

Warehouse Management II (WM II)

This case study explains an integrated warehouse management process, which is triggered by a stock transport order from a manufacturing facility to a warehouse-managed storage location.

Product

S/4HANA 1809 Global Bike

Fiori 2.0

Level

Beginner

Focus

Warehouse Management

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Version

3.3

Last Update

May 2019

MOTIVATION

Warehousing has significant value for logistics.

Current trends such as higher cost pressure, shorter cycles of innovation, higher customer expectations and globalization of markets make great demands on companies, particularly on warehouse logistics. This is especially difficult in industries with high differentiation like the consumer goods industry. Furthermore, customers have increasingly higher demands on reliability, promptness and flexibility of deliveries.

Warehouse management systems support the global flow of goods between the producer and the purchaser and facilitate near fail-proof logistic operations in increasingly complex supply chains.

PREREQUISITES

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

In order to work successfully through this case study, it is not necessary to finish the WM exercises. However, it is recommended.

NOTES

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



Process Overview

Learning Objective Understand and perform a warehousing process for int. goods

Time 90 min

Scenario Due to increasing sales output in your San Diego distribution center, management has decided to install a Warehouse Management System there. The implementation is completed and now the new system needs to be tested. For this purpose, finished goods should be requested from your manufacturing facility in Dallas and put in stock in San Diego using the new warehouse management system.

Employees involved Carolin Bruzik (Warehouse Supervisor)

Jennifer Brown (Plant Manager San Diego) Sanjay Datar (Warehouse Employee) Yoshi Agawa (Receiving Clerk)

In order to receive goods from the plant in Dallas you need to create a stock transport order. Dallas will send the goods to the San Diego distribution center. As soon as you perform the goods receipt in San Diego, the system will create a transfer order for the received goods. Due to this order, the Warehouse Management will put the goods into stock. In the end, you can check if the goods have been sorted into the correct storage bins.

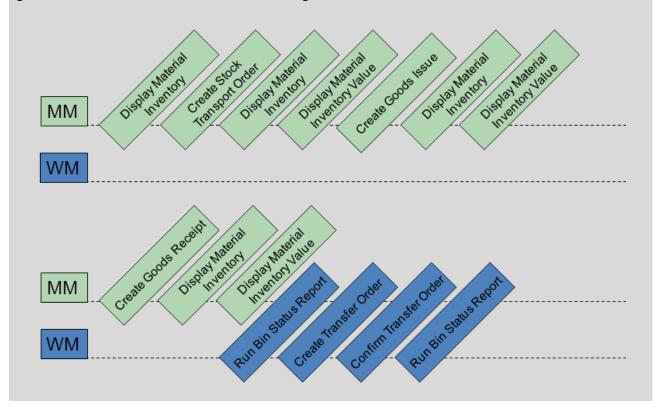


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Step 1: Display Material Inventory

Task View the inventory of your material.

Time 5 min

Short Description Use the SAP Fiori Launchpad to display the inventory of your material.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

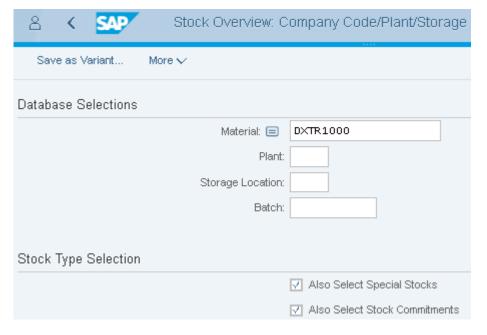
To display the material inventory, use the app *Display Stock Overview*.

