|  |  |
| --- | --- |
|  |  |
| Test Script  SAP S/4HANA - 20-08-20 | public |
| Actual Costing (33Q\_DE) |

Table of Contents

[1 Purpose 2](#_Toc51114321)

[2 Prerequisites 3](#_Toc51114322)

[2.1 System Access 3](#_Toc51114323)

[2.2 Roles 3](#_Toc51114324)

[2.3 Master Data, Organizational Data and Other Data 3](#_Toc51114325)

[2.4 Business Conditions 4](#_Toc51114326)

[2.5 Preliminary Steps 4](#_Toc51114327)

[2.5.1 Edit Activity Types 5](#_Toc51114328)

[2.5.2 Update Activity Type Groups and Cost Element Groups from YBMF\_P02 to YBMF\_P08 6](#_Toc51114329)

[3 Overview Table 8](#_Toc51114330)

[4 Test Procedures 9](#_Toc51114331)

[4.1 Actual Cost Rate Calculation 9](#_Toc51114332)

[4.2 Actual Costing 10](#_Toc51114333)

[4.3 Material Price Analysis 13](#_Toc51114334)

[4.4 Value Flow Monitor 14](#_Toc51114335)

[4.5 Display Material Value Chain 15](#_Toc51114336)

# Purpose

This scope item enables actual costing for material inventory. Initially, all goods movements in a period are valuated based on standard price. All price and exchange rate differences for the material are collected in the material ledger.

At the end of the period, an actual price (called the periodic unit price) is calculated for each material based on actual costs within the period.

This calculated actual price can then be used to revalue inventory at period end. After you enter the activity actual rate manually, the actual activity price calculation supports revaluation of COGS and WIP.

For actual costing, to calculate a periodic unit price (actual price) for your materials, you need to activate actual costing in addition to material ledger. You also need to choose single-level/multilevel price determination for your materials and use price control standard price for all materials you want to use in actual costing.

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 |
| Inventory Accountant | SAP\_BR\_INVENTORY\_ACCOUNTANT | Inventory Accounting | SAP\_BR\_INVENTORY\_ACCOUNTANT |  |
| Cost Accountant - Overhead | SAP\_BR\_OVERHEAD\_ACCOUNTANT | Overhead Accounting | SAP\_BR\_OVERHEAD\_ACCOUNTANT |  |

## Master Data, Organizational Data and Other Data

Make sure to use the Change Price Determination app before you start using actual costing in system and update the price determination from 2 to 3 for already created materials. This app is part of the Inventory Accountant role.

Note This section is only relevant for customers' Q and P system where the content is activated without demo data.

Table 1: Master Data Script Reference

|  |  |
| --- | --- |
| Master Data ID | Description |
| 3KW | Cost Rates |
| BNN | Create Activity Type and Activity Type Group |
| BNP | Create Cost Element Group |

## Business Conditions

If you are an OP customer, please review the restrictions and technical changes in the material ledger with actual costing per note [https://launchpad.support.sap.com/#/notes/](https://launchpad.support.sap.com/#/notes/https://launchpad.support.sap.com/#/notes/) 2354768.

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

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BEI - Period-End Closing - Plant | Must be run before this test script |

Note You must perform the steps in the following Preliminary Steps section before you execute the test procedures.

## Preliminary Steps

Context

Splitting structure is used to split costs (belonging to cost centers) between activity types 12-Activity quantity and 0-No splitting. The assignments from YA1 to YA7 use rule YA1 with method 12, while the assignment YA8 uses rule YA2 with method 0. Each splitting rule is based on a splitting method. In Cloud, the splitting method used is 12-Activity quantity. The splitting method indicates the way in which the costs are to be split.

You need to make sure that all the activity types relevant for actual rate calculation must be assigned to one of the activity type groups under YBMF\_P00. We predeliver empty groups YBMF\_P01 to YBMF\_P08 with respective cost element groups of the same name. You can calculate different rates, for example, Labor and Machine by assigning the respective activity and related GLs to different predelivered groups. The predelivered splitting structure is as shown in the following table and you can see that the groups are empty. You can use the Manage cost element groups app and Manage activity type groups app to add your activity and GL as per your business requirement.

