

Controlling Product Costing (CO-PC)

This document is intended to help instructors understand the case study process and manage the learning process in and outside the classroom. The main focus lies on prerequisites and common tasks such as testing and trouble-shooting.

Product

SAP S/4HANA 2020 Global Bike

Level

Instructor

Focus

Controlling

Authors

Michael Boldau Stefan Weidner Rebekka Schindler

Version

4.1

Last Update

December 2021

MOTIVATION

Theoretical lectures explain concepts, principles, and theories through reading and discussion. Therefore, they enable students to acquire knowledge and gain theoretical insights.

In contrast, case studies allow them to develop their abilities to analyze enterprise problems, learn and develop possible solutions, and make sound decisions.

The main objective of the Global Bike case studies in general is for students to understand the concept of integration. These descriptive and explanatory case studies will allow students to understand the importance and the advantages of integrating enterprise areas using an S/4HANA system.

The main goal of this document is to help instructors prepare the SAP system for the Controlling case study Product Costing process and to support them trouble-shoot problems that might occur during the course.

Beside technical and didactic prerequisites, the lecturer notes list SAP transactions for testing and correcting student results in the SAP system. In addition, this document describes common problems and explains their reason and solution.



Prerequisites

Note Before using this case study in your classroom please make sure that all technical (month-end closing, user management etc.) and didactic prerequisites are fulfilled. Such prerequisites are briefly pointed out below. Detailed documentation can be displayed at and downloaded from the *Learning Hub of SAP UA* or the *UCC websites*.

Technical Prerequisites

The Controlling case study Product Costing is based on a standard SAP S/4HANA client with the current Global Bike dataset. Before processing the case study on your own or with your students, all general settings should be checked.

<u>Note:</u> With the current version of the GBI client a **year-end closing** is not necessary, because it has already been automated or because it is not needed for the process described in the curriculum material.

Year-end closing

User accounts in the SAP system need to be created or unlocked.

User management

These student user accounts should end with a three-digit numeric number (e.g. LEARN-001, LEARN-002 etc.). This number will be represented by ### in the case study and helps differentiate customer accounts, products etc.

In an SAP S/4HANA Global Bike client, 1000 user accounts from **LEARN-000** to **LEARN-999** already exist. These users need to be unlocked. The initial password for each LEARN-### account is set to **tlestart**.

LEARN-000 to LEARN-999

tlestart

Transaction **ZUSR** (app User Maintenance) was developed in the Global Bike client in order to mass maintain SAP user accounts. For a detailed description of this and SAP standard transactions for user management (**SU01** and **SU10**) please refer to the lecturer notes "User Management" (see: current Global Bike curriculum → chapter 99 − Instructor Tools).

ZUSR

SU01 SU10

All LEARN-### user accounts have been assigned to the role Z_UCC_GBI_SCC and have authorizations to use all applicative transactions in the SAP S/4HANA system. The role allows access to all transactions necessary for Global Bike exercises and case studies. If you need access to system-critical transactions, i.e. for development purposes, you may assign the composite profile SAP_ALL to your student accounts.

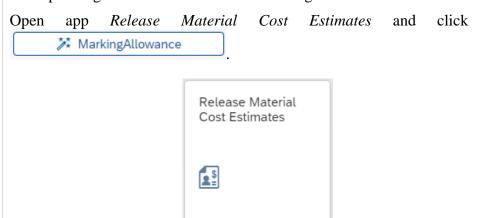
It is useful for the instructor to have a user account available for testing that has the same authorizations as the student accounts. You may use the predefined instructor account **LEARN-000** for this purpose.

Instructor account LEARN-000

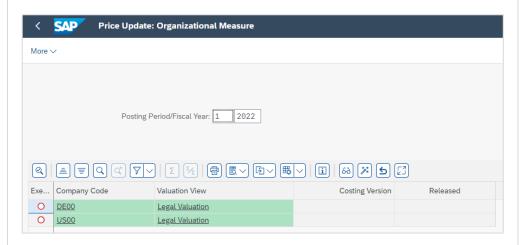
on

Fiori App

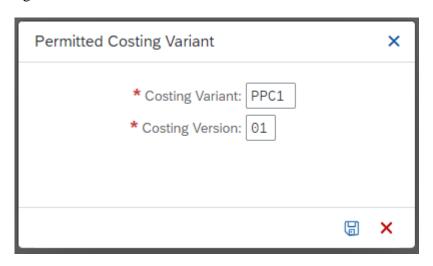
In order to be able to transfer the results of the cost estimates to the corresponding material master records marking allowance must be enabled.