Fiori App

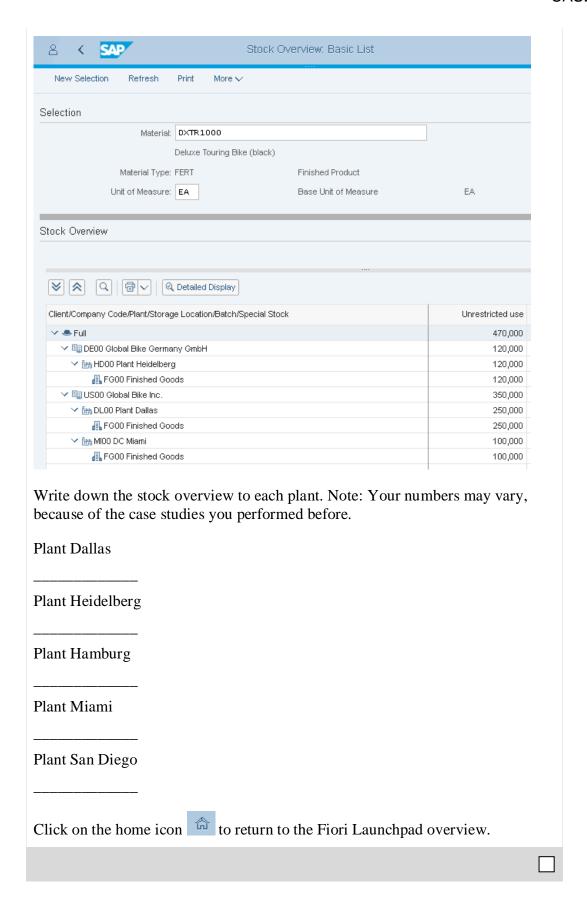


In the *Stock Overview: Company Code/Plant/Storage Location/Batch* screen, enter **DXTR1**### as Material (replace ### with your number). Make sure that all other search criteria fields are blank and click on

DXTR1###



In the following screen you see the global amount of your material on stock as well as the current amount in your Dallas plant where from you can order the material.





Step 2: Create Stock Transport Order

Task Create a stock transport order.

Time 10

Short Description Use the Fiori Launchpad to create a stock transport order. This means that you request material from another GBI plant instead of procuring it from a vendor.

Name (Position) Jennifer Brown (Plant Manager San Diego)

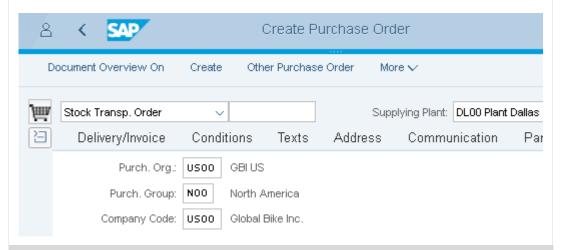
To create a stock transport order, use the app Create Purchase Order – Advanced.

Fiori App



In the *Create Purchase Order* screen, change the type of purchase order to **Stock Transp. Order** and accept any warning messages with Enter. Fill in **US00** as Purch.Org., **N00** as Purch. Group, **US00** as Company Code and **DL00** as Supplying Plant.

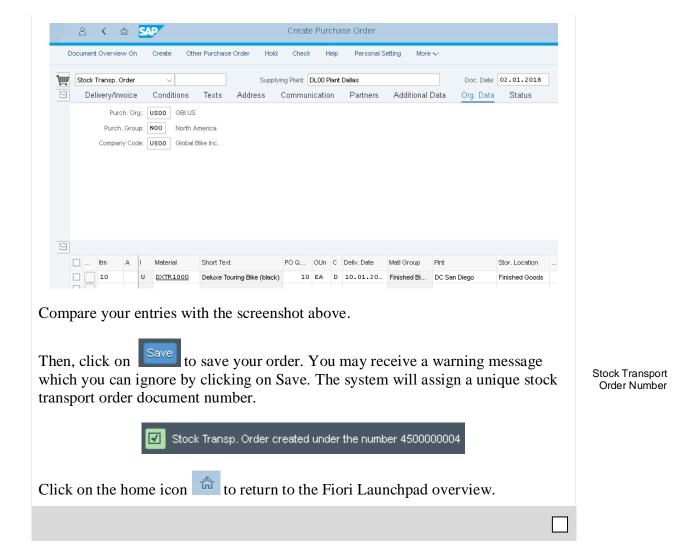
Stock Transp.
Order
US00
N00
US00
DL00



Note: Transfer postings should not involve a physical goods movement; however, in stock transfers, there is always a physical movement of goods. In a plant-to-plant stock transfer, the plants, between which the material is transferred, can belong to the same company code or different company codes. The cross-plant stock transfers can only be booked out of the unrestricted-use stock.

Select to expand the Item Overview. Enter **DXTR1**### as Material (replace ### with your number), **10** as PO Quantity, **SD00** as Plant, **FG00** as Storage Location and **8 days from today** as Delivery Date. Confirm your entries by pressing Enter.

DXTR1### 10 SD00 FG00 8 days from today





Step 3: Display Material Inventory

Task View the inventory of your material again.

Time 5 min

Short Description Use the SAP Fiori Launchpad to display the inventory of your material again.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

To display the material inventory, use the app Display Stock Overview.

