

Logistics (LO)

In this case study, logistical processes and the integration of sales, production planning, and materials management processes in the SAP S/4HANA system are shown using the example of the model company Global Bikes.

Product

S/4HANA 2023
Global Bike

Fiori 3.0

Level

Beginners / Advanced

Focus

MM, SD, PP

Authors

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Version

4.3.1

Last Change

November 2025

MOTIVATION

In this case study, logistical processes and the integration of sales, production planning, and materials management processes in the SAP S/4HANA system are shown using the example of the model company Global Bikes. We look at the complete process from the customer inquiry, through manufacturing to settlement, including the procurement of production components.

The processing of the case study promotes the understanding of the individual process steps and the underlying SAP functions.

PREREQUISITES

To successfully carry out this case study, it is not necessary to have processed the individual modules "SD", "MM" and "PP". However, it is recommended.

NOTE

This case study uses the model company Global Bike.



Process Overview

Objective Understand and execute a comprehensive logistical process.

Scenario

With their reputation for excellent quality, the bikes from Global Bikes have aroused the interest of the new customer Elbe Cycle ###. A special request for customized mountain bikes brings a new challenge: The wheels should also be maintainable on the go, and should therefore be equipped with an Air Pump and Repair Kit. In addition, the wheels are to be equipped with an innovative GPS bicycle computer, which is inconspicuously integrated in the area of the handlebar – a practical solution designed to simplify navigation while driving. In addition, Global Bikes is to design three versions to serve different customer segments: an inexpensive variant, a higher-priced variant and a carbon fiber wheel variant.

Global Bikes meets this request with the introduction of a new “Sport & Commute” product line that meets the needs of commuting as well as those of sporting use. Global Bikes then plans the "Sport & Commute" series with three models – a basic, premium and carbon fiber wheel variant – with only the first two to go into regular production. The carbon fiber wheel version is exclusively made to order. Based on the existing mountain bike design, the first two variants are further developed and produced for three months to test market acceptance.

For the required Integrated GPS Bike Computer, vendor inquiries are initiated to obtain suitable quotations - also MagdePedal Tech ###, as a new company on the market, signals interest in creating a quotation. After the procurement of the components and the successful payment of the supplier, the production takes its course.

Once the new mountain bikes have been produced, they will be shipped to Elbe Cycle ###. The final step is the posting of the incoming payment for the delivered wheels.

To carry out a complete logistics process, you assume various roles within the Global Bike company. You are active in the areas of Sales and Distribution (SD), Materials Management (MM), and Production (PP).

Employees Involved

Sales:

- David Lopez (Sales Representative US East)
- Matthias Dosch (Sales Person 2 US East)
- Sergey Petrov (Warehouse Employee)
- Stephanie Bernard (AR Accountant)

Production:

- Jun Lee (Production Manager)

- Hiro Abe (Plant Manager)
- Lars Iseler (Shop Floor Worker 2)
- Susanne Castro (Goods Receipt Clerk)
- Michael Brauer (Shop Floor Worker 4)
- Jamie Shamblin (Controller)

Procurement:

- Joyce Hausman (Contract Manager)
- Sandeep Das (Warehouse Supervisor)
- Sergey Petrov (Warehouse Employee)
- Aura Maxwell (Purchasing Agent 2)
- Alberto Conti (Inventory Assistant)
- Wilton Saban (Inventory Supervisor)
- Tatiana Karsova (Goods Receipt Clerk)
- Shuyuan Chen (Head of Accounting)
- Silvia Cassano (AP Accountant)

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Step 1: Create New Business Partners (Customer)

Task Create a new business partner (customer).

Time 15 min

Description Use the SAP Fiori launchpad to create a new customer. Since you want to win Elbe Cycle ### as a new customer as part of this case study (which is therefore not yet stored in the system), you will create the customer master record for it. You enter two types of customer data – sales and financial data. In general, customer data is created in three groups or views – General, Financial Accounting, and Sales.

Customers can be created **centrally**, which means that all views are created by a single employee in one step. However, responsibility can also be **distributed** so that different employees of the finance and sales departments are responsible for creating and maintaining the data in their respective views.

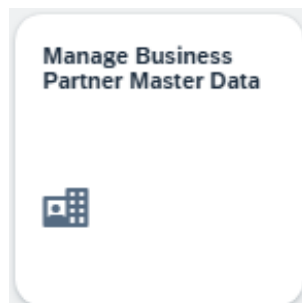
In this activity, you will use **central maintenance** to enter all necessary data for the new customer at once.

Name (Job) Matthias Dosch (Sales Person 2 US East)

To create a new customer, click the *Manage Business Partner Master Data* app in the section *Sales & Distribution* in the *Sales Person* role.

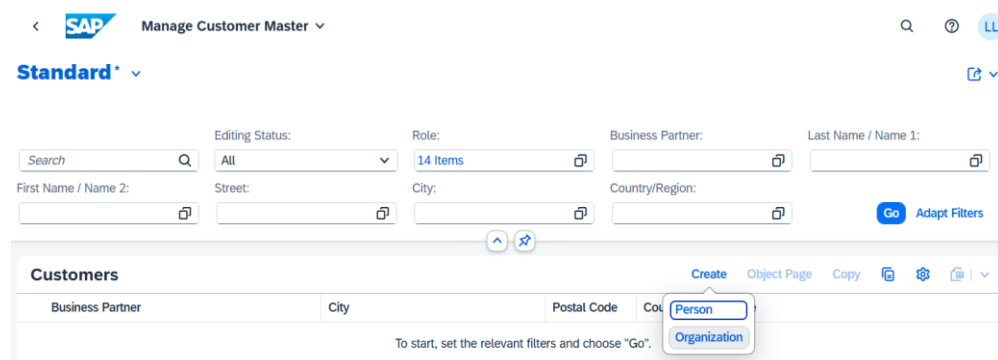
Initial Screen

Note If the app is not displayed, search for it using the search bar .



In the *Manage Business Partner Master* view, choose the **Create** button. As the new customer Elbe Cycle ### is a company, click **Organization** in the submenu that opens.

Organization



Note Business partners are created at a higher level (or cross-department). They can be categorized as a person or organization. An organization represents entities such as a company (for example, a legal person), parts of a legal person (such as a department), or an association. “Organization” is an umbrella term used to map any situation that can occur during daily business activities.

Roles are assigned to the business partners, for example: Customer, Supplier. The different roles are defined for specific organizational levels (company code, sales area).

In the following, you will learn about and use the two standard roles for customers. While you store data for financial accounting in the role **FLCU00 | Customer**, specific roles such as Customer or Supplier are assigned in the role **FLCU01 | Customer Sales Data**. These roles are relevant for specific organizational levels (for example: Company Code, Sales Area). Standard roles for customers.

In the *Create Organization* view, click the value help icon  in the *BP Role* field. In the dialog box, search for **Business Partner FI Customer** and then choose the entry **FLCU00 | Customer**.

Select: BP Role

Business Partner FI Customer x Q Go

Items (1)

BP Role	BP Role Description
FLCU00	Business Partner FI Customer

Choose Company as the form of address, enter 1 **Elbe Cycle ###** as the name. Then, in the *Street* field, enter **Main Street**, *House Number* **7**, and as *City*, enter **Magdeburg**. In addition, add the postal code **39106**, the country/region **DE**, the region **15 | Saxony-Anhalt**, and the language **DE**.

The sales organization is **DS00**, the distribution channel is **WH**, and the corresponding division is **BI**. The currency is set to **Euro (EUR)**. The responsible company code is **DE00**, to which reconciliation account **12000000** is assigned.

Note Remember that you use your three-digit number for ###, for example, if your number is 003, enter 003. The number makes a clear distinction between individual data records in this teaching setup.

Since the new customer is based in Magdeburg, you will assign it to the company code DE00 (Global Bike Germany GmbH) in Germany.

Business Partner
Customer
FLCU00 | Customer

Elbe Cycle ###
Main Street
7
Magdeburg
39106
EN
15 | Saxony-Anhalt
EN
DS00
VH
BI
Euro (EUR)
DE00
12000000

Create Organization

General Data	Standard Address	Organizational Data
Business Partner: 	Street: Main Street	Sales Organization: DS00
Grouping: 	House Number: 7	Distribution Channel: WH
BP Category: Organization (2)	City: Magdeburg	Division: BI
BP Role: FLCU00	Postal Code: 39106	Currency: EUR
Organization Title: Company (0003)	Country/Region: DE	Company Code: DE00
Name 1: * Elbe Cycle 100	Region: 15	Reconciliation Account: 1200000

OK Cancel

Compare your data with the screenshot above and confirm your entries with **OK**. As a result, a new summary is generated. Make sure that you have selected the *Basic Data* tab page. In the *General Information* area, add your three-digit number ### as *search term 1*.

###

Basic Data ▾ Roles Address ▾ Bank Accounts Payment Cards Identification ▾ Sales Areas Company Codes Tax Categories ▸

General Information

Organization Title: Company	Legal Form: 	Created By: Learn-501 Learn-501 (LEARN-501)
Name 1: * Elbe Cycle 100	Foundation Date: e.g. 12/31/2025	Created On: -
Name 2: 	Liquidation Date: e.g. 12/31/2025	Last Changed By: Learn-501 Learn-501 (LEARN-501)
Name 3: 	Authorization Group: Stakeholder: Visibility 0 (Unrestricted)	Last Changed On: -
Name 4: 	Natural Person: ☐	
Search Term 1: 100	External BP Number: 	

Note In the general/higher-level role of the business partner, the name and address of the business partner are documented. The general data is relevant for both Sales and Distribution and Accounting. To avoid data redundancy, they are stored client-specifically. They are valid for all organizational units of a business partner.

Choose the *Address* → *Address Details* tab. You see a row with the country details and the validity dates. Click **>** to maintain more details.

Address Details

Address Details (1) Standard* ▾ Search Copy Create Delete ▾

Address	Country/Region	Standard	Valid From	Valid To
☐	DE	Yes	08/08/2025	12/31/9999

In the *Address* area, you can use the button [Show More](#) to show all fields. There, you want to define the transportation zone to simplify route determination in the future. Locate the *Transport Zone* field and click the value help icon . The following dialog box opens.

Select: Transportation Zone

Items (2)

Transportation Zone	Country/Region Key	Description
0000000001	DE	Region North
0000000002	DE	Region South

Germany is often divided into the zones North and South. Due to the geographical location of Magdeburg, you choose the **area North**. By simply clicking on the entry, the transport zone is inserted into the address details.

Area North

Finally, use the [Apply](#) button to save your draft and return to the general overview.

Then choose the *Roles* tab page. You get to the correct position via auto scroll. You see a line with the details of the business partner role and the validity dates.

Note At the beginning of the *Manage Business Partner Master Data* app, you have already created the role **FLCU00 (Customer)** for your business partner and have already created it with sales-specific and company-code-specific organizational data. For this reason, the "*Sales Area*" tab page and the "*Company Codes*" tab page are already displayed.

Roles

Roles (1) [Standard](#) [Create](#) [Delete](#)      

Business Partner Role	Valid From	Valid To
☐ FLCU00 	08/08/2025 	12/31/9999 

Choose the *Company Codes* tab page. The company codes to which the customer is assigned or in which accounting-relevant data is stored are displayed there.

Click  at the end of the row to maintain further accounting-relevant data.

Company Codes

Company Codes (1) [Standard](#) [Create with Reference](#) [Copy](#) [Create](#) [Delete](#)  

Company Code	Reconciliation Acco...	Accounting Clerk	Payment Terms	Posting Blo...	Deletion BL...
☐ DE00 	1200000 			☐	☐ 

Check that **DE00** is defined as the *company code* and that reconciliation account **12000000** (Trade Receivables) is used.

DE00
12000000

Enter **001** (posting date) as the *sort key*. In addition, add **0001** (payable immediately due net) as the *payment term*.

001
0001

General Data Correspondence **Finance** Withholding Taxes Dunning Data Texts Attachments

Finance

Accounting	Interest Calculation	Payment Data
Reconciliation Account: * Trade receivables (12000000)	Interest Indicator:	Payment Terms: Payable immediately Due net (0001)
Head Office:	Interest Cycle (Months):	Tolerance Group:
Sort Key: Posting date (001)	Calculated To: e.g. 12/31/2025	Known/Negotiated Leave:
Authorization group:		Check Cashing Time: 0

Choose **Apply** to save the entry as a draft.

You return to the general overview again and navigate to the *Roles* area.

To be able to now also maintain data for the sales department, you must create a new business partner role. When you click the **Create** button, a new row is created in the Business Partner Role area.

Roles

Roles (2) Standard * Search Create Delete

Business Partner Role	Valid From	Valid To
☐	08/08/2025	12/31/9999
☐ FLCU00	08/08/2025	12/31/9999

In the empty *Business Partner Role* field, click the value help icon . In the dialog box, search for **Customer** and then choose the entry **FLCU01 | Business Partner Customer**.

Customer
FLCU01- Business
Partner Customer

Switch to the *Sales Areas* tab page for maintaining the sales area data of your customer.

Since you have already maintained individual sales area data at the start, an entry has already been made here. Click  at the end of the new line to maintain more details.

Sales Areas

Sales Areas (1) Standard Search Create with Reference Copy Create Delete

Sales Organization	Distribution Channel	Division	Delivery Block	Billing Block
☐ DS00	WH	BI		

Then choose the *Sales Area Details* tab page. In the *Sales Orders* area, enter **DE0001** as the *sales district* and make sure that **EUR** is specified as the *currency*.

DE0001
USD

In the *Billing* area, you enter **FOB** (Free on Board) as the *Incoterms* and **Magdeburg** as *Incoterms Location 1*. This information is relevant for quotation creation at the latest. In addition, add **0001** (payable immediately due net) as *payment terms*.

FOB
Magdeburg
0001

Note Incoterms (abbreviation for **International Commercial Terms**) are internationally recognized delivery terms published by the International Chamber of Commerce (ICC) for international commercial law.

Terms

In the *Shipping* area, select **Normal item** as the *delivery priority* from the dropdown list and **Standard** as the *shipping conditions*. Add **HD00** (Heidelberg) as the *delivering plant*.

Normal
Default
HD00

General Data **Sales Area Details** Taxes Partner Functions Additional Data Texts Attachments

Sales Area Details

Sales Orders	Billing	Shipping
Sales District: North Germany (DE0001)	Invoice Dates:	Delivery Priority: Normal item
Customer Group:	Incoterms Version:	Delivery Plant: Plant Heidelberg (HD00)
Sales Office:	Incoterms: Free on board (FOB)	Shipping Conditions: * Standard
Sales Group:	Incoterms Location 1 ID:	Order Combination: ☐
Authorization Group: Stakeholder: Visibility 0 (Unrestricted)	Incoterms Location 1: Magdeburg	POD Relevant: ☐
Account At Customer:	Incoterms Location 2 ID: -	Unlimited Tolerance: ☐
Order Probability in Percentage:	Incoterms Location 2: -	Underdelivered Tolerance:
Item Proposal:	Invoice List Schedule:	Overdelivered Tolerance:
ABC Class:	Credit Control Area:	
PP Customer Procedure:	Payment Guarantee Procedure:	
Currency: * European Euro (EUR)	Payment Terms: Payable immediately Due net (0001)	

In the *Accounting* area, select **Domestic Revenue** as the *account assignment group*. In the following *Partial Deliveries* area, use the dropdown list in the *Partial Delivery per Item* field and select **Partial Delivery Allowed**. In the last area of this entry screen, select *Pricing and Statistics* as the price group using the **Bulk Buyer** dropdown list and enter **1** (Standard) as the *customer pricing procedure*. Compare your entries with the following screenshots and confirm your entries with *Enter*.

Revenue Domestic

Partial Delivery Allowed

Bulk Buyer
1 (default)

Accounting	Partial Deliveries	Pricing and Statistics
Account assignment group: Domestic Revenues	Partial Delivery Per Item: Partial delivery allowed	Price Group: Bulk buyer
	Complete Delivery Required: ☐	Customer Pricing Procedure: * Standard (1)
	Maximum Partial Deliveries: 0	Price List:

Then choose the *Taxes* tab page. The tax categories should be added automatically by the system. If there is no entry option yet, press *Enter* or switch to the *Sales Organization* field again. The system should have

generated a tax line. For the *tax category* MWST, enter the *tax classification* **1** (taxable).

Taxes

Sales Area Taxes (1) | **Standard** ▾

Country/Region	Tax Category	Tax Classification	
Germany (DE)	MWST	1	 >

Choose **Apply** to save your adaptations as a draft. Then press **Create** to save the final business partner.

Note When you receive a message that the language is a mandatory field, navigate to the Standard Communication area and enter **EN** in the Language field.

EN

 **Elbe Cycle 100**
1003091

< s **Address** ▾ Bank Accounts Payment Cards Identification ▾ Sales Areas Company Codes

Standard Communication

Language: English (EN)	Cell Phone Country/Region:
Preferred Communication: —	Cell Phone:

The SAP system creates the master data record for the new BP and assigns a unique business partner number. Make a note of the BP number that you can find in the header area.

<  **Customer** ▾

 **Elbe Cycle 100**
1003091

Click  to return to the SAP Fiori launchpad.

☐

Step 2: Create Material from Template (Bike)

Task Create the material master record for GCBK1###, GCBK2###, GCBK3###.

Time 10 min

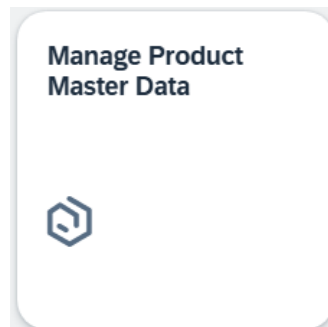
Description Use the SAP Fiori launchpad to create your new products. Since these should be a modification of the previous bikes, use the Deluxe Touring bikes DXTR1### and DXTR2### already stored in the system as a template.

For the carbon fiber wheel GCBK3###, the newly created GCBK2### can be used as a template. All new components of the bicycles will be completed later in the case study.

Name (Job) Sandeep Das (Warehouse Supervisor)

To create new products, use the *Manage Product Master Data* app in the *Materials Management* area in the *Warehouse Supervisor* role.

Initial Screen



Use the *Product* field to find your mountain bike **DXTR1###**.

DXTR1###

Select the line with your Deluxe Touring Bike and click **Copy**.

Image	Description / ID	Group / Type	Product Category
	Deluxe Touring Bike (black) DXTR1100	Finished Bikes (BIKES) Finished Product (FERT)	Product

In the *Select Organizational Data to Copy* popup, click on the *Plants* row.

Select Organizational Data to Copy

Deluxe Touring Bike (black)
DXTR1100

☒	Plants	5 items selected	5	>
☒	Distribution Chains	6 items selected	6	>

Deselect all plants except your plant in Heidelberg (HD00). Click .

HD00

 **Select Organizational Data to Copy**

Plants

☐	Plant	Total	
☐	DC Hamburg (HH00) No item selected	1	>
☐	DC Miami (MI00) No item selected	1	>
☐	DC San Diego (SD00) No item selected	1	>
☒	Plant Heidelberg (HD00) No item selected	1	>
☐	Plant Dallas (DL00) No item selected	1	>

Now click on the line of the *distribution chains* and select only all lines with the *sales organization DS00*. Click .

DS00

 **Select Organizational Data to Copy**

Distribution Chains

☐	Sales Organization	Distribution Channel
☐	US West UW00	Wholesale WH
☒	Germany South DS00	Wholesale WH
☐	US East UE00	Wholesale WH
☐	Germany North DN00	Wholesale WH
☐	Germany North DN00	Internet IN
☐	US West UW00	Internet IN

Confirm your adjustments with **OK**.

In the *Create Master Data Record* dialog box, enter **GCBK1###** as the product number and **Global Basic Sport & Commute Bike** as the description. Click **OK**.

Create Master Data Record

Product Number: Base Unit: Change Number:

Product Type: GTIN: Revision Level: [Create Revision Le](#)

Product Category: GTIN Category:

Product Group:

Description:

Navigate to the "Valuation Areas" tab page and click on the line of the valuation area **HD00**.

Valuation Areas

Valuation Areas (1) **Standard** [Create](#) [Delete](#) [Copy](#) [Print](#) [Settings](#)

Valuation Ar...	Valuation Type	Price Control Determination	Valuation Category	Valuation Class
☐ HD00		Transaction-Based (2)		7920

Increase the inventory cost by EUR 200 (to **EUR 1058**).

Note Since the original mountain bike is equipped with new components (additional Integrated GPS Bike Computer, Repair Kit and Air Pump), we are already raising the value of the material by EUR 200 at this point.

Valuation
Current Period

Standard [Copy](#) [Print](#) [Settings](#)

Currency Type...	Ledger	Currency	Inventory Price	Standard Price	Moving Average Price	Price Unit
10	Leading Ledger (OL)	EUR	1.058,00	EUR		1

Click **Apply**.

Now navigate to the "Plants" tab page. Click on the line of plant **HD00**.

Now go to the *MRP Data* tab page and enter strategy group **40 (Planning with final assembly)**.

GCBK1###
Global Basic Sport &
Commute Bike

HD00

1058 EUR

HD00

40 (Planning with final
assembly)

MRP Data
MRP Data

MRP Type: * MPS, fixing type -1- (M1)	ABC Indicator: 	Reorder Point: 0 EA
MRP Controller: HD MRP Control 100 (100)	MRP Group: 	Planning Cycle:
Availability Check: Individ. Requirement (02)	Strategy Group: Planning with final assembly (40)	Planning Time Fence: 7 DAY

Note The strategy group 40 is used in demand management to preproduce semi-finished products and have them finally assembled only after receipt of a specific sales order, which enables rapid responsiveness to market demands.

Strategy group 20 is used to convert make-to-order production and generates an assigned planned order for each sales order in order-related MRP. This ensures production according to requirements.

Click **Apply**.

Click **Create**.

Repeat these steps for your second bike. Use the bike **DXTR2###** as a **template**. Use the following values:

- *Product Number:* **GCBK2###**
- *Description:* **Global Endurance Sport & Commute Bike**
- *Plant:* **HD00**
- *Distribution Chain:* **DS00**
- *Inventory price:* **EUR 2133**
- *Strategy Group:* **40**

DXTR2### as template

GCBK2###

Global Endurance Sport
& Commute Bike

HD00

DS00
2133 EUR

40

Repeat these steps for your third bike. Use the bike **GCBK2###** as a **template**. Use the following values:

- *Product Number:* **GCBK3###**
- *Description:* **Carbon Global Sport & Commute Bike**
- *Plant:* **HD00**
- *Distribution Chain:* **DS00**
- *Inventory price:* **EUR 2633**
- *Strategy Group:* **20**

GCBK2### as template

GCBK3###

Carbon Global Sport &
Commute Bike

HD00

DS00
2633 EUR

20

Note The third variant GCBK3### of Global Bikes is intended as an exclusive custom-made product for a sales order and is therefore not integrated into standard production planning – here we use strategy group 20. The other two models, on the other hand, flow into regular production planning in order to establish them in the market even outside of the special order.

Click  to return to the SAP Fiori launchpad.

☐

Step 3: Maintain Condition Types

Task Create a new price condition.

Time 5 min

Description In order to be able to offer our new customers an offer for our latest bicycles in the range, it is necessary to set pricing conditions for the new materials.

Name (Job) Matthias Dosch (Sales Person 2 US East)

To create a new price condition, use the search bar  to find and execute the app *Condition Maintenance: Create*.

Condition Maintenance: Create

Open the menu entry Prices  and double-click *Material Price*.

- ▼  Prices
 -  Material Price
 -  Price List
 -  Individual Prices
- >  Discounts/Surcharges
- >  Freight
- >  Taxes
- >  Conditions

Now choose  (Material with release status) on the right side of the screen.

Enter sales *organization* **DS00** and *distribution channel* **WH**. Choose *Enter* to confirm your entry.

DS00
VH

In the *Material with Release Status* table, enter **PR00** (price) as the *condition type* for the first three lines and enter an *amount* of **EUR 1500** for material **GCBK1###**, **EUR 3500** for material **GCBK2###**, and **EUR 4000** for material **GCBK3###**.

PR00
GCBK1###
1500 EUR
GCBK2###
3500 EUR
GCBK3###
4000 EUR

Choose *Enter* to confirm your entries. Compare your entries with the screenshot.

 Sales Organization: **DS00** Germany South
 Distribution Channel: **WH** Wholesale

Click  to return to the SAP Fiori launchpad.



Step 4: Create material from template (Integrated GPS Bike Computer)

Task Create the material master record for the Integrated GPS Bike Computer IDGC2###.

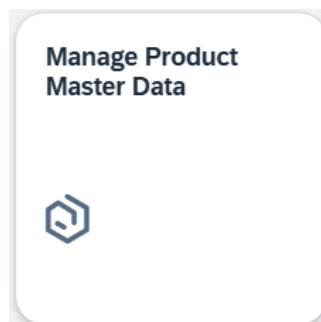
Time 10 min

Description The new Integrated GPS Bike Computer is similar to existing materials in the system, but differs in its integration into the handlebars during the production phase. Please use the SAP Fiori launchpad to create this new Integrated GPS Bike Computer in the system. As a reference, you can use the Deluxe Bike Computer with the name DGRB2### as a template.

Name (Job) Sandeep Das (Warehouse Supervisor)

To create new Integrated GPS Bike Computers, use the *Manage Product Master Data* app in the *Materials Management* area in the *Warehouse Supervisor* role.

Initial Screen



Use the *Product* field to find the Ironing Lock **DGRB2###**. Click **Start**.

DGRB2###

Select the row with the ironing lock and click **Copy**.

The screenshot shows the SAP Fiori 'Manage Product Master Data' app. The 'Product' field is set to 'Deluxe GPS-Bi...'. The 'Copy' button is highlighted in the top right of the table.

Image	Description / ID	Group / Type	Product Category
	Deluxe GPS-Bike Computer Royal Blue DGRB2100	Utilities (UTIL) Finished Product (FERT)	Product

In the *Select Organizational Data to Copy* popup, click on the *Plants* row.

Select Organizational Data to Copy

Deluxe GPS-Bike Computer Royal Blue
DGRB2100

☒ Plants	5 items selected	5 >
☒ Distribution Chains	4 items selected	4 >

Deselect all plants except for the *plant* in **Heidelberg (HD00)**. Click .

HD00

Now click on the line of the *distribution chains* and select only the line with the *sales organization* **DS00**. Click .

DS00

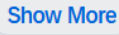
Confirm your adjustments with .

In the *Create Master Data Record* dialog box, enter **IDGC1###** as the *product number*, **Raw Material (Raw)** as the *product type*, **Raw Materials (RAW)** as the *product group*, and **Integrated GPS Bike Computer ###** as the *description*. Click .

IDGC1###
Raw Material (Raw)
Raw Materials (RAW)
Integrated GPS Bike
Computer ###

Create Master Data Record

Product Number: IDGC1100	Base Unit: * Each (EA) 	Change Number: 
Product Type: * Raw materials (ROH) 	GTIN: 	Revision Level: Create Revision Le 
Product Category: Product	GTIN Category: 	
Product Group: Raw Materials (RAW) 		
Description: * Integrated GPS Bike Computer 100		
 		

In the *General Information* section, click . Then enter *General item category group* **0001 (Make-to-order production)**.

0001 (Make-to-order
production)

Content / Design	Groupings	Statuses
Industry Standard Description: 	External Product Group: 	Cross-Plant Product Status: 
Size / Dimensions: 	General Item Category Group: Make-to-order (0001) 	Valid-From Date: e.g. 12/31/2025 
Laboratory / Design Office: 	Authorization Group: 	Level of Explicitness for Serial Number: Serialization within the stock material number 

In the *Descriptions* section, also enter the *product name* **Integrated GPS-Bike Computer ###** for *language* **DE (german)**.

Descriptions

Descriptions (2) | Standard ▾

Language	Product
☐ DE 	Integrated GPS-Bike Computer 100
☐ English (EN)	Integrated GPS Bike Computer 100

EN
Integrated GPS Bike
Computer ###

Now switch to the *Purchasing* area and enter **Not Active** as the status of the variable order unit.

Not Active

Purchasing

Order Unit of Measure: 

Purchasing Value Key: 

State of Variable Purchase Order Unit: ▾

Scroll down to the *Plants* section. And click on the line of plant HD00.

On the *Plant* screen, under *General Information*, verify that **HD00** is entered for *Plant*.

HD00

Now go to the *Purchasing* area and enter *Purchasing Group* **E00 (Europe Purchasing)**.

E00 (Europe
Purchasing)

Plant Heidelberg

< [ational Trade](#) [Purchasing](#) [MRP Data](#) ▾ [Advanced Planning](#) ▾ [Extended Service Parts Planning](#) ▾ [Storage Locations](#)

Purchasing

Purchasing Group: 

Source List Required: ☐

Tax Indicator:

Automatic Purchase Order Allowed: ☐

Source of Supply: 

Now go to the *MRP Data* area and check that for *MRP type* **PD (material requirements planning)**, as *MRP controller* **000 (HD MRP controller)**, and as *availability check* **02** is entered.

PD (Material
Requirements Planning)
000
(HD MRP Controller) 02

MRP Data

MRP Data

MRP Type: ★ 

ABC Indicator: 

MRP Controller: 

MRP Group: 

Availability Check: ★ 

Strategy Group: 

EX

In the *Lot-Size Data* section, enter **EX (Lot-for-Lot Sizing)** as the lot-sizing procedure.

Note that some values in this view have three decimal places. A minimum lot size of 10 is therefore displayed as 10,000.

In the *Procurement* section, enter **External Procurement** as the procurement type and **1** (days) as the planned delivery time and **RM00** as the product storage location.

External Procurement
1
RM00

In the *Repetitive Manufacturing for JIT Prod. Conf. section*, select **Profile Consider from Component Group Material**.

Consider Component
Group Material

Procurement

Procurement Type: External Procurement	Planning Calendar: 	Scheduling Float Profile: 001
Special Procurement Type: 	Planned Delivery Time: 1 DAY	Consignment Control:
Replenishment Lead Time: 5 DAY	Goods Receipt Processing Time: 0 DAY	
Default Storage Location for External Procurement: 	Product Storage Location: Raw Materials (RM00)	

Repetitive Manufacturing

Repetitive Manufacturing Enabled: ☐	Action Control:
Repetitive Manufacturing Profile: -	JIT Production Confirmation Profile: Consider from Component Group Material

Go to the *Storage Locations* section and change the entry in the *Storage Location* field from TRAD to **RM00** (Raw materials).

RM00

In the *Costing* area, enter the costing lot size **1 PC**.

1 PC

Storage Locations

Plant - Storage Locations (1) Standard* Search

Storage Location	Storage Bin	Marked for ...
☐ RM00		No

Costing

Costing Lot Size:
 1 EA

Click .

Back on the *Product* screen, navigate to the *Valuation Areas* area.

For valuation area **HD00**, change the valuation class to **3000 (Raw materials 1)**.

HD00
3000

Valuation Areas

Valuation Areas (1) Standard ▾

Search



Create

Valuation A...	Valuation Type	Price Control Determination	Valuation Category	Valuation Class
☐ HD00		Transaction-Based (2) ▾		3000 >

Click on the line of *valuation area* **HD00**.

HD00

Switch to the *Valuation* area and enter **EUR 40** as *the inventory price* and make sure that **Moving Average Price/Periodic Unit Price (V)** is selected for *Price Control*.

40
Moving
Average price/periodic
unit price (V)

Valuation
Current Period

Standard ▾



Currency Type...	Ledger	Currency	Inventory Price	Standard Price	Moving Average Price	Price Unit
10	Leading Ledger (0L)	EUR	40,00 EUR	64,00 EUR		1

Price Control: Moving average price/p... ▾

Click **Apply** and then click **Create**.

Click to return to the SAP Fiori launchpad.



Step 5: Create Sales Inquiry

Task Create a sales inquiry.

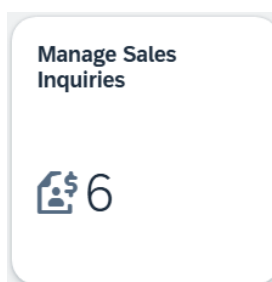
Time 10 min

Description Now you will create the request from your new customer (Elbe Cycle ####) in the system. An inquiry is a request from a customer for specific sales information or a non-binding quotation. An inquiry can relate to materials or services, conditions and, if necessary, delivery dates.

Name (Job) Matthias Dosch (Sales Person 2 US East)

To create an inquiry, use the *Manage Sales Inquiries* app in the Sales and Distribution area in the Sales Person role.

Initial Screen



Note This app is dynamic and displays a 6 in this case. This means that Global Bikes currently has 6 different customer inquiries. The number you see depends on the requests that you and the other participants created previously. You will also encounter this functionality with other apps.

If you want to display all existing sales inquiries, choose **Go**. A list of all requests is output. If, on the other hand, you want to create a new customer inquiry, click **Create Inquiry**.

Enter **AF** (Inquiry) as the RFQ type and **DS00** (North Germany) as the sales organization. In addition, add **WH** (wholesale) in the *Distribution Channel* field and **BI** (bicycles) as the *division*.

AF
DS00
WH
BI

Inquiry Type:

Organizational Data

Sales Organization:	DS00	Germany South
Distribution Channel:	WH	Wholesale
Division:	BI	
Sales Office:		
Sales Group:		

Compare your entries with the screenshot above. Then choose **Continue** at the bottom of the screen to be able to enter further data for the request. The following screen is now displayed.

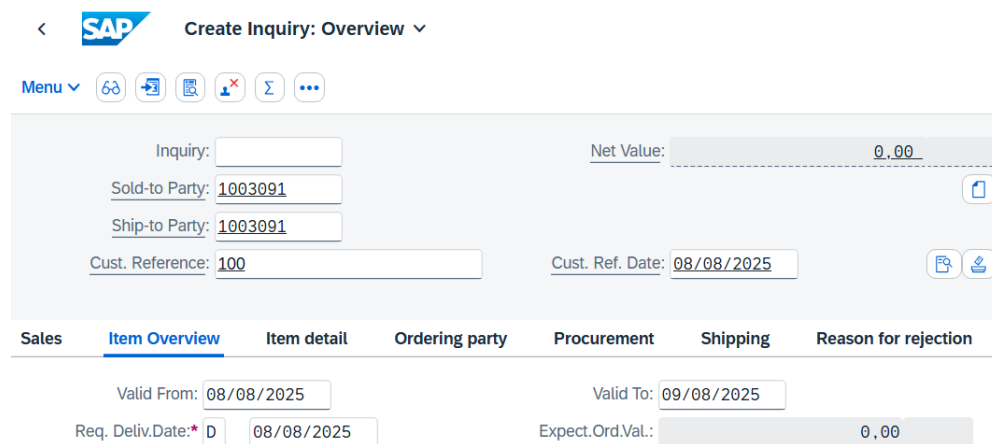
In the *Sold-to party* and *Ship-to party* field, enter the **business partner number** of your customer **Elbe Cycle ###**.

Business Partner
Number
Elbe Cycle ###

Note Alternatively, you can search for your BP number by selecting the value help icon  in the *Sold-To Party* field. Enter **###** as the search term and **Heidelberg** as the *city*. Confirm your entry with Enter to start the search. Double-click the row with Elbe Cycle to transfer the BP to the request.

Enter **###** as the *customer reference* and enter **today's** date in the *Cust. Ref. Date* and *Valid From* fields (F4, then Enter). For the *Valid To* and *Requested Delivery Date* fields, you specify **a month from today**.

Today's date
One month from today



SAP Create Inquiry: Overview

Menu      

Inquiry: Net Value:

Sold-to Party: 

Ship-to Party:

Cust. Reference: Cust. Ref. Date:  

Sales **Item Overview** Item detail Ordering party Procurement Shipping Reason for rejection

Valid From: Valid To:

Req. Deliv.Date: Expect.Ord.Val.:

Elbe Cycle ### wants an offer for three products: the **Global Basic Sport & Commute Bike**, the **Global Endurance Sport & Commute Bike** and the **Carbon Global Sport & Commute Bike**.

Global Basic
Sport & Commute Bike
Global Endurance Sport
& Commute Bike
Carbon Global Sport &
Commute Bike

To find these products, use the search function. Click in the *Material* field and then click the value help icon .

On the *Material for Description* tab page, enter ***Global*** as the *material short text* and ***###** as the material (for example, *003 if your number is 003).

Global

Then click **Starten** to start the search process. The system displays results whose material short text contains "Global" and whose material key ends with "###".

Double-click the **Global Basic Sport & Commute Bike** TO add it to the item list.

Global Basic Sport &
Commute Bike

On the following screen, enter an *order quantity* of **15**.

15

Repeat the process for the second and third items, first searching for the **Global Endurance Sport & Commute Bike** as the *material* and entering an *order quantity* of 5, then searching for the material **Carbon Global Sport & Commute Bike** and entering an *order quantity* of 10.

Global Endurance Sport
& Commute Bike
5
Carbon Global Sport &
Commute Bike
10

Choose Enter to determine the price for this request. Confirm the information that appears.

Note Note that if no net price or no price is displayed for this request, enter today's date in the *Pricing Date* field.

< **SAP** Create Inquiry: Overview ▾

Menu ▾

Inquiry: Net Value: EUR

Sold-to Party: Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany

Ship-to Party: Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany

Cust. Reference: Cust. Ref. Date:

Sales **Item Overview** Item detail Ordering party Procurement Shipping Reason for rejection

Valid From: Valid To:

Req. Deliv.Date: Expect.Ord.Val.: EUR

All Items

	Item	Material	Req. Segment	Order Quantity	SU	AltItm	Item Description
☐	10	GCBK1100			15	EA	Global Basic Sport & Commute Bike
☐	20	GCBK2100			5	EA	Global Endurance Sport & Commute Bike
☐	30	GCBK3100			10	EA	Carbon Global Sport & Commute Bike

The total price for the requested 30 bicycles is **EUR 80,000** (net value). The expected order value is a calculated value that multiplies the net value of the order quantity by the probability that an inquiry from this customer will result in an actual order. Select all items and click

EUR 80,000

Alle Positionen

	Pos	Material	Bedarfssegment	Auftragsmenge	ME	AltPos	Positionsbezeichnung
☒	10	GCBK1654			15	ST	0 Global Basic Sport & Commute Bike
☒	20	GCBK2654			5	ST	0 Global Endurance Sport & Commute Bike
☒	30	GCBK3654			10	ST	0 E-Global Endurance Sport & Commute Bike

In the lower area of the *General Sales Data*, you will find the *Order Probability field*. This expresses the percentage probability that an inquiry or quotation item will flow into a sales order. If this order probability were 40%, the expected order value would be $0.40 \times 80,000.00 \text{ EUR} = 32,000.00 \text{ EUR}$.

Changing the order probability might make sense because different requests from customers have different probabilities. Change the *order probability* for material **GCBK1###** to **80 (%)**.

GCBK1###
80 (%)

Sales Document Item: 10 Item Category: AFN Inquiry Item
 Material: GCBK1100 Global Basic Sport & Commute Bike

Sales A Sales B Shipping Billing Document Conditions Account Assignment Schedule lines

Order Quantity and Delivery Date

Order Quantity: 15 EA 1 EA <-> 1 EA
 First Delivery Date: D 08/08/2025 Requirement Segment

General Sales Data

Net Value: 22.500,00 EUR Exch. Rate: 1,00000
 Pricing Date: 08/08/2025
 Material Entered: GCBK1100
 EAN/UPC: Preference: ☐
 Engineering Change: BOM explosion number:
 Usage:
 Reason for Rejection:
 Order Probability: 80 Alternative to Item:

Then click on  (Next Item) in the upper area to go to the material **GCBK2###**. Enter an *order probability* of **80 (%)**.

GCBK2###

80 (%)

Repeat this step for bike **GCBK3###**.

GCBK3###.

Confirm your change by choosing Enter. Click  (Back) to update the request and note the new expected order value of **64,000.00 EUR**.

