

SEMS Version 13.0.0

Release Notes

1 CONTENTS

2	Main Features in brief.....	3
3	Stock Overview	5
3.1	Actual Stock.	5
3.2	Projected Stock and the Replenishment Chain	6
3.3	Consolidated Stock.....	7
3.4	Consolidated Stock with Provisional Supply.....	8
4	Stock Analysis Views	9
4.1	Actual Stock	9
4.1.1	Examining Negative Stock	9
4.2	Actual Supply	12
4.3	Actual Demand	14
4.4	Projected Stock	16
4.5	Projected Supply	17
4.6	Projected Demand	17
4.7	Outstanding Projected Supply	18
4.8	Outstanding Projected Demand.....	19
4.9	Consolidated Stock.....	19
4.10	Consolidated Stock with Provisional (Projected) Supply	20
4.11	Provisional (Projected) Supply	21
5	Stock Reorder Information.	22
5.1	List of Settings.....	22
5.1.1	Replenish Policy	22
5.1.2	Average Daily Demand	22
5.1.3	Stock Target Quantity	22
5.1.4	Reorder frequency days	23
5.1.5	Check Stock Day	23
5.2	Setting Average Daily Demand based on Projected Demand.....	24
5.3	Setting Stock Reorder Information	29
5.4	Generating the Target Quantity.....	30
5.5	Target vs Stock Level Warnings and Tolerance Factors.....	31
6	Replenishment.....	32
6.1	Steps	32

6.2	Replenishing from within an order	32
	Generate the replenishing orders	34
	Activate the newly generated linked orders	34
6.3	Replenishment directly from Process Orders.....	37
6.4	Bulk Replenish Orders.....	37
6.5	Replenishing (Process Orders) from Scheduled Batches	39
6.6	Replenish Raw Materials for Scheduled Batches.	42
6.7	Replenish from Stock	45
	6.7.1 Bring the Provisional Stock forward	46
7	Process Order Batch – Closing Issues.....	48
	7.1 Reopening Issues	49
8	System Settings.....	50
	8.1 Security Settings	50
	8.2 Company Settings	50
	8.3 Replenish Settings.....	50

2 MAIN FEATURES IN BRIEF.

- Stock Analysis to run across multiple periods by
 - Running Balances
 - Actual Stock
 - Projected Stock (new)
 - Consolidated Stock (new)
 - Consolidated with Provisional Supply (new)
 - Transactions
 - Actual Supply (new)
 - Actual Demand (new)
 - Projected Supply (new)
 - Projected Demand (new)
 - Projected Outstanding Supply (new)
 - Projected Outstanding Demand (new)
 - Provisional Supply (new)
- Stock Analysis views are colour coded and have warnings for negative stock; below target and above maximum target; outstanding supply or demand.
- Minimum and Maximum Target factors can be set.
- Detailed Stock Analysis has new page\tab: Consolidated with Provisional Supply. Drill through to the Provisional Supply records.
- Stock Item Reorder information.
 - Information stored per item per department
 - Reorder Policy
 - Average Daily Demand
 - Target Qty
 - Reorder frequency
 - Check Stock Day
 - Bulk Setting facility
 - Average Daily Demand set manually or from historical projected demand
 - Target Qty set manually or generated
- Process Order Completed Batches. New Menu option. (SAF 757)
- Close Issues against Process Order Batches and NOT Process orders
 - Can only close issues once the batch itself is closed
- Process Order Batch Detail Screen. New actions to Close Batches and Close Issues.
- Stock Replenishment.
 - Makes use of daily consolidated stock with provisional supply to detect negative stock or below targets warning.
 - Generates the proposed due date of the order based on the earliest date it can find that is in the future, acknowledges the lead time and the latest date that is needed to prevent stock dropping below target.

- Allows provisional orders to be continually added to thus preventing piecemeal orders being sent to suppliers. IE Many days of material requirements are added to the purchase order BEFORE activation.
- Warning if supply needs to be brought forward.
- Replenishment against Scheduled Batch Materials.

Miscellaneous

- Sales order list to show Capture Operator
- Process Order Issue Outstanding is not limited to Open Process orders but rather to process batches whose Issues have not been closed.
- Item Type: Moved Issued to Stage from Advanced Settings to Process Model Settings
- Material Settings for Item moved from the profile page to a separate tag. (This was due to space issues on the profile)

Bug Fix

- Unit Stock Cost value shown on Actual Sales Report

3 STOCK OVERVIEW

Stock-on-hand is the amount of stock available.

Stock increases by adding new Supply and is depleted by removing Demand.

$$\text{Stock} = \Sigma\text{Supply} - \Sigma\text{Demand} (+ \text{Adjustments})$$

3.1

ACTUAL STOCK.

Actual Supply refers to the acquisition of physical Stock.

- Purchase Orders received from Suppliers
- Internal Orders received from another Department
- Completion of manufactured/finished goods.

Actual Demand refers to the depletion of Physical Stock.

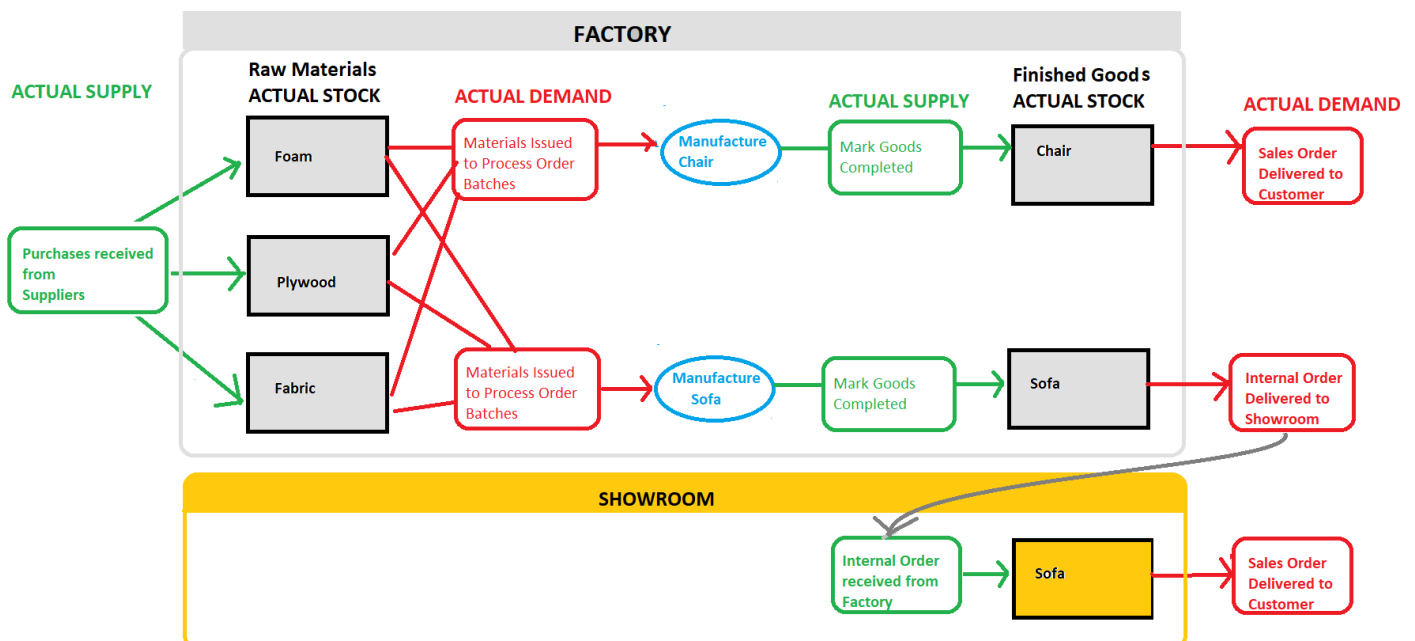
- Sales Orders Delivered
- Internal Orders Delivered
- Materials Issued to a job (process order) for manufacturing.

