

Min-max planning

Demand → supply

Min-max planning in Oracle Fusion is a feature that helps maintain inventory levels for items by automatically generating purchase requisitions or movement requests when inventory levels fall below a specified minimum.

Setups:-

Min=100 max=1000

Available quantity= on-hand quantity+ pipeline supply- pipeline demand

$$= 20 + 200 - 200$$

$$= 20$$

If Available_quantity < min_quantity, it will create requisition automatically.

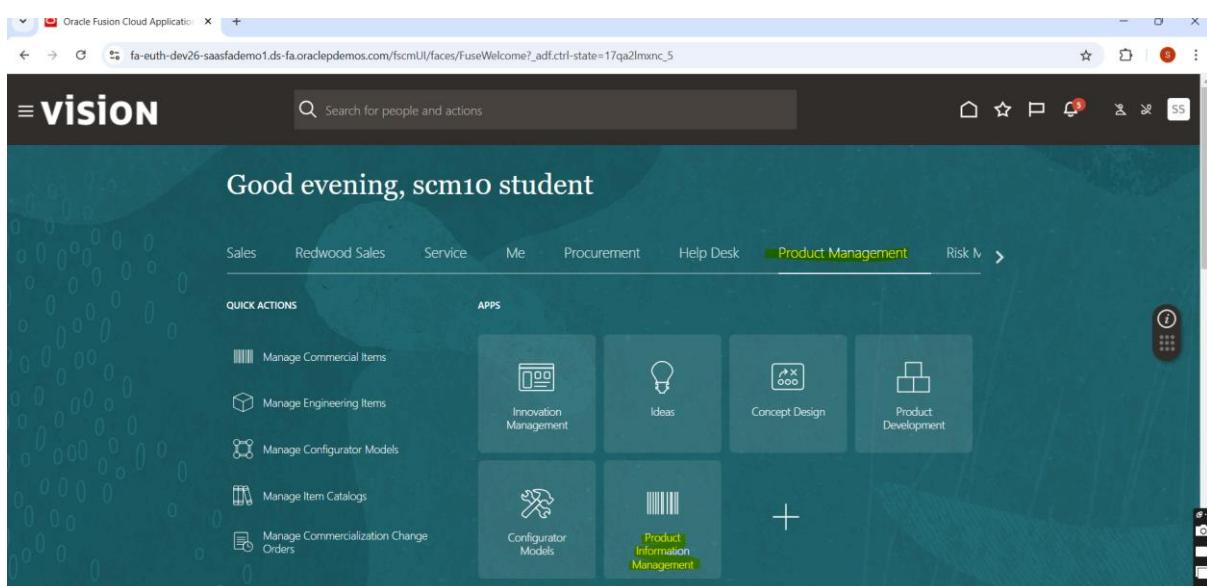
Order quantity= max_quantity- available_quantity

$$= 1000 - 20 = 980$$

Steps:-

1. Create item
2. Create sub inventory, Assign item to the sub inventory, specify the min-max planning.
3. Print Min-max Planning report. (schedule process)
4. Check in Movement request against the item

1. Create item



Click on Create item

The screenshot shows the VISION Product Information Management dashboard. It includes a navigation bar with a search icon, home icon, and other links. The main area displays 'Supplier Products' (All Statuses), 'Publication Status' (Items: 0), and 'Item Completeness' (100%). A sidebar on the right titled 'Item Management' lists options like 'Create Item', 'Manage Items', 'Browse Items', etc. A 'New Item Priority' section shows 0 High and 0 Medi.

The screenshot shows the 'Create Item' dialog box. It has fields for 'Organization' (000), 'Number of Items' (1), and 'Item Class' (Root Item Class). Below this is a 'Templates' section with two panes: 'Available List' (containing PTO Option Class, Phantom Item, Planning Item, Product Family, Reference Item, S1 - ATO Model Mfg, S1 - ATO Options) and 'Selected List' (containing Purchased Item). Buttons for 'OK' and 'Cancel' are at the bottom right.