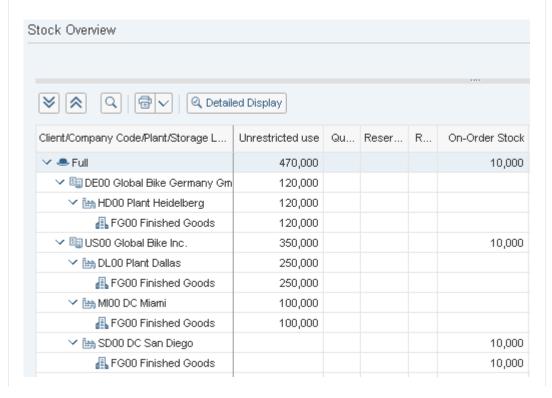
Fiori App

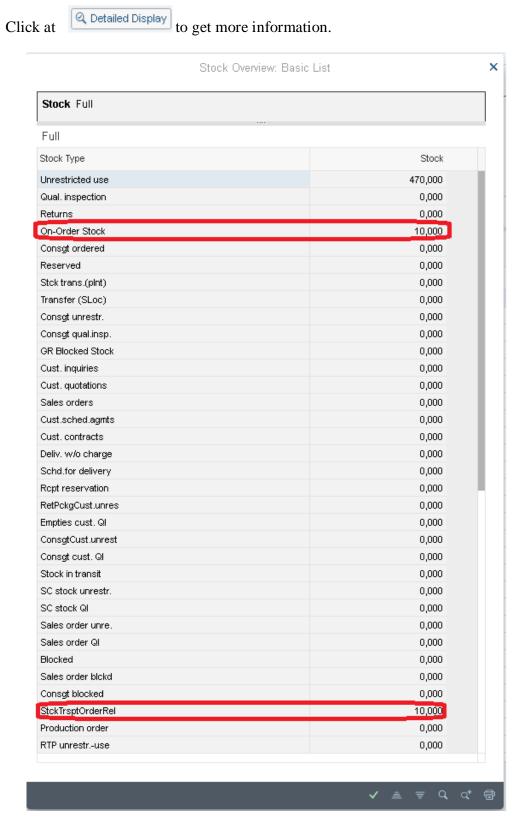


Enter **DXTR1**### as Material (replace ### with your number). Make sure that all other search criteria fields are blank and click on vary.

DXTR1###

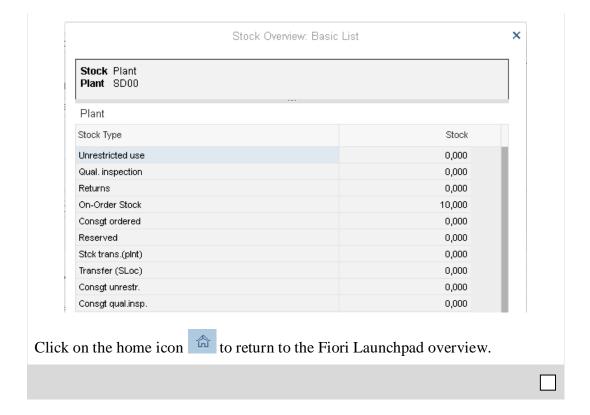
In the following screen you see the global amount of your material on stock as well as the current amount in your Dallas plant which you will order the material from.





Close the pop up.

Note that you still have the same amount of goods in Dallas. However, after double clicking on *SD00 DC San Diego* you can see that you have an On-Order Stock balance of 10 for your distribution center in San Diego.





Step 4: Display Material Inventory Value

Task View the value of your material inventory.

Time 5 min

Short Description Use the Fiori Launchpad to display the value of your material inventory.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

To display the material inventory value, use the app *Display Warehouse Stocks of Material* screen.

Fiori App



In the *Display Warehouse Stocks of Material* screen, enter **DXTR1**### as Material (replace ### with your number). Ensure that all other search criteria fields are blank and click on Execute. Please be aware that your numbers may vary.

DXTR1###

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Material				Materi	al descr	riptio	n				Pln	rt Name 1		
SLoc SL	Unrestrict	ed Unit		Transit/T	ransf.	In Q	(uality	/ Insp		Res	strict	ed-Use	Blocked	Re
	Total Val	ue Crcy		Total	Value		Total	Valu	e		Total	Value	Total Value	Total
DXTR1000				Deluxe	Touring	Bike	(blac	k)			DLO	O Plant Dal	las	
FG00	25	O EA			0			0				0	0	
	350.000,0	O USD			0,00			0,00				0,00	0,00	
DXTR1000				Deluxe	Touring	g Bike	(blac	k)			HDO	O Plant Hei	delberg	
FG00	12	:0 EA			0			0				0	0	
	168.000,0	O EUR			0,00			0,00				0,00	0,00	
DXTR1000				Deluxe	Touring	g Bike	(blac	k)			нно	O DC Hambur	g	
FG00		O EA			0			0				0	0	
	0,0	O EUR			0,00			0,00				0,00	0,00	
DXTR1000				Deluxe	Touring	, Bike	(blac	k)			MIO	O DC Miami		
FG00	10	0 EA			0			0				0	0	
	140.000,0	O USD			0,00			0,00				0,00	0,00	
DXTR1000				Deluxe	Touring) Bike	(blac	k)			SDO	O DC San Di	ego	
FG00		O EA			0			0				0	0	
	0,0	O USD			0,00			0,00				0,00	0,00	
* Total														
	×			×			×				×		×	×

