|  |  |
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| Test Script  SAP S/4HANA - 24-08-20 | public |
| Demand-Driven Replenishment Planning and Execution (2QI\_DE) |

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# Purpose

Demand-driven replenishment (DD) helps you plan and manage supply chains efficiently based on customer demand, rather than through traditional MRP procedures. It forms the basis for a reliable material flow by defining buffers at strategically important points and adjusting these buffers regularly.

You can monitor demand-driven replenishment using an app that provides dedicated views for Replenishment Planning and Replenishment Execution. With Replenishment Planning, you have an overview of the buffer information sorted by planning priority. Using this information, you can trigger replenishment on time to avoid stock shortages and possible delays in the completion of production or sales orders as a result of insufficient stock. With Replenishment Execution you can view the current stock situation for each product and check that sufficient on-hand stock is available for production. Using this information, you can expedite replenishment directly through the app, and also by using readily available contact details, for example, by contacting the supplier of a purchase order or the production supervisor of the component production order.

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 |
| Internal Sales Representative | SAP\_BR\_INTERNAL\_SALES\_REP | Internal Sales | SAP\_BR\_INTERNAL\_SALES\_REP |  |
| Production Planner | SAP\_BR\_PRODN\_PLNR | Production Planning | SAP\_BR\_PRODN\_PLNR |  |
| Production Supervisor - Discrete Manufacturing | Discrete Manufacturing Execution Management | SAP\_BR\_PRODN\_SUPERVISOR\_DISC | SAP\_BR\_PRODN\_SUPERVISOR\_DISC |  |
| Production Operator - Discrete Manufacturing | SAP\_BR\_PRODN\_OPTR\_DISC | Discrete Manufacturing Execution | SAP\_BR\_PRODN\_OPTR\_DISC |  |
| Warehouse Clerk | SAP\_BR\_WAREHOUSE\_CLERK | Inventory Processing | SAP\_BR\_WAREHOUSE\_CLERK |  |
| Inventory Manager | SAP\_BR\_INVENTORY\_MANAGER | Inventory Management | 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 or the following sample data to go through the test procedure.

|  |  |  |  |
| --- | --- | --- | --- |
| Master | Value | Details | Details |
| Material | F-10A | FIN10A, MTS-DDMRP, PD |  |
| Material | F-10B | FIN10B, MTS-DDMRP, PD |  |
| Material | S-201 | SEMI201, MTS, D1, Subassembly |  |
| Material | S-202 | SEMI202, MTS, D1 |  |
| Material | S-301 | SEMI301, MTS, PD, Subassembly |  |
| Material | R-302 | RAW302, PD |  |
| Material | R-401 | RAW401, D1 |  |
| Plant | 1010 | Plant 1 DE |  |
| Storage Location | 101A | Std. storage 1 |  |
| Storage Location | 101B | Std. storage 2 |  |
| Storage Location | 101C | Raw mat. sto. loc. |  |

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 | Characteristics of Material | Optional Enhancements |
| F-10A | 0 | FERT | PC | Finished goods |  |
| S-201 | 1 | SEMI | PC | Semi-finished goods as decoupling point |  |
| S-301 | 2 | SEMI | PC | Semi-finished goods as decoupling point |  |
| R-401 | 3 | RAW | PC | External procured |  |
| R-302 | 2 | RAW | PC | External procured |  |
| F-10B | 0 | FERT | PC | Finished goods |  |
| S-201 | 1 | SEMI | PC | Semi-finished goods as decoupling point |  |
| S-301 | 2 | SEMI | PC | Semi-finished goods as decoupling point |  |
| R-401 | 3 | RAW | PC | External procured |  |
| R-302 | 2 | RAW | PC | External procured |  |
| S-202 | 1 | SEMI | PC | Semi-finished goods as decoupling point |  |

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

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 |

## 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 have completed the step described in the Test Script Standard Cost Calculation (BEG) |
| BNZ - Create New Open MM Posting Period | You have completed the step described in the Create New Open MM Posting Period (BNZ) master data script. Posting Period is up to date. |
| BJ5 - Make-to-Stock Production - Discrete Manufacturing | If you need to create production order for semi-finished DDR product, then after the production order is created, complete the following activities described in the test script Make-to-Stock Production - Discrete Manufacturing (BJ5).   * Material Staging for Subassembly (Semi-finished Good). Make sure that the required components are available in stock. * Picking Components (Semi-finished Good) * Confirming Production Operations for Subassembly (Semi-finished Good) – please note the order confirmation date and order release date * Post Goods Receipt for Production Order |
| J45 - Procurement of Direct Materials | If you require to create purchase order for semi-finished DDR product or raw DDR product, complete the following activi-ties described in the test script J45 - Procurement of Direct Materials.   * Create Purchase Order manually * Post Goods Receipt for Purchase Order |
| 1Y2 - Demand-Driven Buffer Level Management | You have completed the step described in the Test Script Demand-Driven Buffer Level Management (1Y2) to calculate the buffer levels for buffered products, S-201, S-202 and R-401. |