64,000.00 EUR

<  Create Inquiry: Overview ▾

Menu ▾ 

Inquiry: Net Value: 80.000,00 EUR
 Sold-to Party: 1003091 Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany
 Ship-to Party: 1003091 Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany
 Cust. Reference: 100 Cust. Ref. Date: 08/08/2025

Sales **Item Overview** Item detail Ordering party Procurement Shipping Reason for rejection

Valid From: 08/08/2025 Valid To: 09/08/2025
 Req. Deliv.Date: D 08/08/2025 Expect.Ord.Val.: 64.000,00 EUR

All Items

	Item	Material	Req. Segment	Order Quantity	SU	Altitm	Item Description
☐	10	GCBK1100		15 EA			Global Basic Sport & Commute Bike
☐	20	GCBK2100		5 EA			Global Endurance Sport & Commute Bike
☐	30	GCBK3100		10 EA			Carbon Global Sport & Commute Bike

Click  to save the request. The SAP system will assign a unique number to the request. Make a note of them.

 Inquiry 10000006 has been saved.

Click  to return to the SAP Fiori launchpad.



Step 6: Create Quotation

Task Create a sales quotation.

Time 10 min

Description Elbe Cycle ### wants a quotation for the articles created earlier in the RFQ. Using the Create with Reference function, you can simply transfer the data from the RFQ to the quotation and send it to Elbe Cycle ###.

Name (Job) David Lopez (Sales Representative US East)

To create a sales quotation, use the search bar  to find and execute the app *Manage Sales Quotations - Version 1*.

Initial Screen

Manage Sales Quotations

Note In an inquiry, a customer wants to know the conditions (price, scheduling agreement) for a specific product or service. The only difference to an offer is that it is a legally binding offer for the delivery of the desired goods.

If you want to display all existing quotations, press **Start**. A list of all quotations is output. However, if you want to respond to the request you just entered, click **Create Quotation**.

In the *Offer Type* field, enter the abbreviation **QT** (Quotation) and click **Create with Reference** in the lower part of the screen. In the following dialog box, you can search for your inquiry and thus copy the data to the quotation. To do so, make sure that the *Request* tab is selected. In the *Inquiry* field, enter your **inquiry number**.

SP

Note If you have forgotten your inquiry number, alternatively click in the *Inquiry* field and then click the value help icon . On the *Sales document according to customer PO number* tab page, enter your number (###) as the *customer reference*.

Inquiry Number

Sales Document (1)

[Search and Select](#)

A: Sales document according to customer PO number ▾ Go Hide Filters 

Customer Reference: 100	Sales Organization: 	Sold-to Party: 	Distribution Channel:
Division: 	Sales Office: 	Sales Group: 	Created By:
Sales Document Type: 	Customer Ref. Date: 	Transaction Group: 1	SD Document:

Item (SD):

Items (0)

Then click **Go** and double-click your purchase order. Your inquiry number is added accordingly.

Create with Reference

Inquiry Quotation Order Contract SchedAgree BillDoc

Inquiry: 10000006

Requested Deliv.Date:

Click  to copy the information from the Inquiry to the Quotation.

<  **Create Quotation: Overview** ▾

Menu ▾ 

Quotation: Net Value: 80.000,00 EUR

Sold-to Party: 1003091 Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany

Ship-to Party: 1003091 Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany

Cust. Reference: Cust. Ref. Date:

Sales Item Overview Item detail Ordering party Procurement Shipping Reason for rejection

Valid From: 08/08/2025 Valid To:

Req. Deliv.Date: D 08/08/2025 Expect.Ord.Val.: 0,00 EUR

All Items

	Item	Material	Req. Segment	Order Quantity	SU	Altitm	Item Description
☐	10	GCBK1100		15	EA		Global Basic Sport & Commute Bike
☐	20	GCBK2100		5	EA		Global Endurance Sport & Commute Bike
☐	30	GCBK3100		10	EA		Carbon Global Sport & Commute Bike

Enter the *customer reference* ### and the **current date** as the *customer reference date*. In addition, in the *Valid To* field, add the date from **today in one month**. The *requested delivery date* has already been copied from the RFQ.

To ensure that Elbe Cycle ### becomes a loyal customer, you are entitled to give a discount of **EUR 50.00** on each **Global Basic Sport & Commute Bike** as well as a discount of **5%** on the entire order.

To give the 50.00 EUR discount, select the line with the Global Basic Sport & Commute Bike and then click  (Conditions). You get a screen showing the conditions of the Basic Mountain Bikes.

All Items

	Item	Material	Req. Segment	Order Quantity	SU	Altitm	Item Description
☒	10	GCBK1100		15	EA		Global Basic Sport & Commute Bike
☐	20	GCBK2100		5	EA		Global Endurance Sport & Commute Bike
☐	30	GCBK3100		10	EA		Carbon Global Sport & Commute Bike

Note The condition master data includes prices, surcharges and discounts, as well as freight costs and taxes. You can define condition records so that they depend on different data. For example, you can specify a customer-specific material price. In the SAP system, pricing is carried out using conditions. A so-called pricing procedure determines which condition types are used to

Today's
Current Date

One month from today

50.00
Global Basic Sport &
Commute Bike
5%

calculate the final price. Condition type PR00 determines, for example, the gross price.

To add a discount, enter *condition type* **K004** (Material Discount) with an *amount* of **50** in the pricing procedure.

K004

50

Pricing Elements

	I...	CnTy	Description	Amount	Crcy	per	UoM	Condition Value	Crcy	Status	NumC...
☐		PR00	Price	1.500,00	EUR		1 EA	22.500,00	EUR		1
☐			Gross Value	1.500,00	EUR		1 EA	22.500,00	EUR		1
☐			Discount Amount	0,00	EUR		1 EA	0,00	EUR		1
☐			Rebate Basis	1.500,00	EUR		1 EA	22.500,00	EUR		1
☐			Net Value for Item	1.500,00	EUR		1 EA	22.500,00	EUR		1
☐			Net Value 2	1.500,00	EUR		1 EA	22.500,00	EUR		1
☐			Net Value 3	1.500,00	EUR		1 EA	22.500,00	EUR		1
☐		MWST	Output Tax	19,000	%			4.275,00	EUR		0
☐			Total	1.785,00	EUR		1 EA	26.775,00	EUR		1
☐		SKTO	Cash Discount	0,000	%			0,00	EUR		0
☐		VPRS	Internal price	1.058,00	EUR		1 EA	15.870,00	EUR		1
☐			Profit Margin	442,00	EUR		1 EA	6.630,00	EUR		1
☐		K004		50							

After clicking Enter, a new price will be calculated for the 10 Global Basic Sport & Commute Bikes.

Quantity: 15 EA

Net: 21.750,00 EUR

Tax: 4.132,50

Pricing Elements

	I...	CnTy	Description	Amount	Crcy	per	UoM	Condition Value	Crcy	Status	NumC...
☐		PR00	Price	1.500,00	EUR		1 EA	22.500,00	EUR		1
☐			Gross Value	1.500,00	EUR		1 EA	22.500,00	EUR		1
☐		K004	Material	50,00-	EUR		1 EA	750,00-	EUR		1
☐			Discount Amount	50,00-	EUR		1 EA	750,00-	EUR		1
☐			Rebate Basis	1.450,00	EUR		1 EA	21.750,00	EUR		1
☐			Net Value for Item	1.450,00	EUR		1 EA	21.750,00	EUR		1
☐			Net Value 2	1.450,00	EUR		1 EA	21.750,00	EUR		1
☐			Net Value 3	1.450,00	EUR		1 EA	21.750,00	EUR		1
☐		MWST	Output Tax	19,000	%			4.132,50	EUR		0
☐			Total	1.725,50	EUR		1 EA	25.882,50	EUR		1
☐		SKTO	Cash Discount	0,000	%			0,00	EUR		0
☐		VPRS	Internal price	1.058,00	EUR		1 EA	15.870,00	EUR		1
☐			Profit Margin	392,00	EUR		1 EA	5.880,00	EUR		1

Note that the discount has now been included in the total order. Choose to return to the quotation screen. To apply the 5% discount to the complete order, follow the pull-down menu path:

Menu ► Goto ► Header ► Conditions

To apply the discount of 5%, in the *CTyp* (Condition Type) field, enter **RA00** (Perc. Avail.) and an *amount* of **5**, and choose Enter. Note that the discount is not yet included in the price.

RA00
5

Sales Shipping Billing Document Accounting **Conditions** Account Assignment Partner Te

Net: 79.250,00 EUR

Tax: 15.057,50

Condition Record

Activate Update

Pricing Elements

I...	CnTy	Description	Amount	Crcy	per	UoM	Condition Value	Crcy
☐	PR00	Price					80.000,00	EUR
☐		Gross Value					80.000,00	EUR
☐	K004	Material					750,00-	EUR
☐	RA00	% Discount from Net	5,000-	%			0,00	EUR
☐		Discount Amount					750,00-	EUR
☐		Rebate Basis					79.250,00	EUR
☐		Net Value for Item					79.250,00	EUR
☐		Net Value 2					79.250,00	EUR
☐		Net Value 3					79.250,00	EUR
☐	MWST	Output Tax	19,000	%			15.057,50	EUR
☐		Total					94.307,50	EUR
☐	SKTO	Cash Discount					0,00	EUR
☐	VPRS	Internal price					52.865,00	EUR
☐		Profit Margin					26.385,00	EUR

To activate the 5% discount, click [Activate](#). The 5% discount is now applied. Note that the 5% discount is calculated **after** the 50 EUR discount per Global Basic Sport & Commute Bike.

Pricing Elements

I...	CnTy	Description	Amount	Crcy	per	UoM	Condition Value	Crcy
☐	PR00	Price					80.000,00	EUR
☐		Gross Value					80.000,00	EUR
☐	K004	Material					750,00-	EUR
☐	RA00	% Discount from Net	5,000-	%			3.962,50-	EUR
☐		Discount Amount					4.712,50-	EUR
☐		Rebate Basis					75.287,50	EUR
☐		Net Value for Item					75.287,50	EUR
☐		Net Value 2					75.287,50	EUR
☐		Net Value 3					75.287,50	EUR
☐	MWST	Output Tax	19,000	%			14.304,63	EUR
☐		Total					89.592,13	EUR
☐	SKTO	Cash Discount					0,00	EUR
☐	VPRS	Internal price					52.865,00	EUR
☐		Profit Margin					22.422,50	EUR

Click [Save](#) to save the new quote. The following success message appears. Make a note of the quotation number.

✔ Quotation 20000006 has been saved.

Click [SAP](#) to return to the SAP Fiori launchpad.



Step 7: Create sales order with reference to quotation

Task Create a sales order with reference to a quotation.

Time 10 min

Description Elbe Cycle ### has agreed to the terms and conditions of the offer and now wants to order the bikes. Since you have already maintained the quotation in the system as an example, you can create the order with reference to the quotation and save time again by transferring the data.

Name (Job) David Lopez (Sales Representative US East)

To create a sales order, use the search bar  to find and execute the app *Manage Sales Orders - Version 1*.

Initial Screen

Manage Sales Orders

If you want to display all existing sales orders, choose **Start**. A list of all sales orders is output. If, on the other hand, you want to create a sales order for the accepted quotation, click **Create** and then **Create Sales Order - VA01**.

In the *Create Sales Documents* view, in the *Order Type* field, enter **OR** (Standard Order). Click **Create with Reference** to find your quote from the previous step. Therefore, in the following dialog box, make sure that the "Offer" tab page is selected. Enter your **quotation number** in the Quotation field.

OR1

Quotation Number

Note If you have forgotten your quotation number, alternatively click in the Quotation field and then click the value help icon . On the *Sales Document by Customer PO Number* tab, enter your number (###) for *Customer Reference*.

###

Sales Document (1)

Search and Select

A: Sales document according to customer PO number   

Customer Reference: 100	Sales Organization: 	Sold-to Party: 	Distribution Channel: 
Division: 	Sales Office: 	Sales Group: 	Created By: 
Sales Document Type: 	Customer Ref. Date: 	Transaction Group: 2 	SD Document: 
Item (SD): 			

Items (0)

Then click **Go** and double-click your purchase order. Your quotation number is supplemented accordingly.

The system displays a list with the inquiry created previously and the quotation.

Items (1)											
Customer Referen...	S...	Sold-to	D...	S...	S...	Create...	S...	CustR...	T.	Docum...	Item
100	DS00	1003091	WH	BI		LEARN-501	QT	08/08/2025	2	20000006	000000

Double-click the document with the sales document type QT (quotation).

Create with Reference

Inquiry **Quotation** **Order** **Contract** **SchedAgree** **BillDoc**

Quot.: 20000006

Requested Deliv.Date:

Click  to copy the information from the quotation to the standard order.

Note If the System shows up the Availability Screen, press three times **Complete dlv.**

Note that the net value has decreased due to the discounts granted in the quotation.

<  **Create Standard Order: Overview** ▾

Menu ▾ 

Standard Order: Net Value: 75.287,50 EUR

Sold-to Party: 1003091 Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany

Ship-to Party: 1003091 Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany

Cust. Reference: Cust. Ref. Date:

Sales **Item Overview** **Item detail** **Ordering party** **Procurement** **Shipping** **Reason for rejection**

Req. Deliv.Date: *D 08/08/2025 Deliver.Plant:

Complete Dlv.: ☐ Total Weight: 255.300 G

Delivery Block: Volume: 0,000

Billing Block: Pricing Date: 08/08/2025

Pyt Terms: 0001 Pay immediately w/o deduction

Inco. Version:

Incoterms: FOB

Inco. Location1: Magdeburg

 **Group** 

All Items

	Item	Material	Req. Segment	Order Quantity	Un	S	Item Description	C
☐	10	GCBK1100		15	EA	☒	Global Basic Sport & Commute Bike	
☐	20	GCBK2100		5	EA	☒	Global Endurance Sport & Commu...	
☐	30	GCBK3100		10	EA	☒	Carbon Global Sport & Commute ...	

Enter the *Customer Reference* ### and the *Customer Reference Date* as **today's date**. Enter **HD00** as the delivering plant, a corresponding warning can be confirmed.

Today's date
HD00

Note that the requested delivery date has been copied from the quotation.

GCBK1###

Also select material **GCBK1###** and then click  (Display Availability). Confirm any warnings with *Enter*.

All Items							
	Item	Material	Req. Segment	Order Quantity	Un	S	Item Description
☒	10	GCBK1100		15	EA	☒	Global Basic Sport & Commute Bike
☐	20	GCBK2100		5	EA	☒	Global Endurance Sport & Commu...
☐	30	GCBK3100		10	EA	☒	Carbon Global Sport & Commute ...

The availability overview opens.

<  Availability Overview ▾

Menu ▾    Stock Overview  Stock in Detail  Totals Overview  Totals in Detail  Scope of check

Material: GCBK1100

Description: Global Basic Sport & Commute Bike

Plant: HD00 Avail. check: 02 Check.rule: A

MRP Area: HD00 With reqmts qtys: ☒ End lead time: 08/13/2025

Base Unit: EA

Totals display

Receipts: 0

Issues: 0 Confirmed issues: 0

ATP situation

	Date	MRP e...	Stock Segment	MRP element data	Rec./reqd qty	Confirmed	Cum. ATP qty
☐	08/08/2025	Stock			0		0
☐	08/08/2025	SimReq		Simulated requirements	15-	0	0

The first line shows you the current plant stock of your material (0) and the second line shows you the simulated requirement of the material to fulfill the sales order.

Click .

Now display the availability check for your material GCBK3###.

GCBK3###

Material: GCBK3100
 Description: Carbon Global Sport & Commute Bike
 Plant: HD00 Avail. check: 02 Check.rule: AE
 MRP Area: HD00 With reqmts qtys: ☒
 End lead time: 08/13/2025
 Base Unit: EA
 Sales Order: 10000006 30

Totals display

Receipts: 0
 Issues: 0 Confirmed issues: 0

ATP situation

	Date	MRP e...	Stock Segment	MRP element data	Rec./reqd qty	Confirmed	Cum. ATP ...
☐	08/08/2025	CustSt		0010000006/000030	0		0
☐	08/08/2025	SimReq		Simulated requirements	10-	0	0

You will notice that this time you see the sales order stock (0) (quantity of a material that is in stock to execute a sales order) and in the second line you can see the simulated requirement of the material to fulfill the sales order.

Note In SAP, the MRP strategy is reflected in Supply and Demand Management. Strategy group 40 is set for GCBK1### and GCBK2###, which means plan-based production for warehouse stocks; these articles are therefore produced on stock and served from this (stock level). GCBK3### follows strategy group 20 for make-to-order production; plant stocks are reserved exclusively for a sales order. The "sales order stock" shows the reserved quantity, while the "simulated requirement" reflects the material requirement required to fulfill the order.

Click . Click on  and note your order number.

Order Number

 Standard Order 37 has been saved.

Note After the availability check, you can see that there is no warehouse stock of our new materials. You have the option of either procuring these materials externally or producing them separately. Global Bikes has opted for in-house production to offer a new product line. In the next step of the case study, we therefore focus on the transition to the production phase.

Click  to return to the SAP Fiori launchpad.



Process Progress

Since the materials ordered by customer Elbe Cycle ### are new products, they must first be produced. At this point, the sales process therefore pauses and the production of the new materials is initiated.

Process Progress

To fulfill the requirement of the sales order, the new materials must first be produced. This is where the production planning and production process starts.

Step 8: Create Routing (from Template)

Task Use the SAP Fiori launchpad to create a routing (from a template).

Time 15 min

Description After the planning parameters and data have been maintained, the components of the bicycles must now be assigned to the individual work steps. This is usually a dependent process in which each operation is based on the results (products) of the preceding transaction.

Since the bicycles of the new "Sport & Commute" series are derived from the Deluxe Touring Bike series, these are similar. Therefore, please use the routing of the Deluxe Touring Bike series as a template and adjust it accordingly.

Name (Job) Jun Lee (Production Manager)

To create a Routing, click the *Create Routing* app in the *Production Planning and Execution* area in the *Production Manager* role.

Initial Screen

Create Routing

On the *Create Routing: Initial* Screen, enter material **GCBK1###** and plant **HD00**.

GCBK1###
HD00

Choose  [Copy from](#).

In the dialog box that appears, select **Routing** and choose .

Routing

In the *Template Selection* dialog box, enter **DXTR1###** as the *material* and enter **HD00** as the *plant*.

DXTR1###
HD00

Create Using Copy Function: Select Object to be Copied

Material: DXTR1100

Plant: HD00

Sales Document: Item:

WBS Element:

Group:

Key Date: 08/11/2025

Click .

On the *Create Routing: Header Data Check* screen, use the F4 help for the *Overall Status* field and select **4 (Released (General))**.

4 (Released (general))

SAP Create Routing: Header Data Check

Menu

Group: Group Counter: 1

Material: GCBK1100 Global Basic Sport & Commute Bike

Task List

Group: Group Counter: 1 Plant: HD00 Long Text Exists: ☐

Production line

Line Hierarchy

General Data

Deletion Flag: ☐

Usage: 1 Production

Overall Status: 4

Planner Group:

Press *Enter*.

SAP Create Routing: Operation Overview

Menu

Group: Group Counter: 1

Material: GCBK1100 Global Basic Sport & Commute Bike

Sequence: 0 Sequence Desc.:

Operation Overview

Ope...	Sop	Work Ce...	Plant	* C...	Standard...	Description	Lo...	PRT	CL...	O...	Pe...	Cu...	Su...	Base Quantity
☐	0010	ASSY1000	HD00	ASSY		Material staging	☐	☐	☐	☐	☐			15
☐	0020	ASSY1000	HD00	ASSY		Attach seat to frame	☐	☐	☐	☐	☐			1
☐	0030	ASSY1000	HD00	ASSY		Attach handle bar assembly	☐	☐	☐	☐	☐			1
☐	0040	ASSY1000	HD00	ASSY		Attach derailleur gear asm. to wheel	☐	☐	☐	☐	☐			1
☐	0050	ASSY1000	HD00	ASSY		Attach front and rear wheels to chain	☐	☐	☐	☐	☐			1
☐	0060	ASSY1000	HD00	ASSY		Attach brakes	☐	☐	☐	☐	☐			1
☐	0070	ASSY1000	HD00	ASSY		Attach peddles	☐	☐	☐	☐	☐			1
☐	0080	INSP1000	HD00	ASSY		Test bike	☐	☐	☐	☐	☐			1
☐	0090	PACK1000	HD00	ASSY		Disassemble	☐	☐	☐	☐	☐			1
☐	0100	PACK1000	HD00	ASSY		Pack bike	☐	☐	☐	☐	☐			1
☐	0110	PACK1000	HD00	ASSY		Move to storage	☐	☐	☐	☐	☐			15

Note A routing is defined using the task list group and the group counter. The routing also contains references to the material whose production is described by the task list.

In addition to the standard sequence, it can also have parallel or alternative sequences. In addition to the standard values, the routing also contains the time elements that are relevant for scheduling the operations. The operations in the routing can each contain their own base quantity to which the time elements refer.

Choose **Allocation** to display a list of all components. If the button is not displayed directly in the top bar, you can find the entry in the pull-down menu under *More* → *Allocation*.

Since no BOM exists for your material, the system now asks you whether you want to create it. Confirm the message *Material component assignment* with **Yes**.

Yes

In the *Usage* field, enter **1 (Production)**.

1 (Production)

Again, use the BOM of material DXTR1### as a template. Click (Copy From).

In the *Copy from* dialog box, enter material **DXTR1###**. And click .

DXTR1###

Select all BOM items using the button and then choose (Copy).

Menü Unterpos. Gültigkeit

Material: DXTR1654		 Deluxe Touring Bike (schwarz)											
Werk: HD00 Plant Heidelberg													
Alternative: 1													
Stücklistenpositionen													
	Pos.	PTp	O.	Komponente	Komponentenbezei...	Menge	ME		BGr	UPs	Gültig ab	Gültig bis	PosID
☒	0010	L	M	TRWA1654	Touring Bike Alumin...	2	EA		☒	☐	01/01/2010	12/31/9999	A0000001
☒	0020	L	M	TRFR1654	Touring Bike Rahme...	1	EA		☐	☐	01/01/2010	12/31/9999	A0000002
☒	0030	L	M	DGAM1654	Kettenschaltung Ba...	1	EA		☐	☐	01/01/2010	12/31/9999	A0000003
☒	0040	L	M	TRSK1654	Touring Bike Sitz - B...	1	EA		☐	☐	01/01/2010	12/31/9999	A0000004
☒	0050	L	M	TRHB1654	Touring Bike Lenker	1	EA		☐	☐	01/01/2010	12/31/9999	A0000005
☒	0060	L	M	PEDL1654	Pedal Bauteile	1	EA		☐	☐	01/01/2010	12/31/9999	A0000006
☒	0070	L	M	CHAN1654	Kette	1	EA		☐	☐	01/01/2010	12/31/9999	A0000007
☒	0080	L	M	BRKT1654	Bremsanlage	1	EA		☐	☐	01/01/2010	12/31/9999	A0000008
☒	0090	L	M	WDOC1654	Garantiedokument	1	EA		☐	☐	01/01/2010	12/31/9999	A0000009
☒	0100	L	M	PCKG1654	Verpackung	1	EA		☐	☐	01/01/2010	12/31/9999	A0000010

The components of DXTR1### have now been added to the BOM of GCBK1###. Now add the Repair Kit, Air Pump and Integrated GPS Bike Computer according to the requirements of customer Elbe Cycle ###.

Make the following enhancements in the table:

Item	ICt	Component	Quantity
00110	L	PUMP1###	1
00120	L	RKIT1###	1
00130	L	IDGC1###	1

Choose *Enter* to confirm your entries.

Material: GCBK1100

Global Basic Sport & Commute Bike

Plant: HD00 Plant Heidelberg

Alternative BOM: 1

Position

Effectivity Initial Screen

Material

Document

General

	Item	ICt	Component	Component description	Quantity	UoM
☐	0010	L	TRWA1100	Touring Aluminum Wheel Assembly	2	EA
☐	0020	L	TRFR1100	Touring Frame-Black	1	EA
☐	0030	L	DGAM1100	Derailleur Gear Assembly	1	EA
☐	0040	L	TRSK1100	Touring Seat Kit	1	EA
☐	0050	L	TRHB1100	Touring Handle Bar	1	EA
☐	0060	L	PEDL1100	Pedal Assembly	1	EA
☐	0070	L	CHAN1100	Chain	1	EA
☐	0080	L	BRKT1100	Brake Kit	1	EA
☐	0090	L	WDOC1100	Warranty Document	1	EA
☐	0100	L	PCKG1100	Packaging	1	EA
☐	0110	L	PUMP1100	Air Pump	1	EA
☐	0120	L	RKIT1100	Repair Kit	1	EA
☐	0130	L	IDGC1100	Integrated GPS Bike Computer 100	1	EA

Click .

You get an overview of all used components, but they are not currently assigned to a specific activity.

< **SAP** Material Component Overview ▾

Menu ▾                                          

Choose Operation

Seq.	Act.	Work Ctr	Operation Short Text
☒ 0	0010	ASSY1000	Material staging
☐ 0	0020	ASSY1000	Attach seat to frame
☐ 0	0030	ASSY1000	Attach handle bar assembly
☐ 0	0040	ASSY1000	Attach derailleur gear asm. to wheel
☐ 0	0050	ASSY1000	Attach front and rear wheels to chain
☐ 0	0060	ASSY1000	Attach brakes

✓

✗

You can now see that the component has been assigned to operation 0010.

Material: GCBK1100

Global Basic Sport & Commute Bike

Plant: HD00

Group:

Sequence: 0

BOM: 00038020

Alt. BOM: 1

Item Overview

	Ph...	Le...	Path	It...	Component	Quantity	Sor...	Un...	It...	Ba...	Activity	Seq.	C..	Material Description
☐	☐	0	0	0010	TRWA1100	2		EA	L	☐	0010	0		Touring Aluminum Wheel Assembly
☐	☐	0	0	0020	TRFR1100	1		EA	L					Touring Frame-Black

Repeat this process for all other components and assign them to the activities specified below.

Here, the affected components can also be selected together and assigned to an activity together.

Activity	Component
0010	TRWA1###
0020	TRFR1###
0040	DGAM1###
0020	TRSK1###
0030	TRHB1###
0070	PEDL1###
0050	CHAN1###
0060	BRKT1###
0100	WDOC1###
0100	PCKG1###
0100	RKIT1###

0100	PUMP1###
0030	IDGC1###

Finally, each component is assigned to an activity.

Now set the checkmark for a backflush for all components.

Material: GCBK1100

Plant: HD00

Group:

BOM: 00038020

Sequence: 0

Alt. BOM: 1

Global Basic Sport & Commute Bike

Item Overview

	Ph...	Le...	Path	Ite...	Component	Quantity	Sor...	Un...	It...	Backflushing	Activity	Seq.	C..	Material Description
☐	☐	0	0	0010	TRWA1100	2		EA	L	☒	0010	0		Touring Aluminum Wheel Assembly
☐	☐	0	0	0020	TRFR1100	1		EA	L	☒	0020	0		Touring Frame-Black
☐	☐	0	0	0030	DGAM1100	1		EA	L	☒	0040	0		Derailleur Gear Assembly
☐	☐	0	0	0040	TRSK1100	1		EA	L	☒	0020	0		Touring Seat Kit
☐	☐	0	0	0050	TRHB1100	1		EA	L	☒	0030	0		Touring Handle Bar
☐	☐	0	0	0060	PEDL1100	1		EA	L	☒	0070	0		Pedal Assembly
☐	☐	0	0	0070	CHAN1100	1		EA	L	☒	0050	0		Chain
☐	☐	0	0	0080	BRKT1100	1		EA	L	☒	0060	0		Brake Kit
☐	☐	0	0	0090	WDOC1100	1		EA	L	☒	0100	0		Warranty Document
☐	☐	0	0	0100	PCKG1100	1		EA	L	☒	0100	0		Packaging
☐	☐	0	0	0110	PUMP1100	1		EA	L	☒	0100	0		Air Pump
☐	☐	0	0	0120	RKIT1100	1		EA	L	☒	0100	0		Repair Kit
☐	☐	0	0	0130	IDGC1100	1		EA	L	☒	0030	0		Integrated GPS Bike Computer 100

Note Backflushing in the routing enables the automatic posting of material consumption directly after completion of a work step (activity), which leads to accurate warehouse inventory management.

Without backflushing, a production order would also have to post and update material consumption and warehouse stocks manually, which is error-prone and time-consuming.

Use  **Operation** or  → **operation** to navigate back to the operation overview.

Note Since their new bike series “Sport & Commute” has more components than the original Deluxe Touring Bike series, this is also more elaborate to assemble. Therefore, increase the personnel time for the assembly of the individual parts (additional Air Pump, additional Integrated GPS Bike Computer and Repair Kit) to 8 minutes per bike.

In your operation overview, scroll to the right until you see the Labor Time column. From operation 0030, increase the labor time from 2 to 5 minutes and also from operation 0100 the labor time from 5 to 10 minutes.

Material: GCBK1100										Global Basic Sport & Commute Bike					
Sequence: 0				Sequence Desc.:											
Operation Overview															
	Ope...	SOp	Cu...	Su...	Base Q...	Un...	Setup	Unit	Activit...	Machine	Unit	Activit...	Labor	Unit	Activit...
☐	0010			☐	15	EA		MIN	LABOR		MIN		10	MIN	LABOR
☐	0020			☐	1	EA		MIN	LABOR		MIN		1	MIN	LABOR
☐	0030			☐	1	EA		MIN	LABOR		MIN		5	MIN	LABOR
☐	0040			☐	1	EA		MIN	LABOR		MIN		2	MIN	LABOR
☐	0050			☐	1	EA		MIN	LABOR		MIN		5	MIN	LABOR
☐	0060			☐	1	EA		MIN	LABOR		MIN		2	MIN	LABOR
☐	0070			☐	1	EA		MIN	LABOR		MIN		2	MIN	LABOR
☐	0080			☐	1	EA	2	MIN	LABOR		MIN		5	MIN	LABOR
☐	0090			☐	1	EA		MIN	LABOR		MIN		5	MIN	LABOR
☐	0100			☐	1	EA		MIN	LABOR		MIN		10	MIN	LABOR
☐	0110			☐	15	EA		MIN	LABOR		MIN		5	MIN	LABOR

Apply your changes with . The system displays a message that the routing has been saved.

 Routing was saved with group 50000007 and material GCBK1100.

Repeat this procedure for material **GCBK2###**. Use material GCBK1### as a template for both the routing and the BOM.

Repeat GCBK2###

However, the addition of the components as well as the assignment of the components to the respective operations and the setting of the backflush remain unchanged. Similarly, the increase in labor time for operation 0030 and 0100 should be the same as for GCBK1###.

Note To facilitate and accelerate the process of the case study, we deliberately do not develop a routing and a BOM for the model GCBK3### at this point (this will be done later). This approach simplifies the production process for this particular bike because during a later material requirements planning (MRP) run, only the immediate requirements – that is, the planned independent requirements – are taken into account, whereas possible derived requirements (dependent requirements) that would normally result from the BOM are not included in planning.

Click  to return to the SAP Fiori launchpad.



Step 9: Create Product Group

Task Create a product group.

Time 5 min

Description The creation of product groups is used to structure the product portfolio and supports later material requirements planning (MRP) through aggregated planning and forecasting.

Group the two bicycles GCBK1### and GCBK2### into one product group.

Name (Job) Jun Lee (Production Manager)

To create a product group, click the *Display Product Group* app in the *Production Planning and Execution* area in the *Production Manager* role.

Initial Screen



On the Display Product Group: Initial Screen, choose **Menu → Product Groups → Create**

On the *Create Product Group: Initial Screen*, enter **PG-GC###** as the *product group* and **Product Group Sport & Commute ###** as the *description* directly below. Enter **HD00** as the *plant* and **EA** as the *base unit of measure*.

PG-GC###
Product group Sport &
Commute ###
HD00
EA

Make sure that **materials** are selected for *members*.

Materials

Product group: PG-GC100

Product Group Sport & Commute 100

Plant: HD00

Base Unit: EA

Members

☒ Materials

☐ Product groups

Press *Enter*.

In the *Create Product Group: Maintain Members (Materials)* view, enter your material numbers **GCBK1###** and **GCBK2###** as *membership numbers* with plant **HD00**.

In the *Share (%)* column, you can define shares for the two different bicycles for your product group. Propose a share of **75%** for bike **GCBK1###** and a share of **25%** for **GCBK2###**. Then press *Enter*. Confirm any upcoming messages.

Note Each material has a proportion factor that represents the percentage share of the associated product group. The sum of the proportional factors on a planning level is usually 100.

Product group: PG-GC100

Product Group Sport & Commute 100

Plant: HD00 : Plant Heidelberg

Base Unit: EA

Member number	Plnt	Unit conv.	Aggr.fact.	Proportion	UoM	V	M	Fx	Short Text
GCBK1100	HD00	1	1	75	EA			☐	Global Basic Sport & Commute Bike
GCBK2100	HD00	1	1	25	EA			☐	Global Endurance Sport & Commute Bike

Click .



Product group created

Click  to return to the SAP Fiori launchpad.

GCBK1###
GCBK2###
HD00

75%
25%

Step 10: Create Planned Independent Requirements

Task Create a planned independent requirement for your product group.

Time 15 min

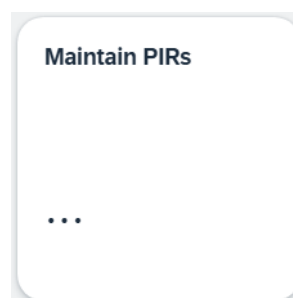
Description Create a 3-month planned independent requirement for your PG-GC### Bike product group.

Name (Job) Jun Lee (Production Manager)

A **planned independent requirement** is a planned requirement note for a material that has not yet been covered by sales orders. It is used in planning as the basis for requirements planning and consists of a planned quantity at a certain point in time or distributed over several periods.

In the *area of Production Planning and Execution*, in the role *Production Manager*, use the *Maintain PIRs* app.

Initial Screen



When you first open the app, you receive a welcome message informing you that you should select an area of responsibility. If you confirm this with **OK**, another *My Area of Responsibility* app appears.

< **SAP** My Area of Responsibility ▾

Standard * ▾

Search AOR Status: Plant: MRP Controller:

Plant / MRP Controller Combinations (5,001) Assign Unassign

☐	Plant	Plant Name	MRP Contr...	MRP Controller Name	AOR Status
☐	DL00	Plant Dallas	000	DL MRP Control 000	☒
☐	DL00	Plant Dallas	001	DL MRP Control 001	☒
☐	DL00	Plant Dallas	002	DL MRP Control 002	☒
☐	DL00	Plant Dallas	003	DL MRP Control 003	☒
☐	DL00	Plant Dallas	004	DL MRP Control 004	☒
☐	DL00	Plant Dallas	005	DL MRP Control 005	☒

No plant is currently assigned to you. Select the plant in *Heidelberg* by entering **HD00** as the *plant* and your three-digit number **###** as the *MRP controller* and clicking **Go**.

HD00
###

Then set the status to **green**.

Green

< My Area of Responsibility ▾

Standard* ▾

Search AOR Status: Plant: MRP Controller:

Plant / MRP Controller Combinations (1) Assign Unassign

☐	Plant	Plant Name	MRP Contr...	MRP Controller Name	AOR Status
☐	HD00	Plant Heidelberg	000	HD MRP Control 000	

The values are saved automatically here. Go to the SAP Fiori launchpad and open the *Maintain PIRs* app again.

In the search, enter both **GCBK1###** and **GCBK2###** as the *material* and **HD00** as the *plant*. Make sure that *Version Active* is **N/A**. Click .

GCBK1###
GCBK2###
HD00

< Maintain PIRs ▾ Go ? LL

Standard* ▾ Go

Search Material: Plant: MRP Area: Accuracy - Current Period:

Last Modified Date: Accuracy - Last Period: Period Indicator: Reach: Version Active:

Adapt Filters (5)

Materials (2) Create Upload and Edit Edit

☐	Material	Plant	Reach	Accuracy - Current Period
☐	GCBK1100 Version Active: N/A Last Modified Date:	Plant Heidelberg (HD00)	0 Months	0
☐	GCBK2100 Version Active: N/A Last Modified Date:	Plant Heidelberg (HD00)	0 Months	0

Select all two materials and click .

The screen displayed deals with the maintenance of planned independent requirements for your materials (*GCBK1###*, *GCBK2###*) in plant *HD00*. The demand values are entered in the table for each period (12 months). Currently, all values are set to "0".

Click . Then select the first **three planning periods** and enter a Proposed Quantity of **30**.

three periods
30

Select Planning Period

Search

Selected: 3

☐ Periods

☒ M08.2025

☒ M09.2025

☒ M10.2025

☐ M11.2025

☐ M12.2025

→

Mass Maintenance

Select Planning Period: *

Proposed Quantity: *

Note

Creation options in mass maintenance: In the *Mass Maintenance* function in SAP Fiori, you can maintain planned independent requirements in three ways:

- **Copy from reference material:**
Copies the planned independent requirements of another material as a template.
- **Enter quantities:**
You manually enter a fixed quantity that is adopted for the selected periods.
- **Forecast Quantity:**
Uses automatically calculated forecast values from MRP, if available.

In this case, you use fixed values for all periods for the sake of simplicity. However, you can also vary the values if necessary.

By confirming with **OK**, this value is taken over for all selected periods. In each row, choose the switch button (in the "**Version Active**" column) to use the active version for all materials.

Active - Yes

<  Maintain PIRs ▾ Q

Maintain Quantities per Period (2) Aug 11, 2025  **Mass Maintenance**

Material (Plant / MRP Area / Version ...)	Version Active.	ReqPlan	ReqSeg	UoM	M08.2025	M09.2025	M10.2025	M11.2025	M12.2025
GCBK1100 (HD00 / HD00 / 00 / VSF)				EA	30	30	30	0	0
GCBK2100 (HD00 / HD00 / 00 / VSF)				EA	30	30	30	0	0

Click **Save**.

Click  to return to the SAP Fiori launchpad.



You see the previously created planned independent requirements for your product group.

Use the navigation buttons  and  to also display values in the hidden view area.

Click  to return to the SAP Fiori launchpad.



Step 12: Supplement Production Version in Material Master Record

Task Enter the production version in the material master record.

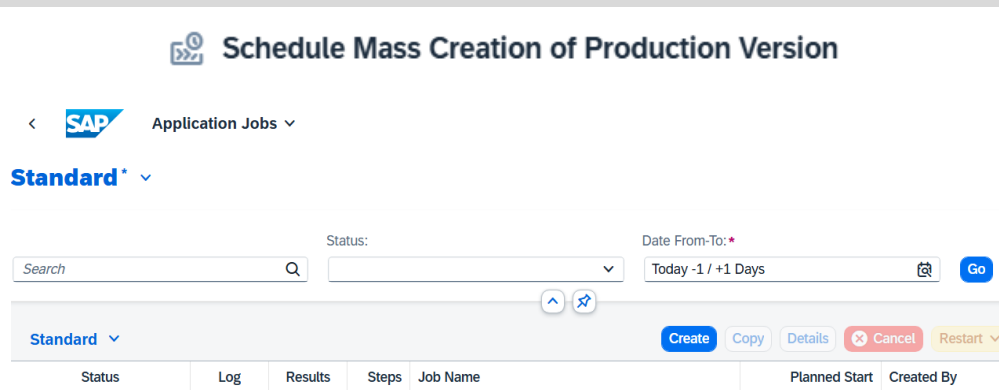
Time 5 min

Description Since material requirements planning is to be carried out in the following step, it is necessary for the determination of the dependent requirements that all materials are equipped with a production version. As of SAP S/4HANA 2020, a production version is mandatory for the BOM explosion. However, it is not possible to create a production version for each material using the Manage Product Master Data app.

Name (Job) Jun Lee (Production Manager)

To set up a background process for creating the required function versions, use the search bar  to find and execute the *Schedule Mass Creation of Production Version*.

