

# Production Planning and Execution (PP)

This case study explains an integrated production planning and execution process in detail and thus fosters a thorough understanding of each process step and underlying SAP functionality.

## Product

S/4HANA 1809  
Global Bike

Fiori 2.0

## Level

Undergraduate  
Graduate  
Beginner

## Focus

Production Planning and  
Execution

## Authors

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## Version

3.3.1

## Last Update

May 2019  
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## MOTIVATION

The data entry requirements in the production planning exercises (PP 1 through PP 6) were minimized because much of the data already existed in the SAP system. This stored data, known as master data, simplifies the processing of business transactions. Examples for this were material master data, bills of materials, and routings.

In this case study, we will create consumption values for a finished product to plan and process a complete manufacturing cycle.

## PREREQUISITES

Before you use this case study, you should be familiar with navigation in the SAP system.

In order to successfully work through this case study, it is not necessary to have finished the PP exercises (PP 1 through PP 6).

## NOTES

This case study uses the Global Bike data set, which has exclusively been created for SAP UA global curricula.

## Process Overview

**Learning Objective** Understand and perform a manufacturing process cycle.

**Time** 140 min

**Scenario** In order to experience a complete manufacturing process you will take on different roles within the Global Bike Group, e.g. production supervisor, shop floor worker and plant manager. Overall, you will be working in the Materials Management (MM) and the Production Planning and Execution (PP) departments.

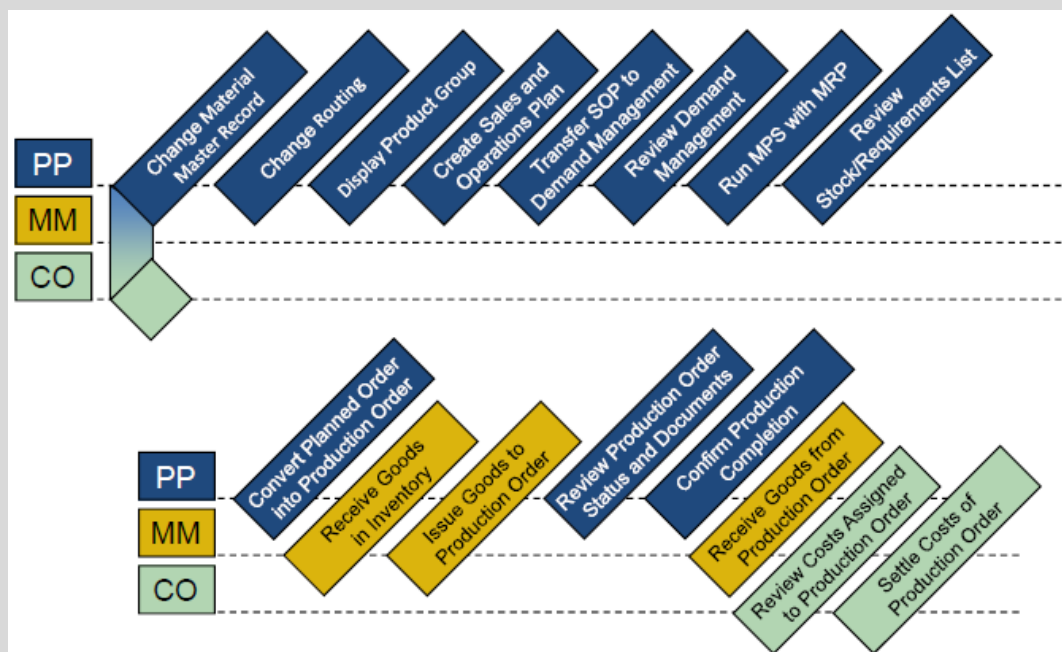
**Employees involved**

Jun Lee (Production Supervisor)  
 Hiro Abe (Plant Manager Dallas)  
 Lars Iseler (Production Order Worker)  
 Susanne Castro (Receiving Clerk)  
 Sanjay Datar (Warehouse Employee)  
 Michael Brauer (Shop Floor Worker 4)  
 Jamie Shamblin (Cost Accountant)

Before you can start forecasting demand for your touring bike product group, changes in the material master record of the bikes need to be maintained.

Afterwards you will create a 12-month sales and operations plan (SOP) for your product group, receive the production relevant goods from the warehouse storage location and issue them to the production order.

To conclude the process, the production is confirmed as complete, the finished goods are received into the warehouse and costs assigned to the production order are analyzed.



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**\*Note: During certain steps in this case study you will be instructed to take a screenshot of your results. Make sure that you complete it before continuing as it may be difficult to repeat later. There are five (5) of these steps.**

**Also make sure that the screenshot includes any Master Data which displays your user-id (###). E.g. Material codes, Product groups, Sales forecasts, Stock requirements, Cost analysis**

Step 1: Change Material Master Record

**Task** Prepare a material master record for Demand Planning.

**Short Description** In order to plan Global Bike’s deluxe touring bikes (black, silver and red) prepare their material master records by changing the MRP 3 and Forecast view.

**Name (Position)** Jun Lee (Production Supervisor)

**Time** 20 min


To change a material’s view, use the App *Change Material* in the *Production Planning and Execution* group.

Fiori App




In the Material field, find and select your red Deluxe Touring bike **DXTR3###** first.

DXTR3###

If you do not remember its material number, position your cursor in the Material field and click on the search icon  or press **F4**. Make sure you are on the Material by Material Type tab. Select Material Type **Finished Product** (FERT) and enter \*### in the Material field. Remember to replace ### by your three-digit number given by your instructor, e.g. \*005 if your number is 005. Then, press *Enter* and select the red Deluxe Touring bike with a double click.

F4  
Finished Product  
\*###

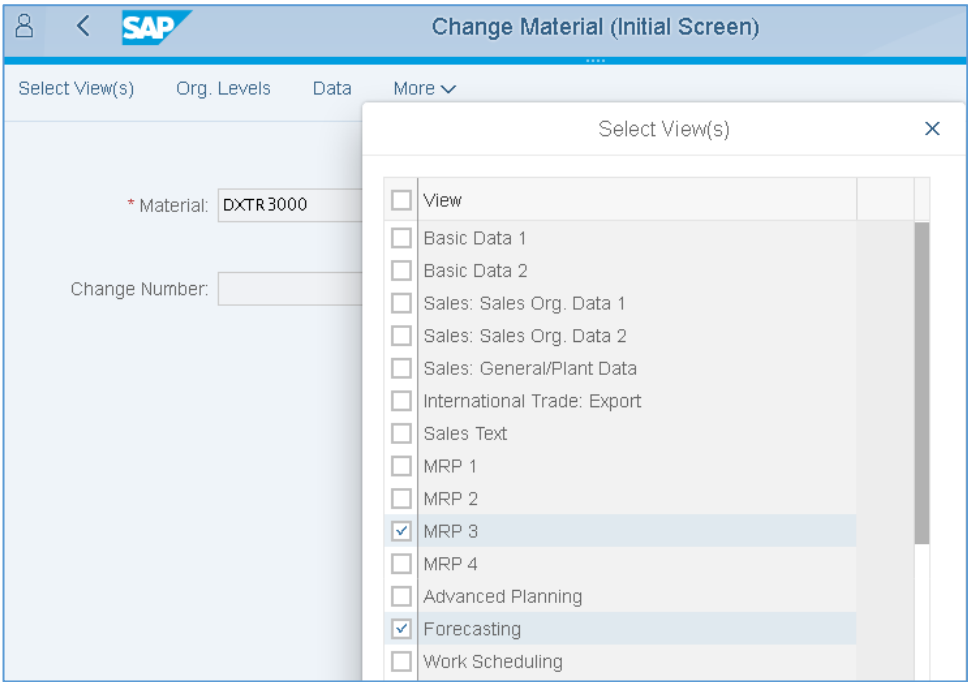
When your material number (**DXTR3###**) is entered in the Material field, click on  or press *Enter*.

DXTR3###

On the following screen, select **MRP 3** and **Forecasting**.

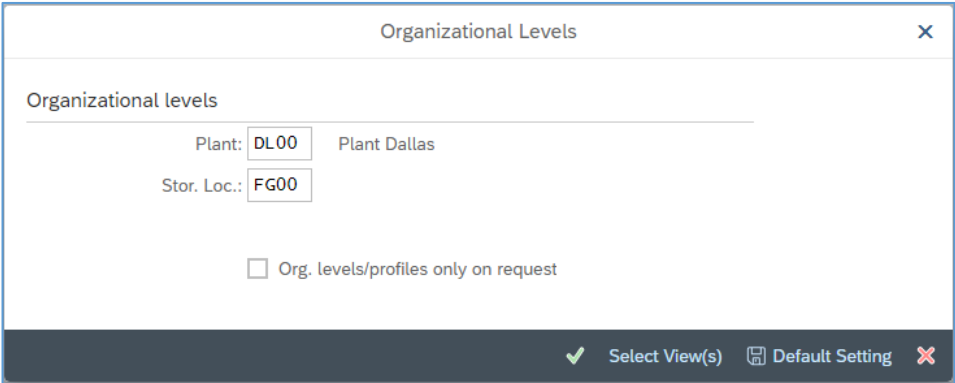
MRP 3  
Forecast

Then, press *Enter* or click on .



In the following pop up enter the Global Bike manufacturing facility in Dallas **DL00** and its Finished Goods Stor. Location **FG00**. Press *Enter* or click on .

DL00  
FG00



In the *MRP 3* tab, enter  
Strategy group **40** (Planning with final assembly),  
Consumption mode **1** (Backward consumption only) and  
Bwd.consumption per. **30**.  
Then click *Enter*.

40  
1  
30

Press *Enter* again to acknowledge the warning message to check the consumption periods.