## Preliminary Steps

### Create Initial Stock

Purpose

We need to make the components of S-201 available for production. In a real business case, the products are usually purchased from external suppliers in that case, process is covered by the standard purchasing or subcontracting processes. For the purpose of this test, we post initial stock directly to the storage locations.

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 | Specify Material | Make the following entries and choose Enter:   * Material: S-301 * Plant: 1010 | The Stock overview for the product is displayed. |  |
| 4 | Select Stock | In the screen, you can check Storage Location, Unrestricted-Use Stock, Blocked Stock, Stock in Quantity Inspection.  Choose the Unrestricted - Use Stock icon for relevant storage location.   * Storage Location: 101B | If current quantity for S-301 in storage location 101B is enough, then skip step 5.  The storage location is 101B for SXX and 101C for RXX products. |  |
| 5 | Add Initial Entry | Make the following entries and choose Post:   * Document Date: Today * Posting Date: Today * Stock Change: Initial Entry * Quantity: <Quantity>, for example, 300 | The system displays Material document XXX created. The stock has been added. |  |
| 6 | Create Initial Stock for R-302 | Repeat step 3 -5 for material R-302, storage location: 101C. |  |  |

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.

### Maintain Rounding Value

Purpose

In this step, rounding value for product S-201 is maintained.This value will be considered later when calculating the demand for product.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as a Master Data Specialist - Product Data (MDG). | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Change Material (MM02). | The Change Material (Initial Screen) screen displays. |  |
| 3 | Select Material | Enter the material details and choose Enter.  Material: S-201  Select the MRP1 view and choose Continue icon.  Enter the plant details and choose Continue icon.  Plant: 1010 | The Change Material S-201 (Semifinished Product) screen displays. |  |
| 4 | Enter Rounding Value | In the MRP1 view, check the following data.  Rounding value: <Quantity>, for example, 100 | You can enter the rounding value, it is used to adjust quantity for planned order in replenishment apps. |  |
| 5 | Choose Save | Choose Save. | Material XXX changed. |  |

# Overview Table

The Accounts Payable scope item consists of several process steps provided in the following table.

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 .

Master Data

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Business Role | Transaction/App | Expected Results |
| Replenishment Planning | | | |
| [Replenishment Planning Review](#unique_10) [page ] 12 | Production Planner | Replenishment Planning - By Planning Priority (F2831) | You can review the initial planning priority, net flow position and proposed quantity for buffered product S-201. |
| Create Demand for Finished Goods | | | |
| Create Sales Order (Option 1) | | | |
| [Create Sales Order for Finished Goods](#unique_11) [page ] 15 | Internal Sales Representative | Manage Sales Orders (F1873) | The sales order for finished goods, F-10A is created. |
| [Schedule MRP Runs](#unique_12) [page ] 16 | Production Planner | Schedule MRP Runs (F1339) | You can execute MRP runs for finished goods, F-10A. |
| [Convert Planned Order to Production Order](#unique_13) [page ] 18 | Production Planner | Check Material Coverage (F0251) | The planned order of F-10A is converted into production order. |
| Create Sales Order (Option 2) | | | |
| [Create Production Order (Option 2)](#unique_14) [page ] 19 | Production Supervisor - Discrete Manufacturing | Create Production Order (CO01) | The production order for finished goods, F-10A is created. |
| [Succeeding Production Execution](#unique_15) [page ] 20 | Several roles | Several apps | Refer to scope item BJ5 - Make-to-Stock Production - Discrete Manufacturing  ● Release Production Order for Final Assembly  ● Pick components for Final Assembly  ● Final Confirmation of Production Operations for Final Assembly  ● Post Goods Receipt for Final Assembly |
| [Check Planner Overview](#unique_16) [page ] 21 | Production Planner | Planner Overview (F2832) | You can check the overview page for 3 demand-driven replenishment relevant apps |
| [Replenishment Planning](#unique_17) [page ] 23 | Production Planner | Replenishment Planning - By Planning Priority (F2831) | You can execute replenishment planning supply creation for buffered production.  You can review the planning status after MRP run. |
| Replenishment Execution | | | |
| [Replenishment Execution](#unique_18) [page ] 26 | Production Planner | Replenishment Execution - By On-Hand Status (F2831) | You can review initial on-hand stock status for buffered product, S-201. |
| [Post Goods Issue](#unique_19) [page ] 29 | Warehouse Clerk | Post Goods Movement (MIGO) | Trigger goods issue to reduce available on-hand stock. |
| [Replenishment Execution Review](#unique_20) [page ] 30 | Production Planner | Replenishment Execution - By On-Hand Status (F2831) | You can review on-hand stock status for buffered product, S-201, and expedite supply. |
| [Succeeding Production Execution](#unique_21) [page ] 32 | Several roles | Several apps | Refer to scope item BJ5 - Make-to-Stock Production - Discrete Manufacturing  ● Release Production Order for Final Assembly  ● Pick components for Final Assembly  ● Final Confirmation of Production Operations for Final Assembly |
| [Post Goods Receipt](#unique_22) [page ] 33 | Warehouse Clerk | Post Goods Movement (MIGO) | You can post goods receipt for production order of S-201 |
| [Replenishment Execution Review](#unique_23) [page ] 34 | Production Planner | Replenishment Execution - By On-Hand Status (F2831) | You can review on-hand stock status for buffered product, S-201 after production execution |