Stock Take can change the Quantity of Stock to reflect the quantity in the store.

- Stock Adjustment.

Typical movement of Actual Stock in a Manufacturing company.

- Purchase order received **supply** the raw materials.
- The raw materials are issued to the process order jobs (Actual **Demand**)
- The raw materials are used to manufacture the finished goods which on completion increases the Actual **supply** of the finished goods.
- The Finished goods are then Shipped/delivered (Actual **Demand**) to the customer

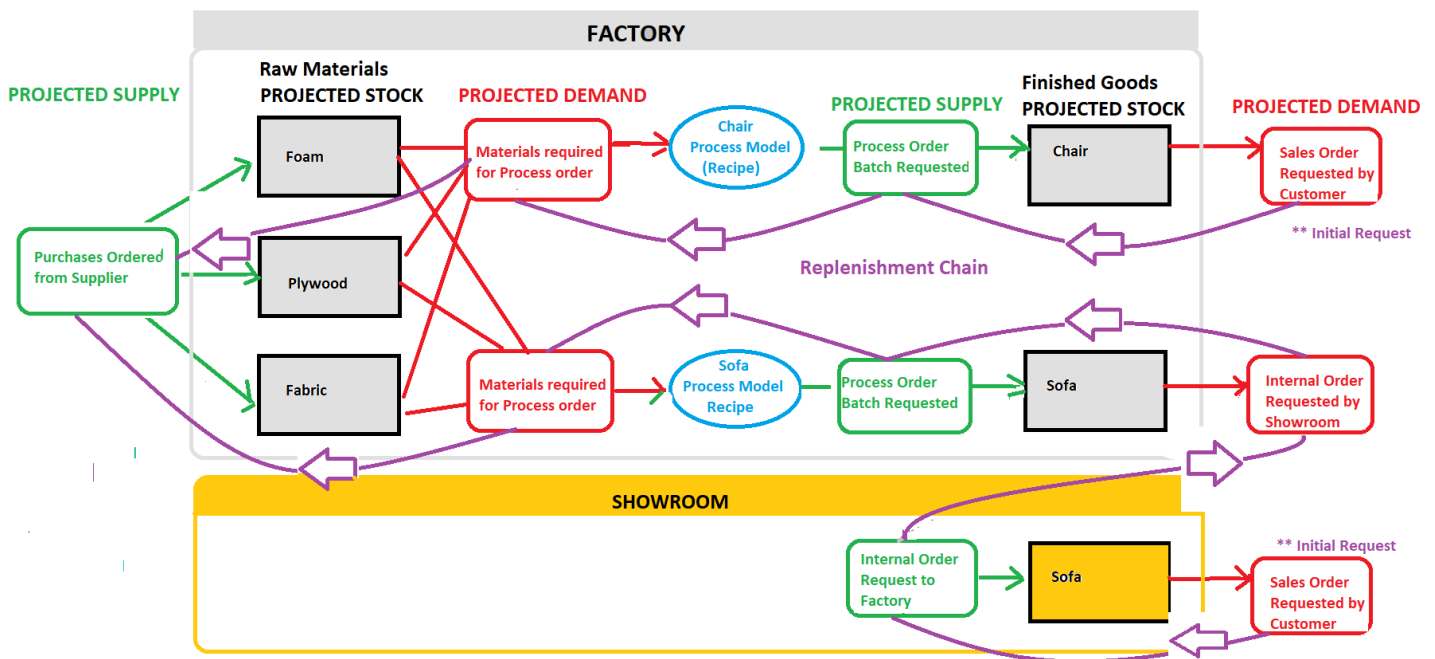


3.2 PROJECTED STOCK AND THE REPLENISHMENT CHAIN

Prior to Actual Stock changing hands we have the Request for stock and the chain of replenishment requests that consequently follow.

Typical ordering chain

- A **Sales order** is requested for finished goods. This is Projected **Demand**. In order to satisfy this demand we replenish/ create Projected **Supply**.
Either
 - **Internal Order to a supplying department** to provide/manufacture the finished goods.
 - **Process Order** (if this department is a factory, for items we make) or
 - **Purchase Order** to a supplier for an item that is pure “buy-out” (something not made, just bought and sold)
- An **Internal order from a customer department** will, in turn, require a **Process order** to satisfy it.
- A Process order requires materials.
The **Process Order Batch Input Requirement** are the Projected Demand for the raw materials.
- A **Purchase Order** is placed in order to fulfil/supply the demand for the raw materials.



Projected Demand represents the request for Stock

- Sales Order from Customer
- Internal Order from Customer/Requesting Department
- Materials requirement for a Process Order

Projected Supply represents the anticipated arrival of ordered Stock

- Purchase Order to Supplier
- Internal Order to Supplying Department
- Process Order planned to manufacture stock

3.3 CONSOLIDATED STOCK

Consolidated stock looks at the **cumulative values** of both the Actual and the Projected Stock. This, in essence, lets us see what we expect to have in stock at a given time.

Example.

10 cushions in stock today (Monday)

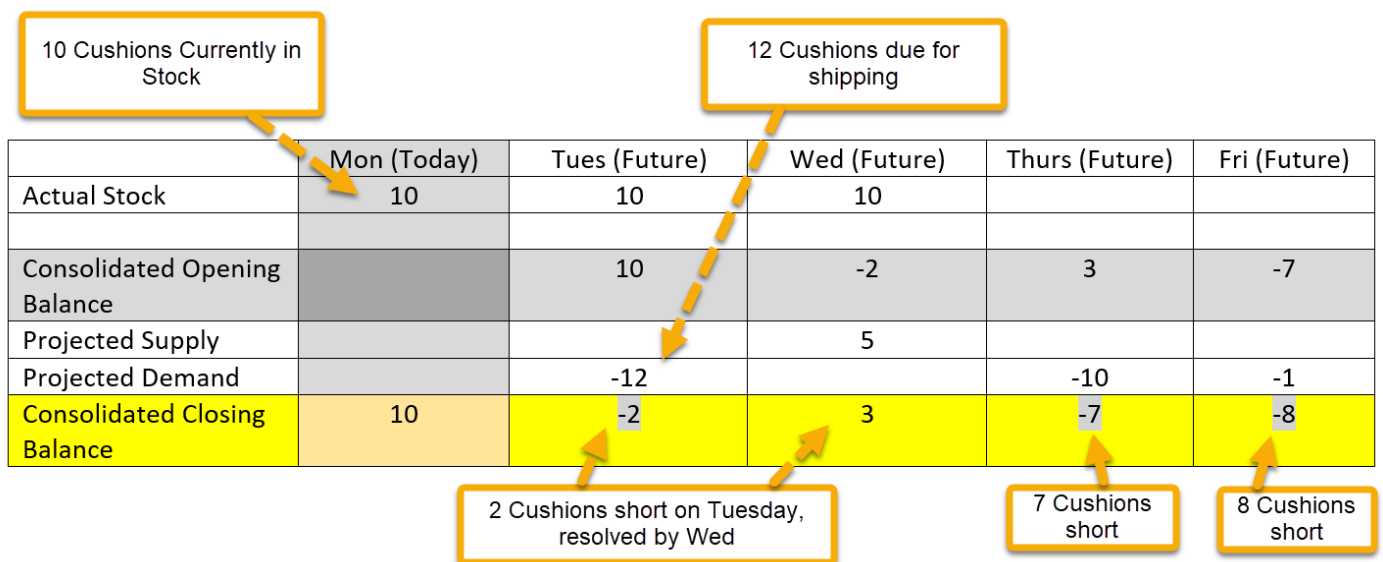
12 are due to be shipped on Tuesday

5 are expected to be supplied on Wednesday.

A further 10 to be shipped on Thursday and another 1 on Friday

The consolidated stock view alerts us to the fact that we will be 2 cushions short on Tuesday. They can be shipped on Wednesday when the extra supply arrives.