Initialization pds **12**,

check the checkbox **Param.optimization**,


Alpha factor **0.20**, Beta factor **0.10**, Gamma factor **0.30**, and Delta factor **0.30**.



|      |                     |
|------|---------------------|
| 12   | Reset automatically |
|      | Param.optimization  |
| F    |                     |
| 0.20 |                     |
| 0.10 |                     |
| 0.30 |                     |
| 0.30 |                     |

Change Material DXTR3016 (Finished Product)

Other Material Additional Data Org. Levels Check Screen Data More ▾ Exit

< Forecasting Work scheduling Plant data / stor. 1 Plant data / stor. 2 Warehouse Mgmt 1 > ...

Material: DXTR3016 

Descr.: Deluxe Touring Bike (red)  

Plant: DL00 Plant Dallas

**General data**

Base Unit of Measure: EA Forecast model: X Period Indicator: M

Last forecast:  Fiscal Year Variant:

RefMatl: consumption:  RefPlant:consumption:

Date to:  Multiplier:

**Number of periods required**

Hist. periods: 60 Forecast periods: 12 Periods per season: 12

Initialization pds: 12 Fixed periods:

**Control data**

Initialization: X Tracking limit: 4.000 ☐ Reset automatically

Model selection:  Selection procedure: 2 ☒ Param. optimization

Optimization level: F Weighting group:  ☐ Correction factors

Alpha factor: 0.20 Beta factor: 0.10

Gamma factor: 0.30 Delta factor: 0.30

Historic consumption values already have been entered into the GBI system. You can view them on the Forecasting tab, select

 Consumption vals

. If you do not see the Total

consumption column, press on . Within the table **scroll down** to see the Total Consumption for the periods 04.2014 to 03.2018.

These values form the base for later forecasts within this case study.

Material: DXTR3016

Descr.\* Deluxe Touring Bike (red)

Plant: DL00 Plant Dallas

Base Unit of Measure: EA Period

Consumption values

| Period  | Total consumption | Corrected value |
|---------|-------------------|-----------------|
| 04/2018 | 0                 |                 |
| 03/2018 | 0                 | 100             |
| 02/2018 | 0                 | 102             |
| 01/2018 | 0                 | 109             |
| 12/2017 | 0                 | 93              |
| 11/2017 | 0                 | 83              |
| 10/2017 | 0                 | 85              |
| 09/2017 | 0                 | 92              |
| 08/2017 | 0                 | 85              |
| 07/2017 | 0                 | 78              |
| 06/2017 | 0                 | 75              |
| 05/2017 | 0                 | 85              |
| 04/2017 | 0                 | 80              |
| 03/2017 | 0                 | 80              |

Unplnd consumption

Please note that within a productive system these values would have been updated based on the goods moved out of the warehouse.

Click on the Main Data menu item to return to the overview.

Click on Save to save your entries for the red bike.

The system informs you, that the material DXTR3### changed.



Repeat the same procedure for the silver and the black deluxe touring bike material master. Start with the silver bike (**DXTR2###**), then modify the black bike (**DXTR1###**).

DXTR2###  
DXTR1###

Click on the home icon Home to return to the Fiori Launchpad overview.  
(Click **OK** if you see an “unsaved data” message)



Step 2: Change Routing

**Task** Change a routing for a finished good.

**Time** 15 min

**Short Description** Change the routing for your red Deluxe Touring bike.

**Name (Position)** Jun Lee (Production Supervisor)

After the operational steps are laid out, the components must be allocated to the individual operations. This is a progressive process where each operation builds off the materials that entered production in the previous operations.

Component allocation

To change a routing, use the app *Change Routing*.

Fiori App



Enter the material number for your red Deluxe Touring Bike (**DXTR3###**). In the Plant field, enter Global Bike’s Dallas plant number (**DL00**). Please ensure that the Group field is empty.

DXTR3###  
DL00

Then, press *Enter* or click on **Continue**.

Change Routing: Operation Overview

Previous header

Next header

Header

Select all

More

Material

DXTR3000

Deluxe Touring BikeGrp.Count1

Sequence:

0

Operation Overview

| <input type="checkbox"/> | Op... | SOp | Work ce... | Plant | * C... | Standar... | Description                           |
|--------------------------|-------|-----|------------|-------|--------|------------|---------------------------------------|
| <input type="checkbox"/> | 0010  |     | ASSY1000   | DL00  | ASSY   |            | Material staging                      |
| <input type="checkbox"/> | 0020  |     | ASSY1000   | DL00  | ASSY   |            | Attach seat to frame                  |
| <input type="checkbox"/> | 0030  |     | ASSY1000   | DL00  | ASSY   |            | Attach handle bar assembly            |
| <input type="checkbox"/> | 0040  |     | ASSY1000   | DL00  | ASSY   |            | Attach derailleur gear asm. to wheel  |
| <input type="checkbox"/> | 0050  |     | ASSY1000   | DL00  | ASSY   |            | Attach front and rear wheels to chain |
| <input type="checkbox"/> | 0060  |     | ASSY1000   | DL00  | ASSY   |            | Attach brakes                         |
| <input type="checkbox"/> | 0070  |     | ASSY1000   | DL00  | ASSY   |            | Attach peddles                        |
| <input type="checkbox"/> | 0080  |     | INSP1000   | DL00  | ASSY   |            | Test bike                             |
| <input type="checkbox"/> | 0090  |     | PACK1000   | DL00  | ASSY   |            | Disassemble                           |
| <input type="checkbox"/> | 0100  |     | PACK1000   | DL00  | ASSY   |            | Pack bike                             |
| <input type="checkbox"/> | 0110  |     | PACK1000   | DL00  | ASSY   |            | Move to storage                       |

**Note** A routing can be defined using the routing group and group counter. Moreover, the routing contains reference to the material whose production it describes, and, in addition to the standard sequence, can contain parallel or alternative sequences. Alongside the standard values, the routing also contains the time elements that are relevant for scheduling operations. Each operation in the routing may contain its own base quantity, to which these time elements may refer.

Choose the **Allocation** menu item and select ☒ the red touring frame (**TRFR3###**) as well as the touring seat kit (**TRSK1###**). Now choose **New Assignment**.

TRFR3###  
TRSK1###

| Item Overview                       |                          |       |      |        |           |          |
|-------------------------------------|--------------------------|-------|------|--------|-----------|----------|
| <input type="checkbox"/>            | P...                     | Le... | Path | Ite... | Component | Quantity |
| <input type="checkbox"/>            | <input type="checkbox"/> | 0     | 0    | 0010   | TRWA1000  | 2        |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0020   | TRFR3000  | 1        |
| <input type="checkbox"/>            | <input type="checkbox"/> | 0     | 0    | 0030   | DGAM1000  | 1        |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0040   | TRSK1000  | 1        |
| <input type="checkbox"/>            | <input type="checkbox"/> | 0     | 0    | 0050   | TRHB1000  | 1        |
| <input type="checkbox"/>            | <input type="checkbox"/> | 0     | 0    | 0060   | PEDL1000  | 1        |
| <input type="checkbox"/>            | <input type="checkbox"/> | 0     | 0    | 0070   | CHAN1000  | 1        |
| <input type="checkbox"/>            | <input type="checkbox"/> | 0     | 0    | 0080   | BRKT1000  | 1        |
| <input type="checkbox"/>            | <input type="checkbox"/> | 0     | 0    | 0090   | WDOC1000  | 1        |
| <input type="checkbox"/>            | <input type="checkbox"/> | 0     | 0    | 0100   | PCKG1000  | 1        |

In the following pop up, click **Oper./act. list**. Choose ☒ operation **0020** and press **ENTER**. Back on the Material Component Overview screen, you see that now both components have been assigned to operation 0020.

0020

| Item Overview            |                          |       |      |        |           |          |             |      |       |                          |          |      |
|--------------------------|--------------------------|-------|------|--------|-----------|----------|-------------|------|-------|--------------------------|----------|------|
| <input type="checkbox"/> | P...                     | Le... | Path | Ite... | Component | Quantity | Sort String | U... | It... | B...                     | Activity | Seq. |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0010   | TRWA1000  | 2        |             | EA   | L     |                          |          |      |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0020   | TRFR3000  | 1        |             | EA   | L     | <input type="checkbox"/> | 0020     | 0    |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0030   | DGAM1000  | 1        |             | EA   | L     |                          |          |      |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0040   | TRSK1000  | 1        |             | EA   | L     | <input type="checkbox"/> | 0020     | 0    |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0050   | TRHB1000  | 1        |             | EA   | L     |                          |          |      |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0060   | PEDL1000  | 1        |             | EA   | L     |                          |          |      |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0070   | CHAN1000  | 1        |             | EA   | L     |                          |          |      |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0080   | BRKT1000  | 1        |             | EA   | L     |                          |          |      |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0090   | WDOC1000  | 1        |             | EA   | L     |                          |          |      |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0100   | PCKG1000  | 1        |             | EA   | L     |                          |          |      |

Repeat the same process for the other components and assign them to operations as shown below.

| Component                                  | Operation |
|--|-----------|
| TRHB1### (touring handle bar)              | 0030      |
| TRWA1### (touring aluminum wheel assembly) | 0040      |
| DGAM1### (derailleur gear assembly)        | 0040      |
| CHAN1### (chain)                           | 0050      |
| BRKT1### (brake kit)                       | 0060      |
| PEDL1### (pedal assembly)                  | 0070      |
| WDOC1### (warranty document)               | 0100      |
| PCKG1### (packaging)                       | 0100      |

TRHB1###  
TRWA1###  
DGAM1###  
  
CHAN1###  
BRKT1###  
  
PEDL1###  
WDOC1###  
PCKG1###

Material: DXTR3166

Plant: DL00

Group: 50002992Sequence: 0

BOM: 00008661Alt. BOM: 1

Item Overview

| <input type="checkbox"/> | Ph...                    | Le... | Path | Ite... | Component | Quantity | Sort ... | Un... | It... | Ba...                    | Activity |
|--------------------------|--------------------------|-------|------|--------|-----------|----------|----------|-------|-------|--------------------------|----------|
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0010   | TRWA1166  | 2        |          | EA    | L     | <input type="checkbox"/> | 0040     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0020   | TRFR3166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0020     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0030   | DGAM1166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0040     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0040   | TRSK1166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0020     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0050   | TRHB1166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0030     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0060   | PEDL1166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0070     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0070   | CHAN1166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0050     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0080   | BRKT1166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0060     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0090   | WDOC1166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0100     |
| <input type="checkbox"/> | <input type="checkbox"/> | 0     | 0    | 0100   | PCKG1166  | 1        |          | EA    | L     | <input type="checkbox"/> | 0100     |

**STEP A: Take a screenshot of the *Material Component Overview* screen as show above. Make sure that the Material Code (DXTR3###) is included.**

Save your entries with Save.