# Test Procedures

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

Note Before you start the test procedure, please confirm you have completed all the step described in the Test Script Demand-Driven Buffer Level Management (1Y2) to calculate the buffer levels for buffered products, S-201, S-202 and R-401.

In demand-driven replenishment, the planning run is the process step that is used to generate new supply elements. In consumption-based planning procedures, a supply element is created when the stock level falls below a predefined, static reorder point. In demand-driven replenishment, however, the planning run creates a new supply element (such as a purchase requisition, a planned order, or a stock transfer requisition) when the net flow position falls below the reorder point that is maintained in stock level management or, if not here, then in the material master.

## Replenishment Planning

### Replenishment Planning Review

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 an overview of the buffer information sorted by the planning priority. Using this information, you can trigger replenishment on time to avoid stock shortages and possible delays in the completion of production or sales orders as a result of insufficient stock.

You can check if the planning priority status is green in app Replenishment Planning by Planning Priority.

If yes, please proceed to step [Create Demand for Finished Goods](#unique_25) [page ] 14

If no, please skip and proceed to step [Check Planner Overview](#unique_16) [page ] 21

Net flow position (NFP) is the quantity of stock derived from net flow equation, which is summing up the on-hand stock and the open supply, and subtracting the actual unfulfilled demand, which includes sales orders due on the current date, sales orders that are overdue and qualified order spikes, if any.

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 is displayed. |  |
| 2 | Access the App | Open Replenishment Planning - By Planning Priority (F2831). | The Demand Driven Replenishment screen displays. |  |
| 3 | Filter Product | On the Demand-Driven Replenishment screen, make the following entries and choose Go:   * Search: S-201 * Planning Priority Status: <Mark all status> | You could customize the filters by choosing Adapt Filters.  If there are no results displayed in the system, also confirm whether the Area of Responsibility is correctly maintained for plant 1010.  Choose User > App Settings , then the Area of Responsibility screen displays. |  |
| 4 | Check Results for Filtered Products | You could see the columns of Planning Priority, Net Flow Position, Proposed Quantity, Planning Action for buffered product S-201.  Choose Settings icon to display the buffer levels, Maximum stock, Reorder Point, and Safety stock.  Or you could choose against Product S-201, the screen displays with product general information, Safety Stock, Reorder Point, Maximum Stock and Decoupled Lead Time.  You could also navigate to links, Manage Buffer Levels (F2706), Manage Product Master Data (F1602) and so on.  Note down the Net Flow Position, Proposed Quantity, Reorder Point for buffered product S-201. | You could customize the columns by choosing Settings icon.  Planning priority = Net Flow Position / Maximum Stock  Net Flow Position = On-Hand Stock Open Supply - Open Past (Including Today’s) Demand - Qualified Spike Demand.  Qualified demand is a real demand that derived from a production order or sales order, instead of from a planned order.  Qualified Spike Demand: When calculating qualified spike demand, the system considers the open, future quantities of aggregated daily demands. A qualified spike is a future daily demand that lies above the spike threshold and within the spike horizon.   1. If Net Flow Position is above Reorder Point, Proposed Quantity and Planning Action remains blank, the status is green.   Proceed to step [Create Demand for Finished Goods](#unique_25) [page ] 14.   1. If Net Flow Position is below Reorder Point, require to trigger replenishment to maximum stock level, Proposed Quantity displays non-zero value, Planning Action displays Create Supply, the status is red or yellow.   Skip and proceed to step Check Planner Overview. |  |

### Create Demand for Finished Goods

In the following activities, you could create demand for finished goods F-10A to bring the planning status of buffered product S-201 into yellow or red.