Select the template as Purchased item

The screenshot shows the item creation screen. The 'Item' field is set to 'Min_Max_Item' with a description of 'Min Max plan testing'. Other fields include 'Item Class' (Root Item Class), 'Approval Status' (Approved), 'Completeness Score' (0), 'Created By' (SCM10 STUDENT), and 'User Item Type' (Purchased Item). On the left, there's a sidebar with sections like Overview, Specifications, Structures, Attachments, Associations, Relationships, Categories, and Quality. The 'Specifications' tab is selected. At the bottom, there are sections for Item Organization (Inventory), Material Control, and Transactional Attributes.

Save it

The screenshot shows the Oracle SCM application interface. At the top, there is a form for creating a new item:

Item	Min_Max_Item
* Description	Min Max plan testing
Item Class	Root Item Class
Approval Status	Approved
Completeness Score	100
Created By	SCM10 STUDENT
Item Status	Active
Lifecycle Phase	Active
User Item Type	Purchased Item
Pack Type	Base Unit or Each
Revision	A
Creation Date	12/5/24 4:47 PM

Below the form, a message says "No items to display". On the right side, there is a sidebar with various icons.

Under the main content area, there is a tab bar with "Associations" selected. The "Associations" tab shows a table of organization associations:

Organization	Organization Name	Item Status	* Primary Unit of Measure	Tracking Unit of Measure	Pricing	Secondary Unit of Measure	Defaulting Control	Positive Deviation Factor	Negative Deviation Factor	Approval Status	Change Order Line	Change Status
001	Seattle	Active	Ea	Primary	Primary	-	-	0	0	Approved		
000	Operations	Active	Ea	Primary	Primary	-	-	0	0	Approved		

At the bottom left of the table, it says "Columns Hidden 3".

Through associations/select and add assign it to another organization 001

Manage items:- Cross check the item is created or not.

The screenshot shows the Oracle Vision Product Information Management interface. The top navigation bar includes "Product Information Management" and "Manage Items".

The main area is titled "Manage Items" and shows a search interface with fields for "Item" (Starts with: Min), "Description" (Starts with: Min Max plan testing), and "Keyword". There are buttons for "Search", "Reset", "Save...", and "Add Fields".

Below the search interface, the "Search Results" section displays a table of items:

Item	Description	Approval Status	Item Status	Long Description	Item Class	Organization
Min_Max_Item	Min Max plan testing	Approved	Active		Root Item Class	000
Min_Max_Item	Min Max plan testing	Approved	Active		Root Item Class	001

At the bottom left of the table, it says "Columns Hidden 369".

2. Create a sub inventory: -

Global search> manage sub inventories>

The screenshot shows the Oracle Vision search interface. The top navigation bar includes "Search - Setup and Maintenance" and "Search".

The main search bar has the placeholder "Manage subinventories and locators". Below the search bar, there is a link "Match With Tasks, Task Lists, Business Objects".

The search results table has columns for "Name", "Type", and "Details". One result is highlighted with a yellow background:

Name	Type	Details
Manage Subinventories and Locators	Task	

VISION

Select Organization

VISION

Manage Subinventories

Search Results

Subinventory	Description	Active	Material Status	Locator Control	Subinventory Type	Additional Information
Completed	Finished Goods	<input checked="" type="checkbox"/>	Active	None	Storage	
Inspection	Inspection	<input checked="" type="checkbox"/>	Active	None	Storage	
Quarantine	Quarantine	<input checked="" type="checkbox"/>	Quarantine	None	Storage	
Receiving	Receiving	<input checked="" type="checkbox"/>	Active	None	Receiving	
Staging	Staging	<input checked="" type="checkbox"/>	Active	None	Storage	
Stores	Stores	<input checked="" type="checkbox"/>	Active	None	Storage	