Table 2: Splitting Structure YA

|  |  |  |  |
| --- | --- | --- | --- |
| Assignment | Rule | Cost Element Group | Activity Type Group |
| YA2 | YA1 | YBMF\_P02 | YBMF\_P02 |
| YA3 | YA1 | YBMF\_P03 | YBMF\_P03 |
| YA4 | YA1 | YBMF\_P04 | YBMF\_P04 |
| YA5 | YA1 | YBMF\_P05 | YBMF\_P05 |
| YA6 | YA1 | YBMF\_P06 | YBMF\_P06 |
| YA7 | YA1 | YBMF\_P07 | YBMF\_P07 |
| YA8 | YA2 | YBMF\_P08 | YBMF\_P08 |

1. Make sure that all the activity types relevant for actual rate calculation must be assigned to activity type group YBMF\_P02 to YBMF\_P08 via the Manage activity group app.

2. Change Activity type master for the Act. price indicator field is set to 5 via the Manage Activity Types app so that the actual rate can be calculated automatically based on activity. This has to be done for the actual rate calculation to work.

Note We recommend that if some country/region has activated actual costing and others have not, you should use different activity type for with and without actual costing. Only actual costing relevant activity type must be added to YBMF\_P02 through YBMF\_P08. Once this is done, you can use the Actual Cost Rate Calculation: Cost Center app to calculate the rates that will be used in actual costing month-end process step. Alternatively, you can use the Manage Cost rate actual app if you want a manual rate update and do not want to use the Actual Cost Rate Calculation app. Make sure the Activity type master for the Act. price indicator field is set to 7 via the Manage Activity Types app.

### Edit Activity Types

Context

In this activity, you can change activity type master to 5 so that actual rate can be calculated automatically based on activity. This has to be done for actual rate calculation to work.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Cost Accountant - Overhead. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access App | Open Manage Activity Types (Deprecated) (F1605). | The Manage Activity Types screen is displayed. |  |
| 3 | Select Activity Type | Select the activity type row, for example, 1, 11, 3 or 2 that you would like to edit and choose the Edit button. | The Activity Type view appears. |  |
| 4 | Actual Price Indicator | Make the following entry and choose the Save button:   * Actual price indicator 5   Note Change activity types relevant for KSII (actual rate calculation) only. This change must not be done for predelivered professional service activity types that start with T or U.  Note You can alternatively use the Manage Cost Rate Actual app if you want manual rate update. Make sure the activity type master for the Act. price indicator field is set to 7 via the Manage Activity Typesapp. |  |  |

### Update Activity Type Groups and Cost Element Groups from YBMF\_P02 to YBMF\_P08

Context

This activity updates activity type groups and cost element groups.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Cost Accountant - Overhead. | The SAP Fiori launchpad is displayed. |  |
| 2 | Access App | Open Manage Activity Type Groups (F1027). | The Search: Activity Type Groups screen displays. |  |
| 3 | Enter New Activity Type Group | Make the following entry and choose the Edit button:   * Activity Type Group: Any group from YBMF\_P02 to YBMF\_P08   SAP predelivered content is shipped with empty groups from YBMF\_P02 to YBMF\_P08 with cost element groups of same name and you are free to assign respective activity types and GLs to related groups. | The Manage Activity Type Group: <any group from YBMF\_P02 to YBMF\_P08>, Planning Activity Types screen displays. |  |
| 4 | Update Activity Type Group from YBMF\_P02 to YBMF\_P08 | Assign activity types to this activity type group.  Note Assign activity types relevant for KSII (actual rate calculation) to this group. This change must not be done for predelivered Professional Service activity types that start with T or U.  Note If some country/region has activated actual costing and others have not, you should use different activity type for with and without actual costing. Only actual costing relevant activity type should be added to YBMF\_P02 through YBMF\_P08. Once this is done, you can use the Actual Cost Rate Calculation: Cost Center app to calculate the rates used in actual costing month-end process step. | New master data is shown in Activity Type Groups: New screen. |  |
| 5 | Save Your Data | Choose Save. | The activity type group is updated. |  |

Note To assign cost elements to respective groups YBMF\_P02 to YBMF\_P08, use the Manage Cost Element Groups app.

