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|  |  |
| Master Data Script  SAP S/4HANA - 18-09-20 | public |
| Create Reference Operation Set (BLE) |

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# Purpose

This process describes how to create a reference operation set.

A reference operation set has the same structure as a routing. You cannot assign a material to be produced to a reference operation set. It can have neither parallel nor alterna-tive sequences.

# Prerequisites

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

## System Access

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

## Roles

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

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name (Role) | ID (Role) | Description (Space) | ID (Space) | Log On |
| Production Engineer - Discrete Manufacturing | SAP\_BR\_PRODN\_ENG\_DISC | Production Engineering - Discrete Manufacturing | SAP\_BR\_PRODN\_ENG\_DISC |  |

## Required Organizational Units

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Segment | Depends On | Field Examples | Comments | Organizational Unit to be Used |
| All data | Plant |  | All the data for a Reference Operation Set depends on plant. | Plant:  \_\_\_\_\_\_\_\_\_\_ |

## Mandatory and Optional Master Data

Reference Routing data records may refer to other master data. The following table gives an overview of optional and mandatory master data objects to be used in a Reference routing.

|  |  |  |  |
| --- | --- | --- | --- |
| Master Data Object | Used in Data Segment | Mandatory / Optional | Comments |
| Material |  | Mandatory | Complete the following test script as prerequisite before executing process steps:  Create Product Master of Type "Raw Material" (BNR)  Create Product Master of Type "Semi-Finished Good" (BNS)  Create Product Master of Type "Finished Good" (BNT) |
| Work Center | In Create Reference Operation: operation overview screen, select a work center for an internal operation | Mandatory, (Optional) | For an external operation the work center is not a mandatory input field.  If required, execute the Create Reference Operation Set (BLE) test script. |
| Bill of Material |  | Optional | Execute the Create Material BOM for Production and Sales (BNK) test script. |
| Purchasing Info Record |  | (Mandatory) | For an external operation, you could use a purchasing info record to capture all supply relevant data |

## Main Parameters for Data Creation

In this section, we describe some basic parameters that influence the behavior of a master record and are always required to create a Reference routing:

### Usage

|  |  |
| --- | --- |
| Work Center category | Description |
| 1 | Production |
| 2 | Engineering/Design |
| 3 | Universal |

# Overview Table

This scope item consists of the process step 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 | Expected Results |
| [Creating Reference Routing](#unique_10) [page ] 7 | Production Engineer - Discrete Manufacturing | Create Reference Routing (CA11) |  |

# Test Procedures

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

## Creating Reference Routing

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. |

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass/Fail/Comments |
| 1 | Log On | Log onto the SAP Fiori launchpad as a Production Engineer - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Create Reference Routing (CA11). | The Create Reference Operation Set: Initial Screen is displayed.. |  |
| 3 | Set up the Create Reference Operation Set Initial Screen | On the Create Reference Operation Set Initial Screen, enter the data.  Choose Enter. | The Create Reference Operation Set header detail appears. |  |
| 4 | Set up the Create Reference Operation Set Header Detail Screen | Enter the following data in the Create Reference Operation Set: Header Details view:   * Group Counter : <1> * Plant: <your plant> * Usage: <1 for production> * Status: <4 released-general> * From lot size - to lot size: <Enter Lot size interval and unit of measure> |  |  |
| 5 | Set up Create Reference Operation Set: Operation Overview | Choose Operation and the Create Reference Operation Set: Operation Overview Screen appears.  Enter the following data on the Create Reference Operation Set operation overview screen.   * Work Center: required for internal operations, (blank) for external operations * Control Key: <YBP1/YBP2/YBP3/YBP5/YBRW>   YBP1 for internal operation w/o autom. goods receipt  YBP2 for external operation (PP subcontracting)  YBP3 for internal operation with autom. goods receipt  YBP5 for process manufacturing milestone   * Description: <Enter a description for the operation>   And then double-click your entered operation. |  |  |
| 6 | Operation Set Up for Standard Value Section | Enter the following data on the Create Reference Operation Set operation Details screen.   * Setup: <setup time> * Machine: <Machine operation time> * Labor: <labor time> |  |  |
| 7 | Add More Operations | Repeat the previous steps for each operation. |  |  |
| 8 | Save Your Data | Save your entries. | Reference Operation Set is created. |  |

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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