Your screen should look similar to the one depicted below.



Make sure your selected the period and fiscal year in which you want to update prices and click on Legal Valuation in the US00 row, which opens up the following screen.



Enter **PPC1** as *Costing Variant* and click on marking). Price update is now possible. (Issue allowance for marking).

Repeat the steps if you require marking allowance for another company code or period.

If you plan on using the CO-PCII case study enter **ZPC1** as *Costing Variant* for company code **DE00**.

Didactic Prerequisites

In order to successfully process this case study, students should be familiar with the **navigation** in SAP systems, especially the SAP Fiori Launchpad, the SAP transaction concept as well as possible documentation and help options. We highly recommend using the *navigation slides* and the *navigation course* (see: current GBI curriculum \rightarrow chapter 2 – Navigation).

Navigation

In addition, it has been proven beneficial that students have a thorough understanding of the **historic background** and the enterprise structure of the Global Bike concern before they start working on the SAP system. For this purpose we recommend the *case study*, *Global Bike Group* "(see: current GBI curriculum \rightarrow chapter 3 – GBI).

Company background

Because the case study is not based on the exercises, it is not necessary to have processed the CO exercises before you start with the case study. However, it is recommended.

bal Bike client see cover page). Global Bike client version

In order to function properly this case study needs a **Global Bike client version** that is equal to or higher than the case study version (see cover page). Please check. If you do not know the client version please use the app *Global Bike Version* within your SAP S/4HANA system or contact your UCC team.

Global Feedback

Do you have any suggestions or feedback about Global Bike? Please send it to our email-address **gbi@ucc.ovgu.de** which is used to gather feedback globally. All emails will be evaluated by the persons responsible for the curriculum bi-weekly. This way your feedback might influence future releases directly.

Please note that any support requests send to this email-address will be ignored. Please keep using the common support channels for your support requests.

Student Assessment

Note With the app listed below you can check and correct master and transactional data that your students have created during your course.

Global Bike Monitoring Tool (beta)

We are developing a Global Bike Monitor, which is available for the CO-PC case study.

A detailed tutorial for this tool is available in the module 99 Instructor Tools of the current Global Bike curriculum.

Please keep in mind that this transaction is an additional functionality designed by the UCC Magdeburg and still in development. Therefore, we kindly ask you to send any feedback or detailed error descriptions to the following address: **gbi@ucc.ovgu.de**

Learning Snacks CO

Note With the Learning Snacks CO you can check your learning success in the module CO.

What is Learning Snacks?

Learning Snacks offers the possibility to check the knowledge gained during the case studies and exercises by means of small single-choice questions. Depending on the selected module, you can play through a Learning Snacks (CO here). Learning Snacks can be used with or without prior registration. By having your own account, you can create snacks yourself, like other snacks and receive some kind of points for each question you answer correctly.

You can find detailed instructions on Learning Snacks in the module "98 Cross-Module".





Problem: Copy from field not filled out

Symptom Upon saving Finished Good DXTR4### or Raw Material TRFR4### not all required fields are filled out.

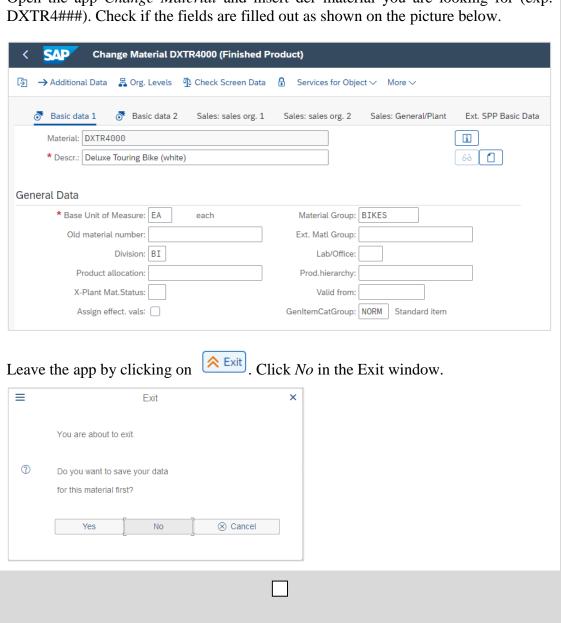
Reason The Copy from field was not filled out.