# Overview Table

This scope item consists of several process steps provided in the table below.

If your system administrator has enabled spaces and pages on the SAP Fiori launchpad, the homepage will only contain the essential apps for performing the typical tasks of a business role.

You can find all other apps not included on the homepage using the search bar.

If you want to personalize the homepage and include the hidden apps, navigate to your user profile and choose Settings > App Finder .

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Business Role | Transaction/App | Expected Results |
| [Actual Cost Rate Calculation](#unique_11) [page ] 9 | Cost Accountant - Overhead | Actual Cost Rate Calculation - Cost Centers (KSII) |  |
| [Actual Costing](#unique_12)  [page ] 10 | Inventory Accountant | Edit Actual Costing Runs (CKMLCP) |  |
| [Material Price Analysis](#unique_13)  [page ] 13 | Inventory Accountant | Manage Material Valuations (F2680) |  |
| [Value Flow Monitor](#unique_14) [page ] 14 | Inventory Accountant | Material Value Flow Monitor (ML4HVFM) |  |
| [Display Material Value Chain](#unique_15) [page ] 15 | Inventory Accountant | Display Material Value Chain (F4095) |  |

# Test Procedures

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

## Actual Cost Rate Calculation

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 execute actual price calculation. This means that the actual costs posted in a cost center would be divided by the actual quantity consumed in the cost center.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Cost Accountant - Overhead. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Actual Cost Rate Calculation - Cost Centers (KSII). | The Execute Actual Price Calculation: Initial Screen displays. |  |
| 3 | Cost Center Group | Make the following entries and choose the Execute button:  Cost center group: 1010130  Period: <enter a period>  Fiscal Year: 2018 |  |  |

## Actual Costing

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, edits to actual costing run are executed, after all the period-end steps are done for scope item Period-End Closing - Plant - (BEI) to calculate period unit price, which represents average actual cost for material or semi finished goods. This activity involves the following steps:

* Selection
* Preparation
* Settlement
* Post Closing
* Mark Prices

Note Before starting month-end step for actual costing, make sure you open a subsequent period. For example, if you want to close period 5, you must open period 6 first via the Close Period for Material Master Records app using role Product Master Data Specialist and follow the steps in scope item Create New Open MM Posting Period (BNZ).