By Thursday we will be 7 short, and 8 short by Friday.



When considering stock future needs and being timeously **alerted to future stock shortages** this is a very useful view. It does, however, rely on the fact that your data is being kept up-to-date.

3.4 CONSOLIDATED STOCK WITH PROVISIONAL SUPPLY.

This view adds Provisional Supply to the Consolidated Balance and is especially useful for Replenishment.

The Actual, Projected and Consolidated Data use records which have been ACTIVATED. For Replenishment, and particularly material replenishment and items with the replenishment policy of STOCK, we have a mechanism to keep adding to an order (eg. A Purchase Order) for a couple of days BEFORE we activate and send to the supplier.

The Transactions which are included in the Provisional Supply refer to Provisional Projected Supply.

- Purchase Orders
- Internal orders from Supplying Department
- Process Orders

Using the same example shown above, but also include the Provisional Supply. We have a provisional Purchase order ear-marked for Friday with an Additional 10 items

	Mon (Today)	Tues (Future)	Wed (Future)	Thurs (Future)	Fri (Future)
Actual Stock	10	10	10		
Consolidated Opening Balance		10	-2		
Projected Supply			5		
Projected Demand		-12		-10	-1
Consolidated Closing Balance	10	-2	3	-7	-8
Provisional Supply					10
Consolidated with Provisional Supply	10	-2	3	-7	2

Additional Provisional Stock resolves the outstanding supply by Friday

Looking at this view we see that Friday will not be a problem and **if we bring the due date of the provisional order forward** to Thursday (bearing in mind the Suppliers Lead days) we will ensure that Thursday's orders are not late. Thus the beauty of the provisional state of the order, allowing the Due Date to change.

	Mon (Today)	Tues (Future)	Wed (Future)	Thurs (Future)	Fri (Future)
Actual Stock	10	10	10		
Consolidated Opening Balance		10	-2		
Projected Supply			5		
Projected Demand		-12		-10	-1
Consolidated Closing Balance	10	-2	3	-7	-8
Provisional Supply				10	
Consolidated with Provisional Supply	10	-2	3	3	2

Bring the Provisional Order forward to ensure Thursday does not fall behind

4 STOCK ANALYSIS VIEWS

Stock Analysis has a whopping 11 different Stock Type views. This section will give you some ideas of what each view is used for and tips relating to each.

4.1 ACTUAL STOCK

Actual stock shows the **running stock balance** over time. Actual stock can never change for a future date. When viewing actual stock **look at date ranges in the past**.

Actual Stock should **NEVER be negative**. Use this view to identify missing supply and potentially faulty stock values. Negative stock is generally caused by

- Failure to Capture/Activate Actual Supply Transaction (Purchase order Receipt, Internal order Receipt, Process Order Mark Complete)
- Late Capture of Actual Demand Transaction AFTER A STOCK TAKE.

4.1.1 Examining Negative Stock

Failure to Capture Actual Supply Transaction

The example below shows a suspicious gap in the monthly supply.

Stock Analysis

Department: Production CPT | Item Code: PLY-00008 | Item Name: Plywood - Pine C/C 12mm x 2440mm x 1220mm | Start Date: 2022/01/01 | End Date: 2022/08/31 | Stock Type: Actual Stock

Item Code	Item Name	UOM	Warning	Has Warning	2022-01-01	2022-02-01	2022-03-01	2022-04-01	2022-05-01	2022-06-01	2022-07-01	2022-08-01
PLY-00008	Plywood - Pine C/C 12mm x 2440mm x 1220mm	Sheet	Negative Stock	✓	630.602	535.722	471.287	42.397	-380.213	-438.573	-438.573	-1.018.773

Stock Analysis Detail - 537

Data Item	2022-01-01	2022-02-01	2022-03-01	2022-04-01	2022-05-01	2022-06-01	2022-07-01	2022-08-01	2022-01-01	2022-02-01	2022-03-01	2022-04-01	2022-05-01	2022-06-01	2022-07-01	2022-08-01
Opening Balance	384.509	636.802	535.722	471.287	42.397	-380.213	-438.573	-438.573	89.605.81	147.001.84	136.818.50	149.537.37	13.452.39	-120.639.96	-139.157.36	-139.157.36
Actual Supply	546	277	573						20.127.239.62	77.019.55	196.236.82					
Actual Demand	-299.707	-372.08	-637.436	-428.89	-422.61	-58.36			-800.213	-89.943.59	-87.202.89	-183.517.96	-136.084.96	-134.092.37	-18.517.38	-190.99
Adjust																
Closing Balance	630.602	535.722	471.287	42.397	-380.213	-438.573	-438.573	-1.018.773	147.001.84	136.818.50	149.537.37	13.452.39	-120.639.96	-139.157.36	-139.157.36	-351.47

Look out for Negative Stock. Actual Stock should NEVER be negative

Diagnosing the reason. The detailed view shows that there was no supply from May- July.

Poorly timed capture of Actual Demand after a Stock Take.

Another record shows negative stock. Notice the adjustment made by a Stock Take on 14th November.

The Actual Demand on the 17th pushes the stock into Negative value.

Department Info	Projected	Consolidated	Consolidated Provisional Supply	Summary
Department Name: Factory JHB				
Data Item: Opening Balance	116	116	29	21
Data Item: Actual Supply				
Data Item: Actual Demand		-5	-8	-30
Data Item: Adjust		-82		
Data Item: Closing Balance	116	29	21	-9

Drill through to the detail of this record by selecting the cell and clicking Open. (Or double-clicking the cell)

The details are shown below.

Trx Type	Trx No	Department	Batch No	Due Date	Transaction Date	Stock Type	Stock Qty	Stock Date	Unit Cost	Stock Cost	Supply Received	Demand Delivered	Actual Adjustment
Process Order Issue	POIS10097	Factory JHB	1624/1	2022/09/22	2022/11/17 10:35:21	Actual Demand	-1	2022/11/17 10:35:21	278.31	-278.31			1
Process Order Issue	POIS10102	Factory JHB	1649/1	2022/09/23	2022/11/17 10:37:16	Actual Demand	-1	2022/11/17 10:37:16	278.31	-278.31			1
Process Order Issue	POIS10103	Factory JHB	1790/1	2022/10/03	2022/11/17 10:49:07	Actual Demand	-2	2022/11/17 10:49:07	278.31	-556.62			2
Process Order Issue	POIS10104	Factory JHB	1826/1	2022/10/03	2022/11/17 10:52:19	Actual Demand	-5	2022/11/17 10:52:19	278.31	-1 391.54			5
Process Order Issue	POIS10105	Factory JHB	1996/1	2022/10/10	2022/11/17 11:04:51	Actual Demand	-1	2022/11/17 11:04:51	278.31	-278.31			1
Process Order Issue	POIS10106	Factory JHB	2070/1	2022/10/12	2022/11/17 10:58:04	Actual Demand	-2	2022/11/17 10:58:04	278.31	-556.62			2
Process Order Issue	POIS10200	Factory JHB	2069/1	2022/10/12	2022/11/17 11:23:10	Actual Demand	-2	2022/11/17 11:23:10	278.31	-556.62			2
Process Order Issue	POIS10204	Factory JHB	2068/1	2022/10/12	2022/11/17 11:25:01	Actual Demand	-1	2022/11/17 11:25:01	278.31	-278.31			1
Process Order Issue	POIS10210	Factory JHB	1921/1	2022/10/12	2022/11/17 11:27:10	Actual Demand	-2	2022/11/17 11:27:10	278.31	-556.62			2
Process Order Issue	POIS10214	Factory JHB	2074/1	2022/10/12	2022/11/17 11:29:11	Actual Demand	-2	2022/11/17 11:29:11	278.31	-556.62			2
Process Order Issue	POIS10180	Factory JHB	2107/1	2022/10/25	2022/11/17 11:11:11	Actual Demand	-2	2022/11/17 11:11:11	278.31	-556.62			2
Process Order Issue	POIS10163	Factory JHB	2127/1	2022/10/27	2022/11/17 11:05:50	Actual Demand	-2	2022/11/17 11:05:50	278.31	-556.62			2
Process Order Issue	POIS10212	Factory JHB	2126/1	2022/10/27	2022/11/17 11:28:33	Actual Demand	-2	2022/11/17 11:28:33	278.31	-556.62			2
Process Order Issue	POIS10159	Factory JHB	2360/1	2022/10/31	2022/11/17 11:03:26	Actual Demand	-1	2022/11/17 11:03:26	278.31	-278.31			1
Process Order Issue	POIS10189	Factory JHB	2447/1	2022/10/31	2022/11/17 11:19:01	Actual Demand	-1	2022/11/17 11:19:01	278.31	-278.31			1
Process Order Issue	POIS14131	Factory JHB	2630/1	2022/11/16	2022/11/17	Actual Demand	-1	2022/11/17	278.31	-278.31			1
Process Order Issue	POIS14142	Factory JHB	2637/1	2022/11/21	2022/11/17	Actual Demand	-1	2022/11/17	278.31	-278.31			1
Process Order Issue	POIS14165	Factory JHB	2702/1	2022/11/21	2022/11/17	Actual Demand	-1	2022/11/17	278.31	-278.31			1
							-30		-8 349.24		0	30	