Solution Since saving is not possible you can abort the transaction and fill out the fields with the correct material.

Verify Issue

Open the app Change Material and insert der material you are looking for (exp. DXTR4###). Check if the fields are filled out as shown on the picture below.

Fiori App DXTR4###





Problem: Wrong Valuation Class

Symptom You receive an error message when trying to save the raw material.

Reason Another material type with was entered in the Copy from field.

Solution Cancel the transaction and start the process step again.

Verify Issue

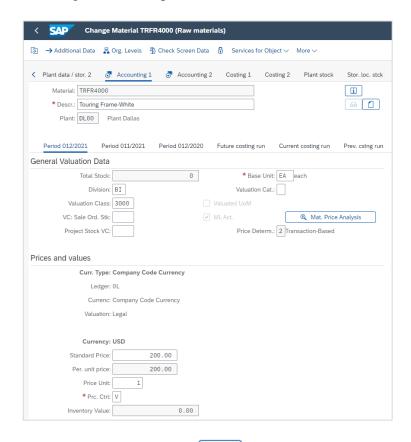
Upon saving the raw material TRFR4### you receive the following message.



This is caused by an already filled out *Copy from* field of the previous step. If DXTR1### is not replaced with TRFR1### the wrong valuation class is copied.

Open *Change Material*, enter **TRFR1**### and select **Accounting 1**. The proper Accounting 1 view is depicted below in the screenshot.

Fiori App TRFR1### Accounting 1



Leave the transaction by clicking on Exit. Click *No* in the Exit window. Open the transaction again and proceed as described in the case study.



Problem: Bill of Material empty / Cost Estimate too low

Symptom The Bill of Material is empty or the Cost Estimate is close to zero.

Reason The BOM was created without reference to DXTR1###. This will not produce an error message from the system, therefore students can proceed with the case study. The Cost Estimate will be close to zero as the BOM is empty and no material can be costed.

Solution If the wrong BOM was not saved yet the transaction can be aborted. Else the BOM has to be deleted.

Identify Issue

The Material Cost Estimate should be **USD 732.05**. If it is close to zero it might be because of an empty Bill of Material. Open the Fiori App *Change Bill of Material*.

Fiori App

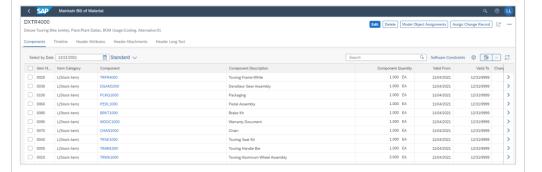


Enter the material in question (**DXTR4**###), Plant **DL00** and BOM Usage 6 (costing).

DXTR4### DL00 6 (costing)



Compare with the screen shown below.



Solution If the BOM was not saved yet, the student can abort the transaction with Cancel and click *Discard* in the following window. Discard all changes? Discard Draft saved Save If the BOM was already saved, choose Delete without Change *Number* und press *OK* in the following popup window. Delete BOM O Delete with Change Number Delete without Change Number OK Cancel Leave the screen by clicking on to reach the SAP Fiori Launchpad. You can continue with the case study from step Create Bill of Material for Product Costing.



Problem: Price Update not possible

Symptom During Price Update zero materials are updated.

Reason No cost estimate exists for the selected dates. During cost estimate creation the proper dates have to be entered. The default is the first of the following period, this has to be changed to the current date.

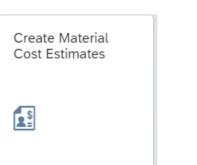
Solution Create a valid cost estimate

Identify Issue

The following message appears after a price update run.

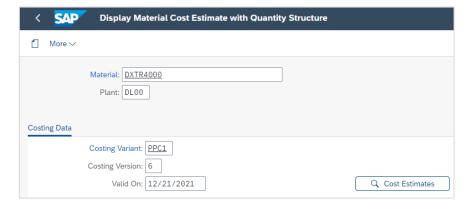


Make sure the current period and year are entered (see case study) before executing the price update. If yes, leave the window and open the Fiori App Create Material Cost Estimates.