Initial Screen



Schedule Mass Creation of Production Version

< **SAP** Application Jobs ▾

Standard ▾

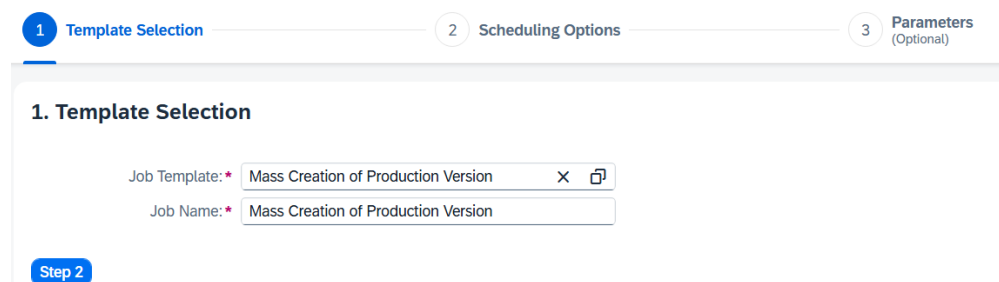
Search Status: Date From-To: * Today -1 / +1 Days  **Go**

Standard ▾ **Create** **Copy** **Details** **Cancel** **Restart** ▾

Status	Log	Results	Steps	Job Name	Planned Start	Created By
--------	-----	---------	-------	----------	---------------	------------

On the *Application Jobs* screen, click **Create**.

On the *New Job: Mass Creation of Production Versions* screen, click **Step 2**.



1 Template Selection **2 Scheduling Options** **3 Parameters (Optional)**

1. Template Selection

Job Template: *  

Job Name: *

Step 2

Make sure that Start Immediately is **selected** for Scheduling Options. Click **Step 3**.

2. Scheduling Options

Start Immediately: ☒

Recurrence Pattern: Single Run

Job Start (Local Time): 08/11/2025, 10:50:40 AM Europe, B...

Step 3

Enter material **GCBK1###** and plant **HD00** as *parameters* for the material restriction.

GCBK1###
HD00

1 Template Selection — 2 Scheduling Options — 3 Parameters (Optional)

3. Parameters

Material Limitations

Material Limitations

Material: EN (GCBK1100) x

Plant: HD00 x

MRP Controller:

MRP Type:

Special Procurement:

Material Type:

Material Group:

Cross-Plant Material Status:

Plant-Specific Material Status:

Click **Schedule**.

Back on the Application Jobs screen, you can see that your job is now in progress.

Refresh the view. You will notice that your job is now finished.

Repeat these steps for material **GCBK2###**.

GCBK2###

Click  to return to the SAP Fiori launchpad.



Step 13: Perform Material Requirements Planning

Task Perform the Material Requirements Planning.

Time 15 min

Description Start material requirements planning (MRP) to generate planned orders that meet the requirements of sales and operations planning and demand management. If necessary, MRP also creates planned orders for dependent requirements that are determined by the BOM explosion.

Name (Job) Jun Lee (Production Manager)

To perform material requirements planning, use the *app Schedule MRP Run - Run MPS with MRP* in the *Production Planning and Execution* area in the role *Production Manager*.

Initial Screen

Note If the app is not displayed, search for it using the search bar .

Schedule MRP Run - Run MPS with MRP

Enter **PG-GC###** as the material and **HD00** as the plant. Select **Product Group**.

PG-GC###
HD00
Product Group

<  Single-Item, Multi-Level ▾

Menu ▾

Material:* PG-GC100

MRP Area:

Plant: HD00

Scope of Planning

☒ Product group

The *MRP control parameters* can be adopted and should be filled by the system as follows:

- Processing key: **NETCH** (net change in total horizon)
- Create purchase requisition: **2** (purchase requisition in opening period)
- Scheduling agreement schedule line: **3** (Basically scheduling agreement delivery schedule lines)
- Create MRP list: **1** (basic MRP list)
- Planning Mode: **1** (Adapt Planning Data (Normal Mode))
- Scheduling: **1** (Determination of basic dates for planned orders)

NETCH

2

3

1

1

1

Statistics

Materials planned	22
Materials with New Exceptions	22
Materials with Termination MRP List	

Parameters

MRP Area

Plnt	HD00
Processing Key	NETCH
Create Purchase Requisition	2
SA Schedule Line	3
Create MRP List	1
Planning Mode	1
Scheduling	1

Database Statistics

Planned orders created	62
Purchase requisitions created	6
Dependent requirements created	122

Scroll further down. There you can see a list of the considered product and its semi-finished products.

Ranking List of Materials with Highest CPU Times (in ms)						
Material	MRP Area			Plnt		
	Runtime	Read	Net Calc.	BOM	LdTmeSched	Update
GCBK1100	2.022	263	559	474	0	609
BRKT1100	868	2	849	0	0	16
TRWA1100	362	1	3	312	0	45
BOLT1100	319	2	27	0	0	289
GCBK2100	178	1	4	118	0	54
HXNT1100	42	2	4	0	0	36
TRWH1100	38	1	2	0	0	34
CHAN1100	23	1	3	0	0	18
TRHB1100	21	1	4	0	0	15
IDGC1100	21	1	3	0	0	16

Click  **Materials** in the upper part of the screen to display a complete list of all planned materials.

Material: PG-GC100																								
MRP Area: HD00		Plant Heidelberg																						
Plant: HD00		Plant Heidelberg																						
  																								
Material	MRP...	Material Description	MRP...	NE	1	2	3	4	5	6	7	8	StckDS	1st RDS	2nd R	PL...	BUn	Sa...	Re...	MTyp	PT	SP	A...	MR...
GCBK1100	HD00	Global Basic Sport & Commute Bike	100	☒				2			2		11,0-	11,0-	11,0-	0	EA	0	0	FERT	X			
GCBK2100	HD00	Global Endurance Sport & Commute Bike	100	☒				2			2		11,0-	11,0-	11,0-	0	EA	0	0	FERT	X			
BRKT1100	HD00	Brake Kit	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
CHAN1100	HD00	Chain	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
DGAM1100	HD00	Derailleur Gear Assembly	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
IDGC1100	HD00	Integrated GPS Bike Computer 100	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			0002
PCKG1100	HD00	Packaging	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
PEDL1100	HD00	Pedal Assembly	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
PUMP1100	HD00	Air Pump	000	☒				3					2,0	2,0	2,0	0	EA	0	0	HAWA	F			
RKIT1100	HD00	Repair Kit	000	☒				3					2,0	2,0	2,0	0	EA	0	0	HAWA	F			
TRFR1100	HD00	Touring Frame-Black	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
TRFR2100	HD00	Touring Frame-Silver	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
TRHB1100	HD00	Touring Handle Bar	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
TRSK1100	HD00	Touring Seat Kit	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
TRWA1100	HD00	Touring Aluminum Wheel Assembly	000	☒		1		2					2,0	999,9	999,9	0	EA	0	0	HALB	E			
WDOC1100	HD00	Warranty Document	000	☒				3					2,0	2,0	2,0	0	EA	0	0	ROH	F			
BOLT1100	HD00	Socket Head Bolt 5x20mm	000	☒				2			1		1,0-	1,0-	1,0-	0	EA	0	0	ROH	F			
HXNT1100	HD00	Hex Nut 5 mm	000	☒				2			1		1,0-	1,0-	1,0-	0	EA	0	0	ROH	F			
LWSH1100	HD00	Lock Washer 5 mm	000	☒				2			1		1,0-	1,0-	1,0-	0	EA	0	0	ROH	F			

The screenshot now shows you all planned materials that could be determined by the multilevel BOM explosion.

Double-click the line of your bike GCBK1###.

< **SAP** Planning Result: Individual Lines ▾

Menu ▾   

Material: GCBK1100
Global Basic Sport & Commute Bike

MRP Area: HD00 Plant Heidelberg

Plant: HD00 MRP Type: M1 Material Type: FERT Base Unit: EA

Σ	A...	Date	MRP e...	MRP element data	Rescheduling...	E...	Rec./reqd qty	Avail. Quantity	Pro...
		08/11/2025	Stock					0	
		08/01/2025	IndReq	VSF			15-	15-	
		08/08/2025	CusOrd				15-	30-	
		08/18/2025	----->	End of Planning Time Fence					
		08/18/2025	PldOrd	0000000365/STCK	08/01/2025	30	15	15-	0001
		08/18/2025	PldOrd	0000000366/STCK	08/08/2025	30	15	0	0001
		09/01/2025	PldOrd	0000000367/STCK		01	30	30	0001
		09/01/2025	IndReq	VSF			30-	0	
		10/01/2025	PldOrd	0000000368/STCK		01	30	30	0001
		10/01/2025	IndReq	VSF			30-	0	

You will notice that 4 planned orders have been generated for your bike GCBK1### for each period that you planned before in and for the sales order of customer Elbe Cycle ###.

Production planning envisages the following requirements for the bike GCBK1###: 30 units in the first period, 30 units in the second period, and 30 units in the third period. In addition, there is a requirement of 15 units through the sales order of Elbe Cycle ###.

For each requirement, corresponding planned orders have been generated by the system. Depending on the current date, the first two planned orders can also be in the following month, since the procurement or Production time of bicycle GCBK1### are taken into account by the system during planning.

Click  (Back).

Double-click the line of your Integrated GPS Bike Computer IDGC1###.

Material: IDGC1100
Integrated GPS Bike Computer 100

MRP Area: HD00 Plant Heidelberg

Plant: HD00 MRP Type: PD Material Type: ROH Base Unit: EA

A...	Date	MRP e...	MRP element data	Rescheduling...	E...	Rec./reqd qty	Avail. Quantity	Stor...
	08/11/2025	Stock					0	
	08/14/2025	PldOrd	0000000382/STPO		01	60	60	
	08/14/2025	DepReq				60-	0	RM00
	08/28/2025	PldOrd	0000000383/STPO		01	60	60	
	08/28/2025	DepReq				60-	0	RM00
	09/27/2025	PldOrd	0000000384/STPO		01	60	60	
	09/27/2025	DepReq				60-	0	RM00

As you can see, 3 planned orders have also been created for your Integrated GPS Bike Computer, indicating that this is a dependent requirement for materials GCBK1### and GCBK2###.

Click  (Back) three times until you are on the initial screen.

Repeat MRP for your bike GCBK3###. Deselect Product Group.

SAP Planning Result: Material List ▾

Selected Results Exception Groups

Material: GCBK3100 Carbon Global Sport & Commute Bike

MRP Area: HD00 Plant Heidelberg

Plant: HD00 Plant Heidelberg

Material	MR...	Material Description	MRP...	NE	1	2	3	4	5	6	7	8	StckDS	1st RDS	2nd R	PL...	BUn	Sa...	Re...	MTyp	PT
GCBK3100	HD00	Carbon Global Sport & Commute Bike	100	☒							1		4,0-	4,0-	4,0-	0	EA	0	0	FERT	X

You will notice that no dependent requirements are planned during the material requirements planning of the bicycle GCBK3###. This is due to the missing routing, BOM, and production version that has not been maintained.

Click **SAP** to return to the SAP Fiori launchpad.

Step 14: Display Stock/Requirements List

Task Display the stock/requirements list.

Time 10 min

Description Display the stock/requirements list for your Sport & Commute.

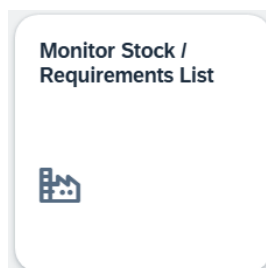
Name (Job) Lars Iseler (Shop Floor Worker 2)

The stock/requirements list is a dynamic list that displays the existing stock in the warehouses of a plant and incoming requirements of a material combined.

Scenario

To display the stock/requirements list, use the *Monitor Stock/Requirements List* app in the *Production Planning and Execution* area in the *Shop Floor Worker* role.

Initial Screen



On the *Individual access* tab page, enter your material **GCBK1###** and plant **HD00**.

GCBK1###
HD00

Individual access

Collective access

Material:* GCBK1100

Description: Global Basic Sport & Commute Bike

MRP Area:

Plant: HD00

Plant Heidelberg

With filter: ☐

Choose **Continue** to display the corresponding stock/requirements list.

PIno order 0000000365/STCK

Material GCBK1100
 MRP Area HD00
 Plant HD00
 Receipt Date 08/18/2025
 PO Quantity 15 EA
 Quantity Without Source 0 EA

Global Basic Sport & Commute Bike
 Plant Heidelberg
 Plant Heidelberg

Pegged Requirements

Planned dates	Material	Material Description	Material Memo	MRP Area	El	MRP element data
08/01/2025	GCBK1100	Global Basic Sport & Commute Bike		HD00	PP	VSF

You can see that the pegged requirement is the product itself. For the components of the bicycle for which a requirement has also been determined, the product is also the pegged requirement.

Click  (back) and open the details of your first planned order again using . In the dialog box that opens again, select  (order report).

In the subsequent view, you can see the determined dependent requirements for your bike GCBK1###. However, no planned orders have been created for them because they still have sufficient stock in stock. A planned order was only created for your Integrated GPS Bike Computer because this does not yet have any stock on hand.

PIno order	Description	Require...	Requ...	Reqmt E...	R...	Rec./reqd ...	B. Receipt...	Receipt Ele...	Recei...
▼ 0000000365									
▼ GCBK1100	Global Basic Sport & Commute Bil		PldOrd	365		15	EA 08/18/2025	PldOrd	365
TRWA1100	Touring Aluminum Wheel Assembl	08/14/2025	DepReq	340	1	30-	EA	Stock	
TRFR1100	Touring Frame-Black	08/14/2025	DepReq	340	2	15-	EA 08/14/2025	PldOrd	397
DGAM1100	Derailleur Gear Assembly	08/14/2025	DepReq	340	3	15-	EA 08/14/2025	PldOrd	379
TRSK1100	Touring Seat Kit	08/14/2025	DepReq	340	4	15-	EA 08/14/2025	PldOrd	408
TRHB1100	Touring Handle Bar	08/14/2025	DepReq	340	5	15-	EA 08/14/2025	PldOrd	405
PEDL1100	Pedal Assembly	08/14/2025	DepReq	340	6	15-	EA 08/14/2025	PldOrd	388
CHAN1100	Chain	08/14/2025	DepReq	340	7	15-	EA 08/14/2025	PldOrd	376
BRKT1100	Brake Kit	08/14/2025	DepReq	340	8	15-	EA 08/14/2025	PldOrd	373
WDOC1100	Warranty Document	08/14/2025	DepReq	340	9	15-	EA 08/14/2025	PldOrd	414
PCKG1100	Packaging	08/14/2025	DepReq	340	10	15-	EA 08/14/2025	PldOrd	385
PUMP1100	Air Pump	08/14/2025	DepReq	340	11	15-	EA 08/14/2025	PldOrd	391
RKIT1100	Repair Kit	08/14/2025	DepReq	340	12	15-	EA 08/14/2025	PldOrd	394
IDGC1100	Integrated GPS Bike Computer 10	08/14/2025	DepReq	340	13	15-	EA 08/14/2025	PldOrd	382

Repeat the steps for your Integrated GPS Bike Computer IDGC1###.

You will notice that both material GCBK1### and material GCBK2### are the pegged requirements for your Integrated GPS Bike Computer. The first planned order of the Integrated GPS Bike Computer contains both the planned independent requirements created for the first period and the requirements from the sales order.

Plnd order 0000000382/STPO

Material
MRP Area
Plant
Receipt Date
PO Quantity
Quantity Without Source

IDGC1100
 HD00
 HD00
 08/14/2025
 60 EA
 0 EA

Integrated GPS Bike Computer 100
 Plant Heidelberg
 Plant Heidelberg

Pegged Requirements

Planned dates	Material	Material Description	Material Memo	MRP Area	El	MRP element data
08/01/2025	GCBK1100	Global Basic Sport & Commute Bike		HD00	PP	VSF
08/01/2025	GCBK2100	Global Endurance Sport & Commute Bike		HD00	PP	VSF
08/08/2025	GCBK1100	Global Basic Sport & Commute Bike		HD00	VC	0000000037/000010/0001
08/08/2025	GCBK2100	Global Endurance Sport & Commute Bike		HD00	VC	0000000037/000020/0001

Click  to return to the SAP Fiori launchpad.



Step 15: Convert Planned Orders to Purchase Requisition

Task Convert Planned Orders to Purchase Requisition.

Time 5 min

Description To convert the dependent requirements resulting from the planned orders for components of the integrated GPS bicycle computer into purchase requisitions (PREqs) and transfer them to Materials Management, it is necessary to convert these planned orders.

The differently scheduled planned orders are converted to a uniform date to simplify the procurement process and to take advantage of potential benefits such as volume discounts or reduced shipping costs. Therefore, the date for all purchase requisitions should be set to one week from today.

Name (Job) Hiro Abe (Plant Manager)

To convert the planned orders into purchase requisitions, use the search bar  to find and execute the app *Convert Planned Orders – to Purchase Requisitions*.

Initial Screen

Convert Planned Orders - to Purchase Requisitions

In the *Collective Conversion of Planned Orders to Pur. Req.: Initial Screen* view, enter **HD00** as the *plant* and **IDGC1###** as the *material*. In addition, select the **Material** field. Click [Continue](#).

HD00
IDGC1###
Material

<  Collective Conversion of PlndOrd.to Pur.Req.: Initial Screen ▾

Menu ▾

Plant: * HD00

Search for planned orders by

MRP controller: ☐

Material: ☒ IDGC1100

WBS element: ☐

From Opening Date:

To Opening Date:

Procurement Type: F

Purchase requisition parameters

"Fixed" indicator: ☐ 

Source Determination: ☒

In the following view, all planned orders for your material are displayed. Select all of them using .

< **SAP** Collect.Convers.of Plnnd Ord.to Pur Req: Complete Display ▾

Menu ▾

Material: IDGC1100
 Description: Integrated GPS Bike Computer 100
 Plant: HD00 Plant Heidelberg Base Unit: EA
 MRP Controller: 000 HD MRP Control 000

	Openg Dte	OrderStart	Ord.Finish	Order Quantity	Fir...	P..	S..	Planned Order	Ord...	A..	Sales Order	Item	Sch...
☒	08/12/2025	08/13/2025	08/14/2025	60	☐	F		382	NB			0	0
☒	08/26/2025	08/27/2025	08/28/2025	60	☐	F		383	NB			0	0
☒	09/25/2025	09/26/2025	09/27/2025	60	☐	F		384	NB			0	0

Then choose **Convert Online**.

Convert Online

In the following view, adjust the *Delivery* and *Release Date* to **one week from today**.

One week from today

< **SAP** Convert Planned Order into Purch. Req.: Details ▾

Menu ▾

Material: IDGC1100
 Integrated GPS Bike Computer 100

Planned Order Data

Planned Order: 382 NB MRP Area: HD00
 Planned Order Qty: 60 EA Planning Plant: HD00
 Procurement Type: F Storage Location:
 Acc. Assignment Cat.: Basic Finish Date: 08/14/2025
 BOM Explosion Number: Basic Start Date: 08/13/2025
 Firming: ☐ Planned Order GR Processing Time: 0
☐ Components

Purchase Requisition Data

Purchase Requisition: NB MRP Area: HD00
 Converted Quantity: 60 EA Plant: * HD00
 Item Category: Storage Location:
 Acct Assignment Cat.: Deliv. date(From/to): 08/18/2025
 BOM explosion number: Release Date: 08/18/2025
 Invoice Receipt: ☒ GR processing time:
 Firming Indicator: ☐ MRP Controller: * 000
 Goods Receipt: ☒ Purchasing Group: * E00

Click **Save**.

Your first planned order has been converted into a purchase requisition.

✓ Planned order 382 converted to purchase requisition 10001081 00010

The second planned order is now displayed. Again, set the delivery date and the release date to **one week from today**. Click **Sichern**. The next planned order has been converted into a purchase requisition.

Repeat this procedure for all other planned orders.

At the end, the system issues the following message:

 3 Planned orders converted into purchase requisitions

Click  to return to the SAP Fiori launchpad.



Process Progress

The production planning and production process must pause at this point because components that are required for the production of the bicycles must now be procured.

Process Progress

The production planning and production process has transferred purchase requisitions from dependent requirements to procurement. At this point, the PP process pauses and the procurement process is initiated. Suitable suppliers are now requested who can supply the missing integrated GPS bicycle computers.

Step 16: Create Vendor

Task Create a new vendor.

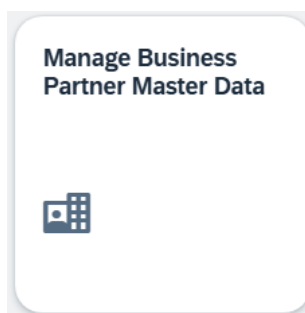
Time 15 min

Description Use the SAP Fiori launchpad to create a new vendor.

Name (Job) Joyce Hausman (Contract Manager)

To create a new vendor, use the *Manage Business Partner Master Data* app in the *Materials Management* area in the *Contract Manager* role.

Initial Screen



Vendors are used in both finance and procurement. The master record of a vendor contains 3 categories – General Data, Financial Accounting, and Procurement. Vendors can be created centrally or with shared responsibilities. During central creation, all views are generated in one step and by one person. With shared responsibility, finance and procurement create the views that are relevant for them. In this case study, the vendor is created centrally. This means that the vendor master record will contain all the information necessary to carry out business transactions.

On the *Manage Business Partner* screen, choose **Create** and then **Organization**.

Organization

In the *Create Organization* dialog box, leave the Business Partner field blank. The system will generate a unique number later. In the *BP Role* field, click , then in the *Select: BP Role* window, select **FI Vendor (FLVN00)**.

FLVN00

For the *Form of Address* field, select Organization **Company** and enter 1 **MagdePedal Tech ###** as the *Name*.

Company
MagdePedal Tech ###

In the *Address* area, enter **Breiterweg 2** in the *Street* field, **39112** for *postal code*, and **Magdeburg** as *the city*. Continue to select **Germany (DE)** as *the country* and **15** as the *region*. Under Standard Communication, choose

Breiterweg 2
39112
Magdeburg
EN
15

English (EN) as *the language*. Compare your entries with the following screenshot.

Click **OK**.

In the *Business Partner* view, in the *Basic Data* area, enter your three-digit number (###) as *search term 1*.

###

Go to the *Identification* area and click **Create** in the *Tax Numbers* section. In the line that appears, enter **DE0** as *the tax category* and **DE123123###** as the *tax number*, replacing ### with your number.

DE0
DE123123###

Now go back to the *Roles* area and click **Create**. Enter the *Business Partner Role* **Vendor (FLVN01)** by clicking on and then selecting **Vendor (FLVN01)**.

FLVN01

Now click on in the line of the newly created business partner role.

Now you can maintain company code-specific data for your business partner in the role of vendor. Go to the *Company Codes* area and click **Create**.

On the *Company Code* screen, enter **DE00** in the *Company Code* field. Select the value in the selection help that appears automatically. Confirm with Enter.

DE00

Go to the *Finance* area and enter **33000000 (Trade Payables)** for *Reconciliation Account*. In the *Payment Data* section, enter **0001** as *payment terms* and select **Check Double Invoice**. Compare your entries with the screenshot below.

33000000
0001

Check Duplicate Invoice

Finance

Accounting	Interest Calculation	Payment Data
Reconciliation Account: * Trade payables (33000000)	Interest Indicator:	Payment Terms: Payable immediately Due net (0001)
Head Office:	Calculated To: e.g. 12/31/2025	Tolerance Group:
Sort Key:		Check Cashing Time: 0
Authorization Group:		Check Double Invoice: ☒

Now go to the *Correspondence* area. Enter **your user (LEARN-###)** as *Clerk ID at Supplier*.

your user

Now click **Apply**.

Back on the *Business Partner* screen, go to the *Purchasing Organizations* area to enhance your business partner *MagdePedal Tech ###* with *Purchasing-Specific Data*.

Click **Create**.

Purchasing Organizations

Purchasing Organizations **Standard** Search Create with Reference Copy Create Delete

Purchasing Organization	Purchasing ...
No items available.	

In the *Purchasing Organization* window, enter **DE00** for the *Purchasing Organization* field.

DE00

In the *Purchasing Organizations* area, enter **EUR** as the *order currency* and use the F4 help to search for the *payment term Payable immediately w/o deduction (0001)*.

USD
Pay immediately w/o
deduction (0001)

New Purchasing Organization

General Data Purchasing Organizations Partner Functions Texts Supply Region Attachments

Purchasing Organization:

Global Bike Germany (DE00)



Salesperson:

Purchasing Group:



Telephone:

Planned Delivery Time [Days]:

0

Account at Supplier:

Purchasing Organizations

Conditions

Order Currency: *

European Euro (EUR)



Minimum Order Value:

0,00 EUR



Schema Group:



Payment Terms:

Payable immediately Due net (0001)



Control Data

ABC Indicator:

Shipping Condition:



Confirmation Control Key:



Click **Apply** to copy your purchasing-specific data for your business partner.
Click **Apply** and then click **Create**.

Click **SAP** to return to the SAP Fiori launchpad.



Step 17: Create RFQ

Task Create a request for your purchase request.

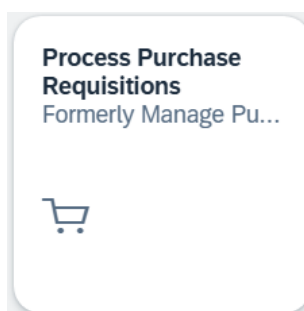
Time 10 min

Description Create a request for some suppliers. This is used to gather all the relevant information (such as pricing, delivery, and so on) needed to select the supplier that best meets your requirements.

Name (Job) Aura Maxwell (Purchasing Agent 2)

To create a request for quotation (RFQ) for your purchase requisition, use the *Process Purchase Requisition* app in the *Inventory Supervisor* role in the area of *Materials Management*.

Initial Screen



Click **Adapt Filters**. Add the value group **Material** and apply the filter with **OK**.

Material

In the *Material* field, enter **IDGC1###** and click **Go**.

IDGC1###

Select all lines with your purchase requisition for material IDGC1### and then click **Create RFQ**.

SAP Process Purchase Requisitions

Standard

Save as Tile

Search: [] Plant: [] Purchasing Group: [] Purchasing Organization: [] Product Group: []

Processing Status: [] Item Delivery Date: [] Start Date: [] End Date: [] Release Date: []

Requisition Date: [] Delivery Date: [] Material: [IDGC1100 X] Go Adapt Filters (1)

Purchase Requisitions (3)

Create Contract Create RFQ Create Purchase Order

Item	Material	Product Group	Quantity	Purchase Order Quantity	Total Value	Assigned Supplier	Delivery Date	Plant
10001081/10	Integrated GPS Bike Computer 100 (IDGC1100)	Raw Materials RAW	60 EA	0 EA	2,400,00 EUR	0 Sources	Aug 18, 2025	Plant Heidelberg HD00
10001082/10	Integrated GPS Bike Computer 100 (IDGC1100)	Raw Materials RAW	60 EA	0 EA	2,400,00 EUR	0 Sources	Aug 18, 2025	Plant Heidelberg HD00
10001083/10	Integrated GPS Bike Computer 100 (IDGC1100)	Raw Materials RAW	60 EA	0 EA	2,400,00 EUR	0 Sources	Aug 18, 2025	Plant Heidelberg HD00

Note The number of existing lines is based on material planning. As explained above, the requirements may be split or combined. Accordingly, a different number of rows can also be displayed.

Under *General Information*, enter **RFQ** as the RFQ type, the submission deadline **in three working days**, the RFQ description **IDGC-RFQ###**, the purchasing organization, and the company code **DE00**. Compare your screen with the following screenshot.

New RFQ

General Information Bidders Items

RFQ Type *	Purchasing Group *
Request for Quote	E00
RFQ Description *	Purchasing Organization *
IDGC-RFQ100	DE00
Submission Deadline *	Company Code *
08/13/2025	DE00

Go to the *Bidders* area. Click  to add new bidders.

Search for your supplier **MagdePedal Tech ###** and add it as a bidder by clicking on .

Bidders

Company	Address	Country	Email
MagdePedal Tech 100 1003092	129516	Germany	

Items

Item	Material	Material Group	Quantity	Delivery Date
10001081/10	Integrated GPS Bike Computer 100	RAW	60,000	Aug 18, 2025
10001082/10	Integrated GPS Bike Computer 100	RAW	60,000	Aug 18, 2025
10001083/10	Integrated GPS Bike Computer 100	RAW	60,000	Aug 18, 2025

Repeat this procedure to add **121### (Shell Gear)** as bidder.

You can identify your vendor by the last three digits of the vendor number. For example, vendor number 121### represents vendor Shell Gear and 113### represents supplier Burgmeister Accessories OHG for user LEARN-###.

Compare your screen with the following screenshot.

RFQ
Purchase Quotation
in three working days
IDGC-RFQ###
DE00
DE00

MagdePedal Tech ###

102### (Shell Gear)

Bidders

Company	Address	Country	Email	
MagdePedal Tech 100 1003092	129516	Germany		×
Shell Gear 121100	63762	Germany		×

Items

Item	Material	Material Group	Quantity	Delivery Date	
10001081/10	Integrated GPS Bike Computer 100	RAW	60,000	Aug 18, 2025	×
10001082/10	Integrated GPS Bike Computer 100	RAW	60,000	Aug 18, 2025	×
10001083/10	Integrated GPS Bike Computer 100	RAW	60,000	Aug 18, 2025	×

In the *Item* area, you can see that your items have already been transferred.

Now press **Publish**. Click **Publish** again.

You receive a success message with your request number.

Click  to return to the SAP Fiori launchpad.



Bidders

Bidders (2) Standard* ▾

Create Quotation 📄 ⚙️ 📄 | ▾

Supplier	
☒ MagdePedal Tech 100	>
1003092	
☐ Shell Gear	>
121100	

Enter *quotation submission date* **today** and follow-on document type **NB** (standard purchase order).

today
NB

Quotation

General Information Delivery and Payment Terms Items Notes Attachments Approval Details

Basic Data

Type:
Quotation

Supplier/Bidder:
MagdePedal Tech 100

Address:
Breitenweg 2, 39112 Magdeburg, Germany

Country/Region Key:
Germany

Quotation Submission Date: *
08/11/2025 📅

Request for Quotation

RFQ:
Request for Quote (7000000007)

RFQ Description:
IDGC-RFQ100

Quotation Deadline:
08/13/2025

Follow-On Document

Follow-On Document Type: *
Standard PO (NB)

Note The quotation submission date must not be later than the quotation deadline. You can find the submission deadline under *General Information* in the RFQ area.

Go to the *item*. Enter a *net order price* of **EUR 33** for the first item and **EUR 34** for all other *purchase order items*.

33
34

Items

Quotation Items (3) Standard ▾

📄 ⚙️ 📄 | ▾

Supplier Quot...	Short Text	Material	RFQ Item	Requested Quantity	
10	Integrated GPS Bike Computer 100	IDGC1100	7000000007 / 10	60 EA	>
Quotation Quantity: 60 EA					
Awarded Quantity: 0 EA					
Net Order Price: 33,00 EUR					
Quotation Net Value: 1.980,00 EUR					
Purchasing Info Record:					
20	Integrated GPS Bike Computer 100	IDGC1100	7000000007 / 20	60 EA	>
Quotation Quantity: 60 EA					
Awarded Quantity: 0 EA					
Net Order Price: 34,00 EUR					
Quotation Net Value: 2.040,00 EUR					
Purchasing Info Record:					
30	Integrated GPS Bike Computer 100	IDGC1100	7000000007 / 30	60 EA	>
Quotation Quantity: 60 EA					
Awarded Quantity: 0 EA					
Net Order Price: 34,00 EUR					
Quotation Net Value: 2.040,00 EUR					
Purchasing Info Record:					

Note The number of items is based on the previously created RFQ. Accordingly, the number of items may differ from the screenshot.

Click **Create** and then click **Submit** on the upper right to create the quotation of MagdePedal Tech ###. If you do not see the Submit button, enlarge your browser window.

Return  to your posting. In the *Quotations* area, you can now see your quotation from MagdePedal Tech ###.

Quotations				
Standard 				
Supplier Quotation	Supplier	Net Value	Status	Submission Date
Quotation 8000000014	MagdePedal Tech 100 (1003092)	6.060,00	EUR Submitted	08/11/2025
Created By: Learn-501 Learn-501 (LEARN-501)				

Repeat this process for the other request you created. Enter the following prices:
Shell Gear → **EUR 32** for the first items and **EUR 36** for all other items

Quotations				
Standard 				
Supplier Quotation	Supplier	Net Value	Status	Submission Date
Quotation 8000000014	MagdePedal Tech 100 (1003092)	6.060,00	EUR Submitted	08/11/2025
Created By: Learn-501 Learn-501 (LEARN-501)				
Quotation 8000000015	Shell Gear (121100)	6.240,00	EUR Submitted	08/11/2025
Created By: Learn-501 Learn-501 (LEARN-501)				

Click  to return to the SAP Fiori launchpad.



32
36

Step 19: Price-Based Bid Evaluation

Task Evaluate the quotations based on the price.

Time 10 min

Description Generate a quotation price comparison list from the quotations of the individual vendors. Offer price comparison list ranks offers from lowest to highest

The successful supplier (MagdePedal Tech ###) was selected using the criterion of the best bid. It is now necessary to inform the subordinate providers about the rejection of their offers. The system stipulates this in the process because it is defined for these providers that you need to be notified.

Name (Job) Wilton Saban (Inventory Supervisor)

Generate a quotation price comparison list from the quotations of the individual vendors. Offer price comparison list ranks offers from lowest to highest.

Scenario

The successful supplier (MagdePedal Tech ###) was selected using the criterion of the best bid. It is now necessary to inform the subordinate providers about the rejection of their offers. The system stipulates this in the process because it is defined for these providers that you need to be notified.

To reject a quotation, use the *Compare Supplier Quotations* app in the *Inventory Supervisor* role in the *area of Materials Management*.

Initial Screen



Use the **F4 help** to search for your RFQ. Enter **IDGC-RFQ###** as the *RFQ Description* and click **Go**.

IDGC-RFQ###

Request for Quotation

Standard * Search Hide Filter Bar Filters (1)

RFQ: Doc. Type Descript.: RFQ Type:

Purch. Doc. Category: RFQ Description: Full Name:

Items (1)

RFQ	RFQ Type	Purch. Doc. Category	RFQ Description	Full Name
Request for Quote 7000000007	RQ	R	IDGC-RFQ100	Learn-501 Learn-501

Select your posting.

< Compare Supplier Quotations >

Request for Quotation:

IDGC-RFQ100 7000000007

Created By: Learn-501 Learn-501
Created On: 08/11/2025
Publishing Date: 08/11/2025
RFQ Type: Request for Quote

Status: **Published**

Quotation Deadline: **08/13/2025**

Number of Invited Bidders: **2**

Comparison of Target Value/Best Quotation:

Target Value	Best Quotation
0,00 EUR	6.060,00 EUR

Quotations (2)

[Compare](#) [Award](#)

☐	Supplier Quotation	Supplier	Address	Status	Total Quotation Net Value	Quotation Date	Fully Quoted Items	Best-Priced Items
☐	8000000014	MagdePedal Tech 100 (1003092)	Breiterweg 2, 39112 Magdeburg, Germany	Submitted	6.060,00 EUR	08/11/2025	3/3	2/3
☐	8000000015	Shell Gear (121100)	Sandkrug, 24149 Sandkrug, Germany	Submitted	6.240,00 EUR	08/11/2025	3/3	1/3

Compare the quotations. Select all two quotations and click *Compare*.

Quotations (2)

[Compare](#) [Award](#)

☒	Supplier Quotation	Supplier	Address	Status	Total Quotation Net Value	Quotation Date	Fully Quoted Items	Best-Priced Items
☒	8000000014	MagdePedal Tech 100 (1003092)	Breiterweg 2, 39112 Magdeburg, Germany	Submitted	6.060,00 EUR	08/11/2025	3/3	2/3
☒	8000000015	Shell Gear (121100)	Sandkrug, 24149 Sandkrug, Germany	Submitted	6.240,00 EUR	08/11/2025	3/3	1/3

You now get a detailed breakdown of bids submitted per item.

As you can see, for item 00010, the Shell Gear quotation is highlighted in color, as this is best for the first item. For all other items, the supplier MagdePedal Tech #### has submitted the cheaper quotation.

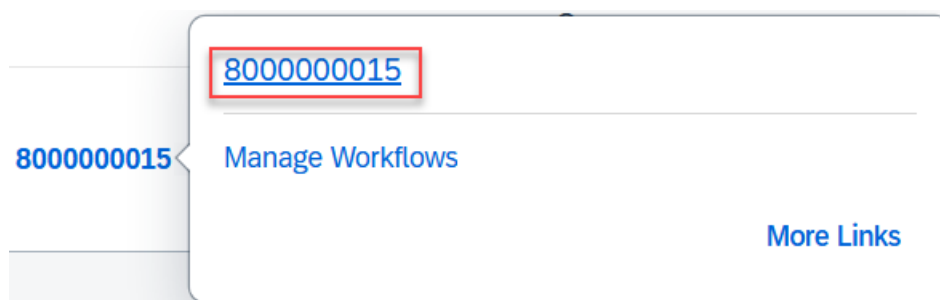
Header Fully Awarded Items  Total Net Value for Award 12.300,00 EUR Currency EUR	8000000014 - MagdePedal Tech 100 Total Quotation Net Value 6.060,00 Fully Quoted Items 3/3 Award Select All	8000000015 - Shell Gear Total Quotation Net Value 6.240,00 Fully Quoted Items 3/3 Award Select All
Item - 00010 Requested Quantity 60 EA Total Awarded Quantity 120 / 60 Awarded Net Amount 3.900,00 EUR	IDGC1100 Quotation Quantity 60 EA Quotation Net Value 1.980,00 EUR Delivery Date 08/18/2025 Awarded Quantity 60 EA Select All	IDGC1100 Quotation Quantity 60 EA Quotation Net Value 1.920,00 EUR Delivery Date 08/18/2025 Awarded Quantity 60 EA Select All
Item - 00020 Requested Quantity 60 EA Total Awarded Quantity 120 / 60 Awarded Net Amount 4.200,00 EUR	IDGC1100 Quotation Quantity 60 EA Quotation Net Value 2.040,00 EUR Delivery Date 08/18/2025 Awarded Quantity 60 EA Select All	IDGC1100 Quotation Quantity 60 EA Quotation Net Value 2.150,00 EUR Delivery Date 08/18/2025 Awarded Quantity 60 EA Select All
Item - 00030 Requested Quantity 60 EA Total Awarded Quantity 120 / 60 Awarded Net Amount 4.200,00 EUR	IDGC1100 Quotation Quantity 60 EA Quotation Net Value 2.040,00 EUR Delivery Date 08/18/2025 Awarded Quantity 60 EA Select All	IDGC1100 Quotation Quantity 60 EA Quotation Net Value 2.150,00 EUR Delivery Date 08/18/2025 Awarded Quantity 60 EA Select All

Click [◀](#) (Back).

Select the least expensive offer. Select only the offer from MagdePedal Tech ### and click [Award](#) to accept the quotation.

You can identify the best quotation by the total net value being highlighted in green.

Reject the other offers. Click on the **quote number** and click on the **quote number** again.



In the *Supplier Bid* screen, click [Cancel](#) (top right).

[◀](#)

 Supplier Quotation [▼](#)
[🔍](#)

Quotation

[Edit](#)
[Award](#)
[Complete](#)
[Cancel](#)

8000000015



Created By [Learn-501 Learn-501](#)
 Created On 08/11/2025
 Approver Not started

Status
 Submitted

Net Value
 6.240,00 EUR

Bidder
[Shell Gear](#)

If your browser window is too small, you can find the Close button at [☰](#).

Click  (Back).

On the Compare Supplier Quotations screen, you can now see that one supplier quotation has been cancelled and the other has been awarded.

Quotations (2) Compare Award  								
☐	Supplier Quotation	Supplier	Address	Status	Total Quotation Net Value	Quotation Date	Fully Quoted Items	Best-Priced Items
☐	8000000014	MagdePedal Tech 100 (1003092)	Breiterweg 2, 39112 Magdeburg, Germany	Awarded	6.060,00 EUR	08/11/2025	3/3	2/3
☐	8000000015	Shell Gear (121100)	Sandkrug, 24149 Sandkrug, Germany	Cancelled	6.240,00 EUR	08/11/2025	3/3	1/3

Click  to return to the SAP Fiori launchpad.