The materials were due much earlier than they were actually issued. So were the materials **ISSUED** late OR were the issues **CAPTURED** late?

To confirm our suspicions, we look at when the finished product was completed.

Taking the first record we see the Process Order number is 1624.

Main Menu > Operation > Process Order.

Search for Process Order 1624

Process Order - 1624

Close Previous Next Info Help Select Mark Completed Cutting Plan Process Order Item Stock Ledger Process Model Review

Process Order Number: 1624 Department: Factory JHB Item Code: SS/E-00389 Order Qty: 1 Status: Closed

Item Name: Sofa Trisha - Juno 2 Seater 600 x 900 x 430mm with Straight Arm Fabric in Homeboy, Pigeon, with Polyester Fibre Fill 1 Back Cushion with Superior & Sustainable 1 Seat Cushion + Chaise, on 150 mm L-Shape Metal Base

Process Model No: 249 Process Manager: Noah, Arabelle Due Date: 2022/09/27 00:00 Scheduled Start Date: 2022/09/22 Max Batch Size: 0

The job was completed on 27th September. The materials would have to have been ISSUED prior to this

Batch Information				Quantity Information				Sales Order Information				
Batch No.	Closed	Checked By	Off-line Date	Issues Closed	Issues Closed By	Issues Closed On	Planned Quantity	Completed Quantity	Qty Variance	U.O.M.	Order No.	Due Date
1624/1	✓	KathyB1795	2022/09/27	✓	KathyB1795	2022/11/17	1	1	0	ea	SO1098	2022/09/25
							1	1	0			

As Process Order 1624 was completed on 27th September, it follows that the materials were ISSUED Before the job completed. We can thus conclude that the Issues were CAPTURED late.

Late capture of records results in a few problems: **The Stock-Take PRIOR to the LATE capture of these issues results in incorrect Stock Balance.**

- Opening Balance on 14th November was 116
- Stock Take on 14th November counted 29 items. (This means that the stock was adjusted by -82 and logged in G/L.)
- Materials Qty issued on 17th November was 30. (Logged in G/L as 30)
- Stock Closing Balance on 17th September was -9. This incorrect Balance is propagated forward.

Stock Analysis Detail - 3755

Start Date: 2022/11/13 End Date: 2022/11/27 Department: Factory JHB Date Type: Daily Item Code: FC/E-00328 Item Name: Foam - 3012 - Cut Size - 1020mm x 720mm x 140mm (LIR-I)

Actual		Projected		Consolidated		Consolidated Provisional Supply		Summary										
Department Name	Data Item	2022-11-13	2022-11-14	2022-11-15	2022-11-16	2022-11-17	2022-11-18	2022-11-19	2022-11-20	2022-11-21	2022-11-22	2022-11-23						
Factory JHB	Opening Balance	116	89	116	89	116	29	21	18	-9	16	-11	16	-11	16	-11	13	-14
Factory JHB	Actual Supply																	
Factory JHB	Actual Demand		-27				-8		-3	-30								-3
Factory JHB	Adjust																	
Factory JHB	Closing Balance	89	89	116	89	116	29	21	18	-9	16	-11	16	-11	16	-11	13	-14

Timeous Capture of Issues PRIOR to Stock Take

Late Capture of Issues

Stock Take

Incorrect Balance

Incorrect Balance

Look at what the values in Actual Stock would have been had the material issues been CAPTURED on time. In particular, PRIOR to the Stock Take

Had the issued been captured PRIOR to stock take.

- Material Issues for September would have had an additional 2. (And added correctly to the G/L for Sept)
- Material Issues for October would have had an additional 25. (And added correctly to the G/L for Oct)
- Opening Balance on 14th November would have been 89.
- Stock Take on 14th November WOULD STILL HAVE counted 29 items, BUT this would have caused an adjustment of only -55. (-55 in G/L)
- Materials Issued for 17th November would be 3 and shown as such in the G/L
- Stock Closing Balance 17th September would be 18 and THIS CORRECT Balance propagated forward.

The Detailed Grid shows the same data within the context of the Actual Stock view. Select a cell by clicking on it. You will see the corresponding quantity or cost column will be highlighted.

To further validate these numbers, drill down to a list of the originating Source Transactions.

- Click on a cell to select and Click the Open Button

The screenshot displays the 'Stock Analysis' window for item PLY-00013. The 'Actual' column for the period 2022-07-01 to 2022-07-31 shows a value of 575. A callout box states: 'A further drill down will show a list of the source transactions making up the qty and cost'. Below, the 'Stock Source' window shows a list of transactions, with the selected transaction (Purchase Order Receipt POREC1715) highlighted in orange. The 'Actual Supply' column for this transaction shows a value of 575, which matches the value in the Stock Analysis grid. The 'Stock Cost' column for this transaction shows a value of 189,750.00, which also matches the value in the Stock Analysis grid.

Item	Actual	Projected	Consolidated	Consolidated Provisional Supply	Summary
Opening Balance	518.15	927.35	1,502.35	1,144.5058	-537.7984
Actual Supply	415	575	655	35	25
Actual Demand	-5.8	-1,012.8447	-630.5496	-562.7984	-565.434

Trx Type	Trx No	Department	Batch No	Due Date	Transaction Date	Stock Type	Stock Qty	Stock Date	Unit Cost	Stock Cost	Supply Received	Demand Delivered	Actual Adjustment	Supply Order Qty	S/R
Purchase Order Receipt	POREC1715	Production CPT		2022/07/01	2022/07/01 15	Actual Supply	15	2022/07/01	330.00	4,950.00	15				
Purchase Order Receipt	POREC1725	Production CPT		2022/07/06	2022/07/06 21	Actual Supply	21	2022/07/06	330.00	6,930.00	21				
Purchase Order Receipt	POREC1726	Production CPT		2022/07/01	2022/07/04 15	Actual Supply	75	2022/07/01	330.00	24,750.00	75				
							575			189,750.00	575	0	0	0	

These transactions should total to the selected detailed cell value. In addition, the selected cell determines which source columns are highlighted.

The Source transactions are listed.

Here we see that these materials were due to be issued in May. They were eventually CAPTURED in August.

