SAP University Alliances

PP 1: Display Stock/Requirements List

Exercise Use the SAP Fiori Launchpad to display the Stock/Requirements List.	**Time** 5 min
Task Review the material status of your Deluxe Touring bike (finished good) in the Dallas plant using the Stock/Requirements list.	
Name (Position) Lars Iseler (Production Order Worker)	

The Stock/Requirements list contains up-to-date information on the current status of inventory on hand, requirements, and receipts. It is a dynamic list that allows you to view changes made to material status.

Stock/Requirements List

To review the material status, use the app *Monitor Stock / Requirements List*.

Fiori App

Monitor Stock /
Requirements List

First of all, you need to find the material number(s) for your Deluxe Touring bikes. In order to do so, click in the Material field and press **F4** (or click on the search icon next to the field). This will produce the Material Number search screen.

F4

Material Number (1)   ×

∨ Material Number/Material Description   Material by old material number   Material by bill of material   ∘∘∘

Material description:
Language Key: EN
Material:
Maximum No. of Hits: 500

                                                          Find   Cancel

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Go to the Material by Material Type tab. Use the °°° icon (in the top-right corner) to display a list of all search tabs available.

In the Material Type field, select **Finished Product** (**FERT**). In order to display your Deluxe Touring bikes only, you need to define two more search criteria. First, in the Material Description field type **Deluxe***. Second, in the Material field (which is the field for the unique material number) type ***###**. Remember to replace ### with your three-digit number, e.g. *014 if your number is 014.

Finished Product

Deluxe*

*###

Compare your entries with the screen below before pressing Enter or clicking on Find to start the search.

Material Number (1)

Material by task list Sales material by description Material by material type

Material type: FERT
Material description: Deluxe*
Language Key: EN
Material: *000
Maximum No. of Hits: 500

The result of this search should give you a list of:

a) all finished goods,

b) which name (short description) starts with Deluxe,

c) which material numbers end with your number (###).

Material Number (1)

Material by task list Sales material by description Material by material type Material by Supply Area

Material type	Material description	Language	Material
FERT	DELUXE TOURING BIKE (BLACK)	EN	DXTR1000
FERT	DELUXE TOURING BIKE (RED)	EN	DXTR3000
FERT	DELUXE TOURING BIKE (SILVER)	EN	DXTR2000

3 Entries found

You should get a list of three different Deluxe Touring bikes – black, red and silver (please note that the material numbers in your screen will be different).

Double-click on your black Touring bike which will copy its unique material number (**DXTR1###**) into the Material field.

In addition to the material number, in the Plant field select GBI's manufacturing facility in Dallas (**DL00**). Then, press Enter. You should be displayed a screen similar to the one shown below.

Stock/Requirements List								
Show Overview Tree	Refresh	More ⌄						Exit

Material: DXTR1000
Description: Deluxe Touring Bike (black)
MRP Area: DL00   DC Dallas   Ex. manuf.:
Plant: DL00   MRP type: M1   Material type: FERT   Unit: EA

Date	MRP ...	MRP element data	Rescheduli...	...	Receipt/Reqmt	Available Qty
29.05.2018	Stock					240

As you can see, GBI has currently 240 black Deluxe Touring bikes on stock. Repeat the same procedure for the other two deluxe bikes (red and silver).

How many red Deluxe Touring Bikes are available in Dallas?

_____ pieces

How many silver Deluxe Touring Bikes are stored in the DL00 plant?

_____ pieces

Click [home icon] to return to the SAP Fiori Launchpad.

■ PP 2: Display Bill of Material

Exercise Use the SAP Fiori Launchpad to display a bill of material.	**Time** 10 min

Task Review the components of your black Deluxe Touring bike and the components of the Touring Aluminum Wheel Assembly within the finished bike bill of material.

Name (Position) Jun Lee (Production Supervisor)

A bill of material (BOM) is a list of the components that are needed to create a given product. The list contains the description, the quantity, and unit of measure. The BOM can contain items of different item categories such as stock items, non-stock items, document items, and text items.

Bill of Material (BOM)

To review a bill of material, use the app *Maintain Bill Of Material – Create, change & display*.

Fiori App

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

Enter for material number **DXTR1###** and use the **F4** help to find your plant in **Dallas**.

DXTR1###
F4
DL00

Click in the BOM Usage field and use **F4** to display possible usage types. In the pop up *BOM Usage* enter nothing and press just Go .