☒ Routing was saved with group 50000004 and material DXTR3000.

Click on the home icon 🏠 to return to the Fiori Launchpad overview.

Step 3: Display Product Group

Task

Display a product group.

Time

5 min

Short Description

Display the product group (product family) for all your Deluxe Touring bikes.

Name (Position)

Jun Lee (Production Supervisor)


A product group (product family) supports high-level planning. This way, it is not necessary to delve into the minutia of creating planning forecasts for every material in the company.

Product group

To display the deluxe touring bike product group, use the app *Display Product Group*.

Fiori App



In the Display Product Group: Initial Screen, in the Product group field find and select your group for deluxe touring bikes. In order to do so, press the search icon  (or pressed F4), enter **###\*** in the Material description field. Remember to replace **###** with your three-digit number, e.g. enter 009\* if your number is 009. Enter **DL00** as Plant.

###\*

DL00

Name of the product group (1)

Find product group via MRP controller

Find product group via description

MRP Controller:

Material description: 014\*

Language Key: EN

Product group:

Plant: DL00

Maximum No. of Hits: 500

Find

Cancel

Then, press *Enter* or click on **Find** to display the search results.

Compare with the screen shown below. Double-click on the line for deluxe touring bicycles to select the group.

Name of the product group (1)

> Find product group via MRP controller

Find product group via description

| MRP Controller | Material description                  | Language |
|----------------|---------------------------------------|----------|
|                | 014 PRODUKTGRUPPE DELUXE TOURING BIKE | EN       |
|                | 014 PRODUKTGRUPPE FAHRRÄDER           | EN       |
|                | 014 PRODUKTGRUPPE MOUNTAINBIKES       | EN       |
|                | 014 PRODUKTGRUPPE PROFI TOURING BIKE  | EN       |
|                | 014 PRODUKTGRUPPE TOURING BIKES       | EN       |

5 Entries found

Now that the correct product group (**PG-DXTR###**) is filled in, make sure that Plant **DL00** is entered.

PG-DXTR###  
DL00

<

SAP

Display Product Group: Initial Screen

More

Product group: PG-DXTR000

Plant: DL00

Then, press *Enter* to display the product group details.

On this screen you can see that this product group defines proportions for three different bikes: the black, silver and red deluxe touring bike. For the black bike a share of 40% will be considered and 30% for the silver and the red bikes each.


Product group: PG-DXTR014

014 Produktgruppe Deluxe Touring Bike

Plant: DL00: Plant Dallas

Base Unit: EA

| Member number | Plnt | Unit conv. | Aggr.fact. | Proportion | UoM |
|---------------|------|------------|------------|------------|-----|
| DXTR1014      | DL00 | 1          | 1          | 40         | EA  |
| DXTR2014      | DL00 | 1          | 1          | 30         | EA  |
| DXTR3014      | DL00 | 1          | 1          | 30         | EA  |

Click on the home icon  to return to the Fiori Launchpad overview.

Step 4: Create Sales and Operations Plan

**Task** Create a sales and operations plan for a product group.

**Time** 20 min

**Short Description** Create a 12-month sales and operations plan (SOP) for your product group.

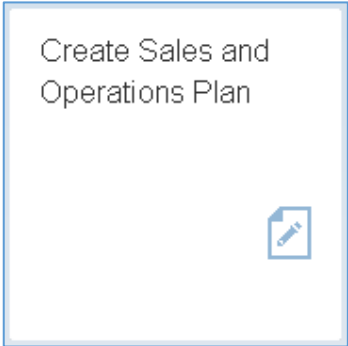
**Name (Position)** Jun Lee (Production Supervisor)

A sales and operations plan (SOP) is a planning tool used to consolidate data for forecasting future sales and production levels as well as the methods needed to meet those requirements. In this task, our SOP will be based on historical consumption values taken from a fixed period. This is in contrast to forecasting within a real-life system which would base the prediction on previous periods and their respective consumption.

Sales and operations plan

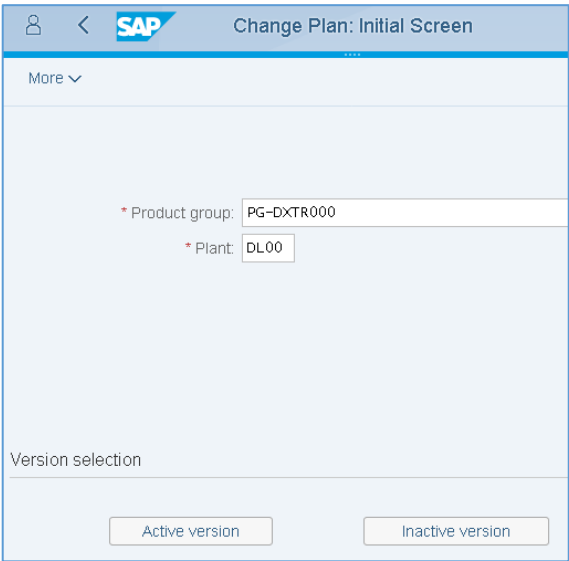
To create an SOP, use the app *Create Sales and Operations Plan*.

Fiori App



Make sure that Product group **PG-DXTR###** and Plant **DL00** are entered

PG-DXTR###  
DL00



Then, select

Active version

Record the version number: \_\_\_\_\_

In the menu bar, select:

**More ► Edit ► Create sales plan ► Forecast...**

Menu bar

Select **Period intervals**,

Forecast from **current period/current year** to **previous period/next year**,

Historic Data from **04/2014** to **03/2018**,

Forecast execution **Aut. model selection**.

Period intervals  
current period/current year  
previous period/next year  
04/2014  
03/2018  
Aut. model selection

Compare your screen with the one below before clicking on

Forecasting

**Forecast: Model Selection**

**Periods**

☒ Period intervals

Forecast Fr... : \* 09/2020 To: \* 08/2021

Historical data Fr... : \* 04/2014 To: \* 03/2018

☐ No. of periods

No. of forecast periods: 0

No. of historical values: 120

**Forecast execution**

☐ Constant models ☐ Seasonal models

☐ Trend models ☐ Season. Trend Models

☒ Aut. model selection ☐ Historical

**Forecast parameters**

Profile: SAP

Check entry Forecasting Historical... Forecast profile... ☰

If there are any warning messages click on and continue.

You will see that the system has selected ***Trend and season.*** Click on

Forecasting again.

In the next pop-up, *Forecast: Results* you can see that the system tested and found Seasonal and Trend tendencies in the past consumption data and has applied a Seasonal Trend Model.

Forecast: Results

Basic value: 319.920

MAD: 17

Trend value: 5

Error total: 57

Forecast results

| Period    | Orig. HV | Corr. HV | Ex-post FV | Orig. FV | Corr. FV | Season | F                        | C                        |
|-----------|----------|----------|------------|----------|----------|--------|--------------------------|--------------------------|
| M 04/2018 |          |          |            | 316      | 316      | 0.97   | <input type="checkbox"/> | <input type="checkbox"/> |
| M 05/2018 |          |          |            | 343      | 343      | 1.04   | <input type="checkbox"/> | <input type="checkbox"/> |
| M 06/2018 |          |          |            | 291      | 291      | 0.87   | <input type="checkbox"/> | <input type="checkbox"/> |
| M 07/2018 |          |          |            | 307      | 307      | 0.90   | <input type="checkbox"/> | <input type="checkbox"/> |
| M 08/2018 |          |          |            | 344      | 344      | 0.99   | <input type="checkbox"/> | <input type="checkbox"/> |
| M 09/2018 |          |          |            | 383      | 383      | 1.09   | <input type="checkbox"/> | <input type="checkbox"/> |
| M 10/2018 |          |          |            | 347      | 347      | 0.97   | <input type="checkbox"/> | <input type="checkbox"/> |


No forecast error messages exist

Save

Check entry

Forecasting

User exit

Click on  (Copy and Save). The sales forecast is copied into your Sales and Operations Plan.

As *Target day's supply* enter **5** for each forecasted period. (**12 periods only**).

5

Change Rough-Cut Plan

Characteristic Distribute... More

Product group: PG-DXTR016 016 Produktgruppe Deluxe Touring Bike

Plant: DL00

Version: A00 Active version Active

SOP: plan individual product group

| Planning Table      | Un | M 05/2019 | M 06/2019 | M 07/2019 | M 08/2019 | M 09/2019 | M 10/2019 | M 11/2019 | M 12/2019 | M 01/2020 | M 02/2020 | M 03/2020 | M 04/2020 |
|---------------------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sales               | EA | 409       | 346       | 364       | 407       | 452       | 408       | 395       | 459       | 505       | 460       | 446       | 439       |
| Production          | EA |           |           |           |           |           |           |           |           |           |           |           |           |
| Stock level         | EA | -409      | -755      | -1120     | -1527     | -1980     | -2388     | -2784     | -3244     | -3750     | -4210     | -4657     | -5097     |
| Target stock level  | EA |           |           |           |           |           |           |           |           |           |           |           |           |
| Range of Coverage   |    |           |           |           |           |           |           |           |           |           |           |           |           |
| Target day's supply |    | 5         | 5         | 5         | 5         | 5         | 5         | 5         | 5         | 5         | 5         | 5         | 5         |

In a production plan, you plan the quantities you need to produce in order to meet your sales plan. The system then calculates stock levels and days' supply for each period on the basis of the sales and production quantities and any target data. There are several different planning strategies available, which differ in the production values and the stock levels proposed.

