

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



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

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.

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

Finished Product

Deluxe\*

\*###

Material Number (1)

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

Material type:

Material description:

Language Key:

Material:

Maximum No. of Hits:

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

- all finished goods,
- which name (short description) starts with Deluxe,
- 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.

DXTR1###

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.

DL00

The screenshot shows the SAP Stock/Requirements List for material **DXTR1000**. The description is **Deluxe Touring Bike (black)**. The MRP Area is **DL00** and the Plant is **DL00**. The stock quantity is **240** as of **29.05.2018**.

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  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



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 .

F4

BOM Usage

SELECT FROM LIST    DEFINE CONDITIONS

Search

BOM Usage:

Usage text:

**Items**

<input type="checkbox"/>	BOM Usage	Usage text
<input checked="" type="checkbox"/>	1	Production
<input type="checkbox"/>	2	Engineering/Design
<input type="checkbox"/>	3	Universal
<input type="checkbox"/>	4	Plant Maintenance
<input type="checkbox"/>	5	Sales and Distribution
<input type="checkbox"/>	6	Costing
<input type="checkbox"/>	7	Empties

Selected Items (1)

Production (1)

OK Cancel

Select usage type **1** for plant DL00. Then, press Enter or . Back in the screen *Maintain Bill of Material* choose .

1

SAP Maintain Bill of Material

Standard \*

Editing Status:  All

Material:  Deluxe Tourin...

Plant:  Plant Dallas (... )

BOM Usage:  Production (1)

Alternative BOM:

Adapt Filters (4)

Standard

Create new BOM Create new Alternative

Material	Plant	BOM Usage	Alternative BOM
<input type="radio"/> Deluxe Touring Bike (black) (DXTR1000)	Plant Dallas (DL00)	Production (1)	1

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).

SAP Maintain Bill of Material

DXTR1000 Plant: DL00, BOM Usage: 1, Alternative: 1

Timeline Components Header Attributes Attachments

No change numbers are currently associated.

Components

Select by Date 01.01.2010

Item Number	Item Category	Component	Component Description	Component quantity	Valid From	Valid to	Change Number	Fixed Quantity
0100	L	Packaging (PCKG1000)	Packaging	1,000 EA	01.01.2010	31.12.9999	No	>
0090	L	Warranty Document (VDOC1000)	Warranty Document	1,000 EA	01.01.2010	31.12.9999	No	>
0080	L	Brake Kit (BRKT1000)	Brake Kit	1,000 EA	01.01.2010	31.12.9999	No	>
0070	L	Chain (CHW1000)	Chain	1,000 EA	01.01.2010	31.12.9999	No	>
0060	L	Pedal Assembly (PEDL1000)	Pedal Assembly	1,000 EA	01.01.2010	31.12.9999	No	>
0050	L	Touring Handle Bar (TRHB1000)	Touring Handle Bar	1,000 EA	01.01.2010	31.12.9999	No	>
0040	L	Touring Seat Kit (TRSK1000)	Touring Seat Kit	1,000 EA	01.01.2010	31.12.9999	No	>
0030	L	Deraileur Gear Assembly (DGAM1000)	Deraileur Gear Assembly	1,000 EA	01.01.2010	31.12.9999	No	>
0020	L	Touring Frame-Black (TRFR1000)	Touring Frame-Black	1,000 EA	01.01.2010	31.12.9999	No	>
0010	L	Touring Aluminum Wheel Assembly (TRWA1000)	Touring Aluminum Wheel Assembly	2,000 EA	01.01.2010	31.12.9999	No	>

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###

SAP Maintain Bill of Material

TRWA1000

Basic Data Administrative Data Status/Long Text Variable Size Item Data Purchasing Data Attachment > ...


BOM Item	Quantity Data
Item Number: 0010	Component quantity: 2,000 EA
Component: Touring Aluminum Wheel Assembly (TRWA1000)	Fixed Quantity: No
Item category: L	Operation Scrap in %: 0,00
Component Description: Touring Aluminum Wheel Assembly	Net Scrap Indicator: No
Class Selection Indicator: No	Component Scrap (%): 0,00
MRP Data	General Data
Lead-time offset: 0	Co-product: No
Oper. LT offset: 0	AltItemGroup:
Oper. LTO unit:	Recurs. allowed: No
Distribution key:	Recursive: No
Phantom item: No	ALE indicator: No
Explosion type:	CAD Indicator: No
Special procurement:	Reference point:

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

What is the Base unit of measure of the material?