Transaction Information				Stock Information				Actual Summary			Projected St					
Trx Type	Trx No	Department	Batch No	Due Date	Transaction Date	Stock Type	Stock Qty	Stock Date	Unit Cost	Stock Cost	Supply Received	Demand Delivered	Actual Adjustment	Supply Order Qty	Supply Plan Receipt	Sup Car
Process Order Issue	POIS530	Production CPT	497/1	2022/05/18	2022/08/03 11	Actual Demand	-2	2022/08/03 11	317.30	-634.59		2				
Process Order Issue	POIS531	Production CPT	473/1	2022/05/13	2022/08/03 11	Actual Demand	-1.3	2022/08/03 11	317.30	-412.48		1.3				
Process Order Issue	POIS532	Production CPT	471/1	2022/05/26	2022/08/03 11	Actual Demand	-21	2022/08/03 11	317.30	-6 663.21		21				
Process Order Issue	POIS533	Production CPT	477/1	2022/05/30	2022/08/03 11	Actual Demand	-21	2022/08/03 11	317.30	-6 663.21		21				
Process Order Issue	POIS534	Production CPT	471/1	2022/05/23	2022/08/03 11	Actual Demand	-1.3	2022/08/03 11	317.30	-412.48		1.3				
Process Order Issue	POIS537	Production CPT	473/1	2022/05/27	2022/08/03 11	Actual Demand	-20	2022/08/03 11	317.30	-6 345.92		20				
Process Order Issue	POIS538	Production CPT	475/1	2022/05/24	2022/08/03 11	Actual Demand	-1	2022/08/03 11	317.30	-317.30		1				
Process Order Issue	POIS539	Production CPT	476/1	2022/05/24	2022/08/03 11	Actual Demand	-0.45	2022/08/03 11	317.30	-142.78		0.45				
Process Order Issue	POIS540	Production CPT	477/1	2022/05/24	2022/08/03 11	Actual Demand	-1	2022/08/03 11	317.30	-317.30		1				
Process Order Issue	POIS551	Production CPT	497/1	2022/05/31	2022/08/03 11	Actual Demand	-1	2022/08/03 11	317.30	-317.30		1				
Process Order Issue	POIS552	Production CPT	498/1	2022/05/31	2022/08/03 11	Actual Demand	-2	2022/08/03 11	317.30	-634.59		2				
							-600.2			-190 995.01	0	600.2	0	0	0	0

Note: Even if one is capturing issues late, one could choose to back date the issues to their correct issue date. (As long as the accounting period has not closed for this historical back date and these incorrect issues have not been extracted for the General Ledger).

This would correct the stock.

This is a topic for another time.

4.4 PROJECTED STOCK

Projected Stock displays the running values for **Outstanding Projected Transactions**.

The further back in time we look the more likely we are to have NO data. Historical Projected values show Late Projected Stock. Future Projected values show Expected Stock.

In the sample below we filter the grid to show only those records with warnings. Warnings indicate outstanding Supply and outstanding Demand.

Other points to note are the standard (non-alert) colour of the Period columns.

1. Grey - shows past Quantity values.
2. Green - shows past Cost values.
3. White - indicates future Quantity and Cost periods

Drilling through to the details and looking at the Projected Tab we see the breakdown of the outstanding values.

Original Supply is offset by Receipt and/or Cancellation. Any remaining value is the outstanding supply.

Original Demand is offset by Delivery and/or Cancellation. Any remaining value is the outstanding demand.

Actual	Projected	Consolidated	Consolidated Provisional Supply	Summary										
Department Info		Quantity												
Department Name	Data Item	2022-09-01 2022-09-30	2022-10-01 2022-10-31	2022-11-01 2022-11-30	2022-12-01 2022-12-31	2022-12-21 2022-12-31	2023-01-01 2023-01-31	2023-02-01 2023-02-28	2023-03-01 2023-03-31	2022-09-01 2022-09-30	2022-10-01 2022-10-31	2022-11-01 2022-11-30	2022-11-21 2022-11-30	
Factory JHB	Opening Balance			-0.3286	1.9067	1.4305	1.4041	0.2762	0.2545					-289.17
Factory JHB	Supply Outstanding			4	4									4 000.00
Factory JHB	Demand Outstanding			-0.3286	-1.7647	-4.4762	-0.0264	-1.1279	-0.0217					-289.17 -1 552.94
Factory JHB	Closing Balance			-0.3286			0.41	0.2762	0.2545					89.17 2 157.90
Factory JHB	Supply	5	4											00.00 12 000.00
Factory JHB	Supply Received	-2	-4											00.00 -8 000.00
Factory JHB	Supply Close	-3												
Factory JHB	Demand	-1.5917	-5.2667				0.264	-1.1279	-0.0217					34.70 -5 024.45
Factory JHB	Demand Deliver	0.549	-2.5701											61.69 3 406.13
Factory JHB	Demand Close	1.0427	-2.368											83.84 65.38

4.5 PROJECTED SUPPLY

Projected Supply show you the specific supply for a given date range.

Stock Analysis

Department: Production CPT | Item Code: | Item Name: | Start Date: 2022/04/01 | End Date: 2022/07/31 | Stock Type: Projected Supply

Item Code	Item Name	UOM	Analysis		Total Qty	Avg Qty	Total Cost	Quantity				Cost			
			Min Qty	Max Qty				2022-04-01	2022-05-01	2022-06-01	2022-07-01	2022-04-01	2022-05-01	2022-06-01	2022-07-01
PLY-00013	Plywood - OSB3 12mm x 2440mm x 1220mm	Sheet	225	615	1 535	383.75	506 450.00	225	320	375	615	74 250.00	105 500.00	123 750.00	202 950.00
PLY-00008	Plywood - Pine C/C 12mm x 2440mm x 1220mm	Sheet	0	400	562	140.5	141 911.68	400	15	162	31 627.28	50 220.00	-	-	
PLY-00017	Plywood - OSB3 12mm x 2550mm x 1250mm	Sheet	0	65	80	20	27 520.00	65	24	24	22 360.00	5 160.00	-	-	
PLY-00012	Plywood - Pine B/B 12mm x 2440mm x 1220mm	Sheet	0	24	24	6	7 563.00	24	10	10	4 305.00	14 350.00	-	-	
PLY-00015	Plywood - Birch 24mm BBWG 2470mm x 1220mm	Sheet	0	0	0	0	0	0	2	5	4	3 660.00	9 150.00	7 320.00	
PLY-00016	Plywood - Birch 30mm BBWG 2470mm x 1220mm	Sheet	0	0	0	0	0	0	4	6	6	4 036.04	5 700.00	-	
BM/S-00005	Board - MDF Raw 22mm - 2750mm x 1830mm	Sheet	5.04	3	4	1	1 391.04	3	4	6	1 755.00	3 354.78	-	-	
BM/S-00004	Board - MDF Raw 16mm - 2750mm x 1830mm	Sheet	3.78	3	6	2	1 375.87	3	1	3	2 290.00	145.00	540.00	400.87	
BC/S-00001	Chipboard Raw - 16mm x 2750 x 1830	Sheet	3.56	3	8	2	1 375.87	3	1	3	2 290.00	145.00	540.00	400.87	
BM/S-00002	Board - MDF Raw 3mm - 2750mm x 1830mm	Sheet	0	3	4	1	1 391.04	3	1	3	2 290.00	145.00	540.00	400.87	
BM/S-00003	Board - MDF Raw 6mm - 2750mm x 1830mm	Sheet	0	2.5	2.5	0.625	1 541.50	2.5	1	1	425.00	450.87	-	-	
BM/B-00007	Board - Mela.Picco White Strata 16mm x 2750mm	Board	0	1	2	0.5	875.87	1	1	1	167 986.66	144 628.66	213 024.56	221 954.36	
BM/S-00006	Board - MDF Raw 9mm - 2750mm x 1830mm	Sheet	0	1	2	0.5	875.87	1	1	1	167 986.66	144 628.66	213 024.56	221 954.36	

4.6 PROJECTED DEMAND

The projected demand over time lets us see which items (finished goods and raw materials) are most frequently used.

We can see the cost of these items and the monthly trends.