In the Create Material Cost Estimate with Quantity Structure Screen click on (Display). Enter your material **DXTR4###**, plant **DL00**, costing variant

PPC1, costing version 6 and the current date. Compare with the screen below. Then press Enter.



Fiori App

DXTR4### DL00 PPC1 Current date

If the cost calculation is not valid on the current date, you will receive the following message:



No cost estimate found (please check your entry) View Details

Leave the screen by clicking on Launchpad.

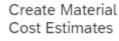


to go back to the SAP Fiori

Solution

Open the Fiori app Create Material Cost Estimates and proceed as described in the case study starting with step Create Cost Estimate.

Fiori App







Solution: CO-PC Challenge

Lernziel Understand and perform a product costing process.

Motivation After you have successfully worked through the *Product Costing* case study, you should be able to solve the following task on your own.

Scenario In the case study you have personalized the routing and the bill of material for the white Deluxe Touring Bike. Some customers have complained because of bad quality of the tires. For this reason, from next month on, two touring tires and two touring tubes respectively should be additionally delivered. This will obviously change the product costing. Type the new price onwards so that it will be valid from next month on.

Task Information Since this task is based on the *Product Costing* case study you can use it as guidance. However, it is recommended that you solve it without any help in order to test your acquired knowledge.

Create alternative Bill of Material for Product Costing

In the transaction **Create Bill of Material** you can create an alternative bill of material for your material DXTR4###.

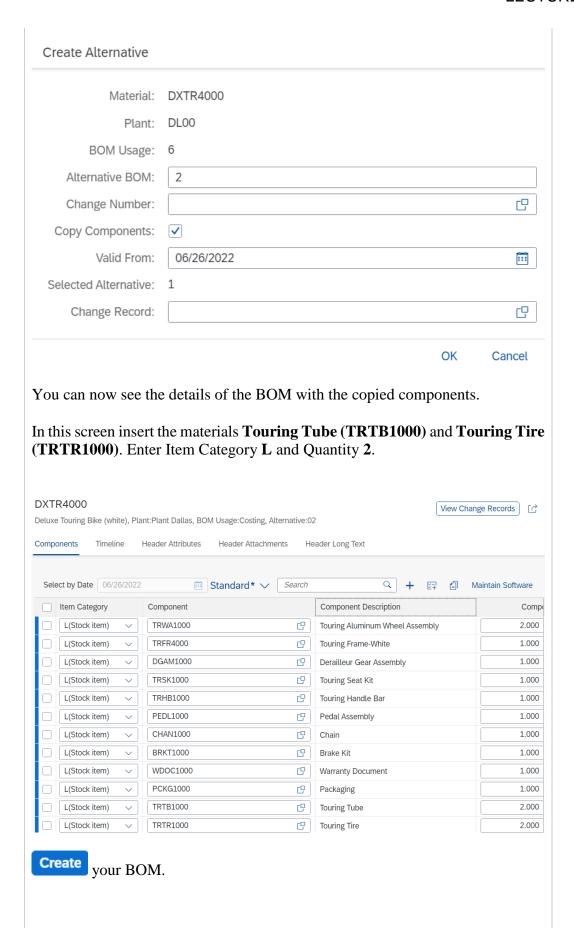
Fiori App

Maintain Bill Of Material Create, change & dis...

Enter your material **DXTR4**###, plant **Dallas** (**DL00**) and click Go. Select your BOM and choose *Create Alternative*.

DXTR4### DL00 6 2

Enter **2** as Alternative BOM. Compare your entries with the following screen, then click on OK or press Enter.



1 TRTB1000 TRTR1000 L 2

Create Routing for Product Costing

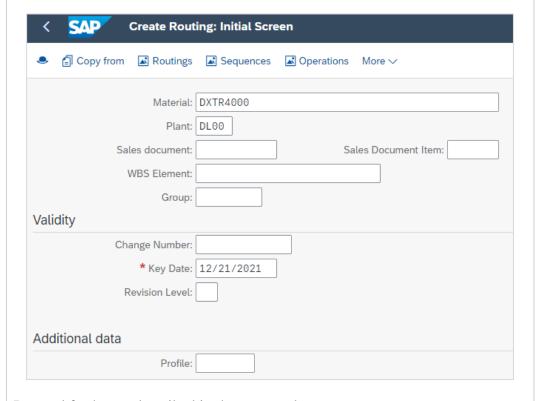
In the Fiori App **Create Routing** you create a new routing for your material DXTR4##.