Here are two options, tester could choose either option 1 or option 2 to create demand for finished goods.

Option 1. Create sales order

Option 2. Create production order

And the quantity of the production order or sales order is quite critical. It could consume the stock of S-201 and could just make the net flow position of S-201 to drop below its current reorder point, thus bring the planning status of buffered product S-201 into yellow or red.

The quantity of production order or sales order for F-10A shall be greater than the net flow position of S-201 subtracting reorder point of S-201.

Sales/Production order quantity for F-10A > NFP – reorder point for S-201

After finish the chapter, please proceed the step [Check Planner Overview](#unique_16) [page ] 21

#### Create Sales Order (Option 1)

If you choose option 1 create sales order, please skip step [Create Production Order (Option 2)](#unique_14) [page ] 19 and and proceed to step [Succeeding Production Execution](#unique_15) [page ] 20.

##### Create Sales Order for Finished Goods

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This process step shows you how to create the sales order for finished products F-10A. Pay attention to create the correct sales quantity.

The quantity of sales order for F-10A should be greater than the net flow position of S-201 subtracting reorder point of S-201.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as an Internal Sales Representative. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Sales Orders (F1873). | The Manage Sales Orders (F1873) screen displays. |  |
| 3 | Navigate to Create Sales Order Screen | On the Manage Sales Orders (F1873) screen, choose Create Sales Order . |  |  |
| 4 | Enter the Order type OR (Standard Order) | On the Create Sales Documents screen, make the following entries and choose Enter:   * Order Type: OR * Sales Organization: 1010 * Distribution Channel: 10 * Division: 00 |  |  |
| 5 | Enter Order Details | On the Create Standard Order: Overview screen, make the following entries:   * Sold to Party: 10100003 * Ship to Party: 10100003 * Cust. Reference: <Reference number> * Material Number: F-10A * Quantity: <Quantity> | The quantity for sales order is quite critical, tester himself should decide the proper sales order quantity to make fol lowing scenario.  First review current buffer results and NFP quantity for S-201 in step [Replenishment Planning Review](#unique_10) [page ] 12  Regarding to design the sales order quantity, it could consume current stock of S-201 and could make the NFP of S-201 drop below its current reorder point, and would later trigger replenishment.  Sales order quantity for F-10A > NFP - reorder point for S-201 |  |
| 6 | Save Document | Choose Save. Make a note of the sales order number. | The order is saved.  Note If the sales order might require approval, refer to scope item Sell from Stock (BD9), and complete the activities of Process Sales Order Approval. |  |

##### Schedule MRP Runs

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 execute MRP.

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 F-10A>   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 F-10A * 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 F-10A 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. |  |

##### Convert Planned Order to Production Order

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This process step shows you how to convert the planned order for F-10A to production order, which is a qualified demand for the buffered product S-201.

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 Check Material Coverage (F0251). | The Find Material screen displays. |  |
| 3 | Select Material | On the Find Material screen, make the following entries and choose OK:   * Material: F-10A * Plant: 1010 * Shortage Definition: MRP Standard | The Manage Material Coverage screen displays. |  |
| 4 | Find Planned Order | Check the generated planned order. |  |  |
| 5 | Convert Planned Order to Production Order | Choose Convert in Actions column for PldOrd XXX, and confirm End Date and Quantity.  Choose OK. | The production order is created.  Note down the production order number for product F-10A. |  |

#### Create Production Order (Option 2)

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 activity, the production order for finished products F-10A is created as qualified demand for S-201 directly. Pay attention to creating the correct order quantity.

