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| Test Script  SAP S/4HANA - 21-08-20 | public |
| Basic Available-to-Promise Processing (2LN\_DE) |

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# Purpose

A product availability check can be executed for planned orders, production orders, deliveries, sales orders and stock transport orders and results in the order document containing one or more confirmed schedule lines.

If the available quantity of a material is restricted and thus insufficient to fulfill requirements, backorder processing can be performed for sales orders and stock transport orders in alignment with a specific business strategy. Backorder processing results in the reprioritization of requirements and the generation of confirmations and can be scheduled to run automatically and periodically.

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 |  |
| Order Fulfillment Manager | SAP\_BR\_ORDER\_FULFILLMNT\_MNGR | Order Fulfillment Management | SAP\_BR\_ORDER\_FULFILLMNT\_MNGR |  |
| Administrator | SAP\_BR\_ADMINISTRATOR | Administration | SAP\_BR\_ADMINISTRATOR |  |

## Master Data, Organizational Data, and Other Data

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

Use your own master data or the following sample data to go through the test procedure.

|  |  |  |  |
| --- | --- | --- | --- |
| Master | Value | Details | Comments |
| Material | TG11 | Trading Good for Reg. Trading (MRP planning)  No serial number, no batch | See Business Conditions and Preliminary Steps sections .  Use TG11 to test customer material, recorded with customer 10100009. |
| Material | TG12 | Trading Good for Reg. Trading (reorder point planning)  No serial number, no batch | See Business Conditions and Preliminary Steps sections. |
| Material | TG21 | Trad.Good 21,Reorder Point,Batch-FIFO  No serial number, batch controlled (FIFO strategy) | Only use if you have activated Batch Management (BLG) (BLH)(BLJ)(2EG)(BLP) building block.  See Business Conditions and Preliminary Steps sections. |
| Material | TG22 | Trad.Good 22,Reorder Point,Batch-ExpD  No serial number, batch controlled (Exp. Date) | Only use if you have activated Batch Management (BLG) (BLH)(BLJ)(2EG)(BLP) building block.  See Business Conditions and Preliminary Steps sections. |
| Material | CM-FL-V00 | Forklift | Only use if you have activated Make-to-Order Production with Variant Configuration (1YT). |
| Material | SM0001 | Service Material 01 |  |
| Material | NS0002 | Non-stock Material 02 |  |
| Sold-to Party | 10100003  10100005  10100008  10100009  10100008  10100009 | Customer domestic 03  Customer domestic 05 | You can test the scope item using another domestic customer.  10100005 is for credit management.  10100008 is for material listing or exclusion  10100009 is for customer material record and POD (Proof-of-Delivery) |
| Ship-to Party | 10100003  10100005  10100008  10100009 | Customer domestic 03 Customer domestic 05  Domestic DE Customer 8  Domestic DE Customer 9 |  |
| Payer | 10100003  10100005  10100008  10100009  10100008  10100009 | Customer domestic 03  Customer domestic 05  Domestic DE Customer 8  Domestic DE Customer 9  Domestic DE Customer 8  Domestic DE Customer 9 |  |
| Plant | 1010 | Plant 1 DE |  |
| Storage Location | 101A | Std. storage 1 |  |
| Shipping Point | 1010 | Shipping Point 1010 |  |
| Sales Organization | 1010 | Dom. Sales Org |  |
| Distribution Channel | 10 | Direct Sales |  |
| Division | 00 | Product Division 00 |  |

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_OP_ENTPR/BP_OP_ENTPR_S4HANA2020_7_Master_Data_EN_XX.htm) :

Table 1: Master Data Script Reference

|  |  |
| --- | --- |
| MDS | Description |
| BNF | Create Product Master of Type "Trading Good" |
| BND | Create Customer Master |
| 2YX | Create Customer-Material Info Record |

## Business Conditions

The business process described in this Test Script is part of a bigger chain of integrated business processes or scope items. As a consequence, you must have completed the following processes and fulfilled the following business conditions before you are able to start going through this scope item:

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BD9 - Sell from Stock | To run through this scope item, the required materials must be available in stock and sales orders must be available.   * Run through the Sell from Stock (BD9) process |

