponding configuration and receiving message in your 3rd-party WMS to get the required business data for completing all the necessary operational processes in the 3rd-party system.

### Check Stock Information

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 section the updated stock information is checked

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log onto the SAP Fiori launchpad as a Warehouse Clerk. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Display Warehouse Stock (MB52). | The Display Warehouse Stocks of Material screen displays. |  |
| 3 | Enter material | Make the following entries:  Material: <Material number>  Plant: <Plant>  Storage Location: <Storage Location>  Press Enter. | The Display Warehouse Stocks of Material shows. |  |
| 4 | Check stock | Check if the stock information is now updated and the decreased stock of the 3rd party WMS managed storage location is displayed |  |  |

# 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 |
| Period-End Closing - Plant (BEI) (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 - Plant.  Month-end closing can only be executed once a month. |

## SAP Application Interface Framework

Your system can exchange data messages with other systems, for example third-party Warehouse Management System, using various interface technologies. The Message Monitoring enables you to monitor these interfaces and their data messages, and execute error handling (if enabled) in a single framework.

For the features of AIF, please refer to the following links:

<https://help.sap.com/viewer/1cefaed5b7a3471cb08564e54d5ba866/3.0/en-US/d02c5cc67114450e848b74dfa6b11efb.html>

<https://help.sap.com/viewer/f544846954f24b9183eddadcc41bdc3b/1805.500/en-US/b0e61556c5317c65e10000000a44147b.html>

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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