The quantity of production order for F-10A shall be greater than the net flow position of S-201 subtracting reorder point of S-201.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access the SAP Fiori App | Open Create Production Order (CO01). | The Production Order Create: Initial Screen displays. |  |
| 3 | Enter the Order Information | Make the following entries:   * Materials : F-10A * Production Plant: 1010 * Order Type: YBM1   and Choose Enter. | The Production Order Create: Header screen displays. |  |
| 4 | Enter the Order Details | Make the following entries:   * Quantity: Quantity * End Date: Date, for example, Today's date +2 Days   and choose Enter. | The quantity for production order is quite critical.  Please first review current buffer results and NFP quantity for S-201 in step [Replenishment Planning](#unique_17) [page ] 23.  Regarding to design the production order quantity, it could consume current stock of S-201 and could just make the NFP of  S-201 drop below its current reorder point, and would later trigger replenishment.  Production order quantity for F-10A > NFP - reorder point for S-201 |  |
| 5 | Save | Choose Save and make a note of your production order number |  |  |

#### Succeeding Production Execution

After convert the planned order to production order, please execute traditional production execution for product F-10A, refer to scope item BJ5 - Make-to-Stock Production - Discrete Manufacturing

Execute traditional production execution from the lowest BOM layer.

● Release Production Order for Final Assembly

● Pick components for Final Assembly

● Final Confirmation of Production Operations for Final Assembly

● Post Goods Receipt for Final Assembly

### Check Planner Overview

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 activity, you can check the overview page for 3 DDR relevant apps, manage buffers levels, replenishment execution by on-hand status and replenishment planning by planning priority.

The Planner Overview (F2832) shows in a single page the most important information and tasks related to demand-driven replenishment that are relevant for you right now. The information is displayed on set of cards. This allows you to focus on the most important tasks, and view, filter, and react to information quickly.

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 Planner Overview (F2832). | The Planner Overview (F2832) screen displays.  Please confirm whether the Area of Responsibility is correctly maintained for plant 1010.  Click User > App Settings > Area of Responsibility, then  Area of Responsibility Screen displays. |  |
| 3 | Check the General Information | In the Buffer Level Management area, the quantity of deviations is supported by system proposals, it is same with the buffer values that displays in app Manage Buffer Level, it usually indicates the number of materials whose proposal shall be processed.  In the Replenishment Planning area, the quantity is based on planning priority. It is same with the buffer value that displays in the app Replenishment Planning By Planning Priority, it usually indicates the number of materials whose net flow position is below reorder point, or below safety stock, or at 0 or below with demand.  In the Replenishment Execution area, the quantity is based on on-hand stock status. It is same with the buffer value that displays in the app Replenishment Exectuion By On-Hand Status, it usually indicates the number of materials whose on-hand stock is out of stock with demand, or below On-Hand Alert Threshold, or below safety stock. |  |  |
| 4 | Check the Detailed Information | In all three section, you could choose different mode of characteristic to breakdown the buffers.   1. Breakdown by Value (ABC) 2. Breakdown by Lead Time (EFG) 3. Breakdown by Variability (XYZ) 4. Breakdown by BOM Usage (PQR) 5. Breakdown by Procurement Type   What’s more, you could click against each breakdown bar, it will navigate to such buffers in relevant DDR apps.  For example, in Replenishment Planning area, you choose mode - Breackdown by Value(ABC).  You approach the bar for value A, the information displays as   * Value Indicator: A * Buffers to Be Replenished: xx   Then click the bar, the Demand-Driven Replenishment screen displays, and the buffers whose value indicator is A display in the Buffers area. |  |  |

### Replenishment Planning

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This process step shows you an overview of the buffer information sorted by the planning priority. Using this information, you can trigger replenishment on time to avoid stock shortages and possible delays in the completion of production or sales orders as a result of insufficient stock.

At this time, the planning priority shall be in yellow/ red, the net flow position shall be lower than reorder point and the proposed quantity shall be non-zero.

If not, then it indicates that the quantity for sales order/production order of finished goods is not proper in step 4.2 Create Demand for Finished Goods.

Please return to step [Create Demand for Finished Goods](#unique_25) [page ] 14 to set a proper quantity.