As the SOP is a high-level planning, discrete production values are not necessary. The SAP system calculates discrete numbers once the SOP is transferred to the Demand Management.



In the menu bar, select:

**More ► Edit ► Create product plan ► Synchronous to sales**

Menu bar

Note the change in the Production and in the Stock level lines. The production plan is created to match the sales forecast. (Your numbers may be different).

Product group: PG-DXTR016 016 Produktgruppe Deluxe

Plant: DL00

Version: A00 Active version Active

SOP: plan individual product group

| Planning Table                            | Un | M 05/2019 | M 06/2019 | M 07/2019 | M 08/2019 | M 09/2019 |
|---|----|-----------|-----------|-----------|-----------|-----------|
| <input type="radio"/> Sales               | EA | 409       | 346       | 364       | 407       | 452       |
| <input type="radio"/> Production          | EA | 409       | 346       | 364       | 407       | 452       |
| <input type="radio"/> Stock level         | EA |           |           |           |           |           |
| <input type="radio"/> Target stock level  | EA |           |           |           |           |           |
| <input type="radio"/> Range of Coverage   |    |           |           |           |           |           |
| <input type="radio"/> Target days' supply |    | 5         | 5         | 5         | 5         | 5         |

In the system menu, select

**More ► Edit ► Create productn plan ► Target day's supply**

Menu bar

Note the impact on the production plan and stock levels. Production levels are generated to match the sales plus produce enough to put into stock to meet the target days of supply specifications.

Review the Planning Table (your numbers may be different).

Product group: PG-DXTR016 016 Produktgruppe Deluxe Touring Bike


Plant: DL00


Version: A00 Active version Active

SOP: plan individual product group

| Planning Table                            | Un | M 05/2019 | M 06/2019 | M 07/2019 | M 08/2019 | M 09/2019 | M 10/2019 |
|---|----|-----------|-----------|-----------|-----------|-----------|-----------|
| <input type="radio"/> Sales               | EA | 409       | 346       | 364       | 407       | 452       | 408       |
| <input type="radio"/> Production          | EA | 474       | 337       | 365       | 413       | 461       | 398       |
| <input type="radio"/> Stock level         | EA | 65        | 57        | 58        | 65        | 75        | 65        |
| <input type="radio"/> Target stock level  | EA |           |           |           |           |           |           |
| <input type="radio"/> Range of Coverage   |    | 5         | 5         | 5         | 5         | 5         | 5         |
| <input type="radio"/> Target days' supply |    | 5         | 5         | 5         | 5         | 5         | 5         |

**STEP B: Take a screenshot of the *Change Rough-Cut Plan* screen as shown above. Make sure that the Product Group (PG-DXTR###) is included.**

Save with .

Click on the home icon  to return to the Fiori Launchpad overview.



Step 5: Transfer SOP to Demand Management

**Task** Transfer SOP to Demand Management.

**Time** 10 min

**Short Description** Transfer the Sales and Operations Plan to Demand Management.

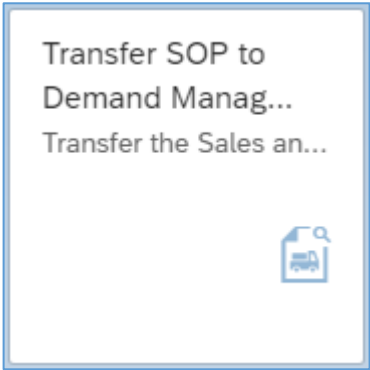
**Name (Position)** Jun Lee (Production Supervisor)

Demand Management is the tool used to disaggregate planning data from high-level plans down to the detailed planning level. For this task, planning for the Deluxe Touring Product Group will be broken down into the individual components that belong to this group.

Demand Management

To transfer the SOP to Demand Management, use the app *Transfer SOP to Demand Management – Transfer the Sales and Operations Plan to Demand Management*.

Fiori App



Enter Product group **PG-DXTR###**, Plant **DL00**, and the version saved in the previous task (**A00**).

PG-DXTR###  
DL00  
A00

Select **Prod.plan for mat. or PG members as proportion of PG** and select **Active**.  
Then, deselect the **Invisible transfer** indicator to present the disaggregation results on another screen allowing the planner to modify the results before saving them manually to Demand Management.

Prod.plan for mat. or PG  
members as prop. of PG  
Active  
~~Invisible transfer~~

Transfer now More

Product group: PG-DXTR016

016 Produktgruppe Deluxe Touring Bike

Plant: DL00

Plant Dallas

Version: A00

Transfer strategy and period

☐ Sales plan for material or PG members

☐ Sales plan for mat. or PG members as proportion of PG

☐ Production plan for material or PG members

☒ Prod.plan for mat. or PG members as proportion of PG

From: 05/15/2019

To:

☐ Invisible transfer

Independent requirement specifications

Requirements type:

Version:

☒ Active

Select the **Transfer now** menu item and examine the Planned Independent Requirements generated for **DXTR1###**.

DXTR1###

| Table Items Schedule Lines   |          |         |    |                                     |    |                |           |           |           |           |
|--|----------|---------|----|-------------------------------------|----|----------------|-----------|-----------|-----------|-----------|
| <div><div><div>K</div><div>&lt;&lt;</div><div>&lt;</div><div>&gt;</div><div>&gt;&gt;</div><div>X</div></div></div> |          |         |    |                                     |    |                |           |           |           |           |
| <input type="checkbox"/>   | Material | MRP ... | V  | A                                   | BU | Reqmnt Segment | M 05/2019 | M 06/2019 | M 07/2019 | M 08/2019 |
| <input type="checkbox"/>   | DXTR1016 | DL00    | AG | <input checked="" type="checkbox"/> | EA |                | 190       | 135       | 146       | 165       |

Then, click on **Save** to save.

The Planned Independent Requirements generated for **DXTR2###** will now be displayed. Save them with **Save**.


DXTR2###

| Table Items Schedule Lines   |          |         |    |                                     |    |                |           |           |           |           |
|--|----------|---------|----|-------------------------------------|----|----------------|-----------|-----------|-----------|-----------|
| <div><div><div>K</div><div>&lt;&lt;</div><div>&lt;</div><div>&gt;</div><div>&gt;&gt;</div><div>X</div></div></div> |          |         |    |                                     |    |                |           |           |           |           |
| <input type="checkbox"/>   | Material | MRP ... | V  | A                                   | BU | Reqmnt Segment | M 05/2019 | M 06/2019 | M 07/2019 | M 08/2019 |
| <input type="checkbox"/>   | DXTR2016 | DL00    | AG | <input checked="" type="checkbox"/> | EA |                | 142       | 101       | 110       | 124       |

Finally, review the requirements for **DXTR3###** and save them with **Save**.

DXTR3###

| Table  |          | Items   |    | Schedule Lines                      |    |                |           |           |           |           |
|--|----------|---------|----|-------------------------------------|----|----------------|-----------|-----------|-----------|-----------|
| <div><div><div>K</div><div>&lt;&lt;</div><div>&lt;</div><div>&gt;</div><div>&gt;&gt;</div><div>X</div></div></div> |          |         |    |                                     |    |                |           |           |           |           |
| <input type="checkbox"/>   | Material | MRP ... | V  | A                                   | BU | Reqmnt Segment | M 05/2019 | M 06/2019 | M 07/2019 | M 08/2019 |
| <input type="checkbox"/>   | DXTR3016 | DL00    | AG | <input checked="" type="checkbox"/> | EA |                | 142       | 101       | 110       | 124       |

Click on the home icon  to return to the Fiori Launchpad overview.

Step 6: Review Demand Management

**Task** Review the requirements for a product group.

**Short Description** Review the requirements for the product group to ensure that there are production requirements for the individual production items.

**Time** 10 min

To review planned requirements, use the app *Display PIRs*. (PIR = Planned Independent Requirement).

Fiori App



Select the **Product group** radio button, enter Product group **PG-DXTR###**, Plant **DL00**, and select **Continue** or click *Enter*.