F4

Select usage type **1** for plant DL00. Then, press Enter or [OK]. Back in the

screen *Maintain Bill of Material* choose [Go] .

Select your material and click on ⟩ to display the BOM of your black
Deluxe Touring bike (please note that the material numbers in your screen
will be different).

Scroll down to display information about the Base unit of measure or the Bill of Material number.

Select the Touring Aluminum Wheel Assembly (TRWA1###) and click on ❯ .

TRWA1###

Choose once [<] to go back to the Bill of Material of your material DXTR1###.

What is the Base unit of measure of the material?

_____

Repeat the procedure for your red and the silver Deluxe Touring bike to identify the differences in their bills of materials.

Click [🏠] to return to the SAP Fiori Launchpad.

PP 3: Display Multi-Level Bill of Materials

Exercise Use the SAP Fiori Launchpad to display a multi-level BOM.	**Time** 5 min
Task Review the BOM for your black Deluxe Touring bike from a multi-level hierarchy level.	
Name (Position) Jun Lee (Production Supervisor)	

To display a multi-level BOM, use the app *Multilevel BOM*.

Fiori App

Multilevel BOM

In the following screen, enter (or find) Material **DXTR1###** (replace ### with your number), Plant **DL00**, and BOM Application **PP01** (Production-General). Under *Selection* enter **1** for quantity.

DXTR1###
DL00
PP01
1

Then, click on Execute to display the BOM structure for your bike valid today. If a pop-up occurs click Continue.

Material	DXTR1000
Plant/Usage/Alt.	DL00 / 1 / 01
Description	Deluxe Touring Bike (black)
Base Qty (EA)	1,000
Reqd Qty (EA)	1

Level no.	Item	Ob...	Component number	Object description	Ovfl	Comp. Qty (CUn)	Un	Ict
.1	0010		TRWA1000	Touring Aluminum Wheel As		2	EA	L
..2	0010		TRTR1000	Touring Tire		2	EA	L
..2	0020		TRTB1000	Touring Tube		2	EA	L
..2	0030		TRWH1000	Touring Aluminum Wheel		2	EA	L
..2	0040		HXNT1000	Hex Nut 5 mm		2	EA	L
..2	0050		LWSH1000	Lock Washer 5 mm		4	EA	L
..2	0060		BOLT1000	Socket Head Bolt 5x20mm		2	EA	L
.1	0020		TRFR1000	Touring Frame-Black		1	EA	L
.1	0030		DGAM1000	Derailleur Gear Assembly		1	EA	L
.1	0040		TRSK1000	Touring Seat Kit		1	EA	L
.1	0050		TRHB1000	Touring Handle Bar		1	EA	L
.1	0060		PEDL1000	Pedal Assembly		1	EA	L
.1	0070		CHAN1000	Chain		1	EA	L
.1	0080		BRKT1000	Brake Kit		1	EA	L
.1	0090		WDOC1000	Warranty Document		1	EA	L
.1	0100		PCKG1000	Packaging		1	EA	L

Click on [<] to go back to the initial screen. There, you click on [View]. On the following screen, in the Display field group select **Variable list** and click on [Execute] .

Execute More ∨	
Define view	**Display**
☐ Alt priority	☑ Variable list
☐ Scrap	Display: SAPCSMLVMP01
	Print: SAPCSMLVMP02

You will get an overview of all used items.

```
Material    DXTR1000                  DL00        Alt.  1  Usage 1
            Deluxe Touring Bike (black)                  Valid 01.01.2010
Reqd qty              1,000 EA      Base quant           1,000 EA

Level no.  Item Component no.                     Quant Un Ict
                Description                                   Ex.

.1         0010 TRWA1000                          2,000 EA  L
                Touring Aluminum Wheel Assembly
..2        0010 TRTR1000                          2,000 EA  L
                Touring Tire
..2        0020 TRTB1000                          2,000 EA  L
                Touring Tube
..2        0030 TRWH1000                          2,000 EA  L
                Touring Aluminum Wheel
..2        0040 HXNT1000                          2,000 EA  L
                Hex Nut 5 mm
..2        0050 LWSH1000                          4,000 EA  L
                Lock Washer 5 mm
..2        0060 BOLT1000                          2,000 EA  L
                Socket Head Bolt 5x20mm
.1         0020 TRFR1000                          1,000 EA  L
                Touring Frame-Black
.1         0030 DGAM1000                          1,000 EA  L
                Derailleur Gear Assembly
```

Select the line of the component TRWA1000 (Touring Aluminum Wheel Assembly) and choose [Where-used list] .