Stock Analysis

Department: Production CPT | Item Code: | Item Name: | Start Date: 2022/04/01 | End Date: 2022/09/30 | Stock Type: Projected Demand

Process: Make | Category: Component | Group: Sofa | Item Type: Sofa

Item Code	Item Name	UOM	Analysis		Total Qty	Avg Qty	Total Cost	Quantity				Cost				
			Min Qty	Max Qty				2022-04-01	2022-05-01	2022-06-01	2022-07-01	2022-08-01	2022-09-01	2022-04-01	2022-05-01	2022-06-01
SD008L3-CR/BL	Sofa Trisha - Lumi 2 Seater 2004 x ea	ea	0	80	176	29.3333	249 613.84	40	26	80	30	40.00	47 022.04	-	144 744.80	
SD007L3-GR/BL	Sofa Trisha - Lumi 2 Seater 2004 x ea	ea	0	60	170	28.3333	315 513.70	40	40	20	60	20	30	66 986.80	36 170.60	114 579.40
SD008CC-CR/BL	Sofa Copenhagen - Lumi 2 Seater 2004 x ea	ea	0	40	105	12.5	142 329.50	40	10	20	30	10	25	40.00	-	60 913.80
SD006L3-STGR	Sofa Tugela - Lumi 2 Seater 2004 x ea	ea	0	30	91	15.1666	155 117.48	20	21	20	40	10	10	34 525.28	34 089.60	69 065.60
SD006L3-PL	Sofa Tugela - Lumi 2 Seater 2004 x ea	ea	0	30	70	11.6666	70 347.10	20	30	30	30	10	10	30.00	-	52 899.20
SD005CC-STGR-B	Sofa Bouke - Lumi 2 Seater 2004 x ea	ea	0	22	68	11.3333	194 300.00	20	10	22	1	15	15	52 240.40	27 009.30	63 443.20
SD005CC-STGR-B	Sofa Bouke - Lumi 2 Seater 2004 x ea	ea	0	20	67	11.1666	188 439.00	20	10	20	17	17	17	48 760.40	27 009.30	57 994.80
SS/E	Sofa Eindhoven - Lumi 2 Seater 162C ea	ea	0	46	47	7.8333	65 922.96	1	1	46	46	46	46	2 500.00	-	63 422.96
SD006L2-PL	Sofa Dusk - Timo 2 Seater 1675 x ea	ea	0	20	46	7.6666	62 743.95	1	20	15	20	15	15	1 328.00	26 649.60	20 006.55
SS/E-0024	Sofa Eindhoven - Lumi 2 Seater 16 ea	ea	0	40	41	6.8333	122 113.20	1	1	40	40	40	40	2 970.00	-	119 143.20
SD008L3-GR/BL	Sofa Trisha - Lumi 2 Seater 2004 x ea	ea	0	40	40	6.6666	78 789.60	40	40	40	40	40	40	466 936.84	535 454.56	687 944.08

The Analysis and Detailed Analysis Bands are useful in this view as we can see the minimum, maximum, average and Total Quantities, and the Total Cost across the full range.

The screen above is showing finished goods (sofas) but applies also to raw materials. The materials view monthly costs can assist with future cash flow planning.

4.7 OUTSTANDING PROJECTED SUPPLY

This view lets us see which supply orders are running late and when supply records are due to arrive. (Late and expected). We can see the expected costs for the upcoming orders.

Stock Analysis

Department: Production CPT, Item Code: , Item Name: , Start Date: 2022/11/01, End Date: 2023/02/28, Stock Type: Outstanding Projected Supply

Item Code	Item Name	UOM	Total Qty	Total Cost	2022-11-01 2022-11-30	2022-12-01 2022-12-28	2022-12-29 2022-12-31	2023-01-01 2023-01-31	2023-02-01 2023-02-28	2022-11-01 2022-11-30	2022-12-01 2022-12-28	2022-12-29 2022-12-31	2023-01-01 2023-01-31	2023-02-01 2023-02-28
SD006L3-SGR	Sofa Tugela - Lumi 2 Seater 2130	ea	37	65 972.61		15		22						
SD006L2-SGR	Sofa Dusk - Timo 2 Seater 1675 x	ea	24	36 173.94		8		16						
SD005CC-CR-L	Sofa Rouke - Lumi 2 Seater 2872 : ea		23	77 694.70		8		15		27 193.84				
SD005CC-CR-R	Sofa Rouke - Lumi 2 Seater 2872 : ea		8			15				27 326.27				
SS/E-00973	Sofa Oban - Valo 2 Seater 1770 x ea		23										63 969.39	
SD005CC-LGR-L	Sofa Rouke - Lumi 2 Seater 2872 : ea		21	70 969.71		8		13		27 279.04				
SD005CC-LGR-R	Sofa Rouke - Lumi 2 Seater 2872 : ea		21	71 234.52		8		13		27 146.62				
SD006L2-PL	Sofa Dusk - Timo 2 Seater 1675 x ea		20	44 222.98				10						15 012.98
SD008CC-DGR/BL	Sofa Copenhagen - Juno 2 Seater ea		20	50 346.26				20						50 346.26
SD009L3-GR	Sofa Rouke - Suvi 2 Seater 2084 : ea		20	43 442.52		20				43 442.52				
SD006L3-PL	Sofa Tugela - Lumi 2 Seater 2130 ea		17	30 115.12									30 115.12	
SD008L3-PL/NL	Sofa Trisha - Lumi 2 Seater 2004 x ea		16	31 825.10				16						31 825.10
SD008CC-PL/NL	Sofa Copenhagen - Juno 2 Seater ea		12	31 393.84				12						31 393.84
			171 024.52	527 886.64						0.00				382 039.62

Drill through to see the breakdown.

Stock Analysis Detail - 6395

Start Date: 2022/11/01, End Date: 2023/02/28, Department: Production CPT, Date Type: Monthly on day no 1, Item Code: SS/E-00973, Item Name: Sofa Oban - Valo 2 Seater 1770 x 840 x 720mm with Left Arm Fabric in Hero, L

Department Info	Actual	Projected	Consolidated	Consolidated Provisional Supply	Summary
Department Name	Data Item		Quantity	Cost	
Production CPT	Opening Balance				51.05 51.05 51.05
Production CPT	Supply Outstanding		23	63 969.39	
Production CPT	Demand Outstanding		-23	-63 918.34	
Production CPT	Closing Balance			51.05	51.05 51.05 51.05
Production CPT	Supply		23	2 763.95	63 969.39
Production CPT	Supply Received		-1	-2 763.95	
Production CPT	Supply Close				
Production CPT	Demand		1	63 918.34	

Stock Source

Start Date: 2022/12/01, End Date: 2022/12/28, Department: Production CPT, Data Type: Supply Outstanding, Item Code: SS/E-00973, Item Name: Sofa Oban - Valo 2 Seater 1770 x 840 x 720mm with Left Arm Fabric in Hero, L

Trx Type	Trx No	Department	Batch No	Due Date	Transaction Date	Stock Type	Stock Qty	Stock Date	Unit Cost	Stock Cost	Supply Received	Demand Delivered	Actual Adjustment	Supply Order Qty	Supply Plan Receipt	Sup Car
Process Order Batch	3063/1	Production CPT		2022/12/01	2022/12/01	Projected Suppl	1	2022/12/12	2 778.44	2 778.44	0			1	0	
Process Order Batch	3064/1	Production CPT		2022/12/01	2022/12/01	Projected Suppl	2	2022/12/12	2 778.44	5 556.88	0			2	0	
Process Order Batch	3089/1	Production CPT		2022/12/01	2022/12/01	Projected Suppl	1	2022/12/12	2 778.44	2 778.44	0			1	0	
Process Order Batch	3090/1	Production CPT	3090/1	2022/12/12	2022/12/01	Projected Suppl	1	2022/12/12	2 778.44	2 778.44	0			1	0	
Process Order Batch	3091/1	Production CPT	3091/1	2022/12/12	2022/12/01	Projected Suppl	1	2022/12/12	2 778.44	2 778.44	0			1	0	
Process Order Batch	3092/1	Production CPT	3092/1	2022/12/12	2022/12/01	Projected Suppl	2	2022/12/12	2 778.44	5 556.88	0			2	0	
Process Order Batch	3138/1	Production CPT	3138/1	2022/12/12	2022/12/01	Projected Suppl	2	2022/12/12	2 778.44	5 556.88	0			2	0	
							23			63 969.39	0	0	0	23	0	

4.8 OUTSTANDING PROJECTED DEMAND

This view can hone in on **late issues or late capture of issue**. Internal orders and sales **orders not yet delivered** and **due for delivery**.