## Prerequisites for Running Backorder Processing

### Configure BOP Segment

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This process step shows you how to create a backorder processing segment (aka BOP segment) in which you define criteria for filtering and prioritizing requirements.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Order Fulfillment Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Configure BOP Segment (F2158). | The BOP Segment List displays. |  |
| 3 | Create a BOP Segment | To create a BOP segment, choose + icon in the table toolbar. Enter <your segment name> as Segment Name. | The BOP Segment Definition screen displays. |  |
| 4 | Navigate Back to the List of BOP Segments | Choose Navigate Back on the top left corner of the screen. | The BOP Segment List screen displays and shows the list of BOP segments. The BOP segment you just created is listed as a Draft, as it has not been activated yet. |  |
| 5 | Search BOP Segment | Enter <your segment name> in the Search field in the upper right area of the screen and choose the search icon or use the Enter key on your keyboard. | The list of BOP segments is restricted to those BOP segments that fulfill the search criteria. |  |
| 6 | Display BOP Segment | Choose the BOP segment with the name <your segment name>. | The BOP Segment Definition screen displays. |  |
| 7 | Enter Selection Criteria | Enter valid condition in the Selection Conditios section.Choose + icon to add a new row.  Example of selection conditions:   * Material Number is TG11 * Plant is 1010 | In Criterion 1 tab, Document type Base(Sales order) is prefilled. You can choose + icon to add a new tab for different document type. |  |
| 8 | Define a Prioritizer | In Prioritizer section, table is prefilled with the Sort Attribute Date on Which Record Was Created. Choose + icon to add new sort attribute .  Example of Sort Attribute:   * Sold-to Party * Line Item Number * Document Number |  |  |
| 8a | Define a Custom Sort Order for Requirements (Optional) | Proceed as described in the procedure Configure Custom BOP Sorting. |  |  |
| 9 | Reorder Sort Attributes of Prioritizer | Choose Move to Top, Move Up, Move Down and Move to Bottom to reorder the sort attributes:  Sold-to Party  Document Number  Line Item Number | The sort attributes are listed in the intended order. |  |
| 10 | Change Sort Order of Sort Attribute | You can change Sort Order (Ascending or Descending) for sort attribute. For example change Sort Order for Document number to Descending so that new document appears in the top. | The Descending is highlighted in blue. |  |
| 11 | Activate BOP Segment | Choose Save on the lower right corner of the screen. |  |  |

### Configure BOP Variant

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This process step shows you how to create a backorder processing variant (aka BOP variant) with which you define the scope of a backorder processing run.

Prerequisite

A BOP variant uses one or more BOP segments. The procedure for creating a BOP segment, Configure BOP Segment, is a prerequisite for this procedure.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log On | Log on to the SAP Fiori launchpad as an Order Fulfillment Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Configure BOP Variant (F2160). | The BOP Variant List screen displays. |  |
| 3 | Create a BOP Variant | Choose + icon to create a new variant. On the Variant Setting screen, make the following entries and leave other entries as it is:   * Variant Name: <your variant name> * Variant Description: <your variant description>   Choose Close. To change variant settings after close window, choose Edit Header on the top right corner of the screen. | A draft of the BOP variant is created. |  |
| 4 | Add Segment to Variant | Start to type <your segment01 name> in the empty Segment Name field below REDISTRIBUTE. | The segment and its defined selection criteria are displayed. The segment is automatically assigned to the Redistribute confirmation strategy. |  |
| 5 | Add Segment to Confirmation Strategy | Choose + icon to add new segment. A new empty raow is added as the last raow in REDISTRIBUTE section.  Start to type your segment02 name in the Segment Name field.  When the segment and its defined selection criteria are displayed, you can highlight the segment, choose Move to a Different Strategy, and choose confirmation strategy Win from the dropdown list (note that the currently assigned confirmation strategy cannot be chosen).  Note That the Add to... at the top of the screen simply adds an empty segment line below the chose confirmation strategy. You cannot use this button to reassign a segment from one confirmation strategy to another. | Confirmation strategy Win is added and a new tab and the chosen segment and selection criteria are listed. |  |
| 6 | Save BOP Variant | Choose Save. | The variant is saved. |  |
| 7 | Start BOP Run (optional) | You can start a BOP run imediately directly on the Configure BOP Variant screen directly. ChooseRun from the dropdown next to the Simulate. | The app confirms that a BOP run was scheduled for your variant. |  |
| 8 | Display BOP Run Results (optional) | On the Configure BOP Variant screen, choose Show Last Runs. | On the Monitor BOP Run screen, BOP runs for your BOP variant displays. |  |