Completed Subinventory Details

Click on +

VISION

Create Subinventory

Summary

* Subinventory <input type="text" value="API_MinMax"/>	<input checked="" type="checkbox"/> Asset subinventory
Description <input type="text" value="API_MinMax Subinventory"/>	<input type="checkbox"/> Depreciable
End Date <input type="text" value="midyy"/>	<input checked="" type="checkbox"/> Quantity tracked
* Material Status <input type="text" value="Active"/>	<input type="checkbox"/> PAR location
Subinventory Type <input type="text" value="Storage"/>	<input type="checkbox"/> Oracle Health location
Locator Control <input type="text" value="None"/>	Subinventory Group <input type="text"/>
Location <input type="text"/>	Replenishment Count Method <input type="text"/>
Locator Structure <input type="text" value="Four-Segment Locator Structure Instance"/>	Default Replenishment Count Type <input type="text"/>
Default Locator Status <input type="text"/>	Source Type <input type="text"/>
Picking Order <input type="text"/>	

Lead Times in Days

Save it

The screenshot shows a web browser window with the URL fa-euth-dev26-saasdemo1.ds-fa.oracledemos.com/fscmUI/faces/FuseTaskListManagerTop?_afrLoop=199205324220497&_adf.ctrl-state=17qa2lmxnc_738. The page title is "Manage Subinventories". The main content area displays a table titled "Search Results" under the heading "Manage Item Subinventories". The table has columns: Subinventory, Description, Active, Material Status, Locator Control, Subinventory Type, and Additional Information. One row is selected, showing "API_MinMax" as the Subinventory and "API_MinMax Subinventory" as the Description. Other rows include Completed, Inspection, Quarantine, Receiving, Staging, and Stores.

Select the sub inventory, Click on Manage item sub inventory

The screenshot shows a web browser window with the same URL as the previous screenshot. The page title is "Manage Item Subinventories". The main content area displays a search interface with fields for SubInventory (set to Equals API_MinMax) and Item Description (set to Starts with). Below the search bar is a "Search Results" section with a table header: Subinventory, Item, and Item Description. A note below the table says "No results found." At the bottom, there is a section titled "Item Subinventory Details" with columns for Item and Maximum Quantity.

Add Item to Subinventory

* Subinventory	APL MinMax	
* Item	Min_Max_Item	
Item Description		Min Max plan testing
* Inventory Planning Method	Min-max planning	
Min-Max Quantity UOM	Ea	
Minimum Quantity	1	
Maximum Quantity	10	
Fixed Lot Multiple		
Minimum Order Quantity		
Maximum Order Quantity		
PAR Settings		
Replenishment Count Type		
PAR Level		
Lead Times in Days		
Preprocessing		
Processing		
Postprocessing		
Sourcing		
Type	Subinventory	
Organization	Seattle	
Subinventory	APL MinMax	
Ordering UOM	Ea	
PAR Maximum Quantity		
PAR Level UOM		
Count Tolerance Percentage		

Save and Create Another **Save and Close** **Cancel**

Enter the item name

Inventory planning method

Sourcing Type:

Sub inventory/supplier/organization

Movement order/ transfer order will trigger automatically, when it reaches to minimum quantity.

Save and close

We need to run the min-max planning:

The screenshot shows the Oracle Fusion Cloud Application interface. At the top, there's a navigation bar with links like Intercompany Accounting, Fixed Assets, Academics, Academic Tools, My Enterprise, Tools, and Config. Below the navigation bar is a search bar labeled "Search for people and actions". The main content area has a dark teal background with binary code patterns. It features a "QUICK ACTIONS" section with links to Manage Collaboration Messaging History, Notifications, and AI Apps Administration. To the right is a grid of "APPS" with icons for Set Preferences, Developer Connect, Approvals, Reports and Analytics, Scheduled Processes, Security Console, Sales and Service Access Management, and File Import and Export. A central modal window titled "Schedule New Process" is open. It has a "Type" dropdown set to "Job" (which is highlighted with a yellow box). The "Name" field contains "Print Min-Max Planning Report" (also highlighted with a yellow box). The "Description" field says "Calculates min-max planning replenishment levels for items." At the bottom of the modal are "OK" and "Cancel" buttons.