Product group  
PG-DXTR###  
DL00

Display Planned Independent Requirements: Initial Screen

User Parameters More ▾

Planned Independent Requirements for

☐

Material:

☒Product group:

☐Requirements Plan:

☐Ext. Req. Plan:

MRP Area:

Plant:


On the *Table* tab, review the Planned Independent Requirements for the Deluxe Touring bike product group by material.

| Product group: PG-DXTR000             |     |      |    |  |     |           |           |           |           |           |           |           |           |           |           |
|---------------------------------------|-----|------|----|--|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 000 Produktgruppe Deluxe Touring Bike |     |      |    |  |     |           |           |           |           |           |           |           |           |           |           |
| Table Items Schedule Lines            |     |      |    |  |     |           |           |           |           |           |           |           |           |           |           |
| <div> </div>                          |     |      |    |  |     |           |           |           |           |           |           |           |           |           |           |
| Material                              | MRP | V    | A  | BU                                     | Req | M 04 2018 | M 05 2018 | M 06 2018 | M 07 2018 | M 08 2018 | M 09 2018 | M 10 2018 | M 11 2018 | M 12 2018 | M 01 2019 |
| <input type="checkbox"/> DXTR1000     |     | 90   | AG | <input checked="" type="checkbox"/> EA |     | 263       | 245       | 200       | 215       | 243       | 270       | 232       | 229       | 270       | 295       |
| <input type="checkbox"/> DXTR2000     |     | DL00 | AG | <input checked="" type="checkbox"/> EA |     | 197       | 184       | 150       | 161       | 182       | 202       | 174       | 172       | 202       | 221       |
| <input type="checkbox"/> DXTR3000     |     | DL00 | AG | <input checked="" type="checkbox"/> EA |     | 197       | 184       | 150       | 161       | 182       | 202       | 174       | 172       | 202       | 221       |
|                                       |     |      |    |  |     |           |           |           |           |           |           |           |           |           |           |

On the *Schedule lines* tab, review the requirement dates, planned quantities, values, and total planned quantities.

| Table                         | Items            | Schedule Lines     |
|-------------------------------|------------------|--------------------|
| Material: DXTR1016            |                  |                    |
| Plant: DL00                   | Reqmts type: VSF | Version/active: AG |
| Plan Qty: 2,063               | EA               |                    |
| <input type="checkbox"/> P... | ReqmtDate        | Planned qty        |
| <input type="checkbox"/> M    | 05/2019          | 190                |
| <input type="checkbox"/> M    | 06/2019          | 135                |
| <input type="checkbox"/> M    | 07/2019          | 146                |
| <input type="checkbox"/> M    | 08/2019          | 165                |
| <input type="checkbox"/> M    | 09/2019          | 184                |
| <input type="checkbox"/> M    | 10/2019          | 159                |
| <input type="checkbox"/> M    | 11/2019          | 158                |
| <input type="checkbox"/> M    | 12/2019          | 187                |
| <input type="checkbox"/> M    | 01/2020          | 205                |
| <input type="checkbox"/> M    | 02/2020          | 183                |
| <input type="checkbox"/> M    | 03/2020          | 175                |
| <input type="checkbox"/> M    | 04/2020          | 176                |

Select [Next item](#) to move to the next material.

Click on the home icon  to return to the Fiori Launchpad overview.



Step 7: Run MPS with MRP

**Task** Run Master Production Scheduling (MPS).


**Time** 10 min

**Short Description** Run Master Production Scheduling (MPS) to generate a series of planned orders that satisfy the requirements from SOP and demand management. Concurrently with MPS, the MRP materials will be processed leading to the generation of planned orders for dependent requirements that have been created by the BOM explosion process.

To run Master Production Scheduling, use the apps *Schedule MRP Run – Run MPS with MRP*.

Fiori App

Schedule MRP Run  
Run MPS with MRP



Enter your material **DXTR3###**,  
Plant **DL00**,  
Processing key **NETCH**,  
Select **2** (Purchase requisition in opening period), **3** (Schedule lines), **1** (MRP list),  
**1** (Adapt planning data (normal mode)), and **1** (Determination of Basic Dates for Planned).  
Then, select **Display material list**.

DXTR3###,  
DL00  
NETCH  
2  
3  
1  
1  
1  
1  
Display material list

Single-Item, Multi-Level

More ▾

\* Material:

MRP Area:

Plant:

Scope of Planning

☐ Product group

MRP Control Parameters

|                           |                                    |  |
|---------------------------|------------------------------------|--|
| * Processing Key:         | <input type="text" value="NETCH"/> | Net Change in Total Horizon              |
| * Create Purchase Req.:   | <input type="text" value="2"/>     | Purchase requisitions in opening period  |
| * SA Deliv. Sched. Lines: | <input type="text" value="3"/>     | Schedule lines                           |
| * Create MRP List:        | <input type="text" value="1"/>     | MRP list                                 |
| * Planning mode:          | <input type="text" value="1"/>     | Adapt planning data (normal mode)        |
| * Scheduling:             | <input type="text" value="1"/>     | Determination of Basic Dates for Planned |

Process Control Parameters

☐ Also Plan Unchanged Components

☐ Display Results Prior to Saving




☒ Display material list

Press *Enter*.

A warning message will appear asking you to check input parameters. Press *Enter* to confirm and bypass the warning message.

**Note** In MRP, a net requirements calculation is executed in the planning run to determine whether a material shortage exists for a certain material. In addition, stock and fixed receipts that currently exist (for example, purchase orders, production orders, fixed purchase requisitions and planned orders) are compared with the safety stock and requirements. The result of this comparison is the quantity available for planning.



If the quantity available for planning is lower than zero, a material shortage exists. MRP reacts to material shortages by creating new procurement proposals (purchase requisitions and planned orders). The suggested procurement quantity results from the lot-sizing procedure that is set in the material master.



Single-Item, Multi-Level

Materials

More ▾




| Statistics                          |    |
|-------------------------------------|----|
| Materials planned                   | 11 |
| Materials with New Exceptions       | 11 |
| Materials with Termination MRP List |    |

| Parameters                  |       |
|-----------------------------|-------|
| MRP Area                    | DL00  |
| Plnt                        | DL00  |
| Processing Key              | NETCH |
| Create Purchase Requisition | 2     |
| SA Schedule Line            | 3     |
| Create MRP List             | 1     |
| Planning Mode               | 1     |
| Scheduling                  | 1     |

| Database Statistics            |    |
|--------------------------------|----|
| Planned orders changed         | 12 |
| Planned orders deleted         | 19 |
| Dependent requirements changed | 20 |

If you scroll down, you will see the run-time statistics for the MRP calculation.

| Ranking List of Materials with Highest CPU Times (in ms) |         |      |           |          |      |
|--|---------|------|-----------|----------|------|
| Material   |         |      |           | MRP Area |      |
|  | Runtime | Read | Net Calc. | BOM      | Plnt |
| DXTR3066   |         |      |           | DL00     | DL00 |
|  | 2,894   | 77   | 70        | 759      | 645  |
| BRKT1066   |         |      |           | DL00     | DL00 |
|  | 1,098   | 2    | 1,045     | 0        | 39   |
| CHAN1066   |         |      |           | DL00     | DL00 |
|  | 135     | 2    | 36        | 0        | 86   |

Click on the home icon  to return to the Fiori Launchpad overview.





Step 8: Review Stock/Requirements List

**Task** Review the Stock/Requirements List.

**Short Description** Review the Stock/Requirements List for your deluxe touring bike.

**Name (Position)** Lars Iseler (Production Order Worker)

Tim

The Stock/Requirements List is a list which dynamically changes whenever a transaction occurs using the given material. Display and review the Stock/Requirements List for all materials of the red deluxe touring bike on hand and the demand that exists against these products. The report shows that there is no stock and therefore nothing is available for use at this time.

Stock/R

To review the Stock/Requirements List, use the SAP Fiori App *Monitor Stock / Requirements List*.



On the Individual access tab, enter Material **DXTR3###** and Plant **DL00** and click on [Continue](#).

A screenshot of the SAP Fiori app 'Stock/Requirements List: Initial Screen'. The app has a blue header bar with the SAP logo and the title 'Stock/Requirements List: Initial Screen'. Below the header is a 'More' dropdown menu. There are two tabs: 'Individual access' (selected) and 'Collective access'. The 'Individual access' tab shows a form with the following fields: 'Material' (DXTR3000), 'Description' (Deluxe Touring Bike (red)), 'MRP Area' (empty), 'Plant' (DL00), and 'Plant Dallas' (empty). At the bottom, there is a 'With filter' checkbox which is unchecked.

Choose (Switch to Period Totals). This will allow you to see the planned independent requirements, planned receipts, and ATP quantities based on time - days, weeks, or months.


|              |                                  |                     |  |
|--------------|----------------------------------|---------------------|--|
| Material:    | <b>DSTR3016</b>                  |                     |  |
| Description: | <b>Deluxe Touring Bike (red)</b> |                     |  |
| MRP Area:    | <b>DL00</b>                      | DC Dallas           |  |
| Plant:       | <b>DL00</b>                      | MRP type: <b>M1</b> | Material type: <b>FERT</b> Unit: <b>EA</b> |

Days Weeks Months

Date GR ST On Page 1 / 1

| A... | Period/Segment         | Plnd ind.reqmts | Requirement | Receipts | Avail. Quantity | ATP quantity | Actual ... |
|------|------------------------|-----------------|-------------|----------|-----------------|--------------|------------|
|      | Stock                  |                 |             |          | 0               | 0            | 15.0-      |
|      | 05/01/19               | 142-            | 0           | 0        | 142-            | 0            | 22.0-      |
|      | 05/22/19 End of Planni |                 |             |          |                 |              |            |
|      | 05/22/19               | 0               | 0           | 142      | 0               | 142          | 0.0        |
|      | 06/01/19               | 101-            | 0           | 101      | 0               | 101          | 0.0        |
|      | 07/01/19               | 110-            | 0           | 110      | 0               | 110          | 0.0        |
|      | 08/01/19               | 124-            | 0           | 124      | 0               | 124          | 0.0        |
|      | 09/01/19               | 138-            | 0           | 138      | 0               | 138          | 0.0        |
|      | 10/01/19               | 119-            | 0           | 119      | 0               | 119          | 0.0        |
|      | 11/01/19               | 119-            | 0           | 119      | 0               | 119          | 0.0        |
|      | 12/01/19               | 140-            | 0           | 140      | 0               | 140          | 0.0        |
|      | 01/01/20               | 154-            | 0           | 154      | 0               | 154          | 0.0        |
|      | 02/01/20               | 137-            | 0           | 137      | 0               | 137          | 0.0        |
|      | 03/01/20               | 131-            | 0           | 131      | 0               | 131          | 0.0        |
|      | 04/01/20               | 132-            | 0           | 132      | 0               | 132          | 0.0        |

Select  to go back to the individual lines.