### Configure Custom BOP Sorting

Purpose

In this procedure, you create a custom backorder processing sorting with which you define the sort order of the requirements in a backorder processing run.These sorting can be assigned to corresponding sort attribute in the BOP segment you create.

Prerequisite

There are no prerequisites for this procedure.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Order Fulfillment Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Configure Custom BOP Sorting (F2983). | The Configure Custom BOP Sorting screen displays. |  |
| 3 | Create a Sequence | Choose Create Sequence. On the Sequence screen, make the following entries:   * Sequence Name: <your sequence name> * Sequence Description: <your sequence description> * Sort Attribute: <your sort attribute>, for example, Sold-to party | A draft of the sequence is created. |  |
| 4 | Add Values to Sequence | Enter a value, for example, 10100001, in the first empty Value field above All others. Enter another value, for example, 10100001, in the last empty Value field below All others. |  |  |
| 5 | Add New Value | Choose Add and a new empty line added at the end of table. Enter a value, for example, 10100013. |  |  |
| 6 | Set Position for Value | You can resort the value by hightlighting the line and choose Move up or Move downto change the Postion of the line.  Alternatively, you can highlight the line, and choose Set Position to directly enter a New Position for this line. |  |  |
| 7 | Save Sequence | Choose Save. | The sequence is saved. |  |

# Overview Table

This scope item consists of several process steps that are listed 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 .

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Business Role | Transaction/App Name | Expected Results |
| [Monitor Availability](#unique_11) [page ] 14 | Internal Sales Representative | Monitor Product Availability (CO09) |  |
| Backorder Processing | | | |
| [Schedule BOP Run](#unique_12) [page ] 16 | Order Fulfillment Manager | Configure BOP Segment (F2158) Configure BOP Variant (F2160) Schedule BOP Run (F2665) |  |
| [Monitor BOP Run](#unique_13) [page ] 17 | Order Fulfillment Manager | Monitor BOP Run (F2159) |  |
| [Schedule Deletion of ATP Results Log](#unique_14) [page ] 19 | Order Fulfillment Manager | Schedule Deletion of ATP Results Log (F2763) |  |

# Test Procedures

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

## Monitor Availability

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This process step shows you how to display the availability of material-plant combinations. This enables you to check if a material is available as required, before executing subsequent processes.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 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 Monitor Product Availability (CO09). | The Availability Overview screen displays. |  |
| 3 | Enter Data | On the Availability Overview screen, make the following entries and choose Continue:   * Material: <Material Number> * Plant: 1010 |  |  |
| 4 | Availability Overview | The Availability Overview screen is divided into three sections:   * The upper section displays the check parameters. * The middle totals displays section displays aggregated material availability at plant level. This enables you to identify a material shortage quickly. * The lower ATP situation section displays the daily availability situation for the selected material at plant level, according to the scope of check. * For each date and MRP element, the system displays a totals requirement with a receipt quantity (for stocks and receipts) or a requirement quantity, a committed quantity (only for requirements), and a cumulated ATP quantity. The system uses negative indicators to display the requirements. The data is sorted chronologically and starts with the plant section (if no special stocks are displayed). If necessary, the storage location section, batch section, and batch storage location section follow. |  |  |

## Backorder Processing

### Schedule BOP Run

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 trigger and schedule a backorder processing run (aka BOP run).