Step 20: Create purchase order with reference to RFQ

Task Create a purchase order with reference to an inquiry.

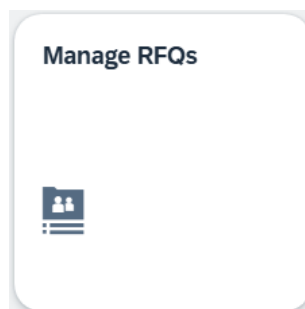
Time 10 min

Description Create a purchase order that refers to the quotation from the successful supplier. The details are then imported into the new purchase order.

Name (Job) Alberto Conti (Inventory Assistant)

To create a purchase order, use the *Manage RFQs* app in the role *Inventory Assistant* in the *area of Materials Management*.

Initial Screen



For the *RFQ Description* field, enter **IDGC-RFQ###**. Start the search by clicking on **Go**.

IDGC-RFQ###

< **SAP** Manage RFQs Q ? LL

Standard* [Link] v

Editing Status: RFQ: Company Code: RFQ Type:

Search [Q] All [v] [Copy] [Copy] [v]

Status: Purchasing Organization: Purchasing Group: Our Reference: Created On:

[v] [Copy] [Copy] [Copy] [v]

Quotation Deadline: RFQ Description:

[v] [=IDGC-RFQ100 x] [Copy]

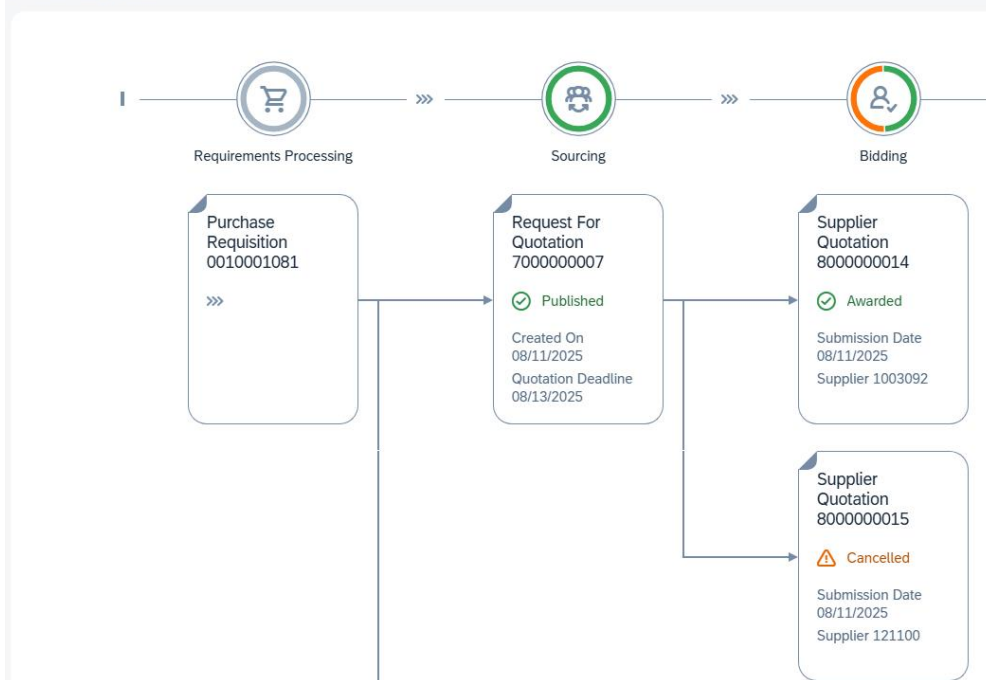
Go Adapt Filters (1)

Requests for Quotations (1) Create Copy Delete [Icons]

RFQ	RFQ Description	Company Code
Request for Quote 7000000007 Purchasing Organization: Global Bike Germany (DE00) Purchasing Group: Europe (E00) Target Value: 0,00 EUR Quotation Deadline: 08/13/2025 Status: Published Created On: 08/11/2025	IDGC-RFQ100	Global Bike Germany GmbH (DE00)

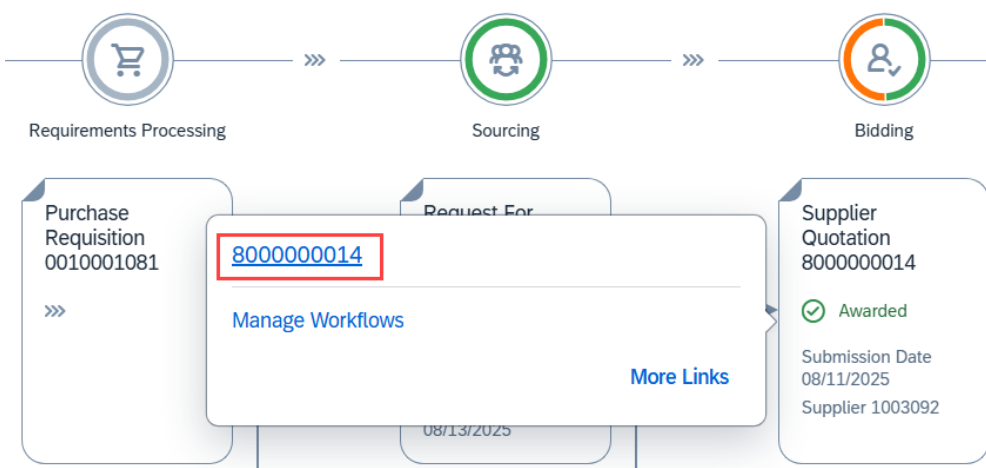
Click on your purchase quotation. Go to the *Process Flow* area.

Process Flow



You see your purchase requisitions, which were bundled in the RFQ, followed by the two quotations. One of the two quotations has been rejected and you can see from the comment Cancelled.

Click on the supplier quotation with remark **Awarded** and then click on the **quotation number**.



Create a purchase order from this quotation by clicking **Follow-On Document** and then **Create Purchase Order**.

< **SAP** Supplier Quotation ▾

Quotation

8000000014

 Created By [Learn-501 Learn-501](#) Status **Net Value** **Bidder**

Created On 08/11/2025 Awarded 6.060,00 EUR [MagdePedal Tech 100](#)

Approver Approved automatically

[Follow-On Document ▾](#) [History](#)

[Create Purchase Order](#)

[Create Purchase Contract](#)

On the *purchase order* screen, switch to the *Items* area. Check your order of 180 Integrated GPS Bike Computers there.

< **SAP** Purchase Order ▾

New Purchase Order

[Display Commitments](#) [Status Details](#)

General Information **Items** Limit Items Delivery and Invoice Supplier Contact Data Notes Attachments

Purchase Order Items (3) [Standard ▾](#) [Add from Document](#) [Block](#) [Unblock](#) [Restore](#) [Delete](#) [Copy](#)

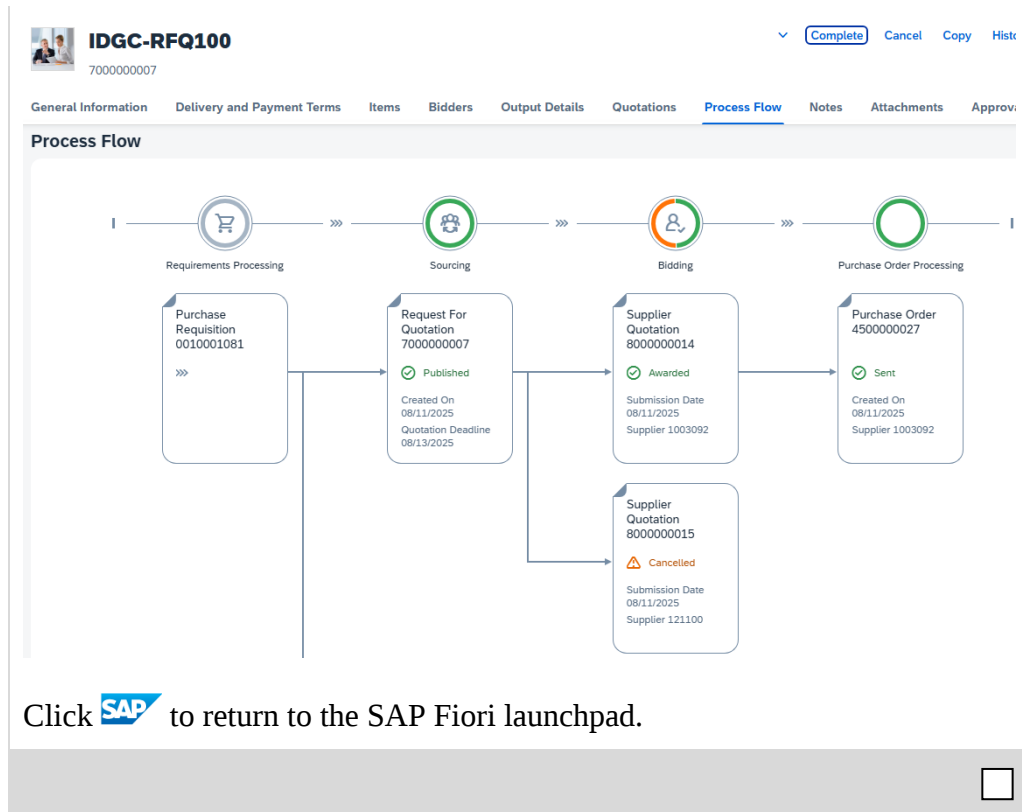
Item	Item Category	Material	Short Text	Material Group
Order Quantity: 60	EA			
Net Order Price: 33,00	EUR			
Price Unit: 1	EA			
Net Order Value: 1.980,00	EUR			
Status:				
☐ 20	Standard ▾	IDGC1100	Integrated GPS Bike Computer 100	Raw Materials (RAW)
Plant: HD00				
Order Quantity: 60	EA			
Net Order Price: 34,00	EUR			
Price Unit: 1	EA			
Net Order Value: 2.040,00	EUR			
Status:				
☐ 30	Standard ▾	IDGC1100	Integrated GPS Bike Computer 100	Raw Materials (RAW)
Plant: HD00				
Order Quantity: 60	EA			
Net Order Price: 34,00	EUR			
Price Unit: 1	EA			
Net Order Value: 2.040,00	EUR			
Status:				

Now click [Order](#) to create your order.

Note A purchase order is a formal request to a vendor to deliver goods or services in accordance with the purchase order conditions. Several objects can trigger a purchase order.

Goods receipt and invoice verification are usually based on the purchase order.

Click [<](#) until you return to your posting. Have a look at your process flow again. The accepted quotation is now followed by a purchase order.



Step 21: Display Purchase Order

Task Display your purchase order.

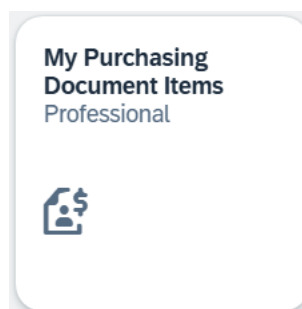
Time 5 min

Description You now want to look at what you have sent to the supplier in the system.

Name (Job) Aura Maxwell (Purchasing Agent 2)

To display the purchase order, in the *Materials Management* area, in the *Inventory Supervisor* role, use the *My Purchasing Document Items - Professional* app.

Initial Screen



The app enables you to get an overview of all purchase requisitions, purchase orders, goods receipts, and supplier invoices.

In the Supplier field, enter or search for your supplier **MagdePedal Tech ###** using the input help and choose **Go**.

MagdePedal Tech ###

SAP My Purchasing Document Items

Standard

Document Number: Supplier: Material Group: Purchasing Group: Plant:

Status: Purchase Order:

Go Adapt Filters (1)

Overview Purchase Requisitions Purchase Orders Goods Receipts Supplier Invoices

Document Items (1)

Supplier	Purchase Requisition I...	Purchase Order Items	Goods Receipt Items	Supplier Invoice Items
MagdePedal Tech 100 (1003092)	0	3	0	0

Click **Purchase Orders**.

[Overview](#) [Purchase Requisitions](#) [Purchase Orders](#) [Goods Receipts](#) [Supplier Invoices](#)

Purchase Order Items (3)

[Create Purchase Order](#) [Post Goods Receipt](#) 

Purchase Order Item	Order Type	Material Group	Material	
Supplier: MagdePedal Tech 100 (1003092)				
☐ 4500000027/00010	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	>
☐ 4500000027/00020	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	>
☐ 4500000027/00030	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	>

You can see that the Next Delivery Quantity is 180 pcs Integrated GPS Bike Computers.

Click  to return to the SAP Fiori launchpad.



Step 22: Post Goods Receipt for Purchase Order

Task Create a goods receipt posting for the purchase order.

Time 10 min

Description You receive the goods that you ordered from MagdePedal Tech ### in your stock in the previous step. A goods receipt posting is created that refers to your purchase order. The stock is increased and a financial document is created that correctly posts the value of the goods.

Name (Job) Tatiana Karsova (Goods Receipt Clerk)

To post the goods receipt, use the *Post Goods Receipt for Purchasing Document* app in the area *Materials Management* in the role *Goods Receipt Clerk*.

Initial Screen



Enter **your purchasing document number** in the *Purchasing Document* field.

Purchasing Document Number

If you want to search for your purchasing document number, use the F4 help. In the search field, enter **IDGC1###** and then click **Go**.

IDGC1###

Select: Purchasing Document

IDGC1100 x Q Go Hide Filters

Purchasing Document Category: All Categories

Items (3)

Purchasing...	Purchasing ...	Purchasing ...	Supplier	Supplier Na...	City	Su...	Na...	Material	Material Sh...
4500000027	Purchase Or...	Standard PO	1003092	MagdePeda...	Magdeburg			IDGC1100	Integrated G...
4500000027	Purchase Or...	Standard PO	1003092	MagdePeda...	Magdeburg			IDGC1100	Integrated G...
4500000027	Purchase Or...	Standard PO	1003092	MagdePeda...	Magdeburg			IDGC1100	Integrated G...

First of your orders

Then select the **first of your purchase orders** by double-clicking them.

You now see your purchase order.

SAP Post Goods Receipt for Purchasing Document

Purchasing Document: 4500000027

MagdePedal Tech 100
Purchasing Document: 4500000027
Purchasing Document Type: Standard PO NB

General Information Items Attachments

Printing: No print
Bill of Lading:
Note:
Delivery Note:
Document Date: 08/11/2025
Posting Date: 08/11/2025

Items

Items (3)

Material	Open Quantity	Delivered	Distribution	Plant	Storage Location	Stock Type
Integrated GPS Bike Computer 100 IDGC1100	60,000 EA	60,000 EA	+	Plant Heidelberg (HD00)		Unrestricted-Use
Integrated GPS Bike Computer 100 IDGC1100	60,000 EA	60,000 EA	+	Plant Heidelberg (HD00)		Unrestricted-Use
Integrated GPS Bike Computer 100 IDGC1100	60,000 EA	60,000 EA	+	Plant Heidelberg (HD00)		Unrestricted-Use

When goods are delivered for a purchase order, you document a goods receipt with reference to the purchase order. The system checks the purchase order and copies only the open purchase order items to the goods receipt transaction.

During goods receipt with reference to a purchase order, the system checks the following:

- Whether the right material was delivered.
- Whether the correct quantity was delivered. (If this is not the case, an over- or Underdelivery)
- Whether perishable goods are within their minimum shelf life. (In this case, the shelf life expiration date check must be activated.)

For Printing, select **Individual Slip**.

Individual Slip

If not filled automatically, select **RM00 (RAW Materials)** in each item for storage location.

RM00 (RAW Materials)

Select Storage Location

Search

Standard

Raw Materials	Unrestricted...	0,000 EA
Quality	0,000 EA	
Blocked	0,000 EA	

RM00

Now click on your item line to check all entries.

Select the checkbox for **Delivery Completed**.

Delivery Completed

Check that **RAW materials** are entered as the storage location and change the stock type to **Quality Inspection**.

< **SAP** Goods Receipt Item Q ?

Integrated GPS Bike Computer 100 IDGC1100

Progress of Goods Receipt for Purchasing Document 60,000

Quantity Plant Options Additional Information

Delivered (Unit of Entry):	60,000	EA	☐	Delivery Completed:	☒
Open Quantity:	60,000	EA		Number of GR Slips:	
Goods Receipt Quantity:	0,000	EA			
Ordered:	60,000	EA			

Plant Options

Plant: * Plant Heidelberg (HD00)

Storage Location: * Raw Materials (RM00)

Stock Type: Quality Inspection

Special Stocks:

Supplier: MagdePedal Tech 100 (1003092)

Now click **Apply**.

Repeat this procedure for all other purchase order items.

Allgemeine Informationen Positionen Anlagen

Drucken: Einzelschein

Frachtbrief:

Notiz:

Lieferschein:

Belegdatum: * 05.08.2025

Buchungsdatum: * 05.08.2025

Positionen

Positionen (3) Suchen Q ↑↓ ▼ ⚙

Material	Offene Menge	Geliefert	Verteilung	Werk	Lagerort	Bestandsart
Integrierter GPS-Fahrradcomputer 000 IDGC1000	60,000 EA	60,000 EA	☒	Plant Heidelberg (HD00)	Raw Materials (RM00)	Qualitätsprüfung
Integrierter GPS-Fahrradcomputer 000 IDGC1000	60,000 EA	60,000 EA	☒	Plant Heidelberg (HD00)	Raw Materials (RM00)	Qualitätsprüfung
Integrierter GPS-Fahrradcomputer 000 IDGC1000	60,000 EA	60,000 EA	☒	Plant Heidelberg (HD00)	Raw Materials (RM00)	Qualitätsprüfung

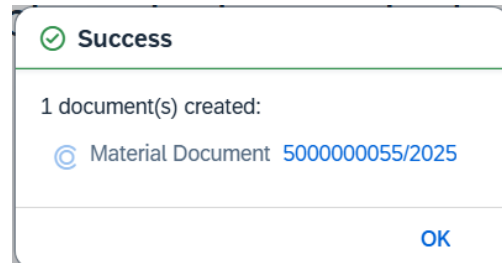
Inventory Management recognizes various stock types that indicate the usability of the material:

- unrestricted-use stock
- Stock in Quality Inspection
- Blocked stock

For goods receipts, you decide to which stock type a quantity is posted. The stock type is relevant for determining the available stock in MRP (material requirements planning) and for withdrawals in Inventory Management (see also Availability Check).

You can only post withdrawals for consumption from unrestricted-use stock. From quality inspection stock and blocked stock, you can only withdraw a sample, scrap a quantity, or post an inventory difference.

Leave the lines selected. Click **Post** to post the goods receipt of your material. You receive a success message with your material document number.



Note When you post a goods receipt in one of the warehouses, the system generates a material document. This document contains information about the delivered material and the corresponding quantity. The plant storage location is documented for stock items.

Click **SAP** to return to the SAP Fiori launchpad.



Step 23: Check received goods

Task Check the quality of the goods.

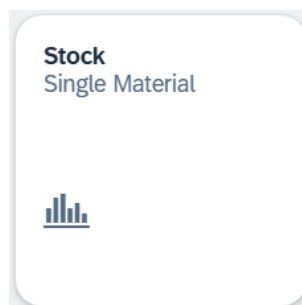
Time 10 min

Description You must ensure that the goods have been delivered in the desired quality. The goods are transferred to unrestricted-use stock.

Name (Job) Sandeep Das (Warehouse Supervisor)

To display the stock, use the *Stock - Single Material* app in the *area Materials Management* in the role *Warehouse Supervisor*.

Initial Screen



If it is not already selected, enter your material **IDGC1###**. A list is displayed. Click on your material **IDGC1###**.

IDGC1###.

< **SAP** Stock - Single Material ▾

Material: IDGC1100 X

Integrated GPS Bike Computer 100 IDGC1100 [Open In...](#)

Material Type: Raw materials (ROH)
Base Unit of Measure: each (EA)

Plant	Storage Location	Unrestricted-Use Stock	Blocked Stock	Quality Inspection Stock	Restricted-Use Stock	Returns	Stock in Transit	Tied Empties Stock	Transfer Stock (Plant)	Transfer Stock (Storage Location)	Valuated GR Blocked Stock
▼ Plant Heidelberg		0,000 EA	0,000 EA	180,000 EA	EA	0,000 EA	0,000 EA	0,000 EA	0,000 EA	0,000 EA	0,000 EA
	Raw Materials RM00	0,000 EA	0,000 EA	180,000 EA	EA	0,000 EA				0,000 EA	

In the previous step, you posted the received goods for quality inspection. Here you can see the 180 units in the quality inspection stock.

You can only take goods from unrestricted-use stock for consumption. Therefore, you must transfer the goods.

Note In reality, you would check whether the correct goods and quantity were delivered before you post them to unrestricted-use stock.

Select the line of the storage location Raw Materials in the plant Heidelberg and click **Transfer Stock - In-Plant**.

In the *Stock in Quality Inspection* column, click  next to the 180 units. The icon under *Unrestricted-Use Stock* is now clickable. Click .

In the *Transfer Stock – In-Plant* window, increase the quantity to **180**.

180

Transfer Stock - In-Plant

Issuing Storage Location: Raw Materials (RM00)

Stock Type: Stock in Quality Inspection

Current Quantity: 180,000 EA



Receiving Storage Location: Raw Materials (RM00)

Stock Type: Unrestricted-Use Stock

Current Quantity: 0,000 EA

Quantity: *

Document Date: * 

Posting Date: * 

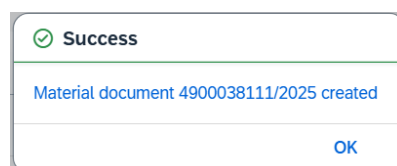
Printing: 

Header Text:

Document Item Text:

Attachments: 

Click . You receive a success message.



The material has been transferred. Close the window.

 **Transfer Stock - In-Plant** 

Material:  

Plant:

Integrated GPS Bike Computer 100 IDGC1100

Material Type: Raw materials (ROH) Range of Coverage in Days
Base Unit of Measure: each (EA) 0 days

Unrestricted-Use Stock	180,000 EA
Blocked Stock	0,000 EA
Stock in Quality Inspection	0,000 EA

Transfer Stock - In-Plant

Material by Storage Location [Add Storage Location](#)

Storage Location	Unrestricted-Use Stock	Blocked Stock	Stock in Quality Inspection
Raw Materials (RM00)	180,000 EA 	0,000 EA 	0,000 EA 
	180,000 EA	0,000 EA	0,000 EA

Click  to return to the SAP Fiori launchpad.

Step 24: Check physical goods receipt

Task Confirm the physical receipt of the goods.

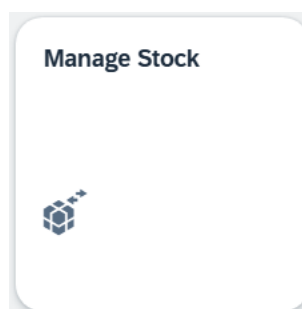
Time 5 min

Description Revisit the stock of Integrated GPS Bike Computers. The stock overview gives you an overview of the stocks of a material across all organizational levels.

Name (Job) Tatiana Karsova (Goods Receipt Clerk)

To check the warehouse stock of a material in the sales order, use in the *area Materials Management* in the role *Goods Receipt Clerk*, the *Manage Stock* app.

Initial Screen



In the dropdown menu, select the *plant* in **Plant Heidelberg (HD00)**. To find the material number from your Integrated GPS Bike Computers, click in the Material field and then click the value help icon .

HD00

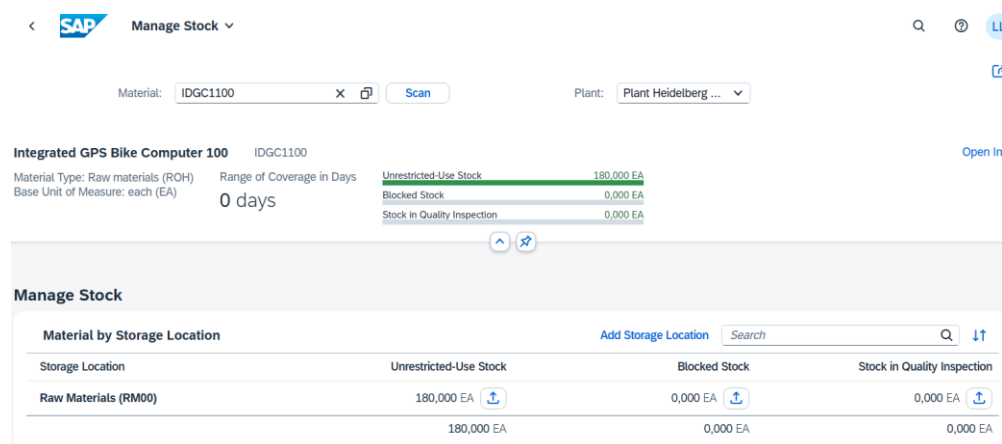
In the Search field, enter ***###** (for example, if your number is 002, enter *002).

Click **Go** to view the list of materials. Extend the Material Description field.

Scroll down until you find your material **IDGC1###**.

IDGC1###

Double click on it. The report shows you the storage level for the plant in Heidelberg.



Integrated GPS Bike Computer 100 IDGC1100

Material Type: Raw materials (ROH) Range of Coverage in Days: 0 days

Base Unit of Measure: each (EA)

Unrestricted-Use Stock: 180,000 EA

Blocked Stock: 0,000 EA

Stock in Quality Inspection: 0,000 EA

Material by Storage Location

Storage Location	Unrestricted-Use Stock	Blocked Stock	Stock in Quality Inspection
Raw Materials (RM00)	180,000 EA	0,000 EA	0,000 EA
	180,000 EA	0,000 EA	0,000 EA

You can find out more details about the stock of the Integrated GPS Bike Computer. To do so, click [Stock - Single Material](#). This will give you detailed information about the stock of the bicycle computer in the various plants.

Integrated GPS Bike Computer 100 IDGC1100 [Open In...](#)

Material Type: Raw materials (ROH)
Base Unit of Measure: each (EA)
Plant: HD00

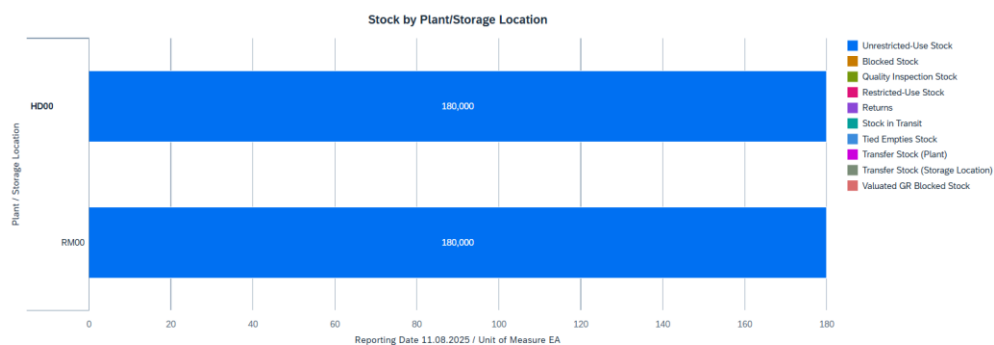
Stock by Plant/Storage Location Reporting Date: 08/11/2025 Load all Plants/Batches Search

1 table filter(s) active: Plant

Plant	Storage Location	Unrestricted-Use Stock	Blocked Stock	Quality Inspection Stock	Restricted-Use Stock	Returns	Stock in Transit	Tied Empties Stock	Transfer Stock (Plant)	Transfer Stock (Storage Location)	Valuated GR Blocked Stock
Plant Heidelberg		180,000 EA	0,000 EA	0,000 EA	EA	0,000 EA	0,000 EA	0,000 EA	0,000 EA	0,000 EA	0,000 EA
	Raw Materials	180,000 EA	0,000 EA	0,000 EA	EA	0,000 EA				0,000 EA	
	RM00										

Click on the following icon  to see detailed information about the stock of the GPS bicycle computer in Heidelberg.

On the following screen, you can see a graphical overview.



Click  to return to the SAP Fiori launchpad.



Step 25: Create and Post Supplier Invoice

Task Create a supplier invoice.

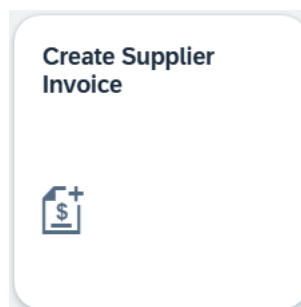
Time 10 min

Description Create a supplier invoice from MagdePedal Tech ### for the current purchase order and the received goods. This invoice is assigned to an existing expense account in the general ledger of your chart of accounts and saved as a payable to MagdePedal Tech ###.

Name (Job) Silvia Cassano (AP Accountant)

To create a supplier invoice, use the *Create Supplier Invoice* app in the *Materials Management* area in the *Accounts Payable Accountant* role.

Initial Screen



On the *Create Supplier Invoice* screen, enter **today's date** as the *invoice date* by pressing F4 and then Enter. Enter your *company code* **DE00**. Now enter **INVOICE.IDGC1###** as the *reference*.

Today's date
DE00
INVOICE.IDGC1###

General Information Purchasing Document References G/L Account Items Tax Payment Unplanned Delivery Costs Note Attachments

Basic Data

Transaction: Invoice	Invoice Date: * 08/11/2025	Invoicing Party: *
Company Code: * DE00 (Global Bike Germany GmbH)	Posting Date: * 08/11/2025	
Gross Invoice Amount: * 0,00 EUR	Reference: INVOICE.IDGC1100	

Choose the *Purchasing Document References* section.

Now enter (or search for) **your purchase order number** in the *Purchase Order/Scheduling Agreement* field. Then press *Enter*.

Your purchase order
number

Make sure that **V1** is entered as the *tax code*.

V1

New Supplier Invoice

Balance Invoicing Party
-7,211.40 EUR 1003092 (MagdePedal Tech 100)

General Information **Purchasing Document References** G/L Account Items Tax Payment Unplanned Delivery Costs Note Attachments

Purchasing Document References

Reference Document Category: Purchase Order/Scheduling Agreement
 Purchase Order/Scheduling Agreement: 4500000027 x [Assignment Options](#) [Advanced Selection](#)

Invoice Items (3) Standard*

[Delete Unselected Items](#) [Change Tax Codes](#)

Invoice Item	Short Text	Purchasing Document/Item	Amount	Quantity	Tax Code	Tax Rate	History	Subseq. Debit...
1	Integrated GPS Bike Computer 100	4500000027/10	1.980,00 EUR	60 EA	V1	19% domestic input tax	View	☐
2	Integrated GPS Bike Computer 100	4500000027/20	2.040,00 EUR	60 EA	V1	19% domestic input tax	View	☐
3	Integrated GPS Bike Computer 100	4500000027/30	2.040,00 EUR	60 EA	V1	19% domestic input tax	View	☐

Your invoicing party and the balance have updated with the invoice items.

Enter the amount of the invoice **EUR 7,211.40** (EUR 6,060.00 plus Taxes) in the *Gross Amount* field

Click [Check](#).

Scroll back to the top of the page. As you can see, the balance is now EUR 0.00.

New Supplier Invoice

Balance Invoicing Party
0,00 EUR 1003092 (MagdePedal Tech 100)

Then press [Simulate](#) to verify that your postings are correct.

< **SAP** Simulation [Change Simulation Currency](#)

Simulation Results

Company Code: DE00 Simulation Currency: EUR

[Overview](#) [Details](#)

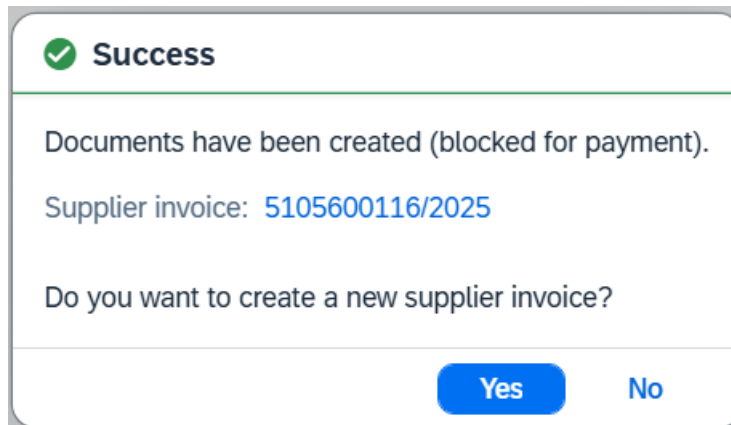
Debit			Credit		
9100000 (GR/IR)	1.980,00 EUR	3300000 (MagdePedal Tech 100 / 39112 Magdeburg)	7.211,40 EUR		
9100000 (GR/IR)	2.040,00 EUR				
9100000 (GR/IR)	2.040,00 EUR				
1400000 (Deductible input tax)	1.151,40 EUR				
Total	7.211,40 EUR	Total	7.211,40 EUR		

Details

Line Items Standard*

Item	Account type	G/L Account	Name	Amount	Tax Code	Company Code
1	K	3300000	MagdePedal Tech 100 / 39112 Magdeburg	-7.211,40 EUR	V1	DE00
2	S	9100000	GR/IR	1.980,00 EUR	V1	DE00
3	S	9100000	GR/IR	2.040,00 EUR	V1	DE00
4	S	9100000	GR/IR	2.040,00 EUR	V1	DE00
5	S	1400000	Deductible input tax	1.151,40 EUR	V1	DE00

Finally, press [Post](#). The system will generate a unique supplier invoice number.



Click **No** to go back to the SAP Fiori launchpad.



Step 26: Display Purchase Order History

Task Display the purchase order history.

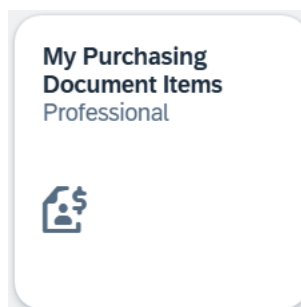
Time 10 min

Description Revisit the status of your order of the bike computers. As a result of the first operation that was carried out for your purchase order number, the Purchase Order Processing tab page is now available in the purchase order.

Name (Job) Wilton Saban (Inventory Supervisor)

To display the purchase order history, in the *Materials Management* area, in the *Inventory Supervisor* role, use the *My Purchasing Document Items - Professional* app.

Initial Screen



The app provides you with an overview of all purchase requisitions, purchase orders, goods receipts, and supplier invoices.

In the *Supplier* field, enter the **number** of your supplier MagdePedal Tech ###. Choose **Go**.

MagdePedal Tech ###

<  My Purchasing Document Items ▾

Standard* ▾

Document Number: Supplier: Material Group: Purchasing Group: Pla

Status: Purchase Order:

Overview Purchase Requisitions Purchase Orders Goods Receipts **Supplier Invoices**

Document Items (1)

Supplier	Purchase Requisition I...	Purchase Order Items	Goods Receipt Items	Supplier Invoice Items
MagdePedal Tech 100 (1003092)	0	3	3	3

Then click the **Purchase Orders** tab.

In the *Purchase Order Items* area, choose  and select the *Delivered Amount* column in the *Display Settings* dialog box.

View Settings Reset

Columns Sort Filter Group

Search Show Selected

- ☐ Columns (10/50)
- ☐ Cost Center
- ☐ Created By
- ☐ Created On
- ☒ Delivered Amount ^ ^ v v

Click **OK**.

SAP My Purchasing Document Items Q

Standard v

Document Number: Supplier: Material Group: Purchasing Group: Plant: Status:

Purchase Order: Go Adapt F

Overview Purchase Requisitions **Purchase Orders** Goods Receipts Supplier Invoices

Purchase Order Items (3) Create Purchase Order Post Goods Receipt Settings (C) Next Delivery D...

Purchase Order Item	Order Type	Material Group	Material	Purchasing Organizati...	Purchasing Group	Plant
Supplier: MagdePedal Tech 100 (1003092)						
4500000027/00010	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	Global Bike Germany (DE00)	Europe (E00)	Plant Heidelberg (HD00)
Next Delivery Quantity: Delivered Amount: 1.980,00 EUR						
4500000027/00020	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	Global Bike Germany (DE00)	Europe (E00)	Plant Heidelberg (HD00)
Next Delivery Quantity: Delivered Amount: 2.040,00 EUR						
4500000027/00030	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	Global Bike Germany (DE00)	Europe (E00)	Plant Heidelberg (HD00)
Next Delivery Quantity: Delivered Amount: 2.040,00 EUR						

As you can see, the purchase order was delivered with several items in the amount of a delivery value of 6,060 EUR.

Now click on the tab **Goods Receipts**. You can see the supplied bike computers there. You see the material document with multiple items created in the system when you confirmed the goods receipt.

Overview Purchase Requisitions Purchase Orders **Goods Receipts** Supplier Invoices

Material Document Items (3) Settings (C) Next Delivery D...

Material Document Item	Material	Purchase Order Item	Movement Type	Delivered Quantity	Ordered Quantity
Supplier: MagdePedal Tech 100 (1003092)					
5000000055/0001/2025	Integrated GPS Bike Computer 100 (IDGC1100)	4500000027/00010	GR goods receipt (101)	60 EA	60 EA
Posting Date: 08/11/2025 Status: Completed					
5000000055/0002/2025	Integrated GPS Bike Computer 100 (IDGC1100)	4500000027/00020	GR goods receipt (101)	60 EA	60 EA
Posting Date: 08/11/2025 Status: Completed					
5000000055/0003/2025	Integrated GPS Bike Computer 100 (IDGC1100)	4500000027/00030	GR goods receipt (101)	60 EA	60 EA
Posting Date: 08/11/2025 Status: Completed					

On the *Supplier Invoice* tab page, you can see further activities that were carried out with reference to your purchase order. Click **Lieferantenrechnungen**.

Overview Purchase Requisitions Purchase Orders Goods Receipts **Supplier Invoices**

Invoice Items (3)

Invoice Item	Purchase Order Item	Item Description	Invoiced Quantity	Invoiced Value	Account Assignment Quantity
Supplier: MagdePedal Tech 100 (1003092)					
5105600116/000001/2025	4500000027/00010		60 EA	1.980,00 EUR	0 EA
Account Assignment Net Value: 0,00 EUR Cost Center: Status: Posted					
5105600116/000002/2025	4500000027/00020		60 EA	2.040,00 EUR	0 EA
Account Assignment Net Value: 0,00 EUR Cost Center: Status: Posted					
5105600116/000003/2025	4500000027/00030		60 EA	2.040,00 EUR	0 EA
Account Assignment Net Value: 0,00 EUR Cost Center: Status: Posted					

The invoice has been created. Click on one of the billing lines of your Integrated GPS Bike Computer. This takes you to the financial document that was created when you created the supplier invoice.

< **SAP** Supplier Invoice ▾ Q

Supplier Invoice

5105600116/2025

Gross Invoice Amount Invoicing Party Invoice Status Payment Status
7.211,40 EUR **1003092 (MagdePedal Tech 100)** **Posted** **Blocked for Payment**

General Information Purchasing Document References Tax Payment Unplanned Delivery Costs Note Attachments

Basic Data

Transaction: Invoice	Invoice Date: 08/11/2025	Invoicing Party: 1003092 (MAGDEPEDAL TECH 100)
Company Code: DE00 (Global Bike Germany GmbH)	Posting Date: 08/11/2025	Partner Bank Type: -
Gross Invoice Amount: 7.211,40 EUR	Reference: INVOICE.IDGC1100	IBAN: -
		SWIFT/BIC:

Click **SAP** to return to the SAP Fiori launchpad.

□

Step 27: Display Document Flow

Task Display the document flow.

Time 5 min

Description Check the goods receipt document and the document flow of your material.

Name (Job) Wilton Saban (Inventory Supervisor)

Check the goods receipt document and the document flow of your material.

Scenario

To display the document history, use the *Material Documents Overview* app in the *Inventory Supervisor* role in the *Materials Management* area.

Initial Screen



The app provides an overview of material documents. You can find your purchase order by using the assigned number. To do this, enter your material number **IDGC1###** in the *Material* field. If you do not see the search fields, click  to expand the search fields.