As you can see there is no total value associated with the DC in San Diego.

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



Step 5: Create Goods Issue

Task Create a goods issue from the issuing plant.

Time 10 min

Short Description In this step, you will use the SAP Fiori Launchpad to issue the goods, requested from your plant in Dallas to your distribution center in San Diego.

Name (Position) Sanjay Datar (Warehouse Employee)

To create a goods issue, use the app *Post Goods Movement*.

Fiori App



In the screen, change the Material Document drop down to **Goods Issue** and adjust the type of Goods Issue to a **Purchase Order**.

Goods Issue Purchase Order



Note: A purchase order is the same as a stock transport order, you technically purchase the goods from the other plant, but it is a transport, because the plants are under the same company code.

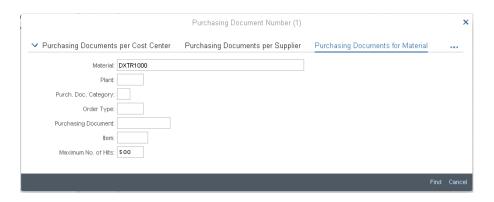
Input your Stock Transport Order Number in the blank space next to it.

Stock Transp. Order Nr.

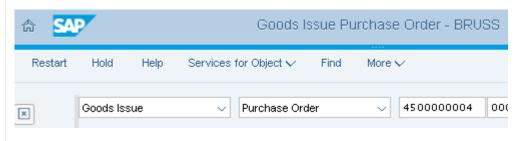
If you have not written down the TO number you created in the second task, you may use the F4 help in the TO number field (first blank field next to the second drop-down field).

In the following screen choose the *Purchasing Documents for Material* tab by using "" . Then, enter **DXTR1**### as Material and press Enter.

DXTR1###

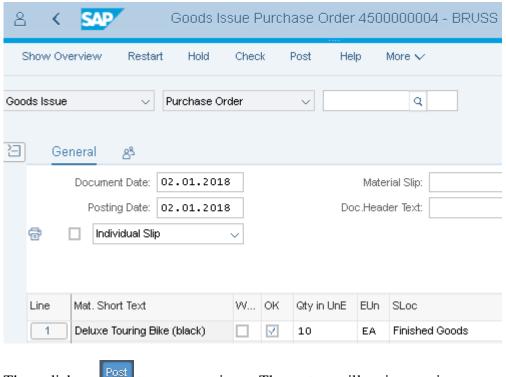


Now double click on your entry. After your order number is filled in press Enter.



When your order comes up select **OK** and enter **Finished Goods** as Storage Location by using the F4 help. Confirm your entries by pressing Enter. If the field is shown greyed minimize Item Overview by choosing

OK Finished Goods



Then, click on to save your issue. The system will assign a unique material document number.

Material document 4900002072 posted. View Details

Material Document Number

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



Step 6: Display Material Inventory

Task View the inventory of your material again.

Time 5 min

Short Description Use the Fiori Launchpad to display the inventory of your material again.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

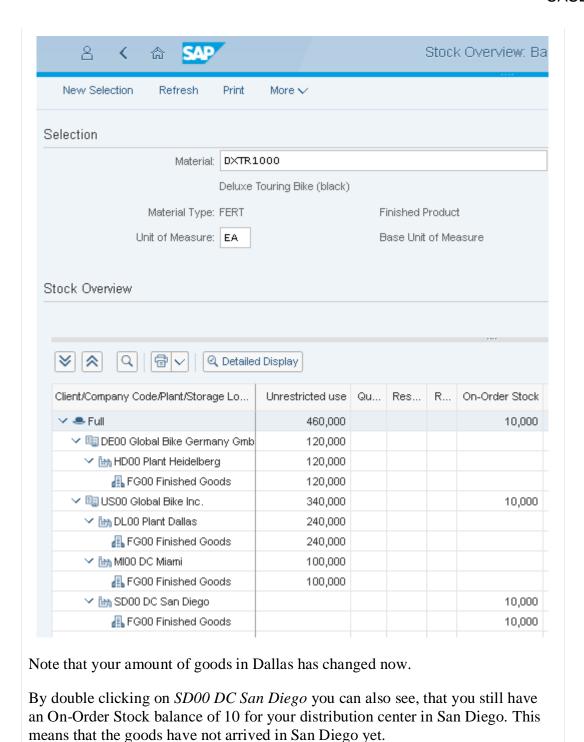
To display the material inventory, use the app Display Stock Overview.