| Σ |      | 6x         |          | ✎                 |  | 🏠               |  | 📄         |               | 📅 Date |               | 📅 GR |  | 📅 ST On |  | 🔄 On |  | Vendor |  |  |
|---|------|------------|----------|-------------------|--|-----------------|--|-----------|---------------|--------|---------------|------|--|---------|--|------|--|--------|--|--|
| 🔍 | A... | Date       | MRP e... | MRP element data  |  | Rescheduling... |  | E...      | Receipt/Reqmt |        | Available Qty |      |  |         |  |      |  |        |  |  |
| 🔍 |      | 05/15/2019 | Stock    |                   |  |                 |  |           |               |        | 0             |      |  |         |  |      |  |        |  |  |
| 🔍 |      | 05/01/2019 | IndReq   | VSF               |  |                 |  |           | 142-          |        | 142-          |      |  |         |  |      |  |        |  |  |
| 🔍 |      | 05/22/2019 | ----->   | End of Plannin... |  |                 |  |           |               |        |               |      |  |         |  |      |  |        |  |  |
| 🔍 |      | 05/22/2019 | PldOrd   | 0000000177/STCK   |  | 05/01/2019      |  | <u>30</u> | 142           |        | 0             |      |  |         |  |      |  |        |  |  |
| 🔍 |      | 06/01/2019 | PldOrd   | 0000000178/STCK   |  |                 |  |           | 101           |        | 101           |      |  |         |  |      |  |        |  |  |
| 🔍 |      | 06/01/2019 | IndReq   | VSF               |  |                 |  |           | 101-          |        | 0             |      |  |         |  |      |  |        |  |  |
| 🔍 |      | 07/01/2019 | PldOrd   | 0000000179/STCK   |  |                 |  |           | 110           |        | 110           |      |  |         |  |      |  |        |  |  |

To view the details of the **first** planned order (**PldOrd**), select  (Element Details).








Additional Data for MRP Element

Plnd Order: 0000000177 Make-to-stock Order End Date: 05/22/2019 GR pr.time: 0

Order Qty.: 142 EA Order Start: 05/18/2019 Proc. type: E


Scrap: 0 Opening Date: 05/17/2019 Order Type: LA

Exception: 30 = Plan process according to schedule (05/01/19)






 -> Prod.Ord. -> PartConvProdOrder -> Proc.Ord. -> SubProcOrd -> Pur Req.
 


Select  (Pegged Requirements).

You can see that this planned order is to fulfill our Safety Stock and the first planned independent requirement that was created when we disaggregated our SOP.

Click on the home icon  to return to the Fiori Launchpad overview.



Step 9: Convert Planned Order into Production Order

**Task** Convert a planned order into a production order. **Time** 10 min

**Short Description** Convert a planned order generated in the MPS/MRP run to a production order. The stock requirements list displays the suggested planned orders from the MPS run.

**Name (Position)** Lars Iseler (Production Order Worker)

To convert planned orders into production orders, use the SAP Fiori App *Monitor Stock / Requirements List*. Fiori App



Enter Material **DXTR3###**, Plant **DL00**, and click on **Continue**. Then, double-click on the **third** planned order.

DXTR3###  
DL00

**Note** that your dates and quantities may be different.

|   |      |   |          |  |                 |                    |
|---|------|---|----------|--|-----------------|--------------------|
| Material: <input type="text" value="DXTR3016"/>                     |      |   |          |  |                 |                    |
| Description: <input type="text" value="Deluxe Touring Bike (red)"/> |      |   |          |  |                 |                    |
| MRP Area: <input type="text" value="DL00"/>                         |      | DC Dallas                                 |          |  |                 |                    |
| Plant: <input type="text" value="DL00"/>                            |      | MRP type: <input type="text" value="M1"/> |          | Material type: <input type="text" value="FERT"/> |                 |                    |
| <div>Σ 68 [Icons] [Arrows] Date GR ST On On Vendor</div>            |      |   |          |  |                 |                    |
| [Icon]  | A... | Date                                      | MRP e... | MRP element data                                 | Rescheduling... | E... Receipt/Reqmt |
| [Icon]  |      | 05/15/2019                                | Stock    |  |                 |                    |
| [Icon]  |      | 05/01/2019                                | IndReq   | VSF  |                 | 142-               |
| [Icon]  |      | 05/22/2019                                | ----->   | End of Planning Time...                          |                 |                    |
| [Icon]  |      | 05/22/2019                                | PldOrd   | 0000000177/STCK                                  | 05/01/2019 30   | 142                |
| [Icon]  |      | 06/01/2019                                | PldOrd   | 0000000178/STCK                                  |                 | 101                |
| [Icon]  |      | 06/01/2019                                | IndReq   | VSF  |                 | 101-               |
| [Icon]  |      | 07/01/2019                                | PldOrd   | 0000000179/STCK                                  |                 | 110                |

In the Additional Data screen, click on **-> Prod.Ord.** (Convert planned order to production order).

Order: %000000000001

Material: DXTR3016

Status: REL MACM SETC

Deluxe Touring Bike (red)

General

Assignment

Goods Receipt

Control

Dates/Qties

Master Data

Long Text

Adm

Quantities

Total Qty: 110 EA

Delivered: 0


Scrap Portion: 0.00 %

Short/Exc. Rcpt: 0



**Note** At this point, please note down the total quantity in your production order. You will need it later when confirming your order.

Total quantity

---

Determine the status of your order by clicking on . What does this mean?

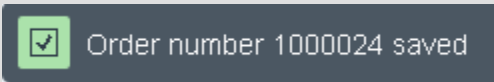
**Note** When you converted the planned order to a production order scheduling takes place, an availability check was automatically carried out and a reservation was placed on the materials specified within the bill of materials. The order was also automatically released when the production order was created.

Click on  to go back to the *Production order Create: Header* screen and save your production order with .


**Note** When you save the production order the system will automatically calculate the planned costs for the production order and the production order is given a number.

Production order number


---



**Make sure you record your production order number.**

Select  to refresh the Stock/Requirements List. In the MRP Element column the planned order **PldOrd** that you selected should now have changed into a production order **PrdOrd**.

|  |            |        |                      |            |                    |      |
|--|------------|--------|----------------------|------------|--------------------|------|
|  | 07/01/2019 | PrdOrd | 000001000002/PP01/Re | 05/01/2019 | <a href="#">10</a> | 110  |
|  | 07/01/2019 | IndReq | VSF                  |            |                    | 110- |

Click on the home icon  to return to the Fiori Launchpad overview.



## Step 10: Receive Goods in Inventory

**Task** Receive goods in the Dallas plant.

**Time** 10  
min

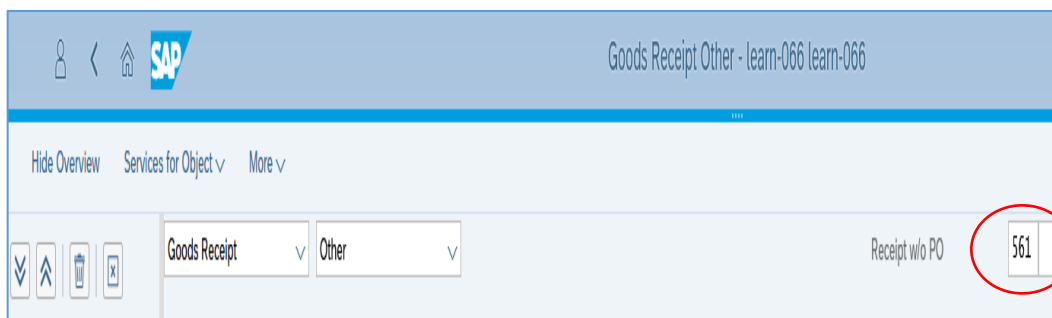
**Short Description** Receive enough goods in the Dallas storage locations to start the production process.

Usually, at this point the purchasing department in Dallas would take over and procure enough raw materials from vendors to fill the inventory so that the production process can be initiated. In this case study, we are bypassing this procurement process (this process is explained in the MM unit in detail). Because the inventory for all DXTR3### components is empty, we will assume that we find 500 pieces each in the storage location.

To receive goods in the inventory, use the app *Post Goods Movement*.




Make sure that **Goods Receipt** and **Other** is selected in the drop-down menu.



Enter Movement Type **561** (Receipt per initial entry of stock balances into unrestricted use),

and **today's date** as Document and Posting Date.

Then, press *Enter*. If necessary, confirm the information pop-up.

If you now click on the *Close Detail Data* button  you will be able to enter the ten materials which are the components that are needed in your production order later.

Enter the Material Code in the *Mat. Short Text* field, and the *Quantity* and *Storage Location* as shown below.

561  
today


Note that all materials are stored in the **raw materials** storage location in Dallas (**DL00**) except the touring wheel assembly (first component in the list) which is a **semi-finished good**.


| Material                                   | Quantity | SLoc |
|--|----------|------|
| TRWA1### (Touring Aluminum Wheel Assembly) | 500      | SF00 |
| TRFR3### (Touring Frame-Red)               | 500      | RM00 |
| DGAM1### (Derailleur Gear Assembly)        | 500      | RM00 |
| TRSK1### (Touring Seat Kit)                | 500      | RM00 |
| TRHB1### (Touring Handle Bar)              | 500      | RM00 |
| PEDL1### (Pedal Assembly)                  | 500      | RM00 |
| CHAN1### (Chain)                           | 500      | RM00 |
| BRKT1### (Brake Kit)                       | 500      | RM00 |
| WDOC1### (Warranty Document)               | 500      | RM00 |
| PCKG1### (Packaging)                       | 500      | RM00 |


Enter DL00 as *Plnt* in all of the ten lines. After each line, press *Enter*.

Compare your screen with the screenshot shown below.

| Line | Mat. Short Text                 | Wa...                    | OK                                  | Qty in UnE | EUn | SLoc            |
|------|---------------------------------|--------------------------|-------------------------------------|------------|-----|-----------------|
| 1    | Touring Aluminum Wheel Assembly | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Semi-Fin. Goods |
| 2    | Touring Frame-Red               | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |
| 3    | Derailleur Gear Assembly        | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |
| 4    | Touring Seat Kit                | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |
| 5    | Touring Handle Bar              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |
| 6    | Pedal Assembly                  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |
| 7    | Chain                           | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |
| 8    | Brake Kit                       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |
| 9    | Warranty Document               | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |
| 10   | Packaging                       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 500        | EA  | Raw Materials   |

Save your goods receipt with  and record the material document number.