IDGC1###

After entering the search term, click . Then click Settings . In the *view settings*, activate the **Stock Type (Stock Transfer)** column. Confirm with .

Stock Type (Stock Transfer).

SAP Material Documents Overview

Standard

Stock Change: All Plant: Storage Location: Stock Type: Material Document:

Material Document Year: =2025 Material: Integrated GP... Posting Date: Document Date: Go Adapt Filters (3)

Material Documents (4)

Material Document	Material Doc...	Material	Plant	Storage Location
4900038111	2025	Integrated GPS Bike Computer 100 (IDGC1100)	Plant Heidelberg (HD00)	Raw Materials (RM00)
Posting Date: 08/11/2025 Stock Type: Stock in Quality Inspection (02) Stock Type (Transfer): Unrestricted-Use Stock (01)				
5000000055	2025	Integrated GPS Bike Computer 100 (IDGC1100)	Plant Heidelberg (HD00)	Raw Materials (RM00)
Posting Date: 08/11/2025 Stock Type: Stock in Quality Inspection (02) Stock Type (Transfer): not stock relevant				
5000000055	2025	Integrated GPS Bike Computer 100 (IDGC1100)	Plant Heidelberg (HD00)	Raw Materials (RM00)
Posting Date: 08/11/2025 Stock Type: Stock in Quality Inspection (02) Stock Type (Transfer): not stock relevant				
5000000055	2025	Integrated GPS Bike Computer 100 (IDGC1100)	Plant Heidelberg (HD00)	Raw Materials (RM00)
Posting Date: 08/11/2025 Stock Type: Stock in Quality Inspection (02) Stock Type (Transfer): not stock relevant				

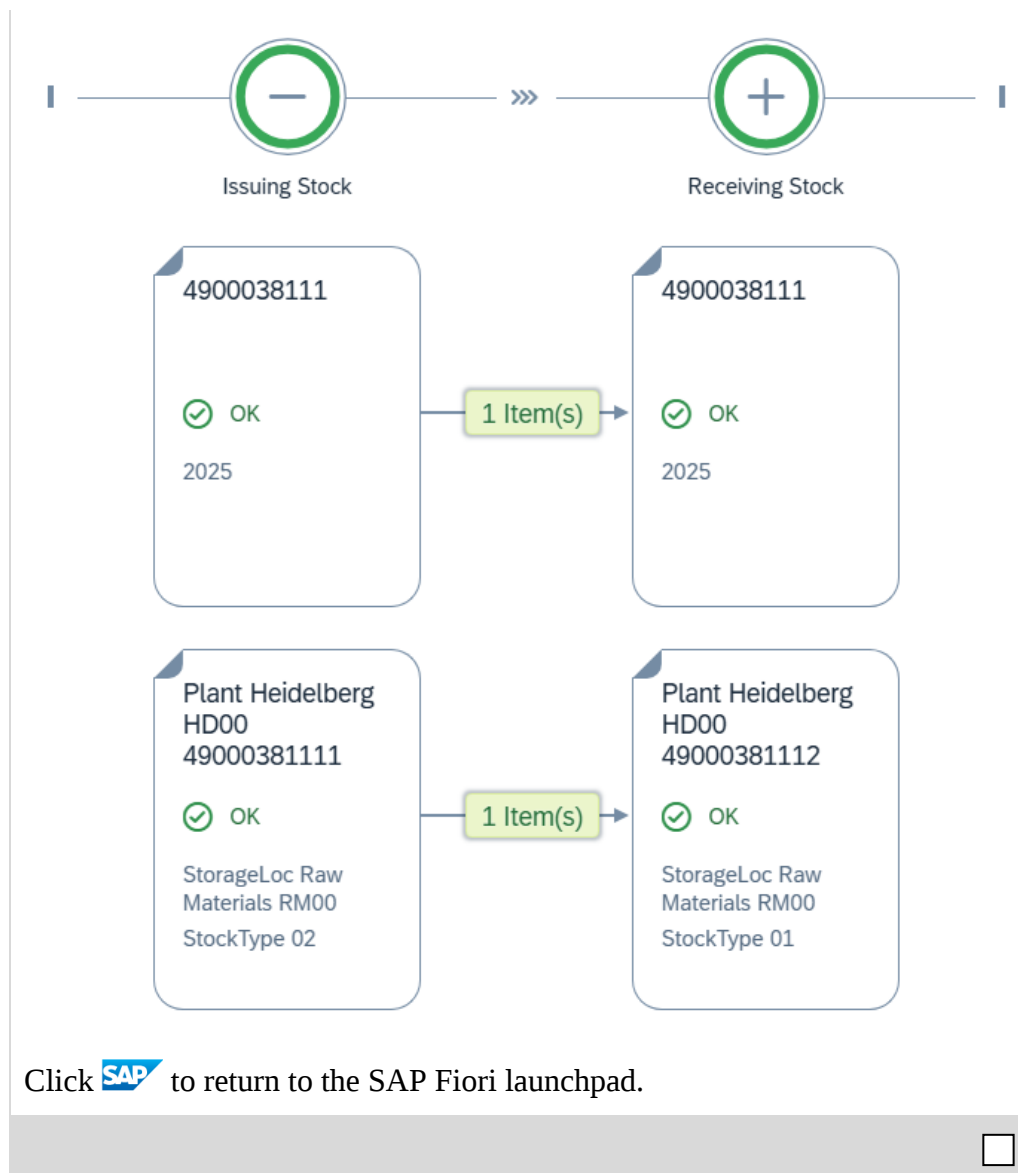
A new material document is created for each material movement. You see the material documents with your material IDGC1####.

On the one hand, the documents for the goods receipt for each item into stock in quality inspection. You can also see a document that was generated by the transfer posting of the material to unrestricted-use stock.

Identify the line with the stock type (Stock Transfer): Unrestricted-Use Stock (01).

Click on this line. You can now see the general information about the document from the step where you confirmed the goods receipt.

Click the *Process Flow* area. In the process flow, you can see the transfer posting of the material from stock to quality inspection (02) to unrestricted-use stock (01).



Step 28: Post Outgoing Payment

Task Post the payments to a supplier.

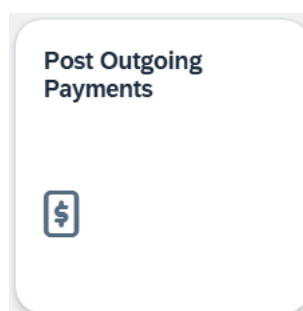
Time 10 min

Description Issue a payment to your supplier MagdePedal Tech ### to pay your liabilities. Note that the total amount matches your invoice. The created posting will clear the payable and debit your bank account.

Name (Job) Silvia Cassano (AP Accountant)

To post the payment to a supplier, use the *Post Outgoing Payments* app in the *Materials Management* area in the *Accounts Payable Accountant* role.

Initial Screen



On the *Post Outgoing Payments* screen, choose Global Bikes Germany (**DE00**) as the company code, the **current date** as the posting date and journal entry date, **INVOICE.IDGC###** as the reference, and the **current period**. For G/L account, enter **1810000** (Bank 1) and the amount **EUR 7,211.40**.

DE00
current date
INVOICE.IDGC###
Current Period
1810000
EUR 7,140.00.

Ensure that the journal entry type **KZ (Vendor Payment)** is selected. Check your entries using the following screenshot.

KZ (Vendor Payment)

Under *Open Item Selection*, enter your vendor number for **MagdePedal Tech ###** as the account (use the F4 help if necessary).

MagdePedal Tech ###

The screenshot shows the SAP 'Post Outgoing Payments' app interface. At the top, there's a navigation bar with the SAP logo and the title 'Post Outgoing Payments'. Below this, a 'Payment' section is expanded, showing three main areas: General Information, Bank Data, and Open Item Selection. In the General Information section, fields include Company Code (DE00), Posting Date (08/11/2025), Journal Entry Date (08/11/2025), Value Date (08/11/2025), Reference (INVOICE.IDGC100), Period (08), and Journal Entry Type (KZ). The Bank Data section includes House, Bank/Account, G/L Account (1810000 (Bank 1)), Amount (7.211,40 EUR), Fees (0,00 EUR), Assignment, Exchange Rate, and Translation Date (08/11/2025). The Open Item Selection section shows Account Type/Account ID (Supplier 1003092) and a 'Show Items' button. A balance indicator at the top right shows 'Balance: 0,00 EUR'.

Click **Show Items**.

On the upper right, you can see that the open balance is USD 7,211.40.

On the *Open Items* tab page, you see the invoice for the delivery.

Open AP/AR Items (1) Standard* Search Select More Clear All 									
Compa...	Account	Journal En...	Journal ...	Item Text	Journal En...	Net Due D...	Amount (EUR)	Assignment	Clear
DE00	1003092	5105600116	RE		08/11/2025	08/11/2025	-7.211,40		Clear >>

To pay the invoice, click on the button Clear >>

Items to Be Cleared (1) Standard Remove All 					
Remove	Journal Entry	Open Amount (EUR)	Allocated Amount	Discount Amount	Invoice Reference
<<	5105600116	-7.211,40 i	-7.211,40	0,00	

Note the confirmation that the item is now cleared.

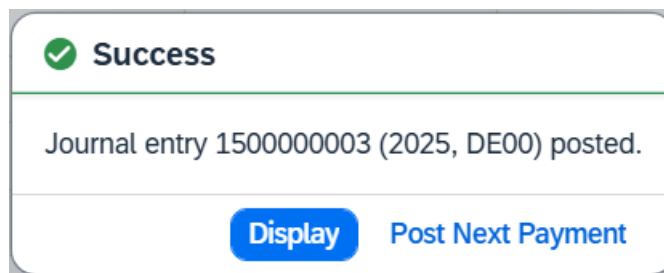
Clear



The open balance is now EUR 0.00. **Saldo: 0,00 EUR**

Press Post to post your payments to MagdePedal Tech ###. The system will assign a unique document number to your supplier payment. Confirm any error messages.

You can use Display to view, edit, or cancel the booking you have made.



Click Display.

<  Manage Journal Entries ▾

Journal Entry (1500000003) - Entry View ⓘ

Header 0 Attachments 0 Notes 8 Related Documents

Journal Entry Date:
08/11/2025

Posting Date:
08/11/2025

Posting Period:
8 / 2025

Journal Entry Type:
KZ (Vendor Payment)

Company Code:
DE00 (Global Bike Germany GmbH)

Transaction Currency:
European Euro (EUR)

Reference:
INVOICE.IDGC100

Reference Document Type:
BKPF (Actg Doc.Direct Inpt)

Reference Key:
[1500000003DE002025](#)

Header Text:
-

Journal Entry Created By:
Learn-501 Learn-501 (LEARN-501)

Entered At (Local Time):
08/11/2025, 03:21 PM

[Show More](#)

Line Items (2) [Standard](#) ▾ [T-Account View](#)   

Posting View I...	G/L Account	Profit Center	Debit	Credit
000001	1810000 (Bank 1)		0,00 EUR	7.211,40 EUR >
000002	3300000 (Trade payables)		7.211,40 EUR	0,00 EUR >

EUR 7,211.40 is debited from the bank (account 1810000) and posted at the same time as payment of payables from goods and services (account 33000000). This offsets the supplier's debt and reduces the bank balance accordingly.

Click  to return to the SAP Fiori launchpad.



Step 29: Display Vendor Balance

Task Display the balances of a vendor.

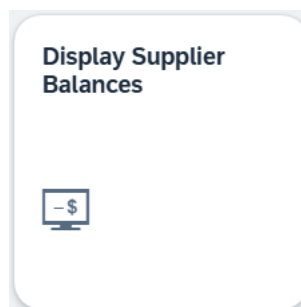
Time 5 min

Description View and confirm the activities and related balances related to your supplier MagdePedal Tech ###. You should see a debit and a credit posting generated by the invoice and the issuance of a payment to pay the payables to MagdePedal Tech ###.

Name (Job) Shuyuan Chen (Head of Accounting)

To display the balances of a supplier, you use the *Display Supplier Balances* app in the *Materials Management* area in the *Head of Accounting* role.

Initial Screen



Use the  in the Supplier field to find the number of your vendor. In the Search Term field, enter your number ### and in the City field, enter **Heidelberg**. Press **Go**.

###

Select your supplier **MagdePedal Tech ###**.

Supplier

[Search and Select \(1\)](#) [Define Conditions](#)

Suppliers (General)

Items (167)

☐	Search Term	Country/Region Key	Postal Code	City	Supplier Name
☒	100	DE	39112	MAGDEBURG	MAGDEPEDAL TECH 100
☐	100	US	30319	ATLANTA	OLYMPIC PROTECTIVE GEAR
☐	100	US	45202	CINCINNATI	BOOMTOWN TIRE & WHEEL

Confirm with **OK**. Back on the *Display Supplier Balances* screen, choose **DE00** as the company code and the **current year** as the fiscal year.

DE00
Current Year

<  Display Supplier Balances ▾

Standard * ▾

Supplier:

Company Code: *

Fiscal Year: *

Comparison Fiscal Year:

Then display the balances by choosing . You get a similar overview.

Balances Special G/L Compare

Period	Debit		Credit		Balance		Cumulative Balance		Purchases	
Opening Balance	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
01	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
02	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
03	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
04	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
05	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
06	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
07	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
08	7.211,40	EUR	7.211,40	EUR	0,00	EUR	0,00	EUR	-7.211,40	EUR
09	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
10	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
11	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
12	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
13	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
14	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
15	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
16	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR	0,00	EUR
Total	7.211,40	EUR	7.211,40	EUR	0,00	EUR	0,00	EUR	-7.211,40	EUR

Click  to return to the SAP Fiori launchpad.



Step 30: Display Purchase Order History

Task Display the purchase order history.

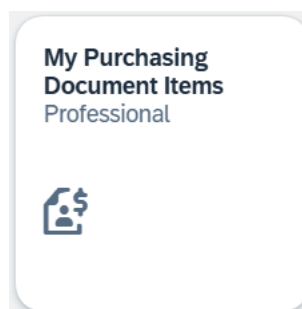
Time 5 min

Description Revisit the status of your order of the bike computers. The Purchase Order History tab page was updated by further postings.

Name (Job) Wilton Saban (Inventory Supervisor)

To display the purchase order history, in the *Materials Management* area, in the *Inventory Supervisor* role, use the *My Purchasing Document Items - Professional* app.

Initial Screen



The app provides you with an overview of all purchase requisitions, purchase orders, goods receipts, and supplier invoices.

In the *Supplier* field, enter the **number** of your supplier MagdePedal Tech ### and choose **Go**.

MagdePedal Tech ###

< **SAP** My Purchasing Document Items ▾

Standard * ▾

Document Number: Supplier: Material Group: Purchasing Group: Plant:

Status: Purchase Order: **Go**

Overview Purchase Requisitions Purchase Orders Goods Receipts **Supplier Invoices**

Document Items (1)

Supplier	Purchase Requisition I...	Purchase Order Items	Goods Receipt Items	Supplier Invoice Items
MagdePedal Tech 100 (1003092)	0	3	3	3

Click **Purchase Orders**.

You may need to scroll down to see your supplier and purchase order.

Overview	Purchase Requisitions	Purchase Orders	Goods Receipts	Supplier Invoices
Purchase Order Items (3) Create Purchase Order Post Goods Receipt				
Purchase Order Item	Order Type	Material Group	Material	
Supplier: MagdePedal Tech 100 (1003092)				
4500000027/00010	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	>
Purchasing Organization: Global Bike Germany (DE00) Purchasing Group: Europe (E00) Plant: Plant Heidelberg (HD00) Next Delivery Date: Next Delivery Quantity:				
4500000027/00020	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	>
Purchasing Organization: Global Bike Germany (DE00) Purchasing Group: Europe (E00) Plant: Plant Heidelberg (HD00) Next Delivery Date: Next Delivery Quantity:				
4500000027/00030	Standard PO (NB)	Raw Materials (RAW)	Integrated GPS Bike Computer 100 (IDGC1100)	>
Purchasing Organization: Global Bike Germany (DE00) Purchasing Group: Europe (E00) Plant: Plant Heidelberg (HD00) Next Delivery Date: Next Delivery Quantity:				

As you can see, no open quantities are displayed under Next Delivery Quantity.

Click **Goods Receipts**. There, you can see the delivered bicycle computers divided by item.

Overview	Purchase Requisitions	Purchase Orders	Goods Receipts	Supplier Invoices
Material Document Items (3)				
Material Document Item	Material	Purchase Order Item	Movement Type	
Supplier: MagdePedal Tech 100 (1003092)				
5000000055/0001/2025	Integrated GPS Bike Computer 100 (IDGC1100)	4500000027/00010	GR goods receipt (101)	>
Delivered Quantity: 60 EA Ordered Quantity: 60 EA Posting Date: 08/11/2025 Status: Completed				
5000000055/0002/2025	Integrated GPS Bike Computer 100 (IDGC1100)	4500000027/00020	GR goods receipt (101)	>
Delivered Quantity: 60 EA Ordered Quantity: 60 EA Posting Date: 08/11/2025 Status: Completed				
5000000055/0003/2025	Integrated GPS Bike Computer 100 (IDGC1100)	4500000027/00030	GR goods receipt (101)	>
Delivered Quantity: 60 EA Ordered Quantity: 60 EA Posting Date: 08/11/2025 Status: Completed				

In the Supplier Invoice overview, you can see further activities that have been performed with reference to your purchase order.

Click **Supplier Invoices**. The invoice has been created and has the status *Posted* as a result of the payment.

Overview
Purchase Requisitions
Purchase Orders
Goods Receipts
Supplier Invoices

Invoice Items (3)

Invoice Item	Purchase Order Item	Item Description	Invoiced Quantity	Invoiced Value
Supplier: MagdePedal Tech 100 (1003092)				
5105600116/000001/2025	4500000027/00010		60 EA	1.980,00 EUR >
Account Assignment Quantity: 0 EA				
Account Assignment Net Value: 0,00 EUR				
Cost Center:				
Status: Posted				
5105600116/000002/2025	4500000027/00020		60 EA	2.040,00 EUR >
Account Assignment Quantity: 0 EA				
Account Assignment Net Value: 0,00 EUR				
Cost Center:				
Status: Posted				
5105600116/000003/2025	4500000027/00030		60 EA	2.040,00 EUR >
Account Assignment Quantity: 0 EA				
Account Assignment Net Value: 0,00 EUR				
Cost Center:				
Status: Posted				

To display more information about the documents, you can click on the relevant row. This takes you to the financial document that was created when you created the supplier invoice.

Click  to return to the SAP Fiori launchpad.

Step 31: Display Balance List and Line Item List

Task Display the balance and line item list of the general ledger.

Time 5 min

Description Use G/L account numbers to display the activities and related balances for some accounts in your general ledger.

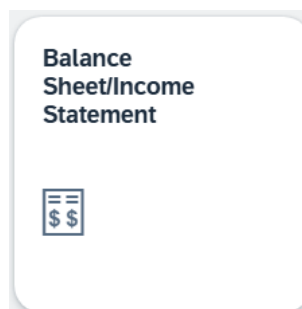
Name (Job) Shuyuan Chen (Head of Accounting)

Use G/L account numbers to display the activities and related balances for some accounts in your general ledger.

Scenario

To display the balance and line item list, use the *Balance Sheet/Income Statement* app the *Materials Management* area in the *Head of Accounting* role.

Initial Screen



On the *Balance Sheet* screen, enter **DE00** (Global Bikes Germany) for the company code, **0L** for the ledger, and **G###** for the statement version. Make sure that the statement type is **Normal (Actual - Actual)** and the End Period is **Current Period/Year** and Comparison Period **01/2016**. Compare your screen with the following screenshot.

DE00
0L
G###
Normal (Actual - Actual)
Current Period/Year
1/2016

Choose **Go**. In the view, you can see all items of the accounts of Global Bikes in Germany. Expand *Assets* and the *Intangible Assets* item below.

All Accounts Balance Sheet Profit & Loss Unassigned Accounts (5) Notes					
Hierarchy Node		Search Q v u Standard f2 f3			
Description	G/L Account	Period Balance	Comparison Balance...	Absolute Difference	Relative Difference
▼ 10000000 (Assets)		-191.805.934,96 EUR	0,00 EUR	-191.805.934,96 EUR	0,0
▼ 1000000 (Assets)		-191.805.934,96 EUR	0,00 EUR	-191.805.934,96 EUR	0,0
▼ 1010000 (Capital Assets)		3.000,00 EUR	0,00 EUR	3.000,00 EUR	0,0
Technical equipment and machinery	400000	3.000,00 EUR	0,00 EUR	3.000,00 EUR	0,0
▼ 1020000 (Current Assets)		-191.808.934,96 EUR	0,00 EUR	-191.808.934,96 EUR	0,0
Inventories of raw materials, consumables and supp	1000000	1.230.248,18 EUR	0,00 EUR	1.230.248,18 EUR	0,0
Work in progress (inventories)	1040000	563.838.437,10 EUR	0,00 EUR	563.838.437,10 EUR	0,0
Finished goods and merchandise (inventories)	1100000	-759.611.736,80 EUR	0,00 EUR	-759.611.736,80 EUR	0,0
Finished goods (inventories)	1110000	-134.716,60 EUR	0,00 EUR	-134.716,60 EUR	0,0
Merchandise inventories	1140000	2.516.450,00 EUR	0,00 EUR	2.516.450,00 EUR	0,0
Trade receivables	1200000	2.000,00 EUR	0,00 EUR	2.000,00 EUR	0,0
Deductible input tax	1400000	3.319,87 EUR	0,00 EUR	3.319,87 EUR	0,0
Bank	1800000	-3.000,00 EUR	0,00 EUR	-3.000,00 EUR	0,0
Bank 1	1810000	221.354,29 EUR	0,00 EUR	221.354,29 EUR	0,0
CC Clear DE00	9320000	128.709,00 EUR	0,00 EUR	128.709,00 EUR	0,0
> 20000000 (Liabilities and Equity)		191.805.934,96 EUR	0,00 EUR	191.805.934,96 EUR	0,0
> 50000000 (Profit & Loss Statement)		1.275.835,76 EUR	0,00 EUR	1.275.835,76 EUR	0,0
> 60000000 (PnL Result)		-1.275.835,76 EUR	0,00 EUR	-1.275.835,76 EUR	0,0
> 80000000		7.680,68 EUR	0,00 EUR	7.680,68 EUR	0,0

Note Since all participants in your course book to the same bank account, the number you see next to the bank account 1810000 used is different.

Note The procurement process of the bicycle computers is completed at this point.

Click  to return to the SAP Fiori launchpad.



Process Progress

The procurement process of the bicycle computers is completed at this point.

Process Progress

Since the procurement process of the bike computer was completed with the previous step, the production planning process can now continue.

Step 32: Create Routing GCBK3### (from template)

Task Create Routing GCBK3### (from template)

Time 15 min

Description Now also add a routing and a BOM for your material GCBK3###. Copy your material GCBK2###.

Name (Job) Jun Lee (Production Manager)

To create the routing, use the Create Routing app in the *Production Planning and Execution* area in the *Production Manager* role.

Initial Screen

On the *Create Routing: Initial Screen*, enter material **GCBK3###** and plant **HD00**.

Material: GCBK3100
 Plant: HD00
 Sales Document: Sales Document Item:
 WBS Element:
 Group:

Validity
 Change Number:
 Key Date: 08/11/2025
 Revision Level:

Additional data
 Profile:

Choose

GCBK3###
HD00

In the dialog box that appears, select **Routing** and choose ☒.

Routing

In the *Template Selection* dialog box, enter the mountain bike **GCBK2###** as the *material* and enter **HD00** as the *plant*.

GCBK2###
HD00

Create Using Copy Function: Select Object to be Copied

Material:	GCBK2100		
Plant:	HD00		
Sales Document:		Item:	
WBS Element:			
Group:			
Key Date:	08/11/2025		

Click .

On the *Create Routing: Header Data Check* screen, use the F4 help for the *Overall Status* field and select **4 (Released (General))**.

4 (Released (general))

<  Create Routing: Header Data Check ▾

Menu ▾

Group:		Group Counter:	1
Material:	GCBK3100	Carbon Global Sport & Commute Bike	

Task List

Group:	
Group Counter:	1
Plant:	HD00
Long Text Exists:	☐

Production line

Line Hierarchy	
----------------	--

General Data

Deletion Flag:	☐
Usage:	1 Production
Overall Status:	4

Press *Enter*.

< **SAP** Create Routing: Operation Overview ▾

Menu ▾

Group: _____ Group Counter: 1

Material: GCBK3100 Carbon Global Sport & Commute Bike

Sequence: 0 Sequence Desc.: _____

Operation Overview

Ope...	SOp	Work Ce...	Plant	* C...	Standard...	Description	Lo...	PRT	Cl...	O...	Pe...	Cu...	Su...	Base
☐	0010	ASSY1000	HD00	ASSY		Material staging	☐	☐	☐	☐	☐		☐	15
☐	0020	ASSY1000	HD00	ASSY		Attach seat to frame	☐	☐	☐	☐	☐		☐	1
☐	0030	ASSY1000	HD00	ASSY		Attach handle bar assembly	☐	☐	☐	☐	☐		☐	1
☐	0040	ASSY1000	HD00	ASSY		Attach derailleur gear assm. to wheel	☐	☐	☐	☐	☐		☐	1
☐	0050	ASSY1000	HD00	ASSY		Attach front and rear wheels to chain	☐	☐	☐	☐	☐		☐	1
☐	0060	ASSY1000	HD00	ASSY		Attach brakes	☐	☐	☐	☐	☐		☐	1
☐	0070	ASSY1000	HD00	ASSY		Attach peddles	☐	☐	☐	☐	☐		☐	1
☐	0080	INSP1000	HD00	ASSY		Test bike	☐	☐	☐	☐	☐		☐	1
☐	0090	PACK1000	HD00	ASSY		Disassemble	☐	☐	☐	☐	☐		☐	1
☐	0100	PACK1000	HD00	ASSY		Pack bike	☐	☐	☐	☐	☐		☐	1
☐	0110	PACK1000	HD00	ASSY		Move to storage	☐	☐	☐	☐	☐		☐	15

Choose **Allocation** to display a list of all components. If the button is not displayed directly in the top bar, you can find the entry in the pull-down menu under *More* → *Allocation*.

Since a BOM does not yet exist for your material, the system now asks you whether you want to create it. Confirm the message *Material component assignment* with **Yes**.

Yes

In the *Usage* field, enter **1 (Production)**.

1 (Production)

Again, use the BOM of material GCBK2### as a template. Click .

< **SAP** Create material BOM: Initial Screen ▾

Menu ▾

Material: GCBK3100

Carbon Global Sport & Commute Bike

Plant: HD00 Plant Heidelberg

BOM Usage: * 1 Production

Alternative BOM:

In the *Copy from* dialog box, enter material **GCBK2###**. And click .

Select all BOM items using the button  and then choose .

< **SAP** Create material BOM: Copy From Q

Menu Subitems Validity

Material: GCBK2100 Global Endurance Sport & Commute Bike
 Plant: HD00 Plant Heidelberg
 Alternative BOM: 1

BOM items

Item	ICt	O.	Component	Component descrip...	Quantity	UoM	Asm	Sls	Valid From	Valid to	Item ID
☒	0010	L	M	TRWA1100	Touring Aluminum W...	2	EA	☒	08/11/2025	12/31/9999	A0000001
☒	0020	L	M	TRFR2100	Touring Frame-Silver	1	EA	☐	08/11/2025	12/31/9999	A0000002
☒	0030	L	M	DGAM1100	Derailleur Gear Asse...	1	EA	☐	08/11/2025	12/31/9999	A0000003
☒	0040	L	M	TRSK1100	Touring Seat Kit	1	EA	☐	08/11/2025	12/31/9999	A0000004
☒	0050	L	M	TRHB1100	Touring Handle Bar	1	EA	☐	08/11/2025	12/31/9999	A0000005
☒	0060	L	M	PEDL1100	Pedal Assembly	1	EA	☐	08/11/2025	12/31/9999	A0000006
☒	0070	L	M	CHAN1100	Chain	1	EA	☐	08/11/2025	12/31/9999	A0000007
☒	0080	L	M	BRKT1100	Brake Kit	1	EA	☐	08/11/2025	12/31/9999	A0000008
☒	0090	L	M	WDOC1100	Warranty Document	1	EA	☐	08/11/2025	12/31/9999	A0000009
☒	0100	L	M	PCKG1100	Packaging	1	EA	☐	08/11/2025	12/31/9999	A0000010
☒	0110	L	M	PUMP1100	Air Pump	1	EA	☐	08/11/2025	12/31/9999	00000011
☒	0120	L	M	RKIT1100	Repair Kit	1	EA	☐	08/11/2025	12/31/9999	00000012
☒	0130	L	M	IDGC1100	Integrated GPS Bike...	1	EA	☐	08/11/2025	12/31/9999	00000013

Change the component of the first line from TRWA1### to **CCWA1###** (Carbon Composite Wheel Assembly). Confirm with *Enter*.

CCWA1###

Material: GCBK3100 Carbon Global Sport & Commute Bike
 Plant: HD00 Plant Heidelberg
 Alternative BOM: 1

[Position](#) [Effectivity Initial Screen](#)

Material Document General

Item	ICt	Component	Component description	Quantity	UoM	Asm
☐	0010	L	CCWA1100	Carbon Composite Wheel Assembly	2	EA ☒
☐	0020	L	TRFR2100	Touring Frame-Silver	1	EA ☐

Click < (back).

You get an overview of all used components, but they are not currently assigned to a specific activity.

Material: GCBK3100 Carbon Global Sport & Commute Bike
 Plant: HD00
 Group: Sequence: 0
 BOM: 00038022 Alt. BOM: 1

Item Overview

Ph...	Le...	Path	Ite...	Component	Quantity	Sort String	Un...	It...
☐	0	0	0010	CCWA1100	2		EA	L
☐	0	0	0020	TRFR2100	1		EA	L
☐	0	0	0030	DGAM1100	1		EA	L
☐	0	0	0040	TRSK1100	1		EA	L
☐	0	0	0050	TRHB1100	1		EA	L
☐	0	0	0060	PEDL1100	1		EA	L
☐	0	0	0070	CHAN1100	1		EA	L
☐	0	0	0080	BRKT1100	1		EA	L
☐	0	0	0090	WDOC1100	1		EA	L
☐	0	0	0100	PCKG1100	1		EA	L
☐	0	0	0110	PUMP1100	1		EA	L
☐	0	0	0120	RKIT1100	1		EA	L
☐	0	0	0130	IDGC1100	1		EA	L

Select the line of component **CCWA1###** and press [New Assignment](#). Alternatively, you can find the entry in the pull-down menu under *More* → *Reassign*.

New Assignment
✕

Assign to

Activity:
Sequence:

✓
[Oper./act. list](#)
🔍
✕

Assign your component to activity **0010**. Press ✓

0010

You can now see that the component has been assigned to operation 0010.

Item Overview										
	Ph...	Le...	Path	Ite...	Component	Quantity	Sort String	Un...	It...	Ba...
☐	☐	0	0	0010	CCWA1100	2		EA	L	☐
☐	☐	0	0	0020	TRFR2100	1		EA	L	☐

Repeat this process for all other components and assign them to the operations specified below.

The last assignments belong to the same transaction. Here, the affected components can also be selected together and assigned to the operation together.

Operation	Component	
0010	CCWA1###	10
0020	TRFR1###	20
0040	DGAM1###	30
0020	TRSK1###	40
0030	TRHB1###	50
0070	PEDL1###	60
0050	CHAN1###	70
0060	BRKT1###	80
0100	WDOC1###	90
0100	PCKG1###	100

0100	RKIT1###	110
0100	PUMP1###	120
0030	IDGC1###	130

Finally, each component is assigned to an activity.

Now set the checkmark for a backflush for all components.

Material: GCBK3000 Carbon Global Sport & Commute Bike
Werk: HD00
Plangruppe: Folge: 0
Stückliste: 00038018 StAlt.: 1

Positionsübersicht

	Du...	St...	Weg	Pos...	Komponente	Menge	Sortierbegriff	M...	P...	Ret...	Vorg...	Folge	K..	Materialkurztext
☐	☐	0	0	0010	CCWA1000	2		EA	L	☒	0010	0		Kohlefaserrad Bauteile
☐	☐	0	0	0020	TRFR1000	1		EA	L	☒	0020	0		Touring Bike Rahmen - Schwarz
☐	☐	0	0	0030	DGAM1000	1		EA	L	☒	0040	0		Kettenschaltung Bauteile
☐	☐	0	0	0040	TRSK1000	1		EA	L	☒	0020	0		Touring Bike Sitz Bauteile
☐	☐	0	0	0050	TRHB1000	1		EA	L	☒	0030	0		Touring Bike Lenker
☐	☐	0	0	0060	PEDL1000	1		EA	L	☒	0070	0		Pedal Bauteile
☐	☐	0	0	0070	CHAN1000	1		EA	L	☒	0050	0		Kette
☐	☐	0	0	0080	BRKT1000	1		EA	L	☒	0060	0		Bremsanlage
☐	☐	0	0	0090	WDOC1000	1		EA	L	☒	0100	0		Garantiedokument
☐	☐	0	0	0100	PCKG1000	1		EA	L	☒	0100	0		Verpackung
☐	☐	0	0	0110	PUMP1000	1		EA	L	☒	0100	0		Luftpumpe
☐	☐	0	0	0120	RKIT1000	1		EA	L	☒	0100	0		Flickzeug
☐	☐	0	0	0130	IDGC1000	1		EA	L	☒	0030	0		Integrierter GPS-Fahrradcomputer 000

Apply your changes with **Save**. The system displays a message that the routing has been saved.

Click  to return to the SAP Fiori launchpad.



Step 33: Create Production Version

Task Create Production Version

Time 5 min

Description To convert the planned orders of the bicycles into production orders for the production planning process, the view of work scheduling must be added to the material master and the production version must be set. In this step, generate the production version.

Note The production version has already been generated for materials GCBK1### and GCBK2### by dispatching the production version in step 12. A production version was automatically created and inserted into the corresponding views of the material master.

However, since the MRP run (step 13) for material GCBK3### should be simplified, the production version of this material is only added manually at this point in an alternative way. You could also use the Schedule Mass Creation of Production Version app again.

Name (Job) Jun Lee (Production Manager)

To enter the production version in the material master, use the search bar  to find and execute the app *Manage Production Versions - C223*.

Initial Screen

Manage Production Versions - C223

Note A production version determines which BOM and routing are used to produce an article. It is important when converting planned orders into production orders because it enables a precise selection of manufacturing processes.

In the *Production Version: Mass Processing* view, enter **HD00** as the plant and **GCBK3###** as the material. Press *Enter*.

 HD00
GCBK3###

<  **Production Version: Mass Processing** ▾

Menu ▾  

Selection Conditions

Plant:  Plant Heidelberg

Material:

MRP Controller: Task List Type: ▾

Key date: Group:

Production Line:

In the *Production Version* table, enter material **GCBK3###**, as production version **0001**, as text for production version as **GCBK3### production**

 GCBK3###
0001

version and as *Valid from today* and *Valid to 31.12.9999*, and *To lot size 99.999.999,000*.

GCBK3### production
version
Today
31.12.9999
99,999,999,000

Choose *Enter* to confirm your entries.

<  Production Version: Mass Processing ▾

Menu ▾  

Selection Conditions

Plant: HD00  Plant Heidelberg

Material: GCBK3100

MRP Controller: Task List Type: ▾

Key date: 08/11/2025 Group: 50000009

Production Line:

       Consistency Check Assign Change Number Document

Production Versions

	Plant	Material	Pro...	Production Version T	Lock	M...	P...	C...	Test...	Check date	Valid from	Valid To
☐	HD00	GCBK3100	0001	GCBK3100 production ver...	Not... ▾						08/12/2025	12/31/9999

Click .

Confirm the message whether you want to save the production version by choosing *Yes*.

Click  to return to the SAP Fiori launchpad.



Step 34: Display Material

Task Display the material master of your GCBK3####.

Time 5 min

Description Display the material master of your GCBK3#### and check whether the previously generated production version was added automatically.

Name (Job) Sergey Petrov (Warehouse Employee)

To display the material, use the *Display Material* app in the *Materials Management* area in the *Warehouse Employee* role.

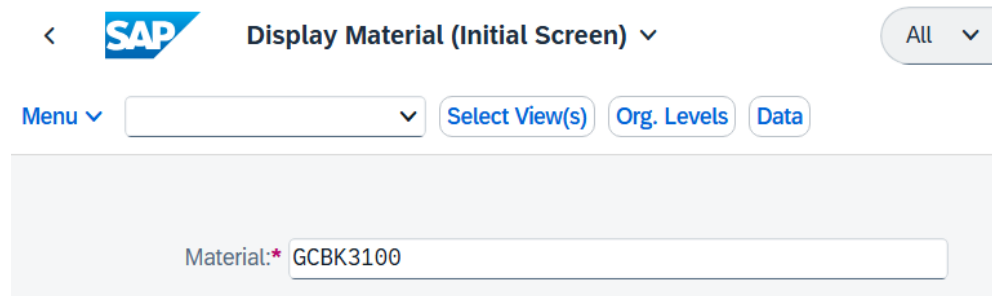
Initial Screen

Note If the app is not displayed, search for it using the search bar .

Display Material

In the *Display Material (Initial Screen)* view, for material enter **GCBK3####**. Click **Continue**.

GCBK3####



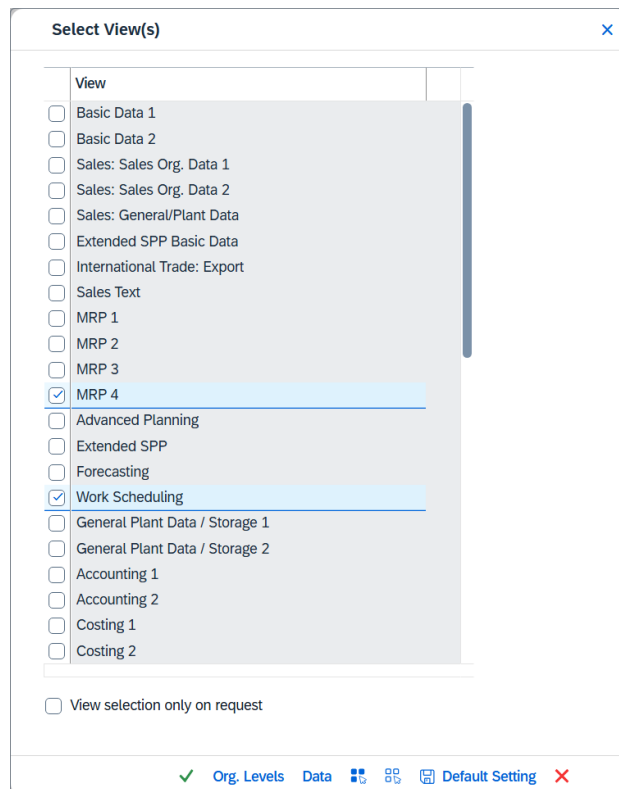
< **SAP** Display Material (Initial Screen) ▾ All ▾

Menu ▾ ▾ Select View(s) Org. Levels Data

Material: * GCBK3100

Select the **MRP 4** and **Work Scheduling** views. Confirm with .

MRP 4 Work scheduling



In the *Organizational Levels* dialog box, enter **HD00** as the plant and choose *Enter*.

HD00

In the *Work Scheduling* view and the *MRP 4* view, check that the production version is set.

MRP 1 MRP 2 MRP 3 **MRP 4** Advanced Planning Extended SPP Forecasting **Work scheduling**

Material: GCBK3100

Descr.: Carbon Global Sport & Commute Bike

Plant: HD00 Plant Heidelberg

BOM Explosion/ Dependent Requirements

Individual/Coll. Req.: Component Scrap (%): 0,00

Version Indicator: ☒ Requirements Group:

Production Versions MRP-Relevant Dep. Requirements:

Discontinued Parts

Discontinuation: Effective-Out Date: Follow-Up Material:

Repetitive Manufacturing /Assembly /Deployment Strategy

Repet. Manufacturing: ☐ REM Profile: Action Control:

Average Plant Stock **Material Memo** Material Memo Exists: ☐

Click **Production Versions**. Compare the entries in the dialog box that appears with the following screenshot.