Fiori App



In the *Stock Overview* screen, enter **DXTR1**### as Material (remember to replace ### with your number). Choose Execute. Please be aware that your numbers may vary.

DXTR1###



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



Step 7: Display Material Inventory Value

Task View the value of your material inventory again.

Time 5 min

Short Description Use the Fiori Launchpad to display the value of your material inventory again.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

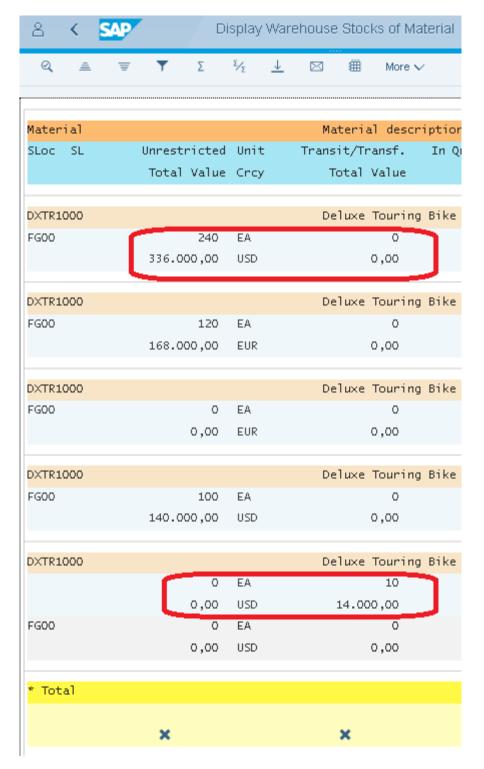
To display the material inventory value, use the Fiori App *Display Warehouse Stock*.

Fiori App



In the *Display Warehouse Stocks of Material* screen, enter **DXTR1**### as Material (remember to replace ### with your number). Ensure that all other search criteria fields are blank and click on your numbers may vary.

DXTR1###



As you can see the values associated with the material in Dallas has decreased. Also, the value of *Transit/Transf*. for San Diego has now increased to the value of the goods on order.

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



Step 8: Create Goods Receipt

Task Receive goods at receiving plant.

Time 5 min

Short Description Use the SAP Fiori Launchpad to confirm the receipt of goods from Dallas by creating a goods receipt.

Name (Position) Yoshi Agawa (Receiving Clerk)

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

Fiori App

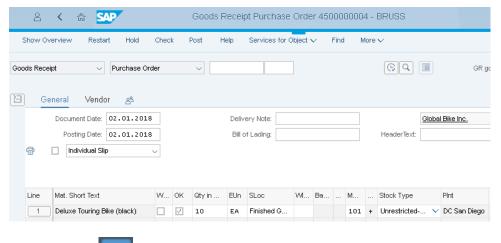


In the *Goods Movement* screen, change the Material Document drop down to **Goods Receipt**, adjust the type of Goods Receipt to a **Purchase Order**, and input your **Stock Transport Order Number** in the blank space next to it. You may use the F4 help like explained in the goods issue task. Then, press Enter.

Goods Receipt Purchase Order Stock Transport Order Number

After your stock transport order comes up select **OK**. Make sure that **SD00** is chosen as Plant, **101** as Movement Type and **FG00** as Storage Location (for some of this information you may need to scroll over to the right to find it).

OK SD00 101 FG00



Material Document Number

Then, click on Fost to save your receipt. The system will assign a unique material document number.

Material document 5000000020 posted View Details

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



Step 9: Display Material Inventory

Task View the inventory of your material again.