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 Replenishment Planning - By Planning Priority (F2831) . | The Demand Driven Replenishement screen displays. |  |
| 3 | Filter Product | On the Demand Driven Replenishment screen, make the following entries and choose Go:   * Search: S-201 * Planning Priority Status: Mark all status | You could customize the filters by choosing Adapt Filters.  If there are no results displayed in the system, please confirm whether the Area of Responsibility is correctly maintained for plant 1010.  Choose User > App Settings > Area of Responsibility , then Area of Responsibility Screen displays. |  |
| 4 | Check Results for Filtered Products | You could see the columns of Planning Priority, Net Flow Position, Proposed Quantity, Planning Action for buffered product S-201.  Choose Settings icon to display the buffer levels, Maximum stock, Reorder Point, Safety stock. | You could customize the columns by choosing Settings icon.  Planning priority = Net Flow Position / Maximum Stock  Net Flow Position = On-Hand Stock + Open Supply - Open Past (Including Today’s) Demand - Qualified Spike Demand.  At this time, the planning priority shall be in yellow/red, the net flow position shall be lower than reorder point, the proposed quantity shall be non-zero, the button Create Supply shall display for product S-201. |  |
| 5 | Choose Create Supply | Create Supply only occurs if proposed quantity is non-zero.  Choose Create Supply to trigger MRP for buffered product S-201. | The dialog box displays Supply Order creation in progress with job ID XXX.  If Create Supply is missing, return to step [Create Demand for Finished Goods](#unique_25) [page ] 14 again to set a proper quantity for sales order/production order.  You can also choose the checkbox of product S-201, then choose Create Supply on the top to trigger mass change.  Then Supply order creation in progress with job ID XXX displays, note down the job ID. Choose Logs and navigate to Application Jobs screen, choose Filters and filtered by Job ID and choose Go.  You can choose Navigate to the job log and Navigate to the job details for the filtered job to see more information.  Go back to Demand-Driven-Replenishement screen. |  |
| 6 | Check Replenishment Details | Choose the row for buffered product S-201, it navigates to Replenishment Details screen.  You could choose Expand Node icon to check the low-level material for buffered product S-201.  You could also check the Supply/Demand List, Product Information.  In the Supply/ Demand List area, you can switch All MRP Elements or DD-Relevant MRP Elements.  The MRP elements display with Date, MRP element, Actions,Additional Information, Spike, Quantity and Projected Stock.  In the Product Information area, Product Data, MRP Data, Lot Sizing, Scheduling and Source of Supply display. | The screen Replenishment Details displays. |  |
| 7 | Convert Planned Order into Production Order | In the Supply/ Demand List area, you can see the new PldOrd XXX with the rounding quantity of Proposed Quantity.  Choose the expand icon in Actions. You can choose Edit or Convert or Delete for planned order.  Choose Convert.  Then choose Convert on the Convert screen.  The PrdOrd XXX displays as MRP element, you can choose it and choose Display Production Order, and it navigates to Production Order Display: Header screen.  Note down the production order number. | The selected planned order is converted to Production Order: XXX.  You can choose Edit or Convert or Delete for planned order.  If the material has rounding value defined in MRP1 view in material master data, then it supports Apply Rounding when editing.  You can only choose Edit for production order.  You can choose Create Order button if necessary. |  |
| 8 | Check Results | Go to Replenishment Details screen and choose back icon.  Check the updated Net Flow Position, it shall be same value as or a little bigger value than maximum stock quantity.  Check the updated Proposed Quantity, the value shall be blank this time.  Check the updated Planning Priority, it should be 100.00% in green or above 100% in black. | Now the planning status is changed from yellow/red into green or black depending on the resulting stock level. If 100% of max. stock the status is green but when above 100% of max. stock the status turns black. |  |

## Replenishment Execution

### Replenishment Execution

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 activity, you can check the On-hand Stock status for buffered products, S-201.

If the on-hand stock is above safety stock, then please proceed step [Post Goods Issue](#unique_19) [page ] 29.

If the on-hand stock is under alert (below safety stock) and you could see Expedite Supply button, then please skip and proceed to step [Replenishment Execution Review](#unique_20) [page ] 30.

If the on-hand stock is under alert (below safety stock) and you could only see Expedited On XXX information, then please skip and proceed to step [Succeeding Production Execution](#unique_21) [page ] 32