Stock Analysis

Department: [All] Item Code: [] Item Name: [] Start Date: 2022/11/01 End Date: 2023/01/31 Stock Type: Outstanding Projected Demand

Process: [] Category: [] Group: [] Item Type: [] Date Type: Monthly on day no 1

Item Code	Item Name	UOM	Warning	Analysis	Has Warning	2022-11-01	2022-11-30	2022-12-01	2022-12-28	2022-12-31	2023-01-01	2023-01-31	2022-11-01	2022-12-01	2022-12-25	2022-12-31
SS/E-00589	Screw - Thread Bar M8 x 140mm Stud M/S E/G	ea	Outstanding Demand		✓	220	618				38		572.00	1 606.80		
UF/R-00109	Fabric - Homeboy, Colour Lead	Roll	Outstanding Demand		✓						18					
CC/E-00120	Cushion - Scatter Style Back Cushion Inner W/it	ea	Outstanding Demand		✓						9					
UF/R-00157	Fabric - DECOFURN - Black / Velveteen, Graph	Roll	Outstanding Demand		✓	8.15	21.075						0.08	0.21		
UF/R-00254	Fabric - THIP - GENERATION - N - P - S - C - R - O - N - I - C	m	Outstanding Demand		✓	9.16							0.92			
SS/E-00171	Screw - Chip	ea	Outstanding Demand		✓	1 035	3 439				522		258.75	859.75		
FC/E-00449	Foam - 2016	0mmr	Outstanding Demand		✓	8										

Filter to those records with data

Late Demand (in the past)

Expected Demand (in the future)

Legend: Exceeds Maximum, Below Target, Negative Stock, Includes Provisional Supply

Many ways to filter. Screen above shows we have filter to show only records with a warning.

4.9 CONSOLIDATED STOCK

This view gives us **timeous warnings before the stock runs out** allowing us to proactively order (replenish). It also **alerts us to over supply** which can affect the cash flow in the business.

Stock Analysis

Department: [Production CPT] Item Code: [] Item Name: [] Start Date: 2022/11/01 End Date: 2023/02/28 Stock Type: Consolidated Stock

Process: [] Category: [] Group: [] Item Type: [] Date Type: Monthly on day no 1

Item Code	Item Name	UOM	Replenish Policy	Target Qty	Avg Daily Demand	Buffer Days	Order Freq	Check Stock on	Warning	Has Warning	Total Qty	Avg Qty	Total Cost	2022-11-01	2022-11-30	2022-12-01	2022-12-28	2022-12-31	2023-01-01	2023-01-31	2023-02-01	2023-02-28	2022-	
UD/R-00001	Dacron 270g x 2100mm Wide	m	Stock	18 5922	2 0658	2	10	Tue	Above Maximum	✓	909 4488	227 3622	15 033 40	91 714	209 1129	209 1 39	199 7535	199 7535	2 9					
UD/R-00002	Dacron 135g x 2100mm Wide	m	Stock	191 6793	21 2977	2	10	Tue	Above Maximum	✓	5 313 2946	328 3236	82 187 25	860 3794	1 209 6801	1 209 0801	1 017 3775	1 017 3775	17 8					
UW/R-00001	Webbing - 50% Stretch Q3	m	Stock	4 478 283	497 587	2	10	Tue	Negative Stock	✓	-40 793 065	-10 198 267	-83 527 80	-2 138 0442	-7 118 1046	-7 118 1046	-11 909 407	-11 909 407	-7 9					
UZ/R-00001	Zip - Type 5 Black	m	Stock	752 4927	83 6103	2	10	Tue	Negative Stock	✓	6 675 6617	1 668 9154	5 589 57	-164 1859	2 066 4619	2 066 4619	1 353 4619	1 353 4619	-1					
UZ/R-00002	Slider - Type 5 Black	ea	Stock	716 8203	79 6467	2	10	Tue	Negative Stock	✓	5 751	1 437 75	5 381 20	103	1 906	1 906	1 171	1 171	-4					
UD/R-00003	Lining - Stitchbond White 1400mm	m	Stock	891 8703	99 0967	2	10	Tue	Above Maximum	✓	22 144 510	5 536 1275	86 995 69	1 253 9422	5 672 6212	5 672 6212	4 724 1628	4 724 1628	16 9					
US/E-00001	Staples - 71/10 (10000/Box)	ea	Stock	53 3511	5 9279	2	10	Tue	Negative Stock	✓	-131 3463	-32 8365	5 976 76	45 5983	-23 3042	-23 3042	-65 1681	-65 1681	1 6					
UD/R-00007	Spunbond - Black 1600mm W - 8l	m	Stock	0	0				Negative Stock	✓	-1 072 15	-268 0375	-1 443 73	60 13	-283 07	-283 07	-283 07	-283 07	-283 07	5				
UF/R-00057	Fabric - Indulgence: Citrine	m	Stock	0	0				Negative Stock	✓	-40	-10	-9 200 00	-8	-8	-8	-8	-8	-8	-1 8				
US/E-00003	Sorino - Z Sorino 8.5 Gauge	m	Stock	2 556	0 284	2	10	Tue	Below Target	✓	0	0	0 00											

Filter

Legend: Exceeds Maximum, Below Target, Negative Stock, Includes Provisional Supply

Use the filter to return only records with warnings.

The colour coding gives a visual picture of records with warnings. Three warnings are possible. As a record can conceivable have all 3 states over the full range of dates, the warnings are displayed in the order below.

- Negative Stock
- Below Target
- Above Maximum

4.10 CONSOLIDATED STOCK WITH PROVISIONAL (PROJECTED) SUPPLY

This is arguably the most powerful view of the Stock Analysis. Using the consolidated Stock to proactively order stock we need to **be aware of provisional supplies in the pipeline**. IE A Purchase order may be being prepared. This view is geared especially for replenishing by stock. It is advantageous to keep a record in the provisional state allowing us to up the order Quantity and gather other items into the order preventing small and piecemeal orders.

The colour coding and warnings still apply, however, if the value includes a provisional amount, it is underlined in bright blue.

Sense-i Enterprise Management System - ACME Corporation

File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Open Reorder Setting

Stock Analysis

Department: Production CPT | Item Code: | Item Name: | Start Date: 2022/11/01 | End Date: 2023/04/01 | Stock Type: Provisional Supply Consolidated

Process: Supply | Category: Material | Group: Upholstery | Item Type: Fabric | Date Type: Monthly on day no 1

Legend: Exceeds Maximum (Red), Below Target (Yellow), Negative Stock (Green), Includes Provisional Supply (Blue)