Which materials are using the Touring Aluminum Wheel Assembly and how much are needed?

_____

_____

_____

Click to return to the SAP Fiori Launchpad.

PP 4: Display Routing

Exercise Use SAP Fiori Launchpad to display a routing.	**Time** 10 min
Task Review the routing for your black Deluxe Touring bike.	
Name (Position) Jun Lee (Production Supervisor)	

A routing is a series of sequential operations carried out to produce an end product. Routings contain information on where work is to be performed, steps that need to be completed, and time lines assigned for each operation.

Routing

To review a routing, use the app *Display Routing*.

Fiori App

Enter Material **DXTR1###** and Plant **DL00**.

DXTR1###
DL00

Then, click on [Continue] to display the following list of operations.

None of them is assigned to any specific operation (note that column

Oper./Act. is empty). Select Allocation to display the list of components.

Select Operation or < to go back to the operation overview. Then find
the following system menu item:

More ► Extras ► Scheduling ► Schedule

This should produce the following screen.

Enter Scheduling type **1** and Lot size **10**. Click on Continue. In the
following screen, find or enter overview variant **000000000001** (Operation

segments). Confirm your entry with Continue.

How long does sequence 0090 take?

_____

Choose Header . What is the Usage?

_____

Click 🏠 to return to the SAP Fiori Launchpad.

☐

PP 5: Display Work Center

Exercise Use the SAP Fiori Launchpad to display a work center.	**Time** 15 min
Task Review a work center in GBI's plant in Dallas.	
Name (Position) Jun Lee (Production Supervisor)	

A work center is a location where operations are carried out for a production order. Capacities (setup, machine, and labor) are assigned to work centers so that they can be allocated and consumed within an order in a controlled and predictable manner. The work center capacity is created in and assigned to a single work center.

Work center

To review a work center and the capacity assigned to it, use the app *Display Work Center*.

Fiori App

Enter Plant **DL00**. In the Work center field, use the **F4** help and choose Enter to display all work centers in Dallas.

DL00
F4

In the search results, double-click on the DL Assembly work center to select it which should copy its number (**ASSY1000**).

Back in the Display Work Center: Initial Screen choose Enter.

On the Basic Data tab, find out who is the person responsible.

_____

On the Default Values tab, click in the Control key field (**ASSY**) and select **F4**. On the following screen, single-click on the ASSY. Then, select

Detailed information which indicates what data is required when ASSY is used.

| Control key: | ASSY | Routing/Ref. op. set - internal proc. |

Detailed Information

Scheduling:	☑	Print Confirmation:	☐
Det. Cap. Reqmnts:	☐	Print Time Tickets:	☑
Cost:	☑	Print:	☐
Automatic GR:	☐	Sched. External Op.:	☐
Insp. Char. Required:	☐	External Processing:	
Rework:	☐	Confirmations:	2

⊘ Continue   🔍 Choose   Detailed information   ⊗

Select **⊘ Continue**. Click on the Scheduling tab.

On the Scheduling tab, click in the Processing Duration field and select **🔍 Form.** (Display formula). After acknowledging the formula, press **Continue** to continue.

After selecting **⚖ Formula** (Test formula), enter Operation Quantity **100 EA**, Base Quantity **1**, No. of Splits **2**, Setup **7 MIN**, and Labor **7 MIN**.

100 EA
1
2
7 MIN
7 MIN

Test Formula

General values

*Operation Quantity:	100		EA
*Base Quantity:	1		
*No. of splits:	2		

Standard values

Setup:	7	MIN
Machine:		MIN
Labor:	7	MIN

Values for internal processing

Normal duration:		
Work:		
Number of employees:	1,00	
Number:	1	

User fields

Field key:	

End Formula Test   Calculate ...   Cancel

Then, select Calculate .... The following screen will appear.

Test Formula

Duration with Operation Segments

Setup Durat.:	7,000	MIN
Process. Durat.:	350,000	MIN
Teardown Dur.:	0,000	MIN
Tot. Duratn:	357,000	MIN

Duration of Internal Processing

Duration Int. Process.:	0,000	MIN

Continue

Click on Continue to continue. The formula for process duration is:

Process Duration = (((Labor * Operation quantity) / Base quantity) /
Operation splits)
Did the Processing formula work correctly?
_____

Select **End Formula Test** to go back.

Click 🏠 to return to the SAP Fiori Launchpad.