 Material document 4900005129 posted [View Details](#)

Click on the home icon  to return to the Fiori Launchpad overview.

DL00

TRWA1###

TRFR3###

DGAM1###

TRSK1###

TRHB1###

PEDL1###

CHAN1###

BRKT1###

WDOC1###

PCKG1###

DL00

Material  
document  
number

## Step 11: Issue Goods to Production Order

**Task** Issue goods to a production order.

**Time** 10  
min

**Short Description** Now that all necessary components are on stock issue them to your production order in precise quantity.

The goods issue process is fully defined in the production order, BOM, and routing. The quantities and the materials are reserved for this specific production order, they will be withdrawn with reference to the order number and will be used to assign actual costs to the production order for managerial accounting purposes.

Goods issue

To issue goods to a production order, use the app *Post Goods Movement*.

Fiori App



Make sure that **Goods Issue** and **Order** is selected.

**Note** Goods issues posting for the required components is another milestone in the production order process. The following functions are performed when a GI for the components of the production order is posted:

- Storage-location-specific update of the stock and consumption fields
- Reduction of the reservation (for planned withdrawal)
- Update of costs for unplanned withdrawals
- Determination of actual costs (valuation) and order update
- Consumption update
- Generation of material and accounting documents (FI and CO documents)
- Creation of material document.
- Creation of accounting document
- Creation of controlling document
- Printing of GI document


today  
today  
261



Enter Movement Type **261** (Consumption for order from warehouse),  
Enter **today** as Document Date and Posting Date.

Enter your **production order number** from two tasks back (Step 9). Then press *Enter*.

Production  
order number

If you have not written down your production order number, you can find it in the system. In order to do so, in the Order field press **F4** or click on the search icon . In the *Order Info System – Input Help for Order Number* screen, enter your material **DXTR3###** in the Material field and click on **Execute**. Double-click on the result row to adopt your production order number into the initial screen.











F4

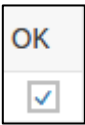
DXTR3###

An itemized list will appear. It lists all the materials and their respective quantities that need to be issued to your order. You need to tell the system what Storage Location the materials should be withdrawn from. For the Touring Aluminum Wheel Assembly (TRWA1###), enter **SF00** (Semi-finished goods) and for all other materials **RM00** (Raw materials) in the SLoc fields. Notice that your quantities could be different.

SF00


RM00

| Line | Mat. Short Text                 | W...                     | OK                       | Qty in UnE | EUn | ...   | SLoc |
|------|---------------------------------|--------------------------|--------------------------|------------|-----|---|------|
| 1    | Touring Aluminum Wheel Assembly | <input type="checkbox"/> | <input type="checkbox"/> | 322        | EA  |  | SF00 |
| 2    | Touring Frame-Red               | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |
| 3    | Deraillleur Gear Assembly       | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |
| 4    | Touring Seat Kit                | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |
| 5    | Touring Handle Bar              | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |
| 6    | Pedal Assembly                  | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |
| 7    | Chain                           | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |
| 8    | Brake Kit                       | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |
| 9    | Warranty Document               | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |
| 10   | Packaging                       | <input type="checkbox"/> | <input type="checkbox"/> | 161        | EA  |  | RM00 |




OK

Flag each item with **OK**. Click on **Post** and record the material document number.

 Material document 4900005130 posted [View Details](#)

Material  
document  
number

Click on the home icon  to return to the Fiori Launchpad overview.

Step 12: Review Production Order Status

**Task** Review the production order status.

**Short Description** Review the current production order with respect to the status of the order.


**Name (Position)** Michael Brauer (Shop Floor Worker 4)



**Time** 10 min

To display the production order, use the app *Display Production Order*. Fiori App




Enter the number of your **production order**. Production order number

If you have not written down your production order number you can find it in the system. In order to do so, in the Order field press **F4** or click on the search icon . In the *Order Number (1)* screen choose the tab *Production Orders by Material and Routing*, enter your material **DXTR3###** in the Material field and click on *Enter*. Double-click on the result row to adopt your production order number into the initial screen. F4  
DXTR3###

When your production order number is entered, click on . Note that the order status has changed and review it by clicking on  again.

|                                     |        |                         |
|-------------------------------------|--------|-------------------------|
| Order: 1000024                      |        |                         |
| Material: DXTR3000                  |        |                         |
| Status Business processes           |        |                         |
| Syst. Status                        |        |                         |
| X                                   | Sta... | Text                    |
| <input checked="" type="checkbox"/> | REL    | Released                |
| <input checked="" type="checkbox"/> | PRC    | Pre-costed              |
| <input checked="" type="checkbox"/> | GMPS   | Goods movement posted   |
| <input checked="" type="checkbox"/> | MACM   | Material committed      |
| <input checked="" type="checkbox"/> | SETC   | Settlement rule created |

You did a Goods Issue to the production order in the last task. Now, you want to review the cost assigned to the order, the material document, and the corresponding accounting document.

In order to do so, click on  to go back to the header screen.

Then in the menu bar select:

**More ▶ Goto ▶ Costs ▶ Analysis**


Menu bar

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Order                                 | 1000020 DXTR3066                   |
| Order Type                            | PP01 Standard production order     |
| Plant                                 | DL00 Plant Dallas                  |
| Material                              | DXTR3066 Deluxe Touring Bike (red) |
| Planned Quantity                      | 137 EA each                        |
| Target Cost Version                   | 0                                  |
| Cumulative Data                       |                                    |
| Legal Valuation                       |                                    |
| Company Code Currency/Object Currency |                                    |

| Cost Element  | Cost Element (Text)               | Origin        | Total Target Costs | Total Actual Costs | Target/actual var. | T/I var(%) | Currency |
|---------------|-----------------------------------|---------------|--------------------|--------------------|--------------------|------------|----------|
| 720300        | Semi-Finished Consumption Expense | DL00/TRWA1066 | 0.00               | 30,962.00          | 30,962.00          |            | USD      |
|               |                                   |               | 0.00               | 30,962.00          | 30,962.00          |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/TRFR3066 | 0.00               | 27,400.00          | 27,400.00          |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/DGAM1066 | 0.00               | 10,275.00          | 10,275.00          |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/TRSK1066 | 0.00               | 6,850.00           | 6,850.00           |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/TRHB1066 | 0.00               | 3,425.00           | 3,425.00           |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/PEDL1066 | 0.00               | 6,165.00           | 6,165.00           |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/CHAN1066 | 0.00               | 1,370.00           | 1,370.00           |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/BRKT1066 | 0.00               | 9,590.00           | 9,590.00           |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/WDOC1066 | 0.00               | 137.00             | 137.00             |            | USD      |
| 720000        | Raw Material Consumption Expense  | DL00/PCKG1066 | 0.00               | 479.50             | 479.50             |            | USD      |
| Raw Materials |                                   |               | 0.00               | 65,691.50          | 65,691.50          |            | USD      |
|               |                                   |               | 0.00               | 96,653.50          | 96,653.50          |            | USD      |

Here you can see the costs that were assigned to the production order from our goods issue.

**STEP D: Take a screenshot of the *Target/Actual Comparison* screen as shown above. Make sure that you include the Production Order Number and the Material Code (DXTR3###).**

Click on the home icon  to return to the Fiori Launchpad overview.



Step 13: Confirm Production Completion

**Task** Confirm production order completion.

**Time** 10 min

**Short Description** Confirm completion for your production order.

**Name (Position)** Michael Brauer (Shop Floor Worker 4)

When the assembly has been completed for the current production order, we need to confirm that certain procedures and activities have been completed and record the quantity of the finished product that has been manufactured.

Production completion

To confirm production completion, use the app *Enter Production order Confirmation*.

Fiori App



Enter your **production order** number and click on **Continue** or *Enter*.

Production order number

Select **Final Confirmation** and **Clear Open Reserv.** In the Yield Quantity. field enter the **amount** of bikes you were supposed to produce for this order (Ref. Step 9) if the field is not already filled. Remember that your amount might be different from the screen below.

Final Confirm.  
Clear Reservation  
Amount

Goods Movements

More

Order: 1000002

Status: REL PRC GMPS MACM SETC

Material: DXTR3016

Material Descr.: Deluxe Touring Bike (red)

Confirmation Type

Partial confirmation: ☐

Clear Open Reservs.: ☒

Final Confirmation: ☒

Autom. Final Conf.: ☐

Actual Data

|                  | Curr. t/b Conf. | Unit | Confirmed to Date | Planned t/b Conf. Unit |
|------------------|-----------------|------|-------------------|------------------------|
| Yield Quantity:  | 110             | EA   | 0                 | 110 EA                 |
| Scrap Quantity:  |                 |      | 0                 | 0                      |
| Rework Quantity: |                 |      | 0                 |                        |
| Reason for Var.: |                 |      |                   |                        |

Then, change the Start Execution to **1 hour earlier** than the default time.

1 hour earlier

To Be Confirmed

Start Execution:

16.05.2019

08:31:43

Finish Execut.:

16.05.2019

09:31:43

Posting Date:

16.05.2019

Click on *Enter* and save your entries with 

Save


.

☒

Confirmation of order 1000024 saved

**Note** When the confirmation is saved, labor costs for the order are calculated automatically. The quantity yield also establishes the parameters for the goods receipt into Inventory.

Click on the home icon 



 to return to the Fiori Launchpad overview.