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log onto the SAP Fiori launchpad as an Inventory Accountant. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Edit Actual Costing Runs (CKMLCP). | The Costing Cockpit: Actual Costing - Change/Execute screen displays. |  |
| 3 | Create Costing Run | Make the following entries and choose the Create Costing Run button:  Costing run: 14100518  Period: 05 2018 | The Create ML Costing Run/Run Reference dialog box displays. |  |
| 4 | Continue | Choose the Continue button. | The Costing Cockpit: Actual Costing - Change/Execute screen displays. |  |
| 5 | Plant Assignment tab | Choose the Plant Assignment tab. Choose the > button to move plant from the Assigned Plants section to the Available Plants section and choose Save. | We recommend that you perform actual costing for all plants under one company code. Cross-company costing run is not supported by cloud yet. |  |
| 6 | Processing section | Expand the Processing section. |  |  |
| 7 | Selection row | On the Selection row, choose the Change Parameters button. On the Costing Cockpit: Actual Costing - Change/Execute screen, deselect Background Processing and then choose Save.  Choose Back.  Choose Execute, which displays in the Execute column. | Costing Run is executed. |  |
| 8 | Preparation row | On the Preparation row, choose the Lock button to unlock. Choose the Change Parameters button. On the Costing Cockpit: Actual Costing - Change/Execute screen, deselect Background Processing.  Choose Save.  Choose Back, and choose Execute. | Costing Run is executed.  Note If you activate Actual Costing after you have posted material in previous period, you will run into an error. You can then select Allow Open Status for Previous Period > Exceptional Processing > F1. This will set the initial inventory at standard price and perform the calculation for previous period as well. This selection is also relevant when the previous period is not closed properly and needs recalculation. |  |
| 9 | Settlement row | On the Settlement row, choose the Lock button to unlock. Choose the Change Parameters button. On the Costing Cockpit: Actual Costing - Change/Execute screen, deselect Background Processing. Keep the other sections as is.  Choose Save.  Choose Back, and choose Execute. | This step covers single-level and multi-level price determination, work in progress (WIP), cost of goods sold (COGS) revaluation, and reports them as separate documents. |  |
| 10 | Post Closing row | On the Post Closing row, choose the Lock button to unlock and then choose the Change Parameters button. | The Edit Variants view displays. |  |
| 11 | Post Closing: Edit Variants | Select Revaluate Material and Revaluate Consumption checkboxes.  If you do not set these flags, the post-closing step only updates inventories. Anything that has been consumed in the next level of production will also be revalued, but not consumption to sales (mainly) and costcenter/order/project (where the orders/projects are not tied to materials). If you set these flags, the post-closing step updates the COGS account and the CO-PA characteristics.  Deselect Background Processing and Test Run.  Choose Save.  Choose Back, and choose Execute. | If you post material consumption on objects other then Production/Process order, for example, if you post consumption on cost center, you must select CO Account Assignment. |  |
| 12 | Mark Prices | Set Validity of Marking as Beginning of Following Period and deselect Background Processing. | If you update Period Unit Price monthly, then you must run Mark Prices step. In case you run the whole year with the same standard price then you do not need to run this step. It is an optional step based on customer's business needs. |  |
| 13 | Save Costing Run | Choose the Save button. |  |  |

## Material Price Analysis

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 report app helps you view inventory value, new price, and flow of value change.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log onto the SAP Fiori launchpad as an Inventory Accountant. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Manage Material Valuations (F2680). | The Manage Material Valuations (F2680) screen displays. |  |
| 3 | Material Valuations | Make the following entries and choose the Go button:  Material: FG126  Plant: 1010 | The Current Material Valuations view displays. |  |
| 4 | Select the Material | Select the desired line item and choose Material Price Analysis. | The Material Price Analysis screen displays. You can enter the Period/Year and review the inventory details. |  |
| 5 | Report | The report containing the movement price, total stock, and other information related to the material displays. |  |  |

## Value Flow Monitor

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 monitor the material quantity. After the material ledger period-end closing, differences that cannot be explained or that have to be balanced, remain on the price difference accounts. You use the Value Flow Monitor to analyze these differences, and explanation of the differences/deltas that are calculated during Actual Costing and how the differences/deltas are handled and rolled up to the next level.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log on | Log onto the SAP Fiori launchpad as an Inventory Accountant. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Material Value Flow Monitor (ML4HVFM). | The Value Flow Monitor screen displays. |  |
| 3 | Value Flow Monitor | Make the following entries and choose the Execute button:  Company Code: 1010  Period: 05  Year: 2018 | The quantity monitor displays. |  |

## Display Material Value Chain

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 activity focuses on a graphical display of the entire value chain.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log onto the SAP Fiori launchpad as an Inventory Accountant. | The SAP Fiori launchpad displays. |  |
| 2 | Access the SAP Fiori App | Open Display Material Value Chain (F4095). | The Display Material Value Chain screen displays. |  |
| 3 | Display Material Value Chain | Make the following entries and choose the Go button:  Fiscal Period From: <MM.YYYY>  Fiscal Period To: <MM.YYYY>  Material: TG11  Plant: 1010  Ledger: 0L  Currency Type: <30>  Valuation View: Legal Valuation | The screen provides an overview of the material, value and quantity. |  |

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. |

|  |
| --- |
|  |
| www.sap.com/contactsap |
| © 2020 SAP SE or an SAP affiliate company. All rights reserved.  No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company. The information contained herein may be changed without prior notice.  Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.  These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.  SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.  See [www.sap.com/copyright](http://www.sap.com/copyright) for additional trademark information and notices. |