Short Description Use the Fiori Launchpad to display the inventory of your material again.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

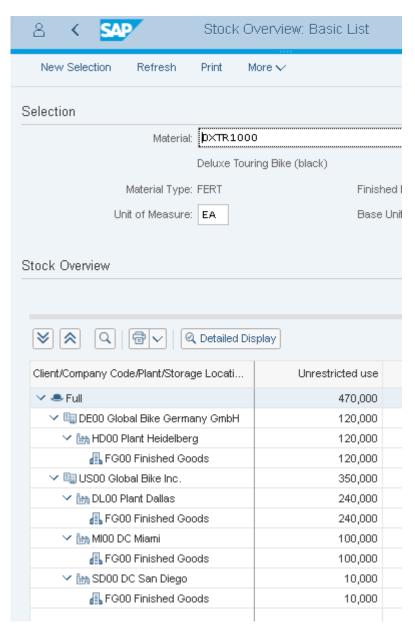
To display the material inventory, use the app *Display Stock Overview*.

Fiori App



In the *Manage Stock* screen, enter **DXTR1**### as Material (remember to replace ### with your number). Choose Execute. Please be aware that your numbers may vary.

DXTR1###



Note that your amount of goods in San Diego has changed now. By double clicking on *SD00 DC San Diego* you can see that the On-Order Stock balance is now zero for San Diego and its Unrestricted Use has been updated.

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



Step 10: Display Material Inventory Value

Task View the value of your material inventory again.

Time 5 min

Short Description Use the Fiori Launchpad to display the value of your material inventory again.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

To display the material inventory value, use the app *Display Warehouse Stock*.

Fiori App



In the *Display Warehouse Stocks of Material* screen, enter **DXTR1**### as Material (remember to replace ### with your number). Ensure that all other search criteria fields are blank and click on Execute. Please be aware that your numbers may vary.

DXTR1###



As you can see the value of *Transit/Transf*. for San Diego is now zero and its *Unrestricted Amount and Total Value is* increased.

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



Step 11: Run Bin Status Report

Task Check the status of your bins.

Time 5 min

Short Description Use the Fiori Launchpad to run a bin status report, which will display a detailed report of each storage bin within the specified warehouse.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

To run a bin status report, use the app Run Bin Status Report.

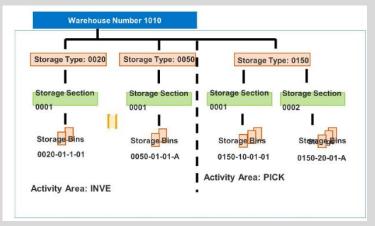
Fiori App



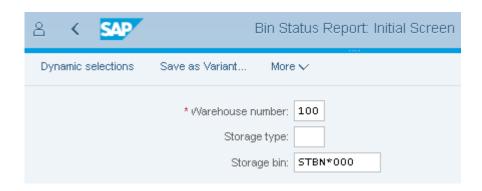
In the *Bin Status Report: Initial Screen*, enter **100** (for your San Diego Warehouse) as Warehouse Number and **STBN*###** as Storage bin (replace ### with your number). Then, click on Execute.

100 STBN*###

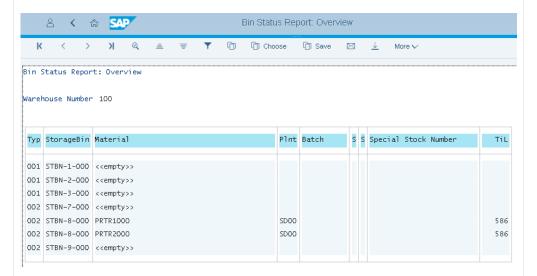
Note: The warehouse number is the highest level of organizational unit in warehouse management. In practice, the warehouse number usually corresponds to a physical building or distribution center. Each warehouse number has a substructure that maps the spatial relationship in the warehouse complex in details.



Storage bins are the lowest level of organizational structure. They are assigned to a storage type and a storage section (if one exists). Storage bins represent the physical location where the goods are stored in the warehouse.



In the *Bin Status Report: Overview* screen you should see a list of all of your storage bins for the entire warehouse in San Diego. Double click on one of your storage bins to get detailed information.



Note Your bin report might look different, depending on whether you have already processed a Warehouse Management case study or not.

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



Step 12: Create Transfer Order

Task Create a transfer order.

Time 10 min

Short Description Use the Fiori Launchpad to create a transfer order to place your goods into your storage bin. It is a handoff from inventory management to warehouse management. The system recognizes that there are goods that have been received but need to be put away.

Name (Position) Yoshi Agawa (Receiving Clerk)

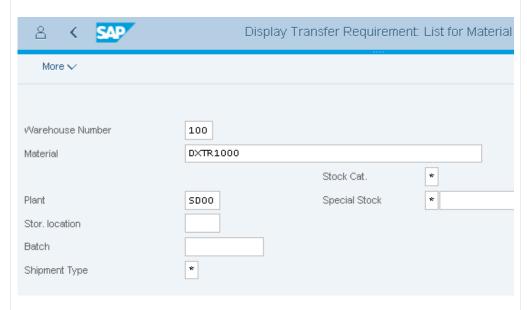
To create a transfer order, use the app Create Transfer Order.