Schedule process name: Run min-Max Planning report

Click on ok

The screenshot shows the Oracle Fusion Cloud Application interface. On the left, there's a sidebar with "Overview" and "Search" sections. The main area displays a list of processes: Resubmit Undelivered Signals, ESS job to run Bulk ingest to OSCS, ESS job to run Bulk ingest to OSCS, and Process API. A "Schedule New Process" button is visible. A modal window titled "Process Details" is open. It shows the process name "Print Min-Max Planning Report" and a description "Calculates min-max planning replenishment level...". Under "Basic Options", there are several dropdown menus and input fields: "Organization" (001), "Sort By" (Inventory Item), "From Item" (Min_Max_Item), "To Item" (Min_Max_Item), "Planning Level" (SubInventory), "Item Selection" (All min-max planned items), "SubInventory" (API_MinMax), "Batch Prefix" (empty), "Lot Control" (Include both lot and not lot controlled items), "Demand Cutoff Date" (midyy), and "Demand Cutoff Date Offset" (empty). At the bottom of the modal are "Process Options", "Advanced", "Submit", and "Cancel" buttons. The right side of the screen shows a "Submission Notes" list with items like "Resubmit Undelivered Signals", "FindOSCSBulkIngestJob", "FindOSCSBulkIngestJob", and "PostImportJobDef@Immediately".

Process Details

This process will be queued up for submission at position 1

Basic Options

Parameters

* Item Selection: All min-max planned items

Subinventory: APL MinMax

Batch Prefix:

Lot Control: Include both lot and not lot controlled items

Demand Cutoff Date: midyy

Demand Cutoff Date Offset:

Supply Cutoff Date: midyy

Supply Cutoff Date Offset:

* Restock: Yes (highlighted)

Ship-to Location:

* Net Unreserved Orders: Yes

* Include Interface Supply: Yes

Click on Advanced

Process Details

This process will be queued up for submission at position 1

Advanced Options

Parameters Schedule Output Notification

Name: InvMinMaxPlanningReportJob Document1

Layout: Redwood

Format: PDF

Destinations: InvMinMaxPlanningReportJob Document1: Destinations

Select the output type as pdf

Process Details

This process will be queued up for submission at position 1

Basic Options

Parameters

* Organization: 001

* Sort By: Inventory item

From Item: Min_Max_Item

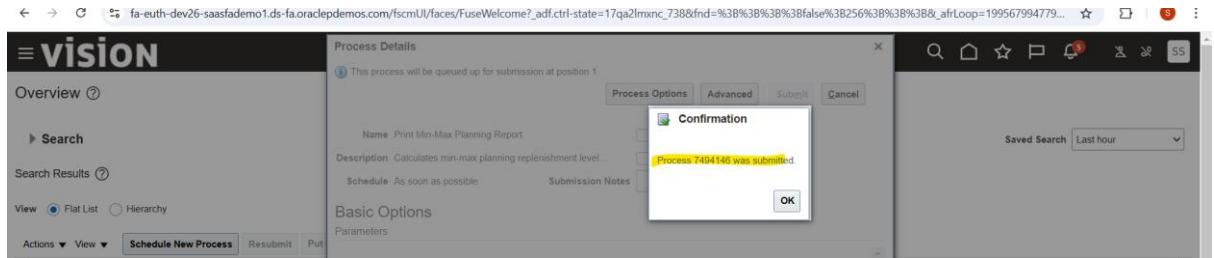
To Item: Min_Max_Item

* Planning Level: Subinventory

* Item Selection: All min-max planned items

Subinventory: APL MinMax

Click on submit.



Schedule process has been submitted.

The screenshot shows the Oracle Fusion Middleware search results page. It displays a table of processes, with one row highlighted in yellow. The highlighted row contains the following information:

Name	Metadata Name	Process ID	Status	Scheduled Time	Submission Time	Submission Notes
Print Min-Max Planning Report	InvMinMaxPlanningReport	7494146	Succeeded	12/5/24 5:05 PM UTC	12/5/24 5:05 PM UTC	

Below the table, the "Process Details" tab is selected, showing the following details for the process:

- Status: Succeeded
- Schedule Start: 12/5/24 5:05 PM UTC
- External Job Type: BIP Job
- External Job Status: NA

At the bottom of the screenshot, there is a callout text: "Click on the output".