Step 14: Receive Goods from Production Order

**Task** Post a goods receipt from production order.

**Time** 15 min

**Short Description** Post a goods receipt from your production order.

**Name (Position)** Susanne Castro (Receiving Clerk)

Receive the completed products into finished goods inventory. Check the quantity proposed against the quantity specified in the production order and the quantity specified during confirmation. If there are any discrepancies, the system will decide if an error or warning message should be generated depending upon the deviation identified.

Goods receipt

To post a goods receipt, use the app *Post Goods Movement*.

Fiori App



Select **Goods Receipt** and **Order** in the drop-down menu.

Goods Receipt

Order

1000020

GR goods receipt

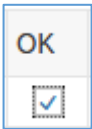
101

Enter Movement Type **101** your **production order number**. Press *Enter*.

101  
Production order  
number

Enter as SLoc **FG00** (Finished Products) and make sure, that the plant DL00 (Plant Dallas) is entered.

FG00



Select **OK** for your item.

OK

Review the item to ensure that all the data is correct.

- Movement Type → 101 (goods receipt into Inventory)
- Storage Location → FG00 (Inventory)
- Quantity → should equal the amount that you confirmed in the previous task

Goods Receipt

Order

General

Document Date: 05/16/2019

Delivery Note:

Posting Date: 05/16/2019

Doc.Header Text:

☐ Individual Slip


| Line | Mat. Short Text           | Wa...                    | OK                                  | Qty in UnE | EUn | S...                   | SLoc |
|------|---------------------------|--------------------------|-------------------------------------|------------|-----|------------------------|------|
| 1    | Deluxe Touring Bike (red) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 110        | EA  | <div><div></div></div> | FG00 |

Click on **Post** to post the goods receipt. When you save this material document the actual value of the material produced was entered into the production order.

☒

Material document 5000000059 posted [View Details](#)

Record the material document number.

Click on the home icon  to return to the Fiori Launchpad overview.

Material document  
number

---

Step 15: Review Costs Assigned to Production Order

**Task** Review costs assigned to your production order.

**Time** 5 min

**Short Description** Display and review the costs that have been assigned to your production order.

To display costs assigned, use the app *Display Production Order*.

Fiori App



Enter your **production order number** and click on **Continue**.


Production order number

In the menu bar select:

**More** ► **Goto** ► **Costs** ► **Analysis**

Menu bar

|                                       |                                    |                |                      |                      |                      |                  |
|---------------------------------------|------------------------------------|----------------|----------------------|----------------------|----------------------|------------------|
| Order                                 | 1000002 DXTR3016                   |                |                      |                      |                      |                  |
| Order Type                            | PP01 Standard production order     |                |                      |                      |                      |                  |
| Plant                                 | DL00 Plant Dallas                  |                |                      |                      |                      |                  |
| Material                              | DXTR3016 Deluxe Touring Bike (red) |                |                      |                      |                      |                  |
| Planned Quantity                      | 110 EA each                        |                |                      |                      |                      |                  |
| Actual Quantity                       | 110 EA each                        |                |                      |                      |                      |                  |
| Target Cost Version 0                 |                                    |                |                      |                      |                      |                  |
| Cumulative Data                       |                                    |                |                      |                      |                      |                  |
| Legal Valuation                       |                                    |                |                      |                      |                      |                  |
| Company Code Currency/Object Currency |                                    |                |                      |                      |                      |                  |
| -----                                 |                                    |                |                      |                      |                      |                  |
| Cost Element                          | Cost Element (Text)                | Origin         | ▫ Total Target Costs | ▫ Total Actual Costs | ▫ Target/actual var. | T/I ... Currency |
| 720300                                | Aufwendungen Halbfertigerzeugnisse | DL00/TRWA1016  | 0.00                 | 24,860.00            | 24,860.00            | USD              |
| 741600                                | Ausgleich Produktionsmengen        | DL00/DXTR3016  | 0.00                 | 80,525.50-           | 80,525.50-           | USD              |
|                                       |                                    |                | ▫ 0.00               | ▫ 55,665.50-         | ▫ 55,665.50-         | USD              |
| 800000                                | Arbeit                             | NAPR1000/LABOR | 0.00                 | 2,751.75             | 2,751.75             | USD              |
| Production                            |                                    |                | ▫ 0.00               | ▫ 2,751.75           | ▫ 2,751.75           | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/TRFR3016  | 0.00                 | 22,000.00            | 22,000.00            | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/DGAM1016  | 0.00                 | 8,250.00             | 8,250.00             | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/TRSK1016  | 0.00                 | 5,500.00             | 5,500.00             | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/TRHB1016  | 0.00                 | 2,750.00             | 2,750.00             | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/PEDL1016  | 0.00                 | 4,950.00             | 4,950.00             | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/CHAN1016  | 0.00                 | 1,100.00             | 1,100.00             | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/BRKT1016  | 0.00                 | 7,700.00             | 7,700.00             | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/WDOC1016  | 0.00                 | 110.00               | 110.00               | USD              |
| 720000                                | Aufwendungen Rohstoffe             | DL00/PCKG1016  | 0.00                 | 385.00               | 385.00               | USD              |
| Raw Materials                         |                                    |                | ▫ 0.00               | ▫ 52,745.00          | ▫ 52,745.00          | USD              |
|                                       |                                    |                | ▫ 0.00               | ▫ 168.75-            | ▫ 168.75-            | USD              |

Click on the home icon  to return to the Fiori Launchpad overview.



Step 16: Settle Costs of Production Order

**Task** Settle costs of your production order.

**Time** 20 min

**Short Description** Settle the costs of your production order. The costs are temporarily captured in the production order and they need to be assigned to an appropriate cost object. Compare the actual costs to the planned costs to identify any deviations or potential problems in this regard.

**Name (Position)** Jamie Shamblin (Cost Accountant)

To settle costs of a production order, use the app *Actual Settlement*.

Fiori App



If you have to input the Controlling Area, enter **NA00**, and click on **Continue**.

NA00

Enter your **production order number**,  
the **current month** as Settlement period (e.g. 007 for July),  
the **current month** as Posting period,  
and the **current year** as Fiscal year.  
Make sure that **Test Run** is selected.

Production order  
number  
current month  
current month  
current year  
Test Run

Controlling Area: NA00

Order: 1000002

Parameters

Settlement Period: 005

Posting period: 005

Fiscal Year: 2019

Asset Value Date:

Processing Type: Automatic

Processing Options

☒ Test Run

☐ Check Trans. Data

Click on **Execute** and confirm any occurring pop-ups.

| Processing Options                  |        |                            |
|-------------------------------------|--------|----------------------------|
| Selection Parameters                |        | Value                      |
| Execution Type                      |        | <u>Settlement Executed</u> |
| Processing completed with no errors |        |                            |
| Statistics                          |        |                            |
| Processing Category                 | Number |                            |
| <u>Settlement Executed</u>          | 1      |                            |
| No Change                           |        |                            |
| Not Relevant                        |        |                            |

Click on [Detail lists](#).

In the menu bar choose:  
**More ▶ Environment ▶ Report**

Then, double-click on **Orders: Actual/Plan/Variance** to select the report.

Select Report

Orders: Actual/Plan/Variance

Orders: Actual/Plan/Commitments

Orders: Drilldown by Partner

Orders: Accruals/Category

Choose    Technical names on/off    Cancel

Orders: Actual/Plan/Variance

Date: 05/16/2019 10:59:38

Page: 2 / 2

Order/Group

1000002

000001000002



Fiscal year

2019




Period

1 - 5

| Cost Elements                      | Actual     | Plan | Var. (Abs.) | Var. (%) |
|------------------------------------|------------|------|-------------|----------|
| 720000 Aufwendungen Rohstoffe      | 52,745.00  |      | 52,745.00   |          |
| 720300 Aufw Halb                   | 24,860.00  |      | 24,860.00   |          |
| 800000 Arbeit                      | 2,751.75   |      | 2,751.75    |          |
| * Costs                            | 80,356.75  |      | 80,356.75   |          |
| 741600 Ausgleich Produktionsmengen | 80,525.50- |      | 80,525.50-  |          |
| * Deliveries to Stock              | 80,525.50- |      | 80,525.50-  |          |
| ** Balance                         | 168.75-    |      | 168.75-     |          |

Click on  to go back. Then, select  and click on  twice.

Yes

Deselect **Test Run** and execute again with . Confirm the pop up again with **Enter**. Click on  and select . Choose report **Orders: Actual/Plan/Variance**.



Test Run

Actual/Plan/Variance

|                              |         |                           |             |  |
|------------------------------|---------|---------------------------|-------------|--|
| Orders: Actual/Plan/Variance |         | Date: 09/03/2020 14:06:07 | Page: 2 / 2 |  |
| Order/Group                  | 1000020 | 000001000020              |             |  |
| Fiscal year                  | 2020    |                           |             |  |
| Period                       | 1 - 9   |                           |             |  |

| Cost Elements               | Actual      | Plan | Var. (Abs.) | Var. (%) |
|-----------------------------|-------------|------|-------------|----------|
| 720000 RM Consumpt Expense  | 65,691.50   |      | 65,691.50   |          |
| 720300 SF Consumpt Expense  | 30,962.00   |      | 30,962.00   |          |
| 800000 Labor                | 3,426.75    |      | 3,426.75    |          |
| * Costs                     | 100,080.25  |      | 100,080.25  |          |
| 741600 Manufac. Output Sett | 210.60      |      | 210.60      |          |
| * Settled Costs             | 210.60      |      | 210.60      |          |
| 741600 Manufac. Output Sett | 100,290.85- |      | 100,290.85- |          |
| * Deliveries to Stock       | 100,290.85- |      | 100,290.85- |          |
| ** Balance                  |             |      |             |          |

**STEP E: Take a screenshot of the *Orders: Actual/Plan/Variance* screen as shown above. Make sure that you include the Order Number**

Click on , choose  and Click on the home icon  to return to the Fiori Launchpad overview.

Yes