Fiori App



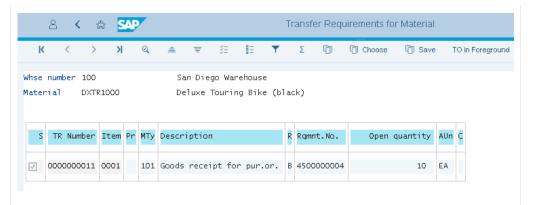
In the *Display Transfer Requirement: List of Material* screen, enter **100** (for your San Diego Warehouse) as Warehouse Number, **DXTR1**### as Material (replace ### with your number) and **SD00** as Plant. Compare your entries with the screenshot below and then click Enter.

100 DXTR1### SD00



In the *Transfer Requirements for Material* screen, you should see a line item describing the goods, just received for your stock transport order. The requirement number should be the same as the stock transport order number, you received earlier. Make sure that the line item is selected and click on the

TO in Foreground button.



In the *Create TO for TR 000000XXXX 0001: Prepare for Putaway* screen press Enter to copy your quantity of 10 from the *Palletization* section to the *Items* section. Enter **001** as Sec, **STBN-7-###** as Destination Bin (replace ### with your number) and use F4 to select **Pallet Storage** as Type. Confirm your entries by pressing Enter.

001 STBN-7-### 002 (Pallet Storage)

8	〈 命	SAP			Create TO	for TR 000000000°	11 00	01: Pre	oare for Pi	utaway	
Gener	rate + Next Mat.	Skip Materi	al I	Putavva	ay Background	Putaway Foreground	1 1	Pre-Alloca	ed Stock	More ✓	
	Material:	DXTR1000									
	D	eluxe Tourin	g Bike (black)							
	Plant/Stor.loc.: 9	SDOO FG	00			Movement Type:	101	Goods re	ceipt for pur.o	or.	
	Stock Category:					Source Stor.Bin:	003	450000	0004		
	Special Stock:					GR Date:	02.0	01.2018			
Delletie	4:				0						
Palletiza						ntities					
SU	Qty per SUnit		SUT :	Гур :	5ec	Stek plemnt qty:			10	EA	
>	×					Open Quantity:				0	
>	× 10					Total TO items:			0		
Items	Dest.target quantil	ty SUT	Туре	Sec	Destination Bin	Dest.storage unit		Т	Batch		
_ 1	10		002	001	STBN-7-000						
unique 		der nu	mbe 	r. Pl	lease write	er order. The down this n	uml	ber:			Transfer Order Numbe



Step 13: Confirm Transfer Order

Task Confirm your transfer order.

Time 5 min

Short Description Use the Fiori Launchpad to confirm the transfer order you created in the previous step. This is confirming that the goods are physically in the storage bin indicated in the transfer order.

Name (Position) Yoshi Agawa (Receiving Clerk)

To confirm a transfer order, use the app Confirm Transfer Order.

Fiori App



In the *Confirm Transfer Order: Initial Screen*, enter the **TO Number** from the previous task and **100** as Warehouse Number. Then, press Enter.

TO Number 100

Note If you have not written down the number you can search for it using the app *Display Transfer Order*.

In the *Transfer Orders: List of Resident Documents* you have to fill in **100** as Warehouse number. Then, click on Execute.

In the *Confirm Transfer Order: Overview of Transfer Order Items* screen, you should see an overview of your transfer order created in the previous step. Review all of the details to make sure you have the correct quantity and storage bin.



Then, click on to confirm your transfer order. The system will return a success message.

▼ Transfer order 0000002011 confirmed

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



Step 14: Run Bin Status Report

Task Check the status of your bins again.

Time 5 min

Short Description Use the Fiori Launchpad to run a bin status report, which will display a detailed report of each storage bin within the specified warehouse.

Name (Position) Carolin Bruzik (Warehouse Supervisor)

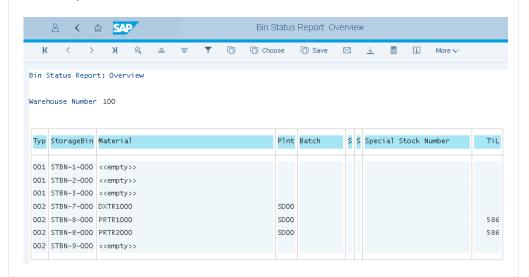
To run a bin status report, use the app Run Bin Status Report.