Fiori App



To achieve this proceed as described in the case study, just enter as template material the material **DXTR4**### you created in the case study and the newly created BOM.

DXTR4###



Proceed further as described in the case study.

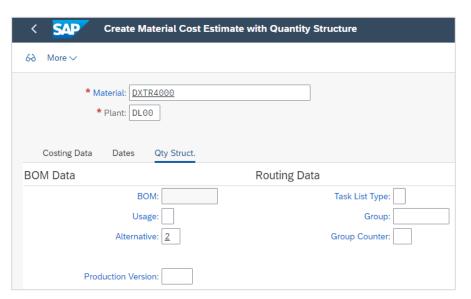
Create Cost Estimate

Open the Fiori App Create Material Cost Estimates.

Fiori App



Proceed as described in the case study as well, just enter on the *Create Material Cost Estimate with Quantity Structure* under the *Qty Struct*. tab **2** as Alternative.



Furthermore, change the *Costing Date From* under the *Dates* tab to the **1**st **of the next month**. The system now calculates the costs based on the bill of materials and the routing.

1st of the next month

Material costs of 962.09 USD were calculated for the Deluxe Touring Bike.



Click Save to save your calculation.

© SAP UCC Magdeburg Page 16

2

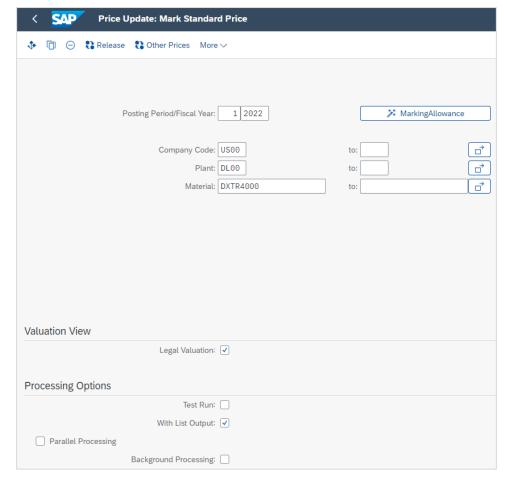
Mark Price Updates

To mark prices, use the app Release Material Cost Estimates.



In the app enter the **next period** (next month), the Company Code **US00**, the Plant **DL00** and your Material **DXTR4**###. Remove the indicator from the Test Run field.

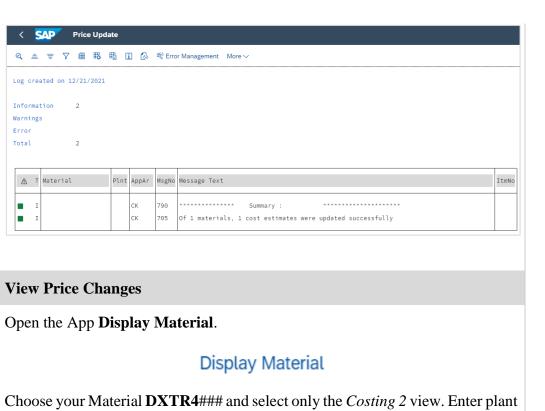
Next month US00 DL00 DXTR4## Test Run



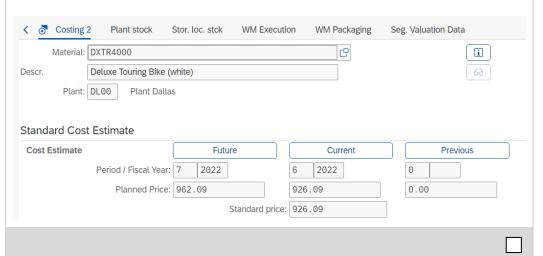
Execute the marking by clicking

Execute

The system should display the following message:



Choose your Material **DXTR4**### and select only the *Costing 2* view. Enter plant **DL00**. The market future price is displayed in the left costing column (Future). Compare with the screenshot shown below.



Fiori App

DXTR4### DL00