ORACLE

Min-Max Report

Seattle

Report Parameters	
Organization	Seattle
Planning Level	Subinventory
Subinventory	APL MinMax
Item Selection	All min-max planned items
From Category	
To Category	
From Item	Min_Max_Item
To Item	Min_Max_Item
From Buyer	
To Buyer	
Sort By	Inventory Item
Demand Cutoff Date	12/5/24
Supply Cutoff Date	12/5/24
Restock	Yes
Ship-to Location	
Net Unreserved Orders	Yes
Net Reserved Orders	Yes
Include PO Supply	Yes
Include Move Order Supply	Yes
Include Interface Supply	Yes
Include Nonnettable Subinventories	Yes
Lot Control	Include both lot and not lot controlled items
Display Format	Display all information
Display Item Description	Yes
From Planner	
To Planner	
Net WIP Demand	Yes
Include WIP Supply	Yes
Include Subinventories	Yes
Without On-Hand Quantities	
Batch Name	MINMAX7494146

ORACLE

Min-Max Report

Report Date 12/5/24 5:05 PM
Page 1 of 1

Seattle

Item Description	Sort By	Minimum Quantity	Maximum Quantity	On-Hand Quantity	Supply Quantity	Demand Quantity	Available Quantity	Minimum	Order Quantity Maximum	Multiple	Reorder Quantity
Subinventory APL MinMax Ea											
Min_Max_Item/ Min Max plan testing		1	10	0	0	0	0				Ea 10

End of Report

This is output file generated. And reordered quantity is 10.

Reorder quantity = max-quantity- on-hand available quantity

$$= 10 - 0$$

Reordered quantity = 10

Check the Requisition created or not: -

Goto manage Move order request

The screenshot shows the vision Supply Chain Execution interface. At the top, there's a search bar with the placeholder "Search for people and actions". Below the header, a banner displays the message "Good evening, scm10 student". The main navigation bar includes links for Supply Chain Execution, Supply Chain Planning, Supplier Portal, Payables, General Accounting, and Intercompany. On the left, a sidebar titled "QUICK ACTIONS" lists several options like Manufacturing Work Orders, Manufacturing Dispatch List, Manage Maintenance Assets, etc. To the right, a grid of "APPS" is shown, with "Inventory Management" highlighted in green. Other apps include Work Definition, Work Execution, Maintenance Management, Quality Management, Inventory Management (Mobile), Cost Accounting, and Receipt Accounting.

The screenshot shows the vision Inventory Management interface. The top navigation bar includes links for Inventory Management, Supply Chain Planning, and more. A sidebar on the right shows "Show Tasks: Inventory" with a list of tasks such as "Manage Item Quantities", "Create Subinventory Transfer", and "Manage Movement Requests" (which is highlighted in yellow). The main content area displays various metrics: "Picks" (1 confirmed), "Late Cycle Counts Over 30 Days" (0 items), "Cycle Count Sequences" (No data available), "On-Hand Value" (\$279M), "Shipment Lines" (7 awaiting pick), and "Inspected Receipt Lines" (0 accepted).

The screenshot shows the vision Manage Movement Requests interface. The top navigation bar includes links for Inventory Organization 001, Change Organization, and Done. A sidebar on the right shows "Saved Search: All Movement Requests" with a note "At least one is required". The main content area features an "Advanced Search" form with fields for Movement Request (Between date range), Created By, Movement Request Type, Transaction Type, Line Status, Source Subinventory, Destination Subinventory, and a search button. There are also "Reset", "Save...", "Add Fields", and "Reorder" buttons at the bottom.

Manage Movement Requests

Advanced Search

Movement Request: Between [] - []

Created By: []

Movement Request Type: []

Transaction Type: []

Item: Min_Max_Item []

Line Status: []

Source Subinventory: []

Destination Subinventory: []

Search Results

Movement Request	Line Number	Movement Request Type	Required Date	Transaction Type	Item	Requested Quantity	Delivered Quantity	UOM Name	Line Status	Created By
273899	1	Replenishment	12/20/24 12:00:00	Movement Request	Min_Max_Item	10		Ea	Preapproved	SC110 STUDENT

Automatically Movement request has been generated for the reordered quantity 10.