Material: GCBK3100

Descr.: Carb

Plant: HD00

Explosion/

Individu

Production Version Overview

Vers...	Production Version T	Valid from	Valid To	I
0001	GCBK3100 production version	08/12/2025	12/31/9999	

Click  to return to the SAP Fiori launchpad.

Step 35: Planned Order in Production Order

Task Convert a planned order into a production order.

Time 15 min

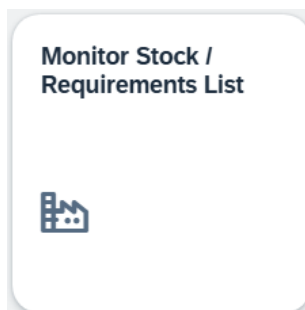
Description Convert the planned orders created by MRP for your sales order into a production order.

Do not yet use the remaining planned orders.

Name (Job) Lars Iseler (Shop Floor Worker 2)

To convert a planned order to a production order, use the *Monitor Stock/Requirements List* app again in the *Production Planning and Execution* area in the *Shop Floor Worker* role.

Initial Screen



On the *Individual access* tab page, enter your material **GCBK1###** and plant **HD00** and choose [Continue](#).

GCBK1###
HD00

< Stock/Requirements List: Initial Screen ▾ All ▾ | D

Menu ▾

Individual access Collective access

Material:*

Description:

MRP Area:

Plant: Plant Heidelberg

With filter: ☐

Choose at the beginning of the line of the planned order that is assigned to your sales order (the planned order has the same date as the sales order).

The system displays a dialog box with the details of the order.

Press to convert the planned order into a production order.

Accept the upcoming Message with .

<  Production order Create: Header ▾

Menu ▾     Material  Capacity  Operations  **Components**  Documents  Sequences

Order: %000000000001 

Material: GCBK1100 Global Basic Sport & Commute Bike

Status: REL MACM SETC 

General Assignment Goods Receipt Control Dates/Quantities Master Data Long Text

Make sure that the following storage location is maintained for all components:

Component	Storage Location	Plant
TRWA1###	SF00	HD00
TRFR1###	RM00	HD00
DGAM1###	RM00	HD00
TRSK1###	RM00	HD00
TRHB1###	RM00	HD00
PEDL1###	RM00	HD00
CHAN1###	RM00	HD00
BRKT1###	RM00	HD00
WDOC1###	RM00	HD00
PCKG1###	RM00	HD00
RKIT1###	TG00	HD00
PUMP1###	TG00	HD00
IDGC1###	RM00	HD00

Order: %00000000001

Material: GCBK1100 Global Basic Sport & Commute Bike

Filter: NO_FIL No Filter

Component Overview

Item	* Component	Description	Reqmt Qty	UoM	It...	Ope...	Seq...	Plant	Stor...
☐ 0010	<u>TRWA1100</u>	Touring Aluminum Wheel Assembly	30	EA	L	0010	0	HD00	SF00
☐ 0020	<u>TRFR1100</u>	Touring Frame-Black	15	EA	L	0020	0	HD00	RM00
☐ 0040	<u>TRSK1100</u>	Touring Seat Kit	15	EA	L	0020	0	HD00	RM00
☐ 0050	<u>TRHB1100</u>	Touring Handle Bar	15	EA	L	0030	0	HD00	RM00
☐ 0130	<u>IDGC1100</u>	Integrated GPS Bike Computer 100	15	EA	L	0030	0	HD00	RM00
☐ 0030	<u>DGAM1100</u>	Derailleur Gear Assembly	15	EA	L	0040	0	HD00	RM00
☐ 0070	<u>CHAN1100</u>	Chain	15	EA	L	0050	0	HD00	RM00
☐ 0080	<u>BRKT1100</u>	Brake Kit	15	EA	L	0060	0	HD00	RM00
☐ 0060	<u>PEDL1100</u>	Pedal Assembly	15	EA	L	0070	0	HD00	RM00
☐ 0090	<u>WDOC1100</u>	Warranty Document	15	EA	L	0100	0	HD00	RM00
☐ 0100	<u>PCKG1100</u>	Packaging	15	EA	L	0100	0	HD00	TG00
☐ 0110	<u>PUMP1100</u>	Air Pump	15	EA	L	0100	0	HD00	TG00
☐ 0120	<u>RKIT1100</u>	Repair Kit	15	EA	L	0100	0	HD00	RM00

Click  to return to the production order header. Complete the conversion by pressing **Save**.

The system returns you to the stock/requirements list and outputs the production order number of the created order.

 Order number 1000024 saved

Choose  at the top of the screen to refresh the list. The planned order **PldOrd** that you had chosen now exists as production order **PrdOrd**.

PldOrd
PrdOrd

<  Stock/Requirements List as of 09:16 hrs ▾

Menu ▾ [Show Overview Tree](#)   

Material: GCBK1100

Description: Global Basic Sport & Commute Bike

MRP Area: HD00 Plant Heidelberg Ex. manuf.:

Plant: HD00 MRP type: M1 Material Type: FERT Unit: EA

A...	Date	MRP e...	MRP element data	Rescheduling...	E...	Receipt/Reqmt	Available Qty	Pro...
	08/12/2025	Stock					0	
	08/01/2025	IndReq	VSF			15-	15-	
	08/08/2025	CusOrd	0000000037/000010/00...			15-	30-	
	08/18/2025	PrdOrd	000001000024/PP01/Re	08/01/2025	10	15	15-	0001
	08/18/2025	PldOrd	0000000365/STCK*	08/08/2025	10	15	0	0001
	08/19/2025	----->	End of Planning Time...					
	09/01/2025	PldOrd	0000000367/STCK			30	30	0001
	09/01/2025	IndReq	VSF			30-	0	
	10/01/2025	PldOrd	0000000368/STCK			30	30	0001
	10/01/2025	IndReq	VSF			30-	0	

Repeat this step for your bike **GCBK2###**.

GCBK2###

Repeat this step also for bike **GCBK3###**.

For the GCBK3###, only the planned order that is assigned to the sales order exists. Convert it to a production order.

Choose  at the beginning of the line of the planned order.

<  Stock/Requirements List as of 09:18 hrs ▾

Menu ▾ Show Overview Tree    

Material:

Description: Carbon Global Sport & Commute Bike

MRP Area: HD00 Plant Heidelberg Ex. manuf.:

Plant: HD00 MRP type: M1 Material Type: FERT Unit: EA

Σ      Date GR ST On On Vendor Cust.

A...	Date	MRP e...	MRP element data	Rescheduling...	E...	Receipt/Reqmt	Available Qty
	08/12/2025	Stock					0
	08/19/2025	----->	End of Planning Time...				
	08/12/2025	CustSt	0010000006/000030				0
	08/08/2025	CusOrd	0000000037/000030/00...			10-	10-
	08/18/2025	PldOrd	0000000429/SO *	08/08/2025	10	10	0

Press  (Change Element) to add the production version generated in the previous step to your planned order.

Additional Data for MRP Element ✕

Plnd Order: 0000000429 Make-to-order Order End Date: 08/18/2025 GR pr.time: 0

Order Qty.: 10 EA Order Start: 08/14/2025 Proc. Type: E

Scrap: 0 Opening Date: 08/13/2025 Order Type: KD

Exception: 10 =: Reschedule in (08/08/25)

52 =: No BOM selected

✓      -> Prod.Ord. -> PartConvProdOrder -> Proc.Ord. -> SubProcOrd -> Pur Req. ★ ✕

In the *Change Planned Order: Individual customer order* view, enter **0001** as the production version and click **Save**.

<  **Change Planned Order: Individual customer order** ▾

Menu ▾    **Print**  **Component ATP**

Planned Order: 429 Spec.proc.: E Standard in-house production

Material: GCBK3100

Description: Carbon Global Sport & Commute Bike

MRP Area: HD00 Plant Heidelberg

Header Assignment Master Data Long Text

Quantities

Order Quantity: 10 EA Scrap Quantity:

Dates/Times

Basic Dates	Production Dates	Other Dates
End: 08/18/2025	00:00:00	Available for MRP: 08/18/2025
Start: 08/14/2025	00:00:00	GR Processing Time:
Opening: 08/13/2025		

Other Data **Firming**

Production Plant: HD00	Planned Order: ☐
Storage Location:	Components: ☐
Production Version: 0001	Capacity Dispatched: ☐
BOM Explosion Number:	Conversion Ind.: ☒
Stock Segment:	

Back in the stock/requirements list of your material GCBK3###, choose  again at the beginning of the line of the planned order.

Press  to convert the planned order into a production order.

Confirm the incoming message by clicking on .

Routing selection GCBK3100

No routing found: 

Material	GCBK3100
Plant	HD00
Quantity	10 EA
Explosion Date	08/14/2025



In addition, confirm the subsequent message with **Enter**.

Information
✕

i

Error or warning occurred during master data transfer (see log)

✓
?

You are now in a temporary production order.

<

Production order Create: Header ▾

Menu ▾
📄
📅
🔄
🔍 Material
🔍 Capacity
🔍 Operations
🔍 Components
📄 Documents
📄 Sequences
📄
🔍
⋮

Order: %000000000001
✎

Material: GCBK3100
Carbon Global Sport & Commute Bike

Status: REL OPGN SETC
📄

General
Assignment
Goods Receipt
Control
Dates/Quantities
Master Data
Long Text
Administration

Quantities

Total Qty:*	10	EA	Scrap Portion:	0,00	%
Delivered:	0		Short/Exc. Rcpt:	0	

Dates/Times

Basic Dates	Scheduled	Confirmed
End: 08/18/2025 00:00	08/16/2025 24:00	
Start: 08/16/2025 00:00	08/16/2025 24:00	00:00
Release:	08/16/2025	08/12/2025

Sales Order

Sales Order:	10000006	30	0	Req.DDate:	08/08/2025	1st DDate:	08/08/2025
Ordering Pty:	1003091	Elbe Cycle 100					Magdeburg

Scheduling

Type:* 2 Backwards ▾

Reduction: No reduction carried out

Note: No scheduling note

Priority:

Floats

Sched. Margin Key: 001

Float Bef. Prdn: 1 Workdays

Float After Prdn: 1 Workdays

Release Period: 1 Workdays

Navigate to the "Assignment" tab page. As you can see, the production order is explicitly assigned to a sales order. The reason for this is the setting of strategy group 20 (make-to-order production).

 **Production order Create: Header** ▾

Menu ▾          

Order: %000000000001 

Material: GCBK3100 Carbon Global Sport & Commute Bike

Status: REL OPGN SETC 

General **Assignment** **Goods Receipt** **Control** **Dates/Quantities** **Master Data** **Long Text** **Adm**

Responsibility

MRP Controller: 100 HD MRP Control 100

Prod'n Supervisor: 000 HD Production Scheduler

Plants

Production Plant: HD00 Planning Plant: HD00

MRP Area: HD00 Plant Heidelberg

Assignments

WBS Element:

Inspection Lot: 0

Sales Order: 10000006 30 0

Run Schedule Header:

BOM Explosion Number:

Planned Order: 429

Business Area: BI00 Production Version: 0001

Functional Area:

Revision Level:

Profit Center:

Kanban Indicator: ☐

Object Class: PRODT

Reservation: 353

Sequence Number:

Click .

Click  to return to the SAP Fiori launchpad.

☐

Step 36: Display Production Order

Task Display the production order status.

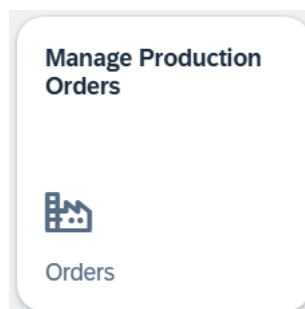
Time 10 min

Description Display the current production order with reference to the order status.

Name (Job) Michael Brauer (Shop Floor Worker 4)

To display the production order status, use the *Manage Production Orders* app in the *Production Planning and Execution* area in the *Shop Floor Worker* role.

Initial Screen



When you first open the app, you receive a welcome message informing you to select an area of responsibility. If you confirm this with **OK**, the system displays another dialog box.

No plant is currently assigned to you.

In the *Production Supervisors* area, select the Heidelberg plant by setting the status of the responsibility to green. (set to green).

< **SAP** My Area of Responsibility - Production Supervisor ▾ Q ? LL

Standard ▾ 🔗 ▾

AOR Status: Plant: Production Supervisor: Work Center:

Go Adapt Filters

Production Supervisors (9) Work Centers / Resources (30) ⬆ ⬇

Plant/Production Supervisor Combinations (9)					Assign	Unassign	🔍	⚙	🔗	▾
☐	Plant	Plant Name	Production S...	Production Supervisor Name	AOR Status					
☐	HD00	Plant Heidelberg			🟢					
☐	DL00	Plant Dallas			🔴					
☐	DL00	Plant Dallas	000	DL Production Scheduler	🔴					
☐	HD00	Plant Heidelberg	000	HD Production Scheduler	🟢					
☐	HH00	DC Hamburg			🔴					

Navigate to the *Work Centers/Resources* tab page and activate the responsibilities in the Heidelberg plant (HD00) for **HD Production**

(ASSEMBLY), **HD Final Control** (INSPECT), and **HD Packaging** (PACKING).

< **SAP** My Area of Responsibility - Production Supervisor ▾

Standard* ▾

AOR Status: Plant: Production Supervisor: Work Center:

Go Adapt Filters (1)

Production Supervisors (2) **Work Centers / Resources (15)**

Plant/Work Center Combinations (15) Assign Unassign

☐	Plant	Plant Name	Work Center	Work Center Text	AOR Status
☐	HD00	Plant Heidelberg	ASSY1000	HD Assembly	
☐	HD00	Plant Heidelberg	INSP1000	HD Inspection	
☐	HD00	Plant Heidelberg	PACK1000	HD Packaging	
☐	HD00	Plant Heidelberg	APHS3000	HD Handling Station	
☐	HD00	Plant Heidelberg	APPL1000	HD Pallet Warehouse	

Your area of responsibility is now maintained. The values are saved automatically here. Go to the SAP Fiori launchpad **SAP** and open the *Manage Production Orders* app again.

The system displays an overview of all existing orders. Depending on the progress of your course, there may be several production orders with different processing statuses.

In the *Material Number* field, enter your material **GCBK1###** and choose **Go** to display only your order.

GCBK1###

< **SAP** Manage Production Orders ▾

Standard* ▾

Search Status: Issue Type: Delay Duration: Order:

Material: Scheduled Start:

Go Adapt Filters (4)

Orders (1) Change Dates and Quantities Edit Release Read Master Data Check Availability | ▾ Related Apps

☐	Order	Material	Open Quantity	Status	Start	End	Progress of Operation	Issues
☐	1000024	GCBK1100 Global Basic Sport & Commute Bike	15 EA	Released	Fri, Aug 15, 2025 03:16 PM	Sat, Aug 16, 2025 05:00 PM	Material staging (0010) 15 EA	

The tabular overview contains various information about your order, such as the current status and the current processing status.

For more information, select the entry and you will be directed to the details of the production order.

It is not necessary to post the goods issue beforehand because the components are posted automatically by a backflush. This occurs during the confirmation of the work step to which the respective material component is assigned.

Now click on the *Order Schedule* tab page. The screen scrolls to the appropriate location.

Order Schedule

Operation	Suboperation	Work Center	Progress	Status	Scheduled Start	Actual Start	Scheduled End	Actual End
☐ 0010 Material staging		ASSY1000 HD Assembly	15 EA	Released	Fri, Aug 15, 2025 03:16 PM		Fri, Aug 15, 2025 03:27 PM	>
☐ 0020 Attach seat to frame		ASSY1000 HD Assembly	15 EA	Released	Fri, Aug 15, 2025 03:27 PM		Fri, Aug 15, 2025 03:44 PM	>
☐ 0030 Attach handle bar assembly		ASSY1000 HD Assembly	15 EA	Released	Fri, Aug 15, 2025 03:44 PM		Sat, Aug 16, 2025 08:09 AM	>
☐ 0040 Attach derailleur gear asm. to wheel		ASSY1000 HD Assembly	15 EA	Released	Sat, Aug 16, 2025 08:09 AM		Sat, Aug 16, 2025 08:42 AM	>
☐ 0050 Attach front and rear wheels to chain		ASSY1000 HD Assembly	15 EA	Released	Sat, Aug 16, 2025 08:42 AM		Sat, Aug 16, 2025 10:07 AM	>
☐ 0060 Attach brakes		ASSY1000 HD Assembly	15 EA	Released	Sat, Aug 16, 2025 10:07 AM		Sat, Aug 16, 2025 10:40 AM	>
☐ 0070 Attach peddles		ASSY1000 HD Assembly	15 EA	Released	Sat, Aug 16, 2025 10:40 AM		Sat, Aug 16, 2025 11:14 AM	>
☐ 0080 Test bike		INSP1000 HD Inspection	15 EA	Released	Sat, Aug 16, 2025 11:14 AM		Sat, Aug 16, 2025 12:41 PM	>
☐ 0090 Disassemble		PACK1000 HD Packaging	15 EA	Released	Sat, Aug 16, 2025 12:41 PM		Sat, Aug 16, 2025 02:05 PM	>
☐ 0100 Pack bike		PACK1000 HD Packaging	15 EA	Released	Sat, Aug 16, 2025 02:05 PM		Sat, Aug 16, 2025 04:54 PM	>

You see the routing of the production order and the current status for each work step. Currently, all work steps have been released but not yet started.

Click on the first step *0010 — Material staging* to access its details.

< **SAP** Manage Production Operations ▾

Material staging (0010) [Edit Order](#) [Release](#) [Related Apps](#)

Production Order: Sequence Category: Sequence:
1000024 Standard sequence (0) 0

Material: GCBK1100 (Global Basic Sport & Commute Bike) Status: Released Work Center: ASSY1000 (HD Assembly) Production Plant: Plant Heidelberg (HD00) Time Zone: CET Person Responsible: HD MRP Control 100 Quantity: 15 EA

Click the *Components* tab. The screen scrolls to the appropriate location.

Material staging (0010) [Edit Order](#) [Release](#) [Related Apps](#) [Share](#)

Operation Issues **Components** Order Schedule Work Center Schedule ▾ Confirmation Inspection

Components

[All](#) [Missing](#) [Settings](#) [Share](#) [Filter](#)

Item Number	Material	Quantity	Coverage	Operation	Backflush	Storage Location	Component Scrap	Requirement Date/Time
0010	TRWA1100 Touring Aluminum Wheel Assembly	Total Quantity: 30 E Open Quantity: 30 E	30 EA	0010 (Material staging)	Yes	SF00	0.00 %	Fri, Aug 15, 2025 03:16 PM

Here you can see which component is assigned to a work step.

You can now also display the production order for your second bike GCBK2### by repeating these steps.

Note There are no components defined for your bike GCBK3### for the production order. This is because the material did not yet have a routing, a BOM, or a production version in material requirements planning (step 13), which means that no requirements planning was carried out for its dependent requirements (components). The task list, BOM, and production version for material GCBK3### were added subsequently to be able to convert the planned order into a production order.

The reason for this process is the simplification of the case study process. At this point, reservations of the components would otherwise be created separately for the sales order, whereby all components would have to be procured again for the sales order.

Click  to return to the SAP Fiori launchpad.



Step 37: Confirm Partial Production Completion

Task Confirm Partial Production Confirmation

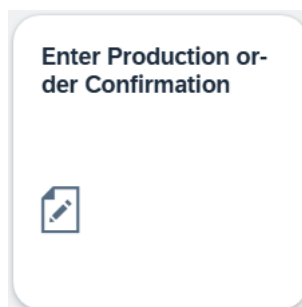
Time 5 min

Description While assembly is in progress for the current production order, part of the successfully completed operations and the quantity of finished goods already produced can be confirmed.

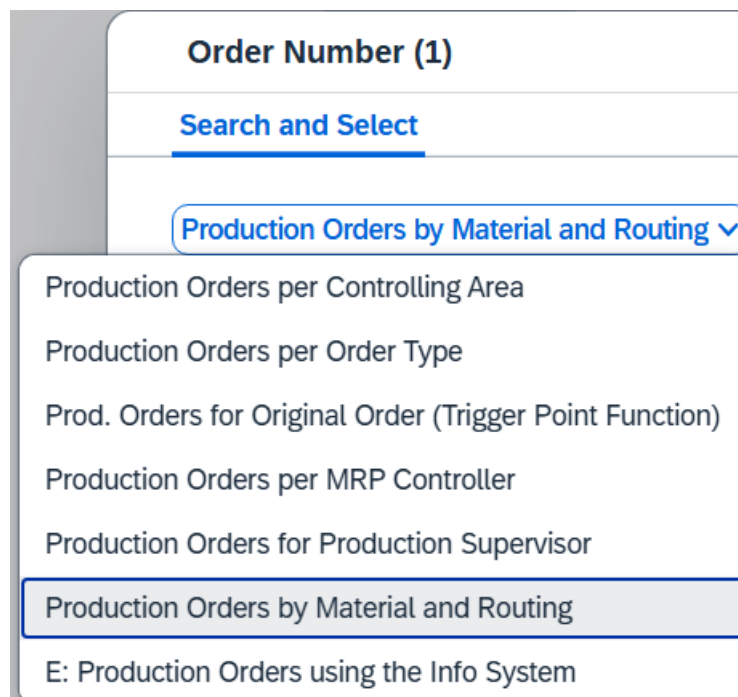
Name (Job) Michael Brauer (Shop Floor Worker 4)

In the *Production Planning and Execution* area, in the *Shop Floor Worker* role, use the *Enter Production Order Confirmation* app to report the completion of a production order.

Initial Screen



Determine your order number. Click in the *Order* field and choose the value help icon . In the dialog box for searching for *production orders by material and routing*, switch.



Enter your material number **GCBK1###** and click  to execute the search. Select your order and then click .

GCBK1###

Your order number is added to the initial screen. Press **Enter** to continue.

A partial confirmation is now carried out *on the Enter Confirmation for Production Order: Actual Data* screen. Change the *confirmation type* to **Partial confirmation**, **deselect** *Clear Open Reservs.* and enter **10** of the planned *quantity* to be confirmed as yield quantity.

Partial Confirmation
Deselect clear open
Reservations
10

< **SAP** Confirmation of Production Order Enter : Actual Data ▾

Menu ▾ Goods Movements

Order: 1000024 Status: REL PRC MANC SETC
Material: GCBK1100
Material Descr.: Global Basic Sport & Commute Bike

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:	10	EA	0	15	EA
Scrap Quantity:			0	0	
Rework Quantity:			0		
Reason for Var.:					
Personnel no.:					

	To Be Confirmed	Confirmed to Date	Planned t/b Conf.
Start Execution:	08/12/2025 09:39:39		08/15/2025
Finish Execut.:	08/12/2025 09:39:39		08/16/2025
Posting Date:	08/12/2025		

Press **Save** to save the confirmation.

✔ Confirmation saved (Goods movements: 13, failed: 0) [View Details](#)

Note If you receive failed goods movements at this point, you can use the **‘/nCOGI’** transaction to check where the problem with the goods movement lies.

To enter transactions in SAP Fiori, activate the OK field via Menu → Settings → Interaction Design → Visualisation → Header Area → **Select** Show OK Code Field

Open transaction **‘/nCOGI’**, select the line with the incorrect goods movement, and then click .

< **SAP** Postprocessing of Error Records from Automatic Goods Movements ▾

Menu ▾          

08/12/2025 Goods Movements with Errors: Summarized Records

Status	Material	Material Description	Plant	Locat...	Batch	MvT	Qty in UnE	EUn	AppAr	Msg.
◆	TRFR2100	Touring Frame-Silver	HD00	RM00		261	5 EA	M7		021

Now scroll to the right to the '**Error text**' line. Here you will find a note explaining what caused the incorrect goods movement.

< **SAP** Goods Movements with Errors ▾

Menu ▾         

Goods Movements Overview

Material	Error Text	Compltd
☐ TRFR2100	Deficit of SL Unrestricted-use 5 EA : TRFR2100 HD00 RM00	☒

In our example, the incorrect goods movement was caused by insufficient freely usable stock of the material.

You can solve the problem by using transaction '**/nMIGO**' to post a **goods receipt (Other)** with the missing **quantity** for the corresponding **material** in the corresponding **plant** and **storage location**.

Then return to transaction '**/nCOGI**', select the line with your incorrect goods movement and click on  (refresh).

< **SAP** Postprocessing of Error Records from Automatic Goods Movements ▾

Menu ▾        

08/12/2025 Goods Movements with Errors: Summarized Records

Status	Material	Description	Plant	Location	Batch	MvT	Qty in UnE	Entry unit
◆	TRFR2100	Touring Fr...	HD00	RM00		261	5 EA	

The incorrect goods movement should now have disappeared. You can now continue with the next step of the case study.

Click **SAP** to return to the SAP Fiori launchpad.

Step 38: Check Production Order

Task Review Production Order.

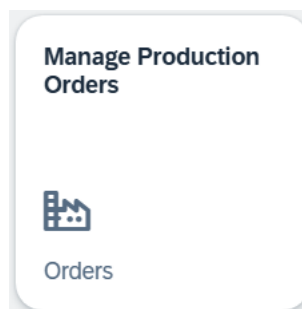
Time 5 min

Description Display your production order and check its current status after the partial confirmation from production.

Name (Job) Michael Brauer (Shop Floor Worker 4)

To display the production order status, use the *Manage Production Orders* app in the *Production Planning and Execution* area in the *Shop Floor Worker* role.

Initial Screen



The system displays an overview of all existing orders. Depending on the progress of your course, there may be several production orders with different processing statuses.

In the *Material Number* field, enter your material **GCBK1###** and choose **Go** to display only your order.

GCBK1###

Order	Material	Open Quantity	Status	Start	End	Progress of Operation	Issues
1000024	GCBK1100 Global Basic Sport & Commute Bike	15 EA	Partially Confirmed	Tue, Aug 12, 2025 09:39 AM	Sat, Aug 16, 2025 05:00 PM	Move to storage (0110)	10 EA 5 EA

In the table overview, you can see that the current status and the processing status of the production order have changed.

Select the entry to display the details of the production order.

Now choose the *"Components"* tab page. The screen scrolls to the appropriate location.

Manage Production Orders 1000024

Issues Order Information **Components** Order Schedule Confirmation Inspection

Components

All Missing Search

Item Number	Material	Quantity	Coverage	Operation	Backflush	Storage Location	Component Scrap	Requirement Date/Time
0010	TRWA1100 Touring Aluminum Wheel Assembly	Total: 30 EA Open: 10 EA Quantity: 5 EA	20 EA 10 EA	0010 (Material staging)	Yes	SF00	0.00 %	Fri, Aug 15, 2025 03:16 PM
0020	TRFR1100 Touring Frame-Black	Total: 15 EA Open: 5 EA Quantity: 5 EA	10 EA 5 EA	0020 (Attach seat to frame)	Yes	RM00	0.00 %	Fri, Aug 15, 2025 03:27 PM
0040	TRSK1100 Touring Seat Kit	Total: 15 EA Open: 5 EA Quantity: 5 EA	10 EA 5 EA	0020 (Attach seat to frame)	Yes	RM00	0.00 %	Fri, Aug 15, 2025 03:27 PM
0050	TRHB1100 Touring Handle Bar	Total: 15 EA Open: 5 EA Quantity: 5 EA	10 EA 5 EA	0030 (Attach handle bar assembly)	Yes	RM00	0.00 %	Fri, Aug 15, 2025 03:44 PM
0130	IDGC1100 Integrated GPS Bike Computer 100	Total: 15 EA Open: 5 EA Quantity: 5 EA	10 EA 5 EA	0030 (Attach handle bar assembly)	Yes	RM00	0.00 %	Fri, Aug 15, 2025 03:44 PM
0030	DGAM1100 Derailleur Gear Assembly	Total: 15 EA Open: 5 EA Quantity: 5 EA	10 EA 5 EA	0040 (Attach derailleur gear assm. to wheel)	Yes	RM00	0.00 %	Sat, Aug 16, 2025 08:09 AM
0070	CHAN1100 Chain	Total: 15 EA Open: 5 EA Quantity: 5 EA	10 EA 5 EA	0050 (Attach front and rear wheels to chain)	Yes	RM00	0.00 %	Sat, Aug 16, 2025 08:42 AM

The quantities of the components are now two-thirds consumed and one-third open. The remaining components are consumed when the production quantity that is still open is produced.

Now choose the *Confirmation* tab page. The screen scrolls to the appropriate location.

Manage Production Orders 1000024

Issues Order Information Components Order Schedule **Confirmation** Inspection

Confirmation

Order Confirmations

Confirmation	Confirmation Count	Reversed	Reversal	Reversed Count	Operation	Confirmed By	Confirmed	Final Confirmation
462	1	No	No			LEARN-501	Tue, Aug 12 09:39 AM	No

Quantity: 10 EA
Yield: 10 EA
Scrap: 0 EA
Rework: 0 EA
Confirmation Text:

Here you can see your first confirmation, the confirmation quantity, and that it is not a final confirmation.

Click **SAP** to return to the SAP Fiori launchpad.

Step 39: Confirm Complete Production Completion

Task Confirm Complete Production Completion.

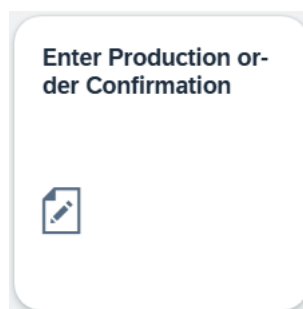
Time 5 min

Description The assembly of the current production orders is now completely completed. Confirm this by finally confirming your production orders.

Name (Job) Michael Brauer (Shop Floor Worker 4)

In the *Production Planning and Execution* area, in the *Shop Floor Worker* role, use the *Enter Production Order Confirmation* app to report the completion of a production order.

Initial Screen



Determine your order number. Click in the *Order* field and choose the value help icon . In the dialog box for searching for *production orders for the material and routing*, switch.

Enter your material number **GCBK1###** and click **Go** to execute the search. Select your order and then click **OK**.

GCBK1###

Your order number is added to the initial screen. Press **Erfassen** to continue.

On the *Enter Confirmation for Production Order: Actual Data* screen, the final confirmation is now carried out. **Final confirmation** should already be selected as the *confirmation type*, and **Clear Open Reservation** should be selected.

Final Confirmation

The reservations can only be cleared with the final confirmation.

Yield Quantity should be filled with the remaining 5 quantities to be confirmed.

5

<  Confirmation of Production Order Enter : Actual Data ▾

Menu ▾  Goods Movements

Order: 1000024 Status: REL PCNF PRC GMPS MANC SETC

Material: GCBK1100

Material Descr.: Global Basic Sport & Commute Bike

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:	5	EA	10	15	EA
Scrap Quantity:			0	0	
Rework Quantity:			0		
Reason for Var.:					
Personnel no.:					

Press  to save the confirmation.

Repeat this procedure for your production order of material **GCBK2###**.
Make a **final confirmation** of 5 yield.

 Confirmation saved (Goods movements: 13, failed: 0) [View Details](#)

Repeat this procedure for your production order of material **GCBK3###**.
Make a **final confirmation** of 10 yield.

Note You receive a message for material GCBK3### that the confirmation was saved, but not that there was a goods movement. Otherwise, the goods movement is triggered by the components that are used from the warehouse for production. However, since no dependent requirements have been determined for your material GCBK3###, no components are consumed from the warehouse for your material.

Click  to return to the SAP Fiori launchpad.

☐

GCBK2### Final
Confirmation
5

GCBK3### Final
Confirmation
10

Step 40: Check Production Order

Task Display the production order status.

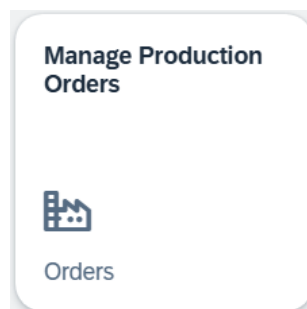
Time 5 min

Description Display your production order and check its current status after the complete confirmation from production.

Name (Job) Michael Brauer (Shop Floor Worker 4)

To display the production order status, use the *Manage Production Orders* app in the *Production Planning and Execution* area in the *Shop Floor Worker* role.

Initial Screen



The system displays an overview of all existing orders. Depending on the progress of your course, there may be several production orders with different processing statuses.

In the *Material Number* field, enter your material *### and choose **Go** to display only your order.

*###

< **SAP** Manage Production Orders ▾ 🔍 ⓘ LL

Standard ▾ 🔗

Search 🔍 Status: Delivered x 6 More ▾ Issue Type: No Filter x ▾ Delay Duration: >= 0 Hours ▾

Order: Material: *100 x Scheduled Start: **Go** Adapt Filters (4)

Orders (3) Change Dates and Quantities Edit Release Read Master Data Check Availability | ▾ Related Apps ⚙️ ⋮

Order	Material	Open Quantity	Status	Start	End	Progress of Operation
☐ 1000026	GCBK3100 Carbon Global Sport & Commute Bike	10 EA	Confirmed	Tue, Aug 12, 2025 09:56 AM	Tue, Aug 12, 2025 09:56 AM	0001 10 EA
☐ 1000024	GCBK1100 Global Basic Sport & Commute Bike	15 EA	Confirmed	Tue, Aug 12, 2025 09:39 AM	Tue, Aug 12, 2025 09:54 AM	Move to storage (0110) 15 EA
☐ 1000025	GCBK2100 Global Endurance Sport & Commute Bike	5 EA	Confirmed	Tue, Aug 12, 2025 09:56 AM	Tue, Aug 12, 2025 09:56 AM	Move to storage (0110) 5 EA

Issues: ⌚ 📦 📄 📊 🗑️

In the table overview, you can see that the current status and the processing status of the production order have changed again.

Select the entry for your GCBK1### bicycle to display the details of the production order.

< **SAP** Manage Production Orders ▾

1000024 Edit Order Release

Material: **GCBK1100** (Global Basic Sport & Commute Bike) Status: **Confirmed** Person Responsible: HD MRP Control 100 Quantity: **15,000** EA

Now choose the "Components" tab page. The screen scrolls to the appropriate location.

Components

AllMissing

Search

 | 

Item Number	Material	Quantity	Coverage	Operation	Backflush	Storage Location	Component Scrap
0010	TRWA1100 Touring Aluminum Wheel Assembly	Total Quantity: 30 EA Open Quantity: 0 EA	30 EA	0010 (Material staging)	Yes	SF00	0.00 %
Requirement Date/Time: Fri, Aug 15, 2025 03:16 PM							
0020	TRFR1100 Touring Frame-Black	Total Quantity: 15 EA Open Quantity: 0 EA	15 EA	0020 (Attach seat to frame)	Yes	RM00	0.00 %
Requirement Date/Time: Fri, Aug 15, 2025 03:27 PM							
0040	TRSK1100 Touring Seat Kit	Total Quantity: 15 EA Open Quantity: 0 EA	15 EA	0020 (Attach seat to frame)	Yes	RM00	0.00 %
Requirement Date/Time: Fri, Aug 15, 2025 03:27 PM							
0050	TRHB1100 Touring Handle Bar	Total Quantity: 15 EA Open Quantity: 0 EA	15 EA	0030 (Attach handle bar assembly)	Yes	RM00	0.00 %
Requirement Date/Time: Fri, Aug 15, 2025 03:44 PM							
0130	IDGC1100 Integrated GPS Bike Computer 100	Total Quantity: 15 EA Open Quantity: 0 EA	15 EA	0030 (Attach handle bar assembly)	Yes	RM00	0.00 %

The quantities of the components are now completely consumed.

Now choose the *Confirmation* tab page. The screen scrolls to the appropriate location.

<  Manage Production Orders ▾

1000024 ▾ [Edit Order](#) [Release](#) [Read Master Data](#) [Split Order](#) ▾ [Display](#) ▾ ⋮

Issues Order Information Components Order Schedule **Confirmation** Inspection

Confirmation

Order Confirmations

Confirmation	Confirmation Count	Reversed	Reversal	Reversed Count	Operation	Confirmed By	Confirmed
462	1	No	No			LEARN-501	Tue, Aug 12 09:39 AM >
Final Confirmation: No Quantity: 10 EA Yield: 10 EA Scrap: 0 EA Rework: 0 EA Confirmation Text:							
462	2	No	No			LEARN-501	Tue, Aug 12 09:54 AM >
Final Confirmation: Yes Quantity: 5 EA Yield: 5 EA Scrap: 0 EA Rework: 0 EA Confirmation Text:							

You see your two confirmations without scrap or rework and the second confirmation is the final confirmation.

Note Your production order is now completely confirmed, but not yet completely completed. The confirmations express that the products have been produced, but the goods receipt of the products still has to be posted.

Click  to return to the SAP Fiori launchpad.

☐

Step 41: Goods Receipt for Production Order

Task Post the finished goods to the warehouse.

Time 5 min

Description Post the goods receipt for your production order. You receive the confirmed products in your finished goods warehouse. Check the proposed quantity with the quantity confirmed in the production order.

Name (Job) Susanne Castro (Goods Receipt Clerk)

To post the goods issue, use the *Post Goods Receipt for Production Order* app in the role *Goods Receipt Clerk* in the area *Production Planning and Execution*.

Initial Screen



Determine your order number. Click the value help icon  in the *Production Order* field. Enter your material **GCBK1###** and press .

GCBK1###

Select your production order, the system automatically displays the related *General Information*.

< **SAP** Post Goods Receipt for Production Order ▾

Production Order: 1000024 ×  

Global Basic Sport & Commute Bike
GCBK1100
Production Order: 1000024
Order Type: Standard production order PP01

General Information Items Attachments

Printing: No print ▾ Note: Document Date: 08/12/2025 
Delivery Note: Posting Date: 08/12/2025 

Items

Items (1) Search    

Material	Open Quantity	Delivered	Distribution	Plant	Storage Location
Global Basic Sport & Commute Bike GCBK1100	15,000 EA	15,000 EA 	+	Plant Heidelberg (HD00)	

Stock Type: Unrestricted-Use ▾

FG00
Unrestricted-Use

Make sure that **Unrestricted Use** is selected as *the stock type* and **FG00** as the storage location. Select the entry for the material.

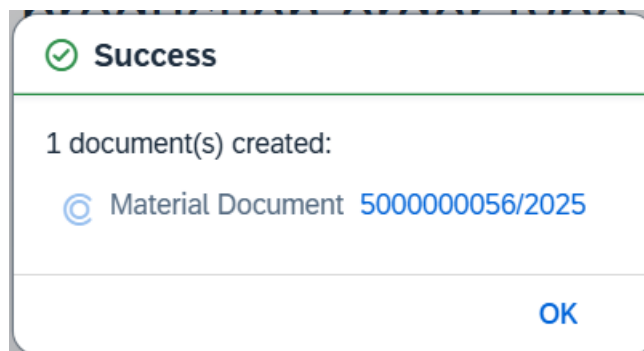
Items

Items (1)

☒	Material	Open Quantity	Delivered	Distribution	Plant	Storage Location
☒	Global Basic Sport & Commute Bike GCBK1100	15,000 EA	15,000 EA ⌵	+	Plant Heidelberg (HD00)	Finished Goods (FG00) ⌵

Stock Type:

Save your goods receipt with . The SAP system assigns a unique number to the goods receipt and issues a corresponding message.



As a result, the current value of the produced material is updated in the production order. Confirm the message with .

Repeat this step for the production order of material **GCBK2###** and **GCBK3###**.

Retry
GCBK2###
GCBK3###

Click  to return to the SAP Fiori launchpad.



Step 42: Analyze Production Costs

Task Display the assigned costs for your production order.

Time 5 min

Description Display and review all costs that have been assigned to your production order.

Name (Job) Jamie Shamblin (Controller)

To display the costs for a production order, use the *Production Cost Analysis* app in the *Production Planning and Execution* area in the *Controller* role.

Initial Screen



In the search for *Product*, enter **GCBK1###** and change the *order status* from Open to **Closed**.