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 Replenishment Execution - By On-Hand Status (F2831) . | TheDemand Driven Replenishement screen displays. |  |
| 3 | Filter Product | On the Demand Driven Replenishment screen, make the following entries and choose Go:   * Search: S-201 * On-Hand Stock Status: Mark all status | You could customize the filters by clicking  Adapt Filters button.  If there are no results displayed in the system, please confirm whether the Area of Responsibility is correctly maintained for plant 1010.  Click User > App Settings > Area of Responsibility, then  Area of Responsibility Screen displays. |  |
| 4 | Check Results for Filtered Products | You could see the columns of On-Hand Buffer Status, On-Hand Stock, Open Supply, and Execution Action for buffered product, S-201.  Please choose Settings icon to display the buffer levels, Maximum stock, Reorder Point, Safety stock.  Or you could click against Product S-201, the screen displays with product general information, Safety Stock, Reorder Point, Maximum Stock and Decoupled Lead Time.  You could also navigate to links, Manage Buffer Levels (F2706), Manage Product Master Data (F1602) and Planner Overview (F2832). | You could customize the columns by click Settings icon.  On-Hand Buffer Status = On-hand stock / Safety Stock |  |
| 5 | Check Expedite Supply | Check whether the Expedite Supply button displays or On-Hand Buffer Status is below 100% for buffered product, S-201.  If yes, then skip and proceed to step [Replenishment Execution Review](#unique_20) [page ] 30.  If nothing displays in Expedite Action column, then proceed to step [Post Goods Issue](#unique_19) [page ] 29.  If the status information displays in Expedite Action column, which indicates you have expedited the open supply before and current scenario is not worse, so please skip and proceed to step [Succeeding Production Execution](#unique_21) [page ] 32 | Note down the On-Hand Stock, Open Supply, Safety Stock for buffered product S-201.  In column Expedite Action, non-blank value displays when the on-hand stock is below safety stock and open supply quantity is not zero.   1. If the material is not expedited before, then Expedited Supply button displays. 2. If the material is expedited before,    1. If the open supply quantity is more than expedited supply quantity last time or the current on-hand stock status is lower than the on-hand stock status for last expedited execution, the Expedited Button displays.    2. If not, then the status information like Expedited on XXX displays.   So, if the Expedite Supply button is missing here, please analysis the scenario and choose proper action. |  |
| 6 | Check Replenishment Details | Choose the row for buffered product S-201, it will navigate to Replenishment Details screen.  You could choose Expand Node icon to check the low level material for buffered product S-201.  You could also check the Supply/Demand List, Product Information.  In Supply/ Demand List area, stock requirements list with Date, MRP element, Additional Information, Spike, Quantity, and Projected Stock.  In Product Information area, Product Data, MRP Data, Lot Sizing, Scheduling and Source of Supply display. | A new screen displays for replenishment details, supply/demand list and product information |  |

### Post Goods Issue

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 activity, goods issue will be posted for buffered product S-201, to make the on-hand stock status changing into Below Safety Stock.

And the quantity of the goods issue is quite critical. It could consume the on-hand stock of S-201 and could just make it drop below safety stock.

Quantity of goods issue shall be bigger that on-hand Stock subtractin safety stock. (GI quantity > on-hand stock - safety stock)

After finish the step, please proceed to step [Replenishment Execution Review](#unique_20) [page ] 30.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log on to the SAP Fiori Launchpad as a Warehouse Clerk. | The SAP Fiori Launchpad displays. |  |
| 2 | Access the App | Open Post Goods Movement (MIGO). | The Post Goods Movement (MIGO) screen displays. |  |
| 3 | Choose Goods Issue-Other | Choose Goods Issue-Other. |  |  |
| 4 | Specify Material | Make the following entries and choose Enter:   * Document Date : <Today’s date> * Posting Date: <Today’s date> * Movement type: 201 * Material: S-201 * Quantity: <Quantity> * Plant: 1010 * Storage Location: 101B for S-XX and 101C for R-XX products. | Please make sure that the quantity shall never be larger than the on-hand stock level.  GI quantity > on-hand stock - safety stock and GI quantity < on-hand stock. On-hand stock and safety stock is the quantity you noted down in step [Replenishment Execution](#unique_18) [page ] 26. |  |
| 5 | Enter Cost Center | In the Account Assignment tab:   * Cost Center : <Cost Center> - you can search with company code 1010, and choose cost center, for example, 10101301 |  |  |
| 6 | Check | Choose Check. | Document is ok. |  |
| 7 | Post | Choose Post. | Material document XXX posted. |  |

### Replenishment Execution Review

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 check the On-hand Stock status for buffered products S-201.

The on-hand stock is expected to be under alert (below safety stock). If not, then return to step 4.2.3 [Post Goods Issue](#unique_19) [page ] 29 to do so.

With this App, you can view today's stock situation for each product and check that sufficient on-hand stock is available for production. Using this information, the planner can try to speed up replenishment by contacting the supplier of a purchase orders or the production supervisor of the component production order.