Prerequisite

The prerequisite for triggering and scheduling a BOP run is the availability of at least one BOP variant, created in the procedure [Configure BOP Variant](#unique_8) [page ] 9.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Order Fulfillment Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open the Schedule BOP Run (F2665). | The Application Job screen displays. |  |
| 3 | Create a Job | Choose + icon to create a new BOP run.  In the General Infomration section, Job Template ATP: Backorder Processing Default is default. Ente a name for your BOP run in the Job Name field.  In the Scheduling Options section, select the Start Immediately checkbox. To make it a recurring job, choose Define Recurrence Pattern, and choose one pattern from th dropdown list.  In the BOP Variant section of the Parameters Section subscreen, enter <your variant name> in the Variant Name field or choose by searching. Choose Force Log and set Granularity to All to enable logging of all messages occurring when the selected BOP variant is executed.  Choose Schedule. | A new job is created and run immediately. |  |
| 4 | Open Log (optional) | A log is available when the job finishes. In the list of all scheduled BOP runs, navigate to the Log. | The log created during the BOP run displays. |  |

### Monitor BOP Run

Test Administration

Customer project: Fill in the project-specific parts.

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

Purpose

This process step shows you how to display the results of a BOP run. The prerequisite for this procedure is the execution of at least one BOP run, as processed in the Configure BOP Run or Schedule BOP Run steps.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Comments |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Order Fulfillment Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Monitor BOP Run (F2159). | The BOP Run List displays and BOP variants for which BOP runs have been processed or are running. |  |
| 3 | BOP Run Overview | Navigate to the Run Overview by choosing one of the listed runs.  Check the BOP run information, for example, the variant name or user name.It’s possible to navigate to the details of BOP variant by choosing Show Variant on the top right corner of the screen. | The information in the Run Overview is as intended and a list of material-plant combinations displays. |  |
| 4 | Quick Filter for Confirmation Issues | In the Filter Bar, choose Confirmation Issues. | The list of all material-plant combinations contains only those combinations where a confirmation issue exists. |  |
| 5 | Quick Filter for Processing Issues | In the Filter Bar, choose Processing Issues. | The list of all material-plant combinations contains only those combinations where a processing issue exists. |  |
| 6 | Select a Material-plant Combination and Check its Details | Choose one of the displayed material-plant combinations and check the confirmation key figures. | The Requirement List screen displays.  Detailed information is displayed for each requirement, for example, the confirmation strategy and the name of the BOP segment from which it was selected. The confirmation key figures also display.  The Status indicator displays the correct status of each requirement. |  |
| 7 | Check Requirement Details | Choose one of the listed requirements. | A dialog screen displays the Confirmation Details of the selected requirement. The earliest date and available-to-promise quantity display as a reference. |  |
| 8 | Navigate to the BOP Run Overview | Click the name of the BOP variant in the path above the header. | The Run Overview screen displays. |  |
| 9 | Select a Confirmation Strategy and Check Details | Choose the CONFIRM. STRATEGY tab in the header.  Choose one of the displayed confirmation strategies and examine the confirmation key figures. | The confirmation strategies used in the BOP variant are listed and the key figures are correct. |  |
| 10 | Navigate to the BOP Run Overview | Click the name of the BOP variant in the path above the header. | The Run Overview screen displays. |  |
| 11 | Select a Recipient and Check Details | Choose the RECIPIENT tab in the header.  Choose one of the displayed sold-to parties and examine the confirmation key figures. | The Requirement List screen displays. The requirements for the sold-to parties from the processed sales orders are listed and the key figures are correct. |  |

## Schedule Deletion of ATP Results Log

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 schedule the deletion of logs created by advanced Available-to-Promise (aATP).

Prerequisites

Before you can delete any logs containing ATP results, at least 1 log has to have been created.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as an Order Fulfillment Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Schedule Deletion of ATP Results Log (F2763). | The Application Log (F1487) screen displays. |  |
| 3 | Create a New Job | Choose New.  Set the Start Immediately checkbox.  For User Name, enter <your user name>.  For Older than (Days), enter 1 to delete all log entries which are older than one day.  Press Schedule. | A new job is created and will be executed immediately. Any entries for ATP result logs that are older than the entered number of days are deleted. |  |
| 4 | Open Log (Optional) | A log is available when the job finishes. In the list of all scheduled deletion runs, navigate to the log. | The log created during deletion is displayed. |  |

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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