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|  | PP 1: Display Stock/Requirements List | |
| **Exercise** Use the SAP Fiori Launchpad to display the Stock/Requirements List.  **Task** Review the material status of your Deluxe Touring bike (finished goods) in the Dallas plant using the Stock/Requirements list.  **Name (Position)** Lars Iseler (Shop Floor Worker) | | **Time** 5 min |
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| 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 |
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| To review the material status, use the app *Monitor Stock / Requirements List*. | | Fiori App |
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| Firstly, you need to find the material number(s) for your Deluxe Touring bikes. For this, click the *Material* field and press **F4** (or click on the search icon  next to the field). This will open 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 Touring\***. 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 Touring\*  \*### |
| Compare your entries with the screen below before pressing Enter or clicking on  to start the search. | |  |
|  | |  |
| The result of this search should give you a list of all:  a) finished goods,  b) names (with a short description) that start with Deluxe Touring,  c) material numbers that end with your number (###). | |  |
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| 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 Global Bike’s manufacturing facility in Dallas (**DL00**). | | DL00 |
|  | |  |
| Then, press Enter. You should be displayed a screen similar to the one shown below. | |  |
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| As you can see, Global Bike has currently 250 black Deluxe Touring bikes on stock. You might see a different amount based on the case studies you did before. 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. | |  |
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|  | PP 2: Display Bill of Material | | |
| **Exercise** Use the SAP Fiori Launchpad to display a bill of material.  **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 Manager) | | **Time** 10 min | |
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| 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 **DL00** for the *plant* in **Dallas**. | | | DXTR1###  DL00 |
| Select **Production** in the dropdown menu for **BOM Usage** as seen below. | | | Production  BOM Usage |
| Press Enter or  to run the search. You will be shown the parts list of your black Deluxe Touring Bike. | | |  |
|  | | |  |
| Click somewhere in the row you found to open the Bill of Material. (Please note that the material numbers in your screen will be different). | | |  |
|  | | |  |
| Scroll to the right to view more information about each component. The column *Assembly Indicator* highlights components that have their own BOMs. In this case, the component *Touring Aluminum Wheel* serves as an example*.* | | |  |
|  | | |  |
| Click  in the *Assembly Indicator* column to open the parts list of the Touring Aluminum Wheel. | | |  |
|  | | |  |
| Thus, this is a multi-level BOM, since components of the BOM contain their own BOM with components | | |  |
| Click once on the back button  to navigate back to the Bill of Material of your material DXTR1###. | | |  |
| How many parts of the TRWA1## component are needed to manufacture the DXTR1##? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |  |
| Repeat the procedure for your red and the silver Deluxe Touring bike to identify the differences in their bills of materials. You can also use multiple windows or tabs of your browser to better compare the BOMs. | | |  |
| Click  to return to the SAP Fiori Launchpad. | | |  |
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|  | PP 3: Display Multi-Level Bill of Materials | |
| **Exercise** Use the SAP Fiori Launchpad to display a multi-level BOM.  **Task** Review the BOM for your black Deluxe Touring bike from a multi-level hierarchy level.  **Name (Position)** Jun Lee (Production Manager) | | **Time** 5 min |
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| To display a multi-level BOM, use the app *Multilevel BOM.* | | Fiori App |
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| 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 Required quantity.  Then, click on  to display the BOM structure for your bike valid today. If a pop-up opens, click Continue. | | DXTR1###  DL00  PP01  1 |
|  | |  |
| You will now see a summarized list of all materials required for both the Deluxe Touring Bike (DXTR1##) and the Touring Aluminum Bike (TRWA1##). In contrast to the previous task, in which individual parts lists were considered, all materials for the touring aluminum bike are now also multiplied by the corresponding quantity required. This means that the total consumption of all materials can be examined across all stages. | |  |
| 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**. Keep the fields that were filled in by the system and click on  to display the list in the newly selected representation. | | Variable list |
|  | |  |
| You will get an overview of all used items. | |  |
|  | |  |
| In addition to a different display format, the interaction options have also changed compared to the previous display. Select the **TRWA1##** component and click . | |  |
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| Click  to return to the SAP Fiori Launchpad. | |  |
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|  | PP 4: Display Routing | |
| **Exercise** Use SAP Fiori Launchpad to display a routing.  **Task** Review the routing for your black Deluxe Touring bike.  **Name (Position)** Jun Lee (Production Manager) | | **Time** 10 min |
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| A routing is a series of sequential operations that are carried out to produce an end product. Routings contain information about where work needs to be performed, steps that need to be completed, and timelines 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  to display the following list of operations. | |  |
|  | |  |
| Select  to display the list of components. If you don´t see the button Allocation follow the path **More** ► **Allocation**. | |  |
| **Note** None of the components is specifically assigned to an operation. The corresponding *Activity* column is empty for each component. | |  |
|  | |  |
| Select  **to go back to the operation overview.** Then find the following system menu item: | |  |
| More ► Extras ► Scheduling ► Schedule  A popup for setting the scheduling appears. Enter **1** as the scheduling type and **10** as the lot size. | | 1  10 |
|  | |  |
| Press . In the following popup, select as *overview var.* **000000000001** (operation segments). You can also use the value help for this. | | 000000000001 |
|  | |  |
| Press  again. An overview of all operations, the latest start times and the respective setup, machining and teardown times is displayed. | |  |
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| How long does sequence 0090 take?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |
| What is the total processing time? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |
| Click  to return to the SAP Fiori Launchpad. | |  |
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|  | PP 5: Display Work Center | | |
| **Exercise** Use the SAP Fiori Launchpad to display a work center.  **Task** Review a work center in Global Bike’s plant in Dallas.  **Name (Position)** Jun Lee (Production Manager) | | **Time** 15 min |
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| 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. Then click in the *Work center* field and select the value help icon . | | DL00  F4 |
|  | |  |
| Accept the default settings and press  to display all workstations in Dallas | |  |
|  | |  |
| In the search results, click on the **DL Assembly** work center to select it and press  to copy its number (**ASSY1000**). | | ASSY1000 |
|  | |  |
| Back in the *Display Work Center: Initial Screen* press . | |  |
| On the *Basic Data* tab, find out who is the person responsible.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |
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| On the *Default Values* tab, click in the *Control key* field (**ASSY**) and select the value help icon . In the following popup, the entry Routing/Ref. op. set – internal proc. (**ASSY**) is already selected. | | ASSY  F4 |
| To display more information about this control key, select . | |  |
|  | |  |
| Press  to close the detailed information and then press  again to return to the workstation display. Then select the *Scheduling* tab. | |  |
| In the *Scheduling* tab, click  next to the *Processing Duration* field. You will see the formula used for this formula key. | |  |
|  | |  |
| After checking the formula, press  to continue. | |  |
| After selecting  (Test formula) at the bottom of the screen, enter *Operation Quantity* **1 EA**, *Base Quantity* **1**, *No. of Splits* **2**, *Setup* **7 MIN**, and *Labor* **7 MIN**. | | 1 EA  1  2  7 MIN  7 MIN |
|  | |  |
| Then, select . The total duration for the specified operation quantity is now determined on the basis of the standard values. | |  |
|  | |  |
| Click on  to continue. The formula for process duration is:  Process Duration = (((Labor \* Operation quantity) / Base quantity) / Operation splits) Did the Processing formula work correctly? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |
| Select  to go back. | |  |
| Click  to return to the SAP Fiori Launchpad. | |  |
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