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 Replenishment Execution - By On-Hand Status (F2831). | The Demand Driven Replenishement screen displays.  You could also refer to step [Check Planner Overview](#unique_16) [page ] 21 and navigate to Replenishment Execution - By On-Hand Status (F2831) App as well. |  |
| 3 | Filter Product | On the Demand Driven Replenishment screen, make the following entries and choose Go:   * Search: S-201 * On-Hand Stock Status: Mark all status | You could customize the filters by choosing Adapt Filters.  If there are no results displayed in the system, confirm whether the Area of Responsibility is correctly maintained for plant 1010.  Choose User > App Settings > Area of Responsibility , then Area of Responsibility Screendisplays. |  |
| 4 | Check Results for Filtered Products | You could see the columns of On-Hand Buffer Status, On-Hand Stock, Open Supply, and Execution Action for buffered product S-201.  Choose Settings icon to display the buffer levels, Maximum stock, Reorder Point, Safety stock. | You could customize the columns by choosing Settings icon.  On-Hand Buffer Status = On-Hand Stock / Safety Stock |  |
| 5 | Choose Expedite Supply | The Expedite Supply occurs for buffered product S-201.  Choose Expedite Supply. The Expedite Supply screen displays. | If Expedite Supply is missing in the Expedite Action column.   1. If nothing displays in Expedite Action column, return to step [Post Goods Issue](#unique_19) [page ] 29 again to set a proper quantity for goods issue of S-201. 2. If the status information displays in Expedite Action column, which indicates you have expedited the open supply before and current scenario is not worse, so please proceed to step [Succeeding Production Execution](#unique_21) [page ] 32. |  |
| 6 | Check Details | On the Expedite Supply screen, you could see generic information, like On-Hand Buffer Status, On-Hand Stock, Below On-Hand Alert Threshold by and Below Safety Stock by fields.  The open supply listed in the order section.  You can see Order Progress information.  For unconfirmed production order, you can change Planned Availability Date into an earlier date and choose Save and Expedite. Then the successful information screen displays.  You could choose PrdOrd XXX in ID column to navigate into the Manage Product Master Data screen to see order details. | You have successfully expedited supply. |  |

### Succeeding Production Execution

After convert the planned order to production order, please execute traditional production execution for product S-201, refer to scope item BJ5 - Make-to-Stock Production - Discrete Manufacturing.

Execute traditional production execution.

* Release Production Order for Final Assembly
* Pick components for Final Assembly
* Final Confirmation of Production Operations for Final Assembly

### Post Goods Receipt

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 of S-201.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as a Warehouse Clerk. | The SAP Fiori Launchpad displays. |  |
| 2 | Access the Fiori App | Open Post Goods Movement (MIGO). | The Post Goods Movement (MIGO) screen displays. |  |
| 3 | Enter Goods Receipt Order Data | Make the following entries:  On the top left frame, enter Goods Receipt and Order.   * Order: <Production order number you noted before> * GR goods receipt: 101 * Document date: default * Posting date: default | Screen name can deviate until the first two entries are selected with Enter.  The production order is what you noted down in step Convert Planned Order to Production Order for buffered product S-201. |  |
| 4 | Enter Quantity | Choose the Quantity tab and enter the quantity you confirmed in the previous step. |  |  |
| 5 | Choose Storage Location | On the Where tab, choose the storage location 101B, which is Std. storage 2 |  |  |
| 6 | Set Item OK Indicator | Set Item OK indicator for each item. |  |  |
| 7 | Check and Post | Choose Check and then choose Post. | The system displays the message: Material document 500xxxxxxx posted. |  |

### Replenishment Execution Review

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 activity, you can check the On-hand Stock status for buffered products, S-201.

The on hand stock is increased now.

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 Replenishment Execution - By On-Hand Status (F2831). | The Demand Driven Replenishement screen displays. |  |
| 3 | Filter Product | On the Demand Driven Replenishment screen, make the following entries and choose Go:   * Search: S-201 * On-Hand Stock Status: Mark all status | You could customize the filters by clicking  Adapt Filters button.  If there are no results displayed in the system, please confirm whether the Area of Responsibility is correctly maintained for plant 1010.  Click User > App Settings > Area of Responsibility, then  Area of Responsibility Screen displays. |  |
| 4 | Check Results for Filtered Products | You could see the columns of On-Hand Buffer Status, On-Hand Stock, Open Supply, and Execution Action for buffered product, S-201.  Please choose Settings icon to display the buffer levels, Maximum stock, Reorder Point, Safety stock. | You could customize the columns by click Settings icon.  On-Hand Buffer Status = On-Hand Stock / Safety Stock. |  |
| 5 | Check Replenishment Details | Choose the row for buffered product S-201, it will navigate to Replenishment Details screen.  The stock quantity is increased. | The screen Replenishment Details displays. |  |

# Appendix

## Succeeding Processes

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

|  |  |
| --- | --- |
| Process | Business Condition |
| 1Y2 - Demand-Driven Buffer Level Management | After replenishment execution, you could proceed scenario 1Y2 - Demand-Driven Buffer Level Management.  The replenishment process shall loop back into buffer postioning to continuously improve material flow and process flow. Scenarios 2QI and 1Y2 are in a loop. |

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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