GCBK1###
Closed

Press **Go** to execute the search. Your just completed production order is displayed.

< **SAP** Production Cost Analysis 🔍 ⓘ

Standard ⌵

Profit Center: Plant: Order Type: Product: Order:

Order Status: * Period From: * Period To: * Go Clear Adapt Filters (6)

Order Analysis Cost Component Group

Order List (1) Standard ⌵ Orders ⌵ ⚙️ 📄

Exception Status	Order	Product	Tgt DR/Actl D...	Target Cost Debit	Actl Cost Debit	Total Actl Cost	Order Status
ⓘ	1000024	GCBK1100 (Glob...	12.609,70 EUR	0,00 EUR	12.609,70 EUR	-3.260,30 EUR	Closed
			12.609,70 EUR	0,00 EUR	12.609,70 EUR	-3.260,30 EUR	

Note If you do not see any data, change the default value in your user settings for the controlling area from NA00 to EU00. Then reload the app and try the search again.

Settings

User Account
Learn-501 Learn-501

Appearance
SAP Morning Horizon

Spaces and Pages
My Home Shown

User Activities

Language and Region
American English

Default Values

Search
Personalized Search: Off

Accrual Subobject

Controlling

CO Area **EU00**  Additional Values

Activity Type  Additional Values

Acty Type Group

Business Process  Additional Values

Cost center  Additional Values

Cost Center Hierarchy  Additional Values

Cost ctr group

Cost Element  Additional Values

Cost Elem.Group

Cost Object  Additional Values

Functional Area  Additional Values

Order  Additional Values

Profit Center  Additional Values

Profit Center Hierarchy  Additional Values

Stat. key fig.  Additional Values

Save **Cancel**

This overview lists the total target and actual costs and displays any variances.

Click  at the end of the row to open the charge details.

< **SAP** Order Cost Detail ▾

PP01: 1000024

Exception Status Order Balance
No Defined Exception Rule -3.260,30 EUR

General Information Cost Details

Product: GCBK1100 (Global Basic Sport & Commute Bike)	Planned Quantity: 15 EA	From Period: 008/2025
Plant: HD00	Total Actual Quantity: 15 EA	To Period: 008/2025

COST DETAILS

Standard ▾ Target/Actual by G/L Account ▾

G/L Account	Total Target Cost	Total Actl Cost	Target/Actual Cost Varc	Actual Quantity	Origin
Group Name:					
7520000 (Settle. Manu...)	0,00 EUR	-15.870,00 EUR	-15.870,00 EUR	-15 EA	HD00/GCBK1100
Group Name: Human Resources					
8000000 (Labor)	0,00 EUR	476,70 EUR	476,70 EUR	9,534 HR	EUPR1000/LABOR
Group Name: Raw Materials					
5001000 (RM Consum...)	0,00 EUR	1.050,00 EUR	1.050,00 EUR	15 EA	HD00/BRKT1100
5001000 (RM Consum...)	0,00 EUR	150,00 EUR	150,00 EUR	15 EA	HD00/CHAN1100
5001000 (RM Consum...)	0,00 EUR	1.125,00 EUR	1.125,00 EUR	15 EA	HD00/DGAM1100
5001000 (RM Consum...)	0,00 EUR	505,00 EUR	505,00 EUR	15 EA	HD00/IDGC1100
5001000 (RM Consum...)	0,00 EUR	52,50 EUR	52,50 EUR	15 EA	HD00/PCKG1100
5001000 (RM Consum...)	0,00 EUR	675,00 EUR	675,00 EUR	15 EA	HD00/PEDL1100
5001000 (RM Consum...)	0,00 EUR	3.000,00 EUR	3.000,00 EUR	15 EA	HD00/TRFR1100
5001000 (RM Consum...)	0,00 EUR	375,00 EUR	375,00 EUR	15 EA	HD00/TRHB1100
5001000 (RM Consum...)	0,00 EUR	750,00 EUR	750,00 EUR	15 EA	HD00/TRSK1100
	0,00 EUR	-3.260,30 EUR	-3.260,30 EUR	204,534 *	

Now that the finished products have been received into the warehouse, the consumption of the values of all manufactured bicycles has been added.

Perform the production cost analysis for material GCBK2### as well.

Order Analysis Cost Component Group

Order List (2) Standard Orders

Exception Status	Order	Product	Tgt DR/Actl DR V...		Target Cost Debit	Actl Cost Debit	Total Actl Cost	Order Status
①	1000025	GCBK2100 (Global ...	4.204,43	EUR	0,00 EUR	4.204,43 EUR	-6.460,57 EUR	Closed
①	1000026	GCBK3100 (Carbon ...	0,00	EUR	0,00 EUR	0,00 EUR	0,00 EUR	Closed
			4.204,43	EUR	0,00 EUR	4.204,43 EUR	-6.460,57 EUR	

Click  to return to the SAP Fiori launchpad.



Step 43: Execute Variance Calculation

Task Run the Variance Calculation.

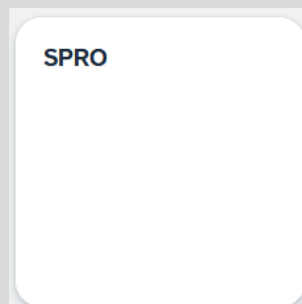
Time 5 min

Description In SAP, this is the process of comparing actual costs with planned or target costs (for example, in production orders or on cost centers) to identify and analyze differences (variances). This helps companies understand where costs deviate from expectations. Execute Variance Calculation = Compare the actual costs with the planned costs to calculate the difference.

Name (Job) Jamie Shamblin (Controller)

To execute variance calculation, use the *SPRO* app in the *Customizing* area. Enter transaction code /nKKS2. Click *Enter*.

Initial Screen



 A screenshot of the SAP Customizing: Execute Project screen. The header shows the SAP logo and the title "Customizing: Execute Project". Below the header, there is a "Menu" dropdown set to "/nKKS2", a "SAP Reference IMG" button, and a "Project Analysis" button. The main section is titled "My Customizing Worklist" and contains a table with two columns: "Project" and "Name". The table has one row with a radio button in the "Project" column.

Note Transaction KKS2 is used in SAP to calculate variances for orders (usually production orders or process orders). It serves to determine the deviations produced during production (e.g. B. cost variances between target and actual).

On the *Variance Calculation: Initial Screen*, you can maintain or select an order. You can either select an existing order from the list and view or edit its details, or create a new order to record new business transactions. Use the available filter and search functions to search specifically for specific orders and to design your work processes efficiently.

Enter the order number for your material **GCBK1###** and enter the **current period** and **fiscal year**. Select **All Target Cost Versions**.

< **SAP** Variance Calculation: Initial Screen ▾

Menu ▾

Order: 1000024 Global Basic Sport & Commute Bike

Parameters

Period: 8
Fiscal Year: 2025
All Tgt Cost Vsns: ☒ 000
Selected Target Cost Vsns: ☐

Processing options

Test Run: ☐
Detail list: ☒

Click 'Execute' and ignore the warning by pressing Enter.

< **SAP** Variance Calculation: List ▾

Menu ▾ Basic List Cost Elements Scrap Variance Categories

Period: 8 Fiscal year: 2025 Messages: 6 Currency: EUR
Version: 0 Target costs for total variances (0) 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl Costs	Work in Process	Scrap	Variance
HD00	ORD 1000024	0,00	12.609,70	15.870,00	0,00	0,00	3.260,30-

Repeat this procedure for the production order of material **GCBK2###**.

< **SAP** Variance Calculation: List ▾

Menu ▾ Basic List Cost Elements Scrap Variance Categories

Period: 8 Fiscal year: 2025 Messages: 6 Currency: EUR
Version: 0 Target costs for total variances (0) 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl Costs	Work in Process	Scrap	Variance
HD00	ORD 1000025	0,00	4.204,43	10.665,00	0,00	0,00	6.460,57-

Note With this procedure, we have cleared the existing differences in the system. As a result, both the accounting documents and the document flow are consistent and correct again. The status of the delivery and invoice have been updated accordingly so that there are no more open or erroneous items. This procedure corresponds to the standard SAP processes and ensures clear and comprehensible accounting.

Now we can proceed with the step Settle Production Order. As a result, the costs of the production order are finally reposted to the corresponding cost centers or cost objects. At the same time, all open costs and variances are closed so that the production order is considered completed. This step is important to ensure correct cost distribution and clean accounting in the SAP system.

Click  to return to the SAP Fiori launchpad.



Step 44: Settle production order

Task Settle the costs from your production order.

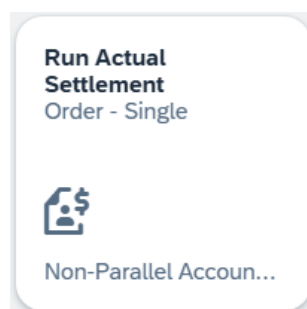
Time 15 min

Description Settle the costs for production. These are temporarily entered in the production order and must now be assigned to a suitable cost object. Compare the actual costs with the target costs to identify variances or potential problems in this area.

Name (Job) Jamie Shamblin (Controller)

To settle the costs from a production order, in the *Production Planning and Execution* area, in the *Controller* role, use the *Run Actual Settlement* app.

Initial Screen



If you need to enter the controlling area, select **EU00** and click **Continue**.

EU00

Click in the *Order* field and choose the value help icon . Search for your order using your material **GCBK1###** and transfer it with .

GCBK1###

In the *Parameters* area, enter the **current month** (for example, 005 for May) as the *settlement period and posting period*, and the **current year** as the *fiscal year*. In addition, make sure that **Test Run** is selected.

Current Month Current
Year
Test Run

<  Actual Settlement: Order ▾

Menu ▾ Settlement Rule

Controlling Area: EU00

Order:

Parameters

Settlement Period: Posting Period:

Fiscal Year: Asset Value Date:

Processing Type: ▾

Processing Options

☒ Test Run

☐ Check Trans. Data

Press  to continue. Choose Enter to confirm any message that may appear. The *Actual Settlement Order Basic List* screen appears.

<  Actual Settlement: Order Basic list ▾

Menu ▾  

Selection		
Selection Parameters	Value	Name
Order	1000024	Global Basic Sport & Commute Bike
Period	008	
Posting Period	008	
Fiscal Year	2025	
Processing Type	1	Automatic
Posting Date	08/31/2025	
Controlling Area	EU00	Global Bike Europe
Currency	EUR	European Euro
Value Date	08/31/2025	

In the process control, you can see that this is only a test run.

Processing Options	
Selection Parameters	Value
Execution Type	Settlement Executed
Processing Mode	Test run

Processing completed with no errors

Click  to open the detail lists.

<  Ist-Abrechnung Auftrag Detailliste ▾

Menü ▾ Grundliste   Sender  Empfänger  AbrechnVorsch     

Detailliste - abgerechnete Werte				
Sender	Kurztext Sender	Empfänger	Wert/KWähr	Zusätzliche Information
AUF 1000020	Global Basic Sport & Commute Bike	ERG 104	3.265,30-	Abweichungen
		MAT HD00/GCBK1000	3.265,30-	

To view more reports, press .

A popup opens in which you can choose between several reports. Choose **Actual/Plan/Variance** and confirm your selection with . A corresponding report bundle is generated and displayed.

Orders: Actual/Plan/Variance

Menu

Orders: Actual/Plan/Variance Date: 08/12/2025 16:27:36 Page: 2 / 2

Order/Group 1000024 000001000024
Fiscal year 2025
Period 1 - 8

Cost Elements	Actual	Plan	Var. (Abs.)	Var. (%)
5001000 RM Consumpt Expense	7.697,50	8.152,50	455,00-	5,58-
5003000 TG Consumpt Expense	450,00	450,00		
5004000 SF Consumpt Expense	3.985,50	3.985,50		
8000000 Labor	476,70	476,65	0,05	0,01
8015000 Material Overhead		2.517,60	2.517,60-	100,00-
* Costs	12.609,70	15.582,25	2.972,55-	19,08-
7520000 Settle. Manuf Output	15.870,00-	15.870,00-		
* Deliveries to Stock	15.870,00-	15.870,00-		
** Balance	3.260,30-	287,75-	2.972,55-	1.033,03

Press to go back. Confirm the prompt whether you want to exit the report with **YES**. Then choose twice to return to the *Actual Settlement: Order* initial screen.

Now deselect **Test Run** and execute again with **Execute**. In contrast to the previous run, you can now see in the Processing Options area that this was an update run that was completed without errors.

Processing Options

Selection Parameters	Value
Execution Type	<u>Settlement Executed</u>
Processing Mode	<u>Update run</u>

Call up the report **Actual/Plan/Variance** again by first clicking on and following the menu path **Menu ► Environment ► Report**.

Test Run

 Orders: Actual/Plan/Variance

Menu            

Orders: Actual/Plan/Variance Date: 08/12/2025 16:29:15 Page: 2 / 2

Order/Group 1000024 000001000024
Fiscal year 2025
Period 1 - 8

Cost Elements	Actual	Plan	Var. (Abs.)	Var. (%)
5001000 RM Consumpt Expense	7.697,50	8.152,50	455,00-	5,58-
5003000 TG Consumpt Expense	450,00	450,00		
5004000 SF Consumpt Expense	3.985,50	3.985,50		
8000000 Labor	476,70	476,65	0,05	0,01
8015000 Material Overhead		2.517,60	2.517,60-	100,00-
* Costs	12.609,70	15.582,25	2.972,55-	19,08-
7520000 Settle. Manuf Output	3.260,30		3.260,30	
* Settled Costs	3.260,30		3.260,30	
7520000 Settle. Manuf Output	15.870,00-	15.870,00-		
* Deliveries to Stock	15.870,00-	15.870,00-		
** Balance		287,75-	287,75	100,00-

Repeat this step for the orders of your materials GCBK2### and GCBK3###.

The system issues the following message for your material GCBK3###:

 Either the sender is already settled, or there is nothing to settle [View Details](#)

Click  to return to the SAP Fiori launchpad.



Process Progress

The production planning and production process is finished at this point.

Process Progress

Since the production planning and production process of the new bicycles has been completed with the previous step, the sales process can now continue.

Step 45: Display Stock

Task Display the stock of your materials again.

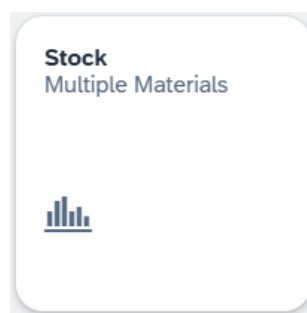
Time 5 min

Description You want to make sure that there are enough mountain bikes in stock in the delivering plant to fulfill the Elbe Cycle ### order. Therefore, you use the SAP Fiori launchpad to check the material stock.

Name (Job) David Lopez (Sales Representative US East)

To check the warehouse stock of a material, use the *Stock – Multiple Materials* app in the *Sales and Distribution* area in the *Sales Representative* role.

Initial Screen



This takes you to the default view of the app. Due to the high quantity of materials, we recommend that you do not search without further restrictions. Therefore, use the input help symbol  in the *Material Number* field.

In the dialog box that appears, enter ***###** in the *Material* field and **enter GCBK*** as the *description*.

*###
GCBK*

Description	Language	Material
GLOBAL BASIC SPORT & COMMUT...	EN	GCBK1100
GLOBAL ENDURANCE SPORT & CO...	EN	GCBK2100
CARBON GLOBAL SPORT & COMM...	EN	GCBK3100

Global Basic Sport &
Commute Bike
Global Endurance Sport
Commute Bike
Carbon Sport Commute
Bike

HD00
FG00

Choose **Go** to generate a results list of all materials that contains "Commute" and whose material key ends with "####". Select the **Global Basic Sport & Commute Bike**, the **Global Endurance Sport Commute Bike** and the **Carbon Global Sport Commute Bike**. Click **OK** to apply the selection.

Back in *Stock – Multiple Materials Overview* screen, enter **HD00 (Heidelberg)** as *the plant* and **FG00 (Finished Goods)** as *the storage location*. Choose **Go** to display the corresponding warehouse stocks.

< **SAP** Stock - Multiple Materials ▾

Standard ▾

Material: 3 Items Plant: Global Bike Ger... X Storage Location: Base Unit: Reporting Date:

Materials (3)

Material	Material Description	Plant	Plant Name	Storage Loc...	Description of Storage Loc...	Special Stoc...	Special Stock Type Descripti...
GCBK3100	Carbon Global Sport & Commute Bike	HD00	Plant Heidelberg	FG00	Finished Goods	E	Orders on Hand
GCBK2100	Global Endurance Sport & Commute ...	HD00	Plant Heidelberg	FG00	Finished Goods		
GCBK1100	Global Basic Sport & Commute Bike	HD00	Plant Heidelberg	FG00	Finished Goods		

Note Special stock type "E" for orders on hand are materials that are procured or produced as part of a sales order and are directly assigned to a specific sales order. These materials are managed separately from the general warehouse stock because they are already "reserved" for a customer and are not to be used for other orders.

This report shows the stock levels for the plant in Heidelberg. Scroll to the right to see the unrestricted-use warehouse stocks.

Unrestricted Stock		Stock in Quality Inspection		Blocked Stock	
10	EA	0	EA	0	EA
5	EA	0	EA	0	EA
15	EA	0	EA	0	EA
30	EA	0	EA	0	EA

Click **SAP** to return to the SAP Fiori launchpad.



Step 46: Track Sales Order

Task Track the processing status of the sales order.

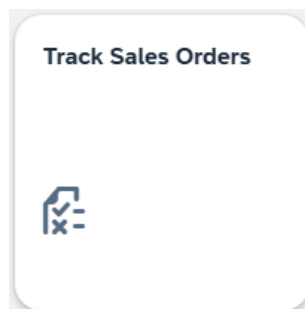
Time 10 min

Description Use the SAP Fiori launchpad to track the sales order.

Name (Job) David Lopez (Sales Representative US East)

To track a sales order, you use the *Track Sales Orders* app in the *Sales Representative* role in the *Sales* area.

Initial Screen



This takes you to the default view of the app. In the *Cust. Reference* field, enter your number (###) and press **Go**.

###

Your standard order is displayed in the results list. Here, you can already see initial details such as the *net value* or the *fulfillment status*. You can also check the sold-to party in one of the columns at the bottom.

Click this line. You are navigated to *Track Sales Order Details View* where you can see all the details.

Fulfillment Standard Order 37

Delivery Not Started / Not Relevant for Invoicing

Shipping Status:

Delivery Not Started

Invoicing Status:

Not Relevant for Invoicing

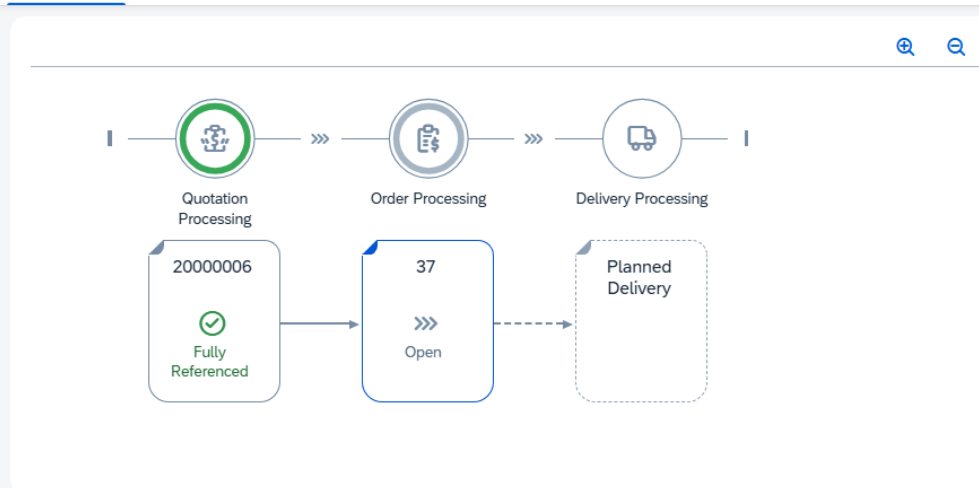
Net Value: 75.287,50 EUR

Requested Delivery Date: 08/08/2025

Items:

3**Process Flow**

Items

**Items****Item Processing Details (3)** Standard*

Item	Product	Order Quantity		Shipped Quantity		
10	Global Basic Sport & Commute Bike (GCBK1100)	15	EA	0	EA	>
20	Global Endurance Sport & Commute Bike (GCBK2100)	5	EA	0	EA	>
30	Carbon Global Sport & Commute Bike (GCBK3100)	10	EA	0	EA	>

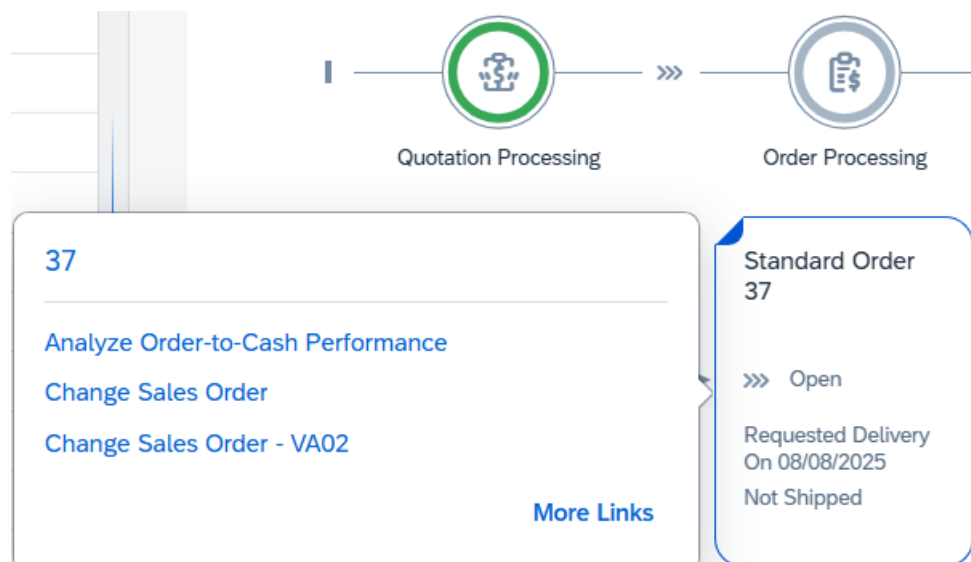
For example, you can see that the processing of the quotation is completely processed ("fully referenced"), but the processing of the forward order is currently still "open". You can also see the requested delivery date of the order and the planned delivery from the overview.

Click the *Items* tab. Here you can see a list of the ordered bicycles and the quantity of billed or already shipped quantity.

Items

Item Processing Details (3) Standard* ⌵					
Item	Product	Order Quantity		Shipped Quantity	
10	Global Basic Sport & Commute Bike (GCBK1100)	15	EA	0	EA >
Invoiced Quantity: 0 EA Shipping Status: Delivery Not Started Invoicing Status: Not Invoiced					
20	Global Endurance Sport & Commute Bike (GCBK2100)	5	EA	0	EA >
Invoiced Quantity: 0 EA Shipping Status: Delivery Not Started Invoicing Status: Not Invoiced					
30	Carbon Global Sport & Commute Bike (GCBK3100)	10	EA	0	EA >
Invoiced Quantity: 0 EA Shipping Status: Delivery Not Started Invoicing Status: Not Invoiced					

Go back to the *Process Flow* tab and click your standard order. The following context menu opens.



Choose **More Links** and in the dialog box that opens, choose *Display Sales Order – VA03*. The related app opens automatically.

< **SAP** Display Standard Order 37: Overview ▾

Menu ▾

Standard Order: 37 Net Value: 75.287,50 EUR

Sold-to Party: 1003091 Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany

Ship-to Party: 1003091 Company Elbe Cycle 100, Main Street 7, 39106 Magdeburg, Germany

Cust. Reference: 100 Cust. Ref. Date: 08/08/2025

Sales Item Overview Item detail Ordering party Procurement Shipping Reason for rejection

Req. Deliv.Date: D 08/08/2025 Deliver.Plant:

Complete Div.: ☐ Total Weight: 255.300 G

Delivery Block: ☐ Volume: 0,000

Billing Block: ☐ Pricing Date: 08/08/2025

Pyt Terms: 0001 Pay immediately w/o deduction

Inco. Version:

Incoterms: FOB

Inco. Location1: Magdeburg

All Items

Item	Material	Req. Segment	Order Quantity	Un	S	Item Description	Cu
☐ 10	GCBK1100		15 EA	☒		Global Basic Sport & Commute Bike	
☐ 20	GCBK2100		5 EA	☒		Global Endurance Sport & Commu...	
☐ 30	GCBK3100		10 EA	☒		Carbon Global Sport & Commute ...	

In the *All Items* area, select the row with the **Global Endurance Sport & Commute Bike** and click  (*Display Availability*) to check the availability in detail.

Global Endurance Sport
& Commute Bike

< **SAP** Availability Overview ▾

Menu ▾

Material: GCBK2100

Description: Global Endurance Sport & Commute Bike

Plant: HD00 Avail. check: 02 Check.rule: A

MRP Area: HD00 With reqmts qtys: ☐

End lead time: 08/17/2025

Base Unit: EA

Totals display

Receipts: 5

Issues: 5 Confirmed issues: 5

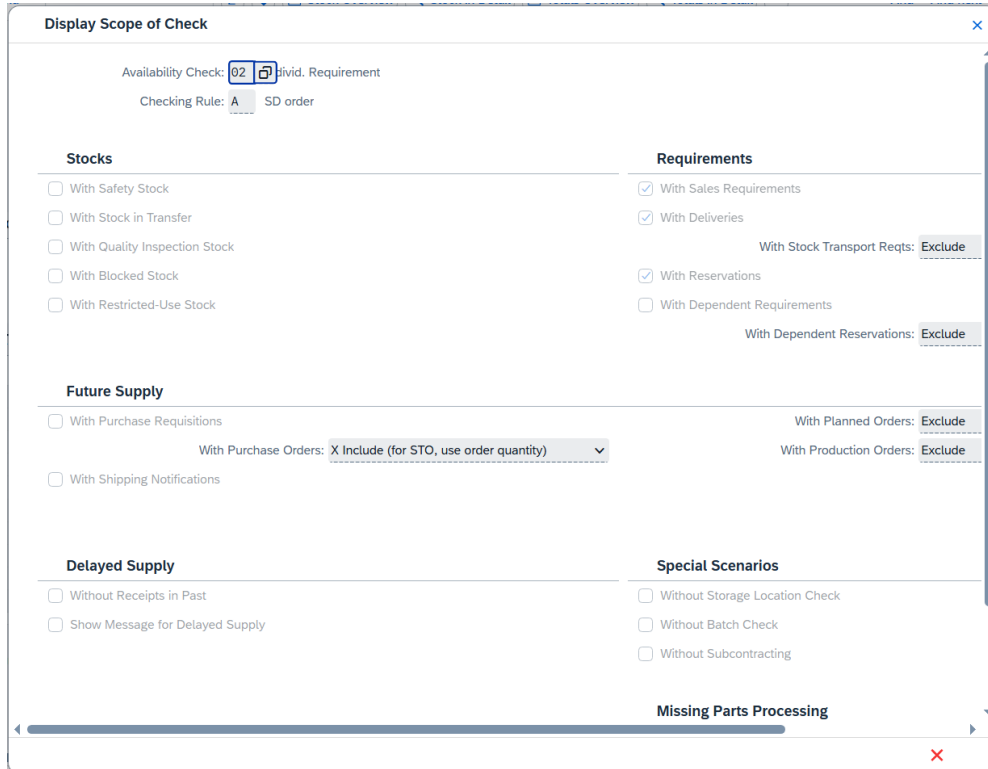
ATP situation

Date	MRP e...	Stock Segment	MRP element data	Rec./reqd qty	Confirmed	Cum. ATP qty
☐ 08/12/2025	Stock			5		0
☐ 08/08/2025	CusOrd		Totals record	5	0	0
☐ 08/13/2025	CusOrd		Totals record	0	5	0
☐ 08/12/2025	SLocSt		FG00	5		5

The *availability overview* shows that in this case, 5 bicycles exist in the plant stock and 5 would be issued for your sales order.

Note Your stock list might show different stock quantities.

Choose  **Scope of check**. If this is not displayed, you can find the entry in the pull-down menu under **Menu** ► **Scope of Check**. The subsequent window appears.



This screen shows the elements that are taken into account when the availability check is executed. For example, under *Future Receipt*, purchase orders are included, which means that a purchase order increases the available stock on the day of receipt. Click  to close the popup and  to return to the standard order overview.

When you display the availability overview for bike GCBK3###, you will notice that the materials do not exist in the plant stock, but in the sales order stock. This means that the material is intended for this sales order. Click  to return to the overview of the standard order.

Select the **Global Basic Sport & Commute Bike** and click  (Item Conditions) to view the conditions again. Note that the two discounts were applied manually to this item.

Global Basic Sport &
Commute Bike

< **SAP** Display Standard Order 37: Item Data ▾

Menu ▾   

Sales Document Item: 10 Item Category: TAN Standard Item
 Material: GCBK1100 Global Basic Sport & Commute Bike

Sales A Sales B Shipping Billing Document **Conditions** Account Assignment Schedule lines

Quantity: 15 EA Net: 20.662,50 EUR
 Tax: 3.925,88

Pricing Elements

	I...	CnTy	Description	Amount	Crcy	per	UoM	Condition Value	Crcy	Sta
☐	■	PR00	Price	1.500,00	EUR		1 EA	22.500,00	EUR	
☐			Gross Value	1.500,00	EUR		1 EA	22.500,00	EUR	
☐	■	K004	Material	50,00-	EUR		1 EA	750,00-	EUR	
☐	■	RA00	% Discount from Net	5,000-	%			1.087,50-	EUR	
☐			Discount Amount	122,50-	EUR		1 EA	1.837,50-	EUR	
☐			Rebate Basis	1.377,50	EUR		1 EA	20.662,50	EUR	
☐			Net Value for Item	1.377,50	EUR		1 EA	20.662,50	EUR	
☐			Net Value 2	1.377,50	EUR		1 EA	20.662,50	EUR	
☐			Net Value 3	1.377,50	EUR		1 EA	20.662,50	EUR	
☐	■	MWST	Output Tax	19,000	%			3.925,88	EUR	
☐			Total	1.639,23	EUR		1 EA	24.588,38	EUR	
☐	■	SKTO	Cash Discount	0,000	%			0,00	EUR	
☐	■	VPRS	Internal price	1.058,00	EUR		1 EA	15.870,00	EUR	
☐			Profit Margin	319,50	EUR		1 EA	4.792,50	EUR	

Click **SAP** to return to the SAP Fiori launchpad.

Step 47: Create Outbound Delivery

Task Start the delivery process with the creation of an outbound delivery.

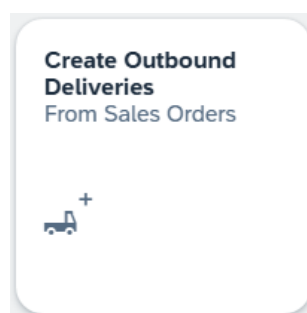
Time 5 min

Description To start the delivery process that is to fulfill the sales order of Elbe Cycle ###, you need to trigger the outbound delivery and create an outbound delivery document. To do this, you use the SAP Fiori launchpad.

Name (Job) Sergey Petrov (Warehouse Employee)

To start the delivery process, use the *Create Outbound Deliveries - From Sales Orders* app in the *Warehouse Employee* role of *Sales*.

Initial Screen



Shipping processes are triggered by the creation of deliveries. The responsible organizational unit for creating outbound deliveries is the **shipping point**. The shipping point can be a loading ramp, a post office, or a rail freight depot. Furthermore, the shipping point can, for example, consist of a group of employees who are responsible for organizing urgent deliveries.

The app starts with a collapsed header section. Expand it by clicking on .

On the search screen, in the *Ship-to Party* field, enter your **business partner number** (Elbe Cycle ###).

Business Partner
Number (Customer)

Note If you have forgotten your BP number, alternatively, click the value help icon  in the *Ship-to Party* field. The system displays a dialog box. In the *Name 1* field, enter **Elbe*** and press .

Ship-to Party

Search and Select Define Conditions

Search  

Customer:  Customer Name 1:  Business Partner Name 1:  Customer Name 2: 

Business Partner Name 2:  Country/Region:  City:  

Items (3)

☐	Customer	Customer Name 1	Business Partner Name 1	Customer Name 2	Busi
☐	1003072	Elbe Cycle 654	Elbe Cycle 654		
☐	1003088	Elbe Cycle 000	Elbe Cycle 000		
☐	1003091	Elbe Cycle 100	Elbe Cycle 100		

Select your customer and copy the entry with **OK**.

In addition, enter **HD00** as *the shipping point* and remove the *Planned Creation Date*. Press **Go** to execute the search. The prepared sales order is displayed.

Select your sales order and choose the **Create Deliveries (1)** button. You can see that the sales order is no longer available. You receive a confirmation that your outbound delivery has been created.

< **SAP** Create Outbound Deliveries ▾

Standard ▾

Ship-to Party: Shipping Point: Planned Creation Date: Priority: Sales Document:

Relevant for TM:

Go

Sales Orders Due for Delivery (1) **Create Deliveries (1)** [Display Log](#) [Schedule Delivery Creation](#)

✓	Planned Creation...	Sales Document	Planned GI Date	Priority	Shipping Point
✓	08/13/2025	37	08/17/2025	Normal item (02)	SP Heidelberg (HD00)

Ship-To Party: Elbe Cycle 100 (1003091)
Gross Weight: 255.300,000 G

Logs created: 1

Click **SAP** to return to the SAP Fiori launchpad.

Step 48: Track Sales Order

Task Track the processing status of the sales order.

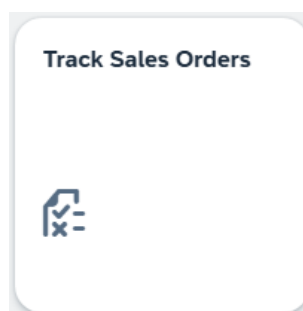
Time 5 min

Description As a Sales Representative, you want to know whether the colleagues from the warehouse have already triggered the outbound delivery. Therefore, you want to find out about the current status of the sales order again and use the tracking function of the SAP Fiori launchpad again.

Name (Job) David Lopez (Sales Representative US East)

To track a sales order, you use the *Track Sales Orders* app in the *Sales Representative* role in the *Sales* area.

Initial Screen



This takes you to the default view of the app. In the *Cust. Reference* field, enter your number (###) and press **Go**.

###

SAP Track Sales Orders

Standard

Search

Sales Document: Sold-to Party: Customer Reference: 100 Requested Delivery Date:

Overall Status: Document Date:

Go Adapt Filters (1)

Sales Documents (1) Standard

Create Reject All Items Set Delivery Block Remove Delivery Block Set Billing Block

Sales Document	Overall Fulfillment	Process Phase	Requested Delive...	Net Value
37	»»	Delivery Processing	08/08/2025	75.287,50 EUR

Your standard order is displayed. You can now also see changes to the previous state. The *overall fulfillment* is now *Partially Processed* and the *processing of orders* is *completely processed*.

Sales Documents (1) Standard

Create Reject All Items Set Delivery Block Remove Delivery Block Set Billing Block

Sales Document	Overall Fulfillment	Process Phase	Requested Delive...	Net Value
37	»»	Delivery Processing	08/08/2025	75.287,50 EUR

Order Processing:

Supply Processing:

Delivery Processing:

In Transit:

Invoicing:

Accounting:

Sold-to Party: Elbe Cycle 100 (1003091)

Document Date: 08/08/2025

Click this line. You are navigated to *Track Sales Order Details* View where you can see all the details.

Track Sales Order Details

Fulfillment Standard Order 37
Not Shipped / Not Invoiced

Shipping Status: **Not Shipped** Invoicing Status: **Not Invoiced** Net Value: 75,287,50 EUR Items: 3
Requested Delivery Date: 08/08/2025

Process Flow Items

```

graph LR
    A[Quotation Processing] --> B[Order Processing]
    B --> C[Delivery Processing]
    C --> D[Invoicing]
  
```

Quotation Processing
Quotation 20000006
Fully Referenced
Valid To 09/08/2025

Order Processing
Standard Order 37
Completed
Requested Delivery On 08/08/2025
Not Shipped

Delivery Processing
Outbound Delivery 80000027
Open
Shipping Planned For 08/17/2025
Open Transp.Planning

Invoicing
Planned Invoice
Billing Planned For 08/17/2025

In the overview that opens, you can see the completed standard order and the delivery that is still open. In addition, billing has already been scheduled automatically by the system. In the header area, the shipping status (*Not Shipped*; Before: *Delivery Not Started*) and the invoicing status (*Not Invoiced*, previously: *Not Relevant for Billing*) have also changed.

Click to return to the SAP Fiori launchpad.

Step 49: Pick and Goods Issue

Task Pick the materials and post the goods issue.

Time 5 min

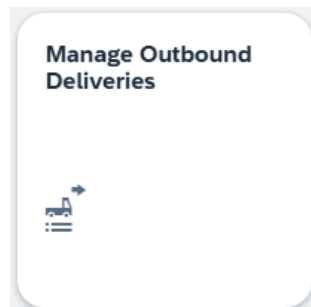
Description During picking, the materials are withdrawn from the warehouse in the correct quantity. When you do this, the outbound delivery document is changed automatically. The goods issue then changes the ownership of the material from Global Bikes to Elbe Cycle ###.

Use the SAP Fiori launchpad to pick materials and post goods issue.

Name (Job) Sergey Petrov (Warehouse Employee)

Picking a material changes the outbound delivery document, whereas the goods issue then changes the ownership of the material from Global Bike to Elbe Cycle. To do this, you use the *Manage Outbound Deliveries* app in the Warehouse Employee role in Sales and *Distribution*.

Initial Screen



The app starts with a collapsed header section. Expand it by clicking on . In the Ship-to Party field, enter your **business partner number**.

Business Partner Number

Note If you have forgotten your BP number, proceed as described in the previous steps.

In addition, select **All Open Deliveries** as *the overall status*. To execute the search, press . Your outbound delivery is now displayed.

All Open Deliveries

Delivery Document	Picking Date	Priority	Picking Status	Confirmation Status
80000027	08/13/2025	Normal item (02)	Not Yet Processed (A)	Not Relevant

You can see that neither picking nor goods issue have been processed so far.

Then choose **Pick** to start picking. The *Pick Outbound Delivery* app opens automatically. Your outbound delivery is already preselected.

< **SAP** Pick Outbound Delivery Q ⓘ

Delivery: 80000027 📄

Delivery Header

Delivery: 80000027

Actual GI Date: e.g. 12/31/2025 📄 Gross Weight: 255.300 G

Planned GI Date: 08/17/2025 Net Weight: 255.300 G

Picking Status: Not Yet Processed

Confirmation Status: Not Relevant

[Show More](#)

0 of 3 Picking >> 0 GI Not Ready 0

Delivery Items (3)						
☐	Item	Material	Delivery Quantity		Picking Quantity	
☐	00001	Global Basic Sport & Commute Bike (GCBK1100)	15	EA 📄	0	EA
☐	00002	Global Endurance Sport & Commute Bike (GCBK2100)	5	EA 📄	0	EA
☐	00003	Carbon Global Sport & Commute Bike (GCBK3100)	10	EA 📄	0	EA

In the *Delivery Items* area, enter the appropriate quantities in the *Picking Quantity* field: for your GCBK1### 15, for your GCBK2### 5, and for GCBK3### 10.

3 of 3 Picking >> 0 GI Ready 0

Delivery Items (3)						
☐	Item	Material	Delivery Quantity		Picking Quantity	
☐	00001	Global Basic Sport & Commute Bike (GCBK1100)	15	EA	15	EA
☐	00002	Global Endurance Sport & Commute Bike (GCBK2100)	5	EA 📄	5	EA
☐	00003	Carbon Global Sport & Commute Bike (GCBK3100)	10	EA 📄	10	EA

Picking is the process of preparing or staging goods for delivery to the customer, with special attention to data, quantity, and quality.

At the end of the line of the Global Basic Sport & Commute Bikes, choose **>**.