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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



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 (CUh)	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 . On the following screen, in the Display field group select **Variable list** and click on .

Variable list

Execute More ▾	
Define view	Display
<input type="checkbox"/> Alt priority <input type="checkbox"/> Scrap	<input checked="" type="checkbox"/> Variable list Display: <input type="text" value="SAPCSMLVMP01"/> Print: <input type="text" value="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 Touring Aluminum wheel Assembly	2,000	EA	L
..2	0010 TRTR1000 Touring Tire	2,000	EA	L
..2	0020 TRTB1000 Touring Tube	2,000	EA	L
..2	0030 TRWH1000 Touring Aluminum wheel	2,000	EA	L
..2	0040 HXNT1000 Hex Nut 5 mm	2,000	EA	L
..2	0050 LWSH1000 Lock washer 5 mm	4,000	EA	L
..2	0060 BOLT1000 Socket Head Bolt 5x20mm	2,000	EA	L
.1	0020 TRFR1000 Touring Frame-Black	1,000	EA	L
.1	0030 DGAM1000 Deraillleur Gear Assembly	1,000	EA	L

Select the line of the component TRWA1000 (Touring Aluminum Wheel Assembly) and choose .


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

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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

The screenshot shows the "Display Routing: Initial Screen" in the SAP Fiori Launchpad. The header bar is blue with the SAP logo and a back arrow. Below the header is a navigation bar with tabs: "Routings", "Sequences", "Operation", and "More". The "Routings" tab is selected. The main content area is light blue and contains several input fields: "Material:" with the value "DXTR1000", "Plant:" with the value "DL00", "Sales document:" (empty), "Sales Document Item:" (empty), and "WBS Element:" (empty). A blue "Continue" button is located at the bottom left of the input fields.

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

Material DXTR1000 Deluxe Touring BikeGrp.Count1

Sequence: 0

Operation Overview

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

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.

Scheduling

Basic dates

Start date: 04/04/2017

Finish Date:

Scheduling type: 1 Forwards

Lot size: 10 EA

Reduction

Reduction type:

Reduction Level:

Reduction Strategy:

%red. floats b/a prd:

Continue Cancel

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**.


1  
10  
000000000001

How long does sequence 0090 take?

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Choose . What is the Usage?

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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

Work center (1)

> Work Center Category Find by class Name of work center Technical data Person responsible ...

Work Center Category	Plant	Work ctr	Short description	Language
0003	DL00	ASSY1000	DL Assembly	EN
0003	DL00	DVLP1000	DL Development	EN
0003	DL00	INSP1000	DL Inspection	EN
0003	DL00	MANT1000	Maintenance	EN
0003	DL00	PACK1000	DL Packaging	EN
0003	DL00	PROC1000	DL Procurement	EN
0003	DL00	SERV1000	Service	EN

7 Entries found

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

ASSY1000

Plant: DL00

Work center: ASSY1000

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

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

HR assignment   Hierarchy   Services for Object   More

Plant: DL00   Plant Dallas

Work center: ASSY1000   DL Assembly

**Basic Data**   Default Values   Capacities   Scheduling   Costing

General Data

Work Center Category: 0003   Labor

Person Responsible: 000   Steven Barton

Location:

QDR System:

Supply Area:

Usage: 009   All task list types

Backflush: ☐

Advanced Planning: ☐

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

ASSY  
F4

**Detailed information**

which indicates what data is required when ASSY is used.

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

**Detailed Information**

Scheduling: <input checked="" type="checkbox"/>	Print Confirmation: <input type="checkbox"/>
Det. Cap. Reqmnts: <input type="checkbox"/>	Print Time Tickets: <input checked="" type="checkbox"/>
Cost: <input checked="" type="checkbox"/>	Print: <input type="checkbox"/>
Automatic GR: <input type="checkbox"/>	Sched. External Op.: <input type="checkbox"/>
Insp. Char. Required: <input type="checkbox"/>	External Processing: <input type="checkbox"/>
Rework: <input type="checkbox"/>	Confirmations: <b>2</b>

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.