Fiori App

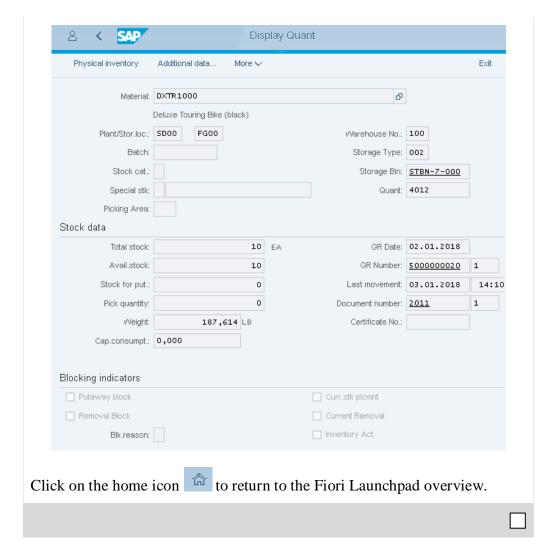


In the *Bin Status Report: Initial Screen*, enter **100** (for your San Diego Warehouse) as Warehouse Number and **STBN*###** as Storage bin (replace ### with your number). Then, click on Execute.

100 STBN*###



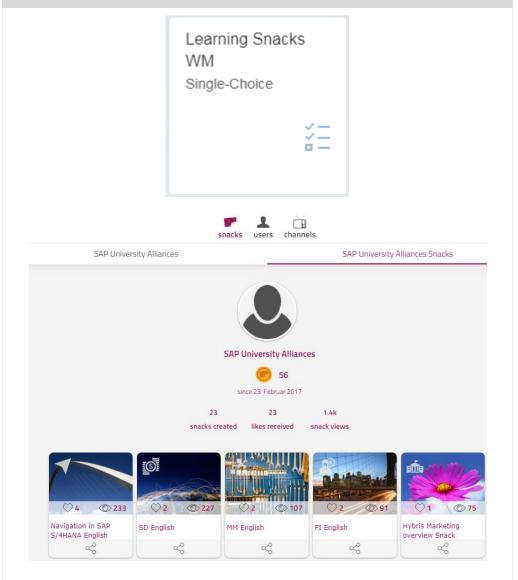
In the *Bin Status Report: Overview* screen you should see that the Storage Bin **STBN-7-**### is filled now. Click on your material to display detailed information of this quant and check whether 10 pieces of your goods are stored in your storage bin.



Learning Snacks

In order to test and consolidate your knowledge use the app *Learning Snack WM*.

Fiori App



You see all the snacks for the individual case studies. Select the Snack WM English and answer all nine questions.

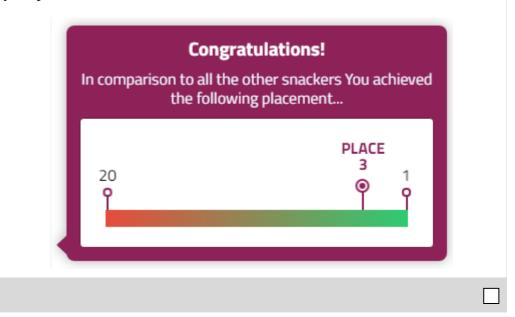
Learning Snack

Hint:

If you do not see any Apps, you need to change the language on the page Learning Snacks. Therefore, click on the current language right next to *change language* and choose **English**.



After you answered all the questions, you will receive a success message and your placement.



WM II Challenge

Learning Objective Understand and perform a warehousing process for int. goods

Time 80 min

Motivation After having finished the *Warehouse Management II* case study successfully, you should now be able to solve the following challenge.

Scenario The warehouse management system has been tested without any problems, so the management decided to use the system productively. The distribution center in San Diego will soon start delivering customers. In order to do so, you need to ensure that there are enough silver Deluxe Touring Bikes available on stock. Unfortunately, you cannot order any from your plants in Dallas, as there are no free resources available, because of problems with one of the assembly lines. In order to have on time 50 silver Deluxe Touring Bikes (estimation by the management) in San Diego you need to order them from your plant in Heidelberg (Germany). The delivery time is 10 days maximum.

As soon as the goods arrive in your DC in San Diego they need to be stored in the same bin, where the silver Touring Bikes from this case study already are.

Task Information You can use the *Warehouse Management II* case study as a guideline, but it is recommended to complete this challenge without further assistance to prove your WM skills.