In the *Delivery Item 1 of 3* window, in the *Storage Location* field, enter **FG00** (*Finished Product*).

15
5
10

FG00

Delivery Item 000010

Sales Order:	37	Material:	Global Basic Sport & Commute Bike (GCBK1100)
Sales Order Item:	000010	Gross Weight:	127.650 G
Item Type:	Standard Item (TAN)	Net Weight:	127.650 G
		Volume:	0
Original Delivery Quantity:	15 EA	Plant:	Plant Heidelberg (HD00)
Picking Quantity:	15 EA	Storage Location:	FG00
Delivery Quantity:	15 EA		Finished Goods
Conversion Rate:	1 EA : 1 EA	Storage Bin:	
Base Unit Delivery Quantity:	15 EA	Material Availability:	08/13/2025

Click **Apply** and repeat this step for materials **GCBK2###** and **GCBK3###**.

GCBK2###
GCBK3###

Back on the *Pick Outbound Delivery* screen, choose **Save**. You receive a corresponding message from the system. In addition, the page content changes. Picking is now complete, goods issue is ready.



In the lower part of the screen, you can now click on **Post GI** to post the goods issue. The page content changes again. Both picking and goods issue are now completed.

Click **SAP** to return to the SAP Fiori launchpad.



Step 50: Display stock

Task Display the stock of your materials again.

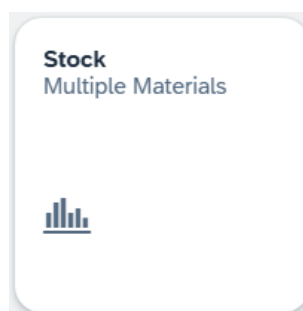
Time 5 min

Description She now wants to know what effect the goods issue has on the warehouse stock. Therefore, you use the SAP Fiori launchpad to recheck the material stock.

Name (Job) David Lopez (Sales Representative US East)

To check the warehouse stock of a material in the sales order for The Bike Zone, use the *Stock – Multiple Materials* app in the *Sales and Distribution* area in the *Sales Representative* role.

Initial Screen



This takes you to the default view of the app. Due to the high quantity of materials, we recommend that you do not search without further restrictions. Therefore, use the input help symbol  in the *Material Number* field.

In the dialog box that appears, enter ***###** in the *Material* field and **enter GCBK*** as the *description*.

*###
GCBK*

	Description	Language	Material
☒	GLOBAL BASIC SPORT & COMMUT...	EN	GCBK1100
☒	GLOBAL ENDURANCE SPORT & CO...	EN	GCBK2100
☒	CARBON GLOBAL SPORT & COMM...	EN	GCBK3100

Choose  to generate a results list of all materials that contains GCBK and whose material key ends with ###. Select the **Global Basic Sport & Commute Bike**, the **Global Endurance Sport & Commute Bike** and the

Global Basic Sport &
Commute Bike
Global Endurance Sport
& Commute Bike

Carbon Global Sport & Commute Bike. Click **OK** to apply the selection.

Back in *Stock – Several Materials Overview* screen, enter **HD00 (Heidelberg)** as the *plant* and **FG00 (Finished Goods)** as the *storage location*. Choose **Go** to display the corresponding warehouse stocks.

< **SAP** Stock - Multiple Materials ▾

Standard* ▾

Material: Plant: Storage Location: Base Unit:

You will notice that the system does not find any data. This is because you have booked out all the products that have been produced and were in stock to fulfill the sales order.

Note Alternatively, you can also display the stock of your materials using the **Stock - Single Materials** app. In this app, you would keep information that 0 materials are available after goods issue.

< **SAP** Stock - Single Material ▾ Q

Material:

Global Basic Sport & Commute Bike GCBK1100

Material Type: Finished Product (FERT)
Base Unit of Measure: each (EA)

⬆ ⬇

Stock by Plant/Storage Location ▾ ⬆ Reporting Date 08/12/2025 ⬇

Plant	Storage Location	Unrestricted-Use Stock	Blocked Stock	Quality Inspection Stock	Restricted-Use Stock	Returns	Stock in Transit	Tied Empties Stock	Transfer Stock (Plant)	Transfer Stock (Storage Location)
Plant Heidelberg HD00		0,000 EA	0,000 EA	0,000 EA	EA	0,000 EA	0,000 EA	0,000 EA	0,000 EA	0,000 EA
	Finished Goods FG00	0,000 EA	0,000 EA	0,000 EA	EA	0,000 EA				0,000 EA

Click **SAP** to return to the SAP Fiori launchpad.

Step 51: Create Customer Invoice

Task Create a customer invoice.

Time 5 min

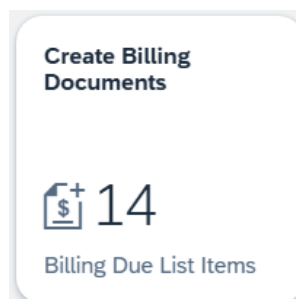
Description After the materials are fully delivered, accounting is informed. Now an invoice can be created. However, it is not yet sent or posted.

Use the SAP Fiori launchpad to create the invoice for customer Elbe Cycle ###

Name (Job) Stephanie Bernard (AR Accountant)

With the complete delivery, an invoice can be created for the customer. To do this, you use the *Create Billing Documents* app in the role *Accounts Receivable Accountant* in the area of *Sales and Distribution*.

Initial Screen



In the *Create Billing Documents* view, all billing due list items are automatically listed. For a better overview, the list is restricted. To do this, enter your **business partner number** in the *Sold-To Party* field.

Business Partner Number (Customer)

Note If you have forgotten your BP number, proceed as described in the previous steps.

Apply the new filter, click **Go**. Now your SD document is displayed.

< **SAP** Create Billing Documents ▾

Standard ▾

SD Document: SD Document Category: ▾ Sold-to Party: Billing Date: **Go**

Billing Due List Items (1) [Create Billing Documents](#) [Billing Settings](#)

☒	SD Document	SD Document Category	Sold-to Party	Billing Date	Net Value
☒	80000027	Delivery	Elbe Cycle 100 (1003091)	08/12/2025	75,287,50 EUR

Select your SD documents and choose **Create Billing Documents**. The system prepares the customer invoice: the date and sold-to party are copied from the previous selection.

< **SAP** Manage Billing Documents ▾

Invoice

TMP0000012

Payer Elbe Cycle 100 (1003091)	Sold-to Party Elbe Cycle 100 (1003091)	Billing Document Status Temporary	Net Value 75.287,50 EUR	Tax Amount 14.304,63 EUR	Total Amount 89.592,13 EUR
-----------------------------------	---	--------------------------------------	----------------------------	-----------------------------	-------------------------------

General Information Terms and Conditions Items Business Partners Accounting Data Process Flow Pricing Data

Document Data

Billing Date: 08/12/2025

Billing Type: Invoice (F2)

Reference: 100

Customer Reference: 100

Organizational Data

Company Code: Global Bike Germany GmbH (DE00)

Sales Organization: Germany South (DS00)

Distribution Channel: Wholesale (WH)

Division: Bicycles (BI)

Sales District: North Germany (DE0001)

Additional Data

Shipping Conditions:

Man. Invoice Maint.:

In particular, take a look at the total amount (incl. Tax) and keep it in mind. Select the *Process Flow* tab. Here, you can track the pre-executed steps that are relevant for the customer invoice.

Process Flow

```

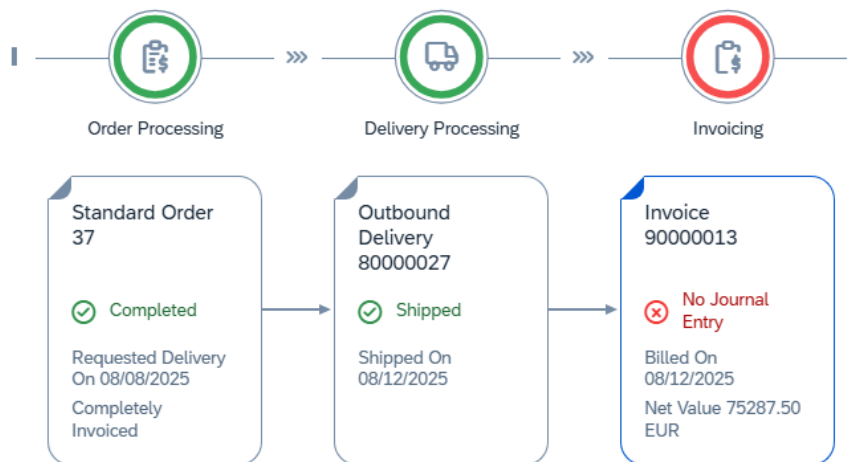
graph LR
    OP((Order Processing)) --> DP((Delivery Processing))
    DP --> INV((Invoicing))
  
```

Order Processing	Delivery Processing	Invoicing
Standard Order 37 Completed Requested Delivery On 08/08/2025 Not Invoiced	Outbound Delivery 80000027 Shipped Shipped On 08/12/2025	Invoice TMP0000012 Completed Billed On 08/12/2025 Net Value 75287.50 EUR

Proceed to the "Price Elements" tab page. As a billing clerk, you can see the discounts granted during quotation creation and how the total price is calculated. Take a look at the overview. To save the customer invoice, choose **Save**.

After checking the invoice items and saving, the temporary invoice is transferred to an official invoice. However, the process flow informs you that a journal entry has not yet been created because the invoice has not yet been posted.

Process Flow



Click  to return to the SAP Fiori launchpad.



Step 52: Post Customer Invoice

Task Display the customer invoice and then post it.

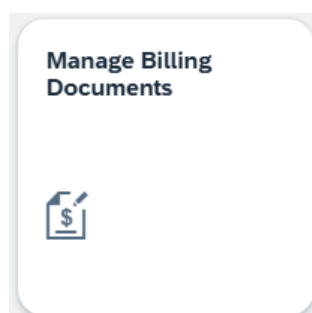
Time 5 min

Description The invoice for Elbe Cycle ### has just been created. Now use the SAP Fiori launchpad to display and post them.

Name (Job) Stephanie Bernard (AR Accountant)

After the invoice has been sent to Elbe Cycle, it must now be posted. You can do this in the *area of Sales and Distribution* in the *Accounts Receivable Accountant* role using the *Manage Billing Documents* app.

Initial Screen



In the subsequent *Manage Billing Documents* window, enter your **business partner number** in the *Sold-To Party* field.

Business Partner Number

Alternatively, in the *Sold-To Party* field, click the value help icon  and search for your business partner using your number (###), as in the previous step.

###

Choose  to display your invoice.

Your billing document now has the status "To Be Posted". Select your entry and choose . This sends the invoice to the customer.

<  Manage Billing Documents >

Standard* ▾

Search Billing Document: Billing Type: Sold-to Party: Billing Document Sta

Billing Date:



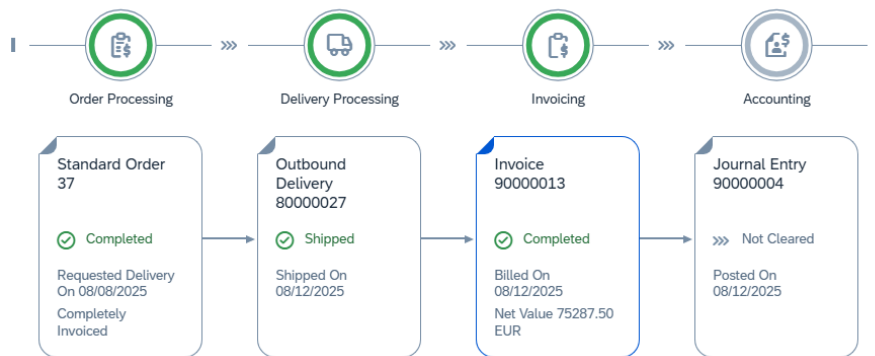
Billing Documents (1) Display Display Split Analysis Cancel Post

Billing Document	Billing Type	Sold-to Party	Billing Document Status	Billing Date
☒ 90000013	Invoice (F2)	Elbe Cycle 100 (1003091)	To Be Posted	08/12/2025

Net Value: 75.287,50 EUR

You can then call up the invoice again by clicking on the line. Navigate to the *Process Flow* area. You will notice that the invoice is now highlighted in green instead of red and that a journal entry has already been created.

Process Flow



Click  to return to the SAP Fiori launchpad.



Step 53: Post Incoming Payment

Task Post an incoming payment from the customer.

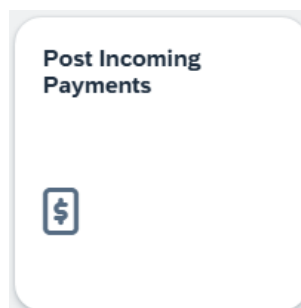
Time 15 min

Description Use the SAP Fiori launchpad to post the incoming payment of a customer.

Name (Job) Stephanie Bernard (AR Accountant)

You have since received the payment from Elbe Cycle ###. For entry, use the *Post Incoming Payments* app in the *Accounts Receivable Accountant* role in *Sales and Distribution*.

Initial Screen



In the *General Information* area, enter **DE00** (Global Bikes Germany) as the company code. In the *Posting Date* and *Journal Entry Date* fields, use  (*Open Selection*) to enter the **current date**. In the *Period* field, also select the **current period** (for example, **09** for September). Ensure that **DZ** (*Customer Payment*) is selected as the journal entry type.

DE00

Current date
Current Period

DC

Under *Bank Data*, select **1810000** (Bank 1) as the *G/L account*. In addition, add **EUR 89,592,13** (including 19% tax) as the *amount*. Under *Open Item Selection*, on the other hand, you select **Customer** as the account type and your **business partner number** in the field directly next to it. Compare your entries with the following screenshots.

1810000
EUR 89,592,13
Customer
Business Partner
Number

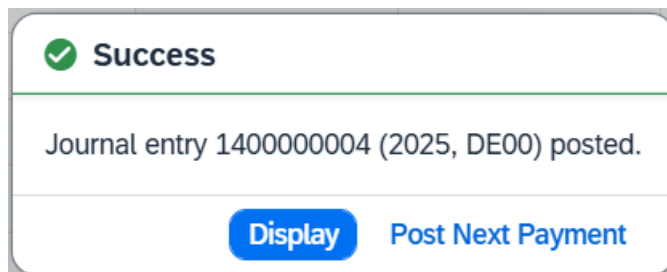
Click **Propose Items**. In the upper part of the screen, you can see that the balance has changed. This is at **Saldo: -89.592,13 EUR** due to the open customer invoice. In the *Open Items* section, the system also proposes the journal entry from the previous steps.

Open AP/AR Items (1) Standard*									
Compa...	Account	Journal Entry	Journal ...	Item Text	Journal Ent...	Net Due Date	Amount (EU...	Assignment	Clear
DE00	1003091	90000004	RV		08/12/2025	08/12/2025	89.592,13	0090000013	Clear >>

Choose [Clear >>](#) in the row of the journal entry. The open items are added to the items to be cleared and cleared with the incoming payment entered.

Items to Be Cleared (1) Standard					
Remove	Journal Entry	Open Amount (E...	Allocated Amount	Discount Amount	Invoice Reference
<<	90000004	89.592,13 ⓘ	89.592,13	0,00	

Since the incoming payment covers the entire amount, the balance is cleared again with **Balance: 0,00 EUR**. Click [Post](#) to save the incoming payment. The system will automatically assign a number to it.



Choose [Display](#) to display the journal entry in addition. In the Manage Journal Entries view, you can view the individual posting items.

Manage Journal Entries

Journal Entry (1400000004) - Entry View

Header
0 Attachments
0 Notes
8 Related Documents

Journal Entry Date: 08/12/2025
Posting Date: 08/12/2025
Posting Period: 8 / 2025
Journal Entry Type: DZ (Customer Payment)

Company Code: DE00 (Global Bike Germany GmbH)
Transaction Currency: European Euro (EUR)

Reference: -
Reference Document Type: BKPFF (Actg Doc.Direct Inpt)
Reference Key: 1400000004DE002025
Header Text: -
Journal Entry Created By: Learn-501 Learn-501 (LEARN-501)
Entered At (Local Time): 08/12/2025, 05:37 PM

Show More

Line Items (2) Standard
T-Account View

Posting View I...	G/L Account	Profit Center	Debit	Credit
000001	1810000 (Bank 1)		89.592,13 EUR	0,00 EUR >
000002	1200000 (Trade receivables)		0,00 EUR	89.592,13 EUR >

Note Global Bikes has received a payment from customer Elbe Cycle ### in the amount of EUR 89,592.13. Therefore, this amount is credited to the bank account (debit). At the same time, this amount is deducted from the open receivables (credit) because the customer's debt was paid by the payment. The postings adhere to the principle of double-entry bookkeeping, in which each

business transaction is entered in both debit and credit so that the balance sheet of the company is correctly reflected.

Click  to return to the SAP Fiori launchpad.



Step 54: Display Document Flow

Task Display the document flow of the sales order.

Time 15 min

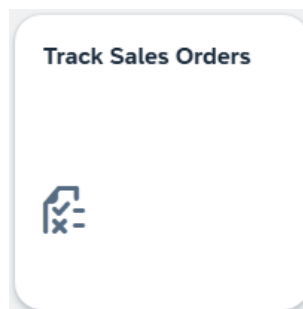
Description Finally, as a Sales Representative, you want to summarize the entire order. To do this, you can use the document flow. This tool connects all documents used in the Elbe Cycle ### sales order. There are some ways to access the document flow tool.

Use the SAP Fiori launchpad to access and analyze the document flow using a sales order document.

Name (Job) David Lopez (Sales Representative US East)

To track a sales order, you use the *Track Sales Orders* app in the *Sales Representative* role in the *Sales* area.

Initial Screen



This takes you to the default view of the app. In the *Cust. Reference* field, enter your number (###) and press **Start**.

###

Your standard order is displayed and you can see that its *overall fulfillment* is now *Fully Processed*. Also note the *processing of deliveries, billing, and accounting*.

< **SAP** Track Sales Orders ▾ 🔍 ⓘ LL

Standard ⁺ ▾ 📄 ▾

Search 🔍 Sales Document: 📄 Sold-to Party: 📄 Customer Reference: 100 Requested Delivery Date: 📅

Overall Status: ▾ Document Date: 📅 **Go** Adapt Filters (1)

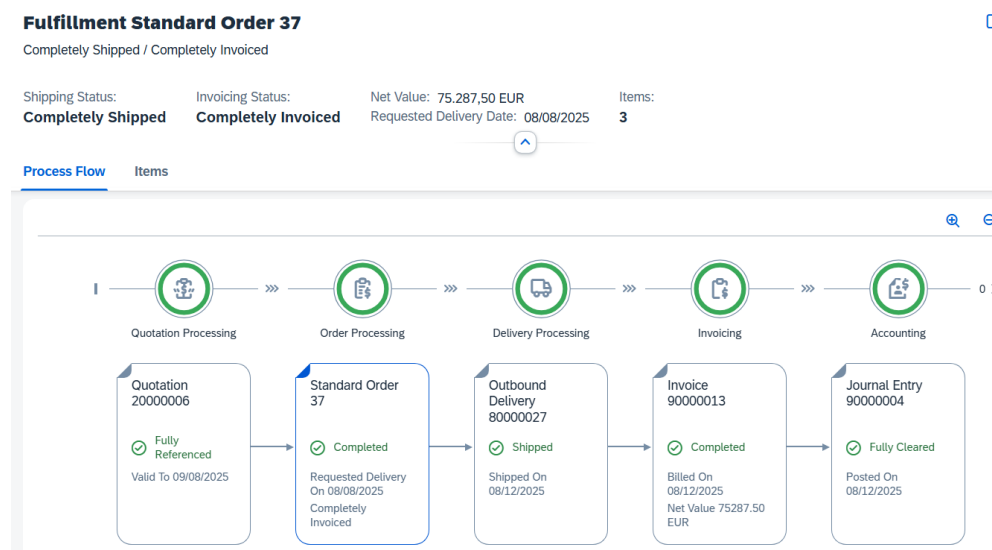
Sales Documents (1) **Standard** ▾ Create ▾ Reject All Items Set Delivery Block Remove Delivery Block Set Billing Block ⋮

✓ Sales Document	Overall Fulfillment	Process Phase	Requested Delive...
✓ 37	🟢	Accounting	08/08/2025 >
Net Value: 75.287,50 EUR Order Processing: 🟢 Supply Processing: Delivery Processing: 🟢 In Transit: Invoicing: 🟢 Accounting: 🟢 Sold-to Party: Elbe Cycle 100 (1003091) Document Date: 08/08/2025			

Click this line. You are navigated to *Track Sales Order Details View* where you can see all the details. For example, the *Fulfillment* section displays the document flow for the sales order. All related documents have been created and entered completely.

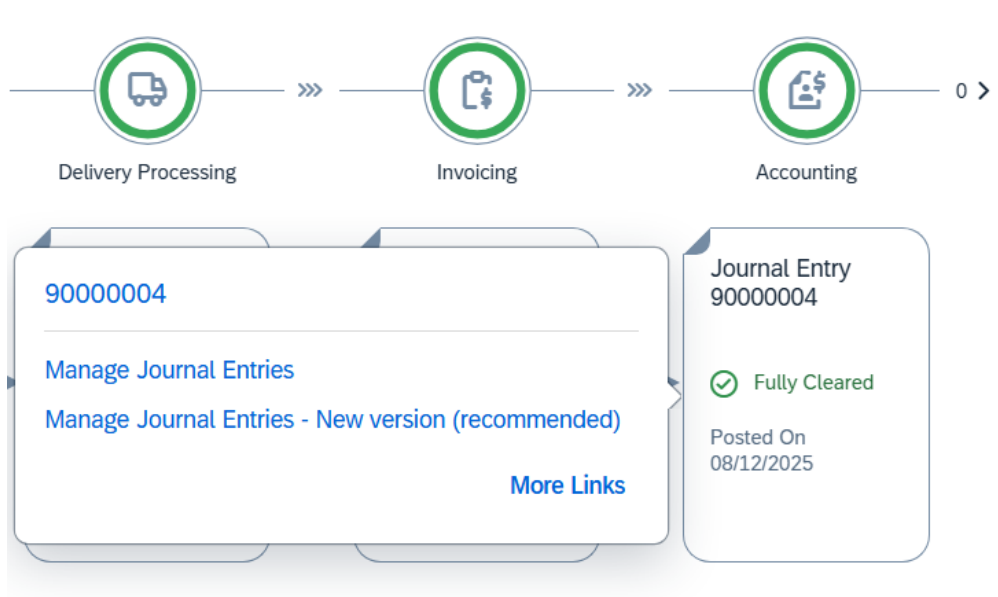
Fulfillment Filter Q	
Document	Fulfillment Status
▼ Fulfillment Standard Order 37	Completely Shipped / Completely Invoiced
▼ Standard Order 37	Completely Delivered
▼ Outbound Delivery 80000027	Completely Shipped
Invoice 90000013	Journal entry has been created

Depending on which document is selected, the content of the right-hand side of the screen changes. In this way, information about the outbound delivery or invoice can be viewed directly. When the standard order is fulfilled, the steps from quotation to invoice are also represented as a process flow. The respective documents can also be called from here.



As you can see, in the header section, both the shipping status (*Fully Shipped*) and the invoicing status (*Completely Invoiced*) have changed again. On the *Process Flow* tab page, choose the journal entry to open the context menu. Click *Manage Journal Entries* to open the corresponding app.

Manage Journal Entries



In the header data of the journal entry, you can view the line items. Here you can track each posting that has been made. On the other hand, you will notice that a “Granted Discounts” booking has been made several times. This is the 5% discount on the entire sales order for each individual order item, as well as the 50€ discount for the material GCBK1###.

< **SAP** Manage Journal Entries ▾ 🔍 ⓘ

Journal Entry (90000004) - Entry View ⓘ

Header 0 Attachments 0 Notes 8 Related Documents

Journal Entry Date: 08/12/2025 Company Code: DE00 (Global Bike Germany GmbH) Reference: 100
 Posting Date: 08/12/2025 Transaction Currency: European Euro (EUR) Reference Document Type: VBRK (Billing Document)
 Posting Period: 8 / 2025 Reference Key: 0090000013
 Journal Entry Type: RV (Billing Doc.Transfer) Header Text: -
 Journal Entry Created By: Learn-501 Learn-501 (LEARN-501)
 Entered At (Local Time): 08/12/2025, 05:31 PM

Show M

Line Items (9) Standard ▾ T-Account View ⚙️ 📄

Posting View I...	G/L Account	Profit Center	Debit		Credit	
000001	1200000 (Trade receivables)		89.592,13	EUR	0,00	EUR
000002	4000000 (Sales)		0,00	EUR	22.500,00	EUR
000003	4770000 (Rebates granted)		750,00	EUR	0,00	EUR
000004	4770000 (Rebates granted)		1.087,50	EUR	0,00	EUR
000005	3800000 (VAT)		0,00	EUR	14.304,63	EUR
000006	4000000 (Sales)		0,00	EUR	17.500,00	EUR
000007	4770000 (Rebates granted)		875,00	EUR	0,00	EUR
000008	4000000 (Sales)		0,00	EUR	40.000,00	EUR

Switch to the *Related Documents* tab page. Then expand the document flow completely.

Related Documents

Journal Entry (90000004) - Entry View ☺

Header	0 Attachments	0 Notes	8 Related Documents
Items (8)			
Document Type	Document No.	Journal Entry Type	
Accounting document	90000004	RV (Billing Doc.Transfer)	
Accounting document	1400000004	DZ (Customer Payment)	
CustIndivBillingDoc	0090000013		
Outbound Delivery	0080000027		
Sales Order	0000000037		
Customer Quotation	0020000006		
Customer Inquiry	0010000006		
Material Document	4900038121 2025		

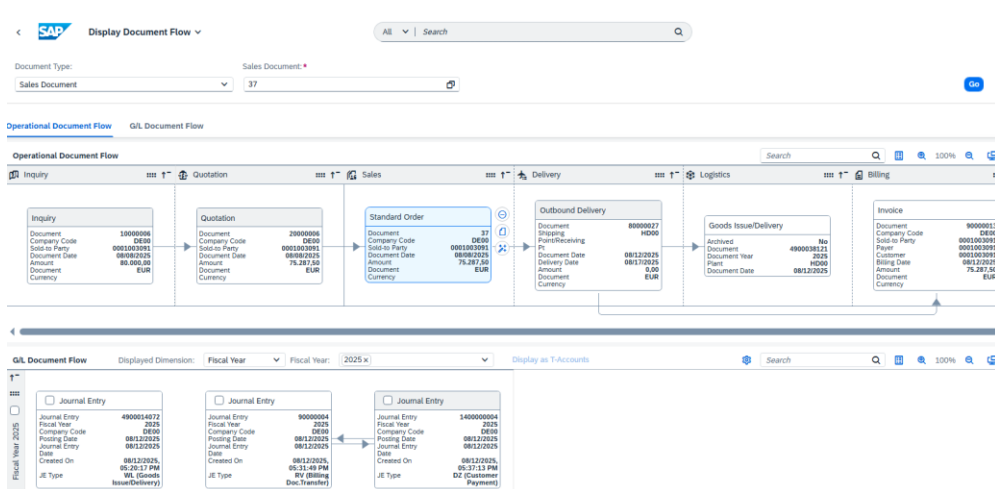
With the exception of the incoming payment, you can see all documents generated for the sales order. This also includes the sales inquiry and the material document including the accounting document of the outbound delivery.

Click the document number of the sales order to open the context menu. Click [More Links](#) and in the dialog box that opens, select the *Display Document Flow* app.

Define Link List Reset

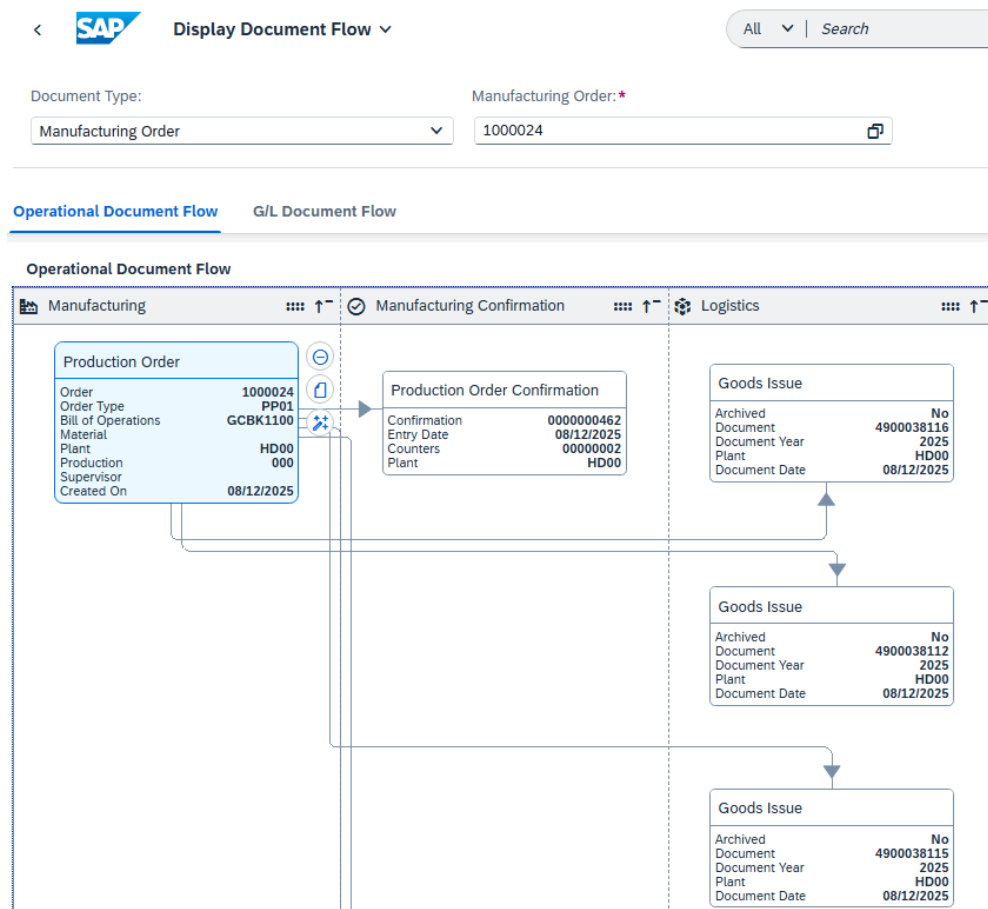
☐ Select All (3/20)
 ☒ Analyze Order-to-Cash Performance
 ☒ Create Sales Order
 ☒ Create Sales Order - VA01
 ☐ Create Sales Orders - Intercompany
 ☐ Delivery Performance
 ☐ **Display Document Flow - Sales Order**

On the following screen, you can see both the operational document flow and the general ledger document flow.



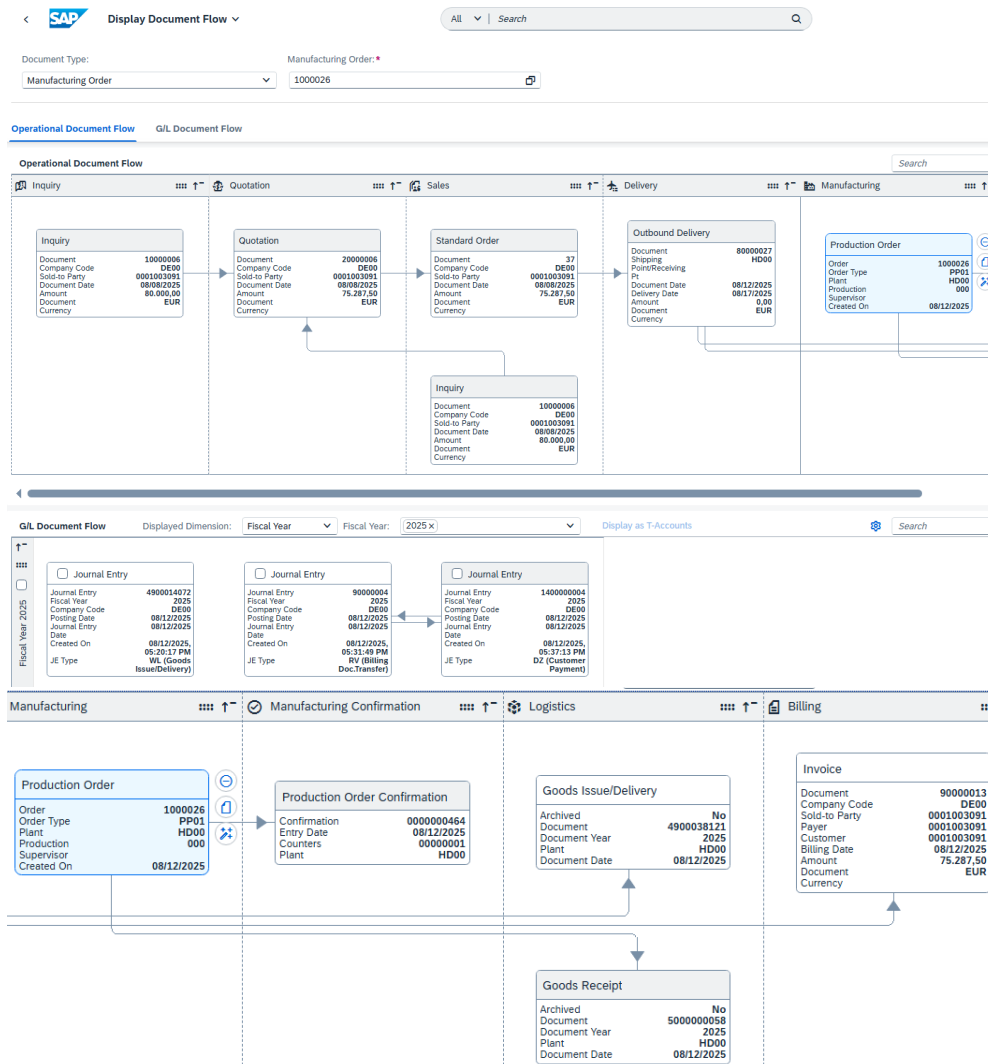
Also display the document flow for production order GCBK1### once. To do this, change the document type to Production Order and enter your production order number.

Since you have partially confirmed your production order for material GCBK1### once and finally confirmed once, two journal entries have been created here and a goods issue has also been posted twice. Another journal entry was created by the goods receipt in the finished goods warehouse.



Also display the document flow for production order GCBK3### once.

You will notice that this production order is linked to the sales order and that there are links between the sales order and the production order in each journal entry.



Click the invoice and then click  (Details).

The screenshot shows the SAP S/4HANA interface with a production order (10000026) and its associated documents. A dropdown menu is open, displaying various options for document management. The menu includes options like 'Change Billing Documents', 'Create Billing Documents', 'Display Billing Documents', 'Display Billing Documents - Redacted', 'Display Process Flow AR - Billing Document', 'Manage Billing Documents', 'Sales Volume - Profit Margin', and 'Sales Volume Analysis'. The 'Display Billing Documents' option is highlighted.

In the dialog box that appears, choose the *Display Billing Documents* app.

The screenshot shows the 'Display Billing Documents' app dialog box. The dialog box lists various options for document management, including 'Change Billing Documents', 'Create Billing Documents', 'Create Billing Documents - VF01', 'Display Billing Documents', 'Display Billing Documents - Redacted', 'Display Process Flow AR - Billing Document', 'Manage Billing Documents', 'Sales Volume - Profit Margin', and 'Sales Volume Analysis'. The 'Display Billing Documents' option is highlighted.

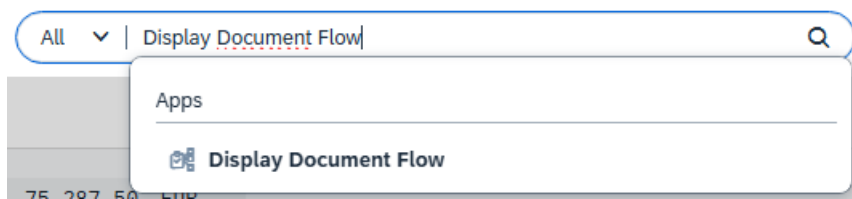
Scroll to the right in the table of your invoice. You will find that the initiator for the invoice item of your GCBK3### is the sales order.

The screenshot shows the 'Invoice 90000013 (F2) Display: Overview of Billing Items' screen. The screen displays a table of billing items with columns for Item, Material, Item Description, Invoiced Quantity, SU, Net Value, Curr..., and Originating Doc. The table contains three rows of data for items 10, 20, and 30.

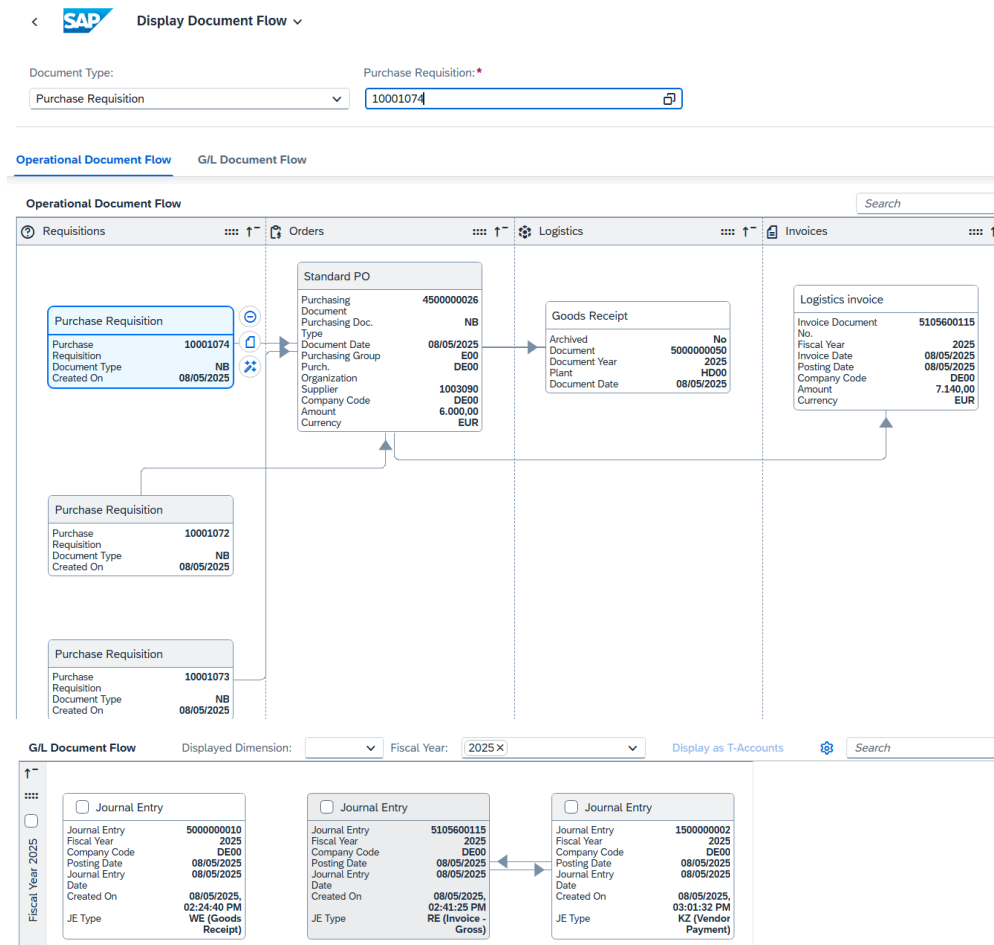
Item	Material	Item Description	Invoiced Quantity	SU	Net Value	Curr...	Originating Doc
10	GCBK1100	Global Basic Sport & Commute B...	15	EA	20.662,50	EUR	
20	GCBK2100	Global Endurance Sport & Comm...	5	EA	16.625,00	EUR	
30	GCBK3100	Carbon Global Sport & Commute...	10	EA	38.000,00	EUR	10000006

Call the *Display Document Flow* app again.

Display Document Run



Also display the document flow for the purchase requisition for your bike computers. To do this, change the document type to Purchase Requisition and enter your purchase requisition number.



Click  to return to the SAP Fiori launchpad.