Item Code	Item Name	UOM	Quantity								Cost				
			2022-11-01	2022-12-01	2022-12-30	2023-01-01	2023-02-01	2023-03-01	2023-04-01	2022-11-01	2022-12-01	2022-12-30	2023-01-01		
UD/R-0007	Spunbond - Black 1600mm W - 80g	m	60.13	-283.07	-283.07	-283.07	-283.07	-283.07	-283.07	-283.07	-283.07	585.24	-226.08	-226.08	-226.08
UF/R-00057	Fabric - Indulgence: Citrine	m	-8	-8	-8	-8	-8	-8	-8	-8	-8	-1840.00	-1840.00	-1840.00	-1840.00
US/E-00003	Spring - Z Spring 8.5 Gauge	m													
UB/R-00001	Piping Cord - 5mm Piping Cord White	Roll	-17.6291	-5.8473	-5.8473	3.3692	3.3692	3.329	3.329	-1762.91	373.53	373.53	373.53	336.92	
CC/E-00015	Cushion - Scatter Style Back Cushion Inn	ea	-1	-1	-1	-1	-1	-1	-1	-1	-58.00	-58.00	-58.00	-58.00	
UF/R-00064	Fabric - Matisse, Silver Mist	m	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	-1127.85	-1127.85	-1127.85	-1127.85	
UF/R-00067	Fabric - DECOFURN - Nova Nivel Col Ce	m	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2					
UF/R-00068	Fabric - DECOFURN - Nova Morada Col	m	15.99	-40.15	-40.15	-334.03	-334.03	-334.03	-334.03		-56.14	-56.14	-350.02		
UD/R-00009	Lining - Warm Beige Col 64 300cm L623	m													
CC/E-00031	Cushion - Scatter Style Back Cushion Inn	ea	-1	-1	-1	-1	-1	-1	-1	-1	-47.00	-47.00	-47.00	-47.00	
CC/E-00020	Cushion - Back Cushion Inner with Filling	ea	-4	-4	-4	-4	-4	-4	-4	-4					
UV/R-00003	Velcro - Black Velcro 50mm Hook (Male)	m	-10.72	573.68	573.68	521.2	521.2	521.2	521.2	-36.59	2074.27	2074.27	1908.95	1908.95	
UV/R-00004	Velcro - Black Velcro 50mm Loop (Female)	m	-111.92	472.48	472.48	420	420	420	420	-400.91	1709.95	1709.95	1544.83	1544.83	
CC/E-00052	Cushion - Back Cushion Inner with Filling	ea	-2	-38	-38	-38	-38	-38	-38	-100.00	-2188.00	-2188.00	-2188.00	-2188.00	
CC/E-00057	Cushion - Box Back Cushion Inner with Fi	ea	10	10	10	8	8	8	8	680.00	680.00	680.00	544.00	544.00	
CC/E-00058	Cushion - Box Back Cushion Inner with Fi	ea	3	3	3	1	1	1	1	195.00	195.00	195.00	65.00	65.00	
UT/R-00015	Thread - Dual Duty 36 Black (Black) 350I	Roll	28.0979	42.0967	42.0967	37.7943	37.7943	37.7943	37.7943	4769.80	6945.96	6945.96	6236.06	6236.06	
UT/R-00016	Thread - Dual Duty			7.3901	7.3901	2.9039	2.9039	2.9039	2.9039	-665.79	1219.37	1219.37	479.15	479.15	
UT/R-00013	Thread - Dual Duty		33	-8.4357	-8.4357	-10.5557	-10.5557	-10.6128	-10.6128	-3185.04	-1391.89	-1391.89	-1741.69	-1741.69	
UT/R-00017	Thread - Dual Duty		47	-26.9451	-26.9451	-26.9451	-26.9451	-26.9451	-26.9451	2627.58	4445.94	4445.94	4445.94	4445.94	
UD/R-00011	Spunbond - Black 1600mm W - 80g	m	29	7080.1849	7080.1849	6694.4439	6694.4439	6692.0439	6692.0439	4156.03	23572.60	23572.60	22276.51	22276.51	
UF/R-00107	Fabric - Homeboy, Colour Nougat	m	82	782.592	782.592	1016.184	1016.184	1016.184	1016.184	86096.11	86096.11	111791.23	111791.23	111791.23	
UF/R-00108	Fabric - Homeboy, Colour Nougat	Roll	524.8	524.8	524.8	788.2	788.2	788.2	788.2	58580.07	58580.07	58580.07	87554.07	87554.07	
										641102.66	752642.88	752642.88	881842.71	881842.71	

Value includes a provisional amount but is still below target

Drill through to the Detail and select the corresponding Page. (Consolidated Provisional Supply)

Stock Analysis Detail - 302

Start Date: 2022/11/01 | End Date: 2023/04/30 | Department: Production CPT | Date Type: Monthly on day no 1 | Item Code: UB/R-00001 | Item Name: Piping Cord - 5mm Piping Cord White

		Actual	Projected	Consolidated	Consolidated Provisional Supply	Summary	Cost					
Department Name	Data Item	2022-11-01	2022-12-01	2022-12-30	2023-01-01	2023-02-01	2023-03-01	2023-04-01	2022-11-01	2022-12-01	2022-12-30	2023-01-01
		Past (Actual)	Past (Actual)	Future (Projected)	Future (Projected)	Future (Projected)	Future (Projected)	Future (Projected)	Past (Actual)	Past (Actual)	Future (Projected)	Future (Projected)
Production CPT	Opening Balance	-4.9474	-11.7597	-12.6617	-12.6617	-13.8591	-13.8591	-13.8993	-494.74	-1175.97	-1266.17	-1266.17
Production CPT	Supply		5						500.00			
Production CPT	Demand	-11.8123	-0.902						-1181.23	-90.20		
Production CPT	Adjust											
Production CPT	Closing Balance	-11.7597	-12.6617	-12.6617	-13.8591	-13.8591			3.97	-1266.17	-1266.17	-1385.91
Production CPT	Supply BackLog		15	15	15	15				1500.00	1500.00	1500.00
Production CPT	Demand BackLog	4	-8.1856	-8.1856	-8.1856	-8.1856	-8.1856	-8.1856	-586.94	-818.56	-818.56	-818.56
Production CPT	Net Backlog	4	6.8144	6.8144	6.8144	6.8144	6.8144	6.8144	-586.94	681.44	681.44	681.44
Production CPT	Consolidate Balance	-17.6291	-5.8473	-5.8473	-7.0447	-7.0447				-584.73	-584.73	-704.47
Production CPT	Provisional Supply B/F										958.26	958.26
Production CPT	Provisional Supply				10.4139	10.4139	10.4139	10.4139				83.13
Production CPT	Net Provisional Supply				10.4139	10.4139	10.4139	10.4139			958.26	958.26
Production CPT	Provisional Balance	-17.6291	-5.8473	-5.8473	3.3692	3.3692	3.329	3.329	-1762.91	373.53	373.53	336.92

Consolidated Provisional Supply

Consolidated Value shows a negative amount

Provisional value has pushed the balance to a positive number

Drill through to the source Transaction List

Select the Provisional Supply Cell and Click Open to see the Source List. From this screen you can further drill through to the actual order. From here you could alter the Due Date, change the quantity or activate the order.

The screenshot shows the 'Stock Analysis' window with a 'Source List' button highlighted. An arrow points from 'Source List' to the 'Open Source Detail' button in the 'Stock Source' window. Another arrow points from 'Open Source Detail' to the 'Purchase Order - PO3292' window. The 'Purchase Order' window shows details for a 'Piping Cord - 5mm Piping Cord White' with a quantity of 9,413.99.

Trx Type	Trx No	Department	Batch No	Due Date	Transaction Date	Stock Type	Stock Qty	Stock Date	Unit Cost	Stock Cost	Supply Received	Demand Delivered	Actual Adjustment	Supply Order Qty	Supply Plan Receipt	Supply Cancel
Purchase Order	PO3292	Production CPT		2023/01/12	2022/12/11	Projected Suppl	9,413.99	2023/01/12	100.00	941.39				9,413.99	0	
Purchase Order	PO3301	Production CPT		2023/01/19	2022/12/12	Projected Suppl	1	2023/01/19	100.00	100.00				1	0	
							10,413.99			1,041.39	0	0	0	10,413.99	0	

4.11 PROVISIONAL (PROJECTED) SUPPLY

This view shows the date and amount for the provisional supply. Below the screen is filtered to only return rows with data. Once again you could drill through to the Purchase order /internal Order or Process order amend or activate.

The screenshot shows the 'Stock Analysis' window with a 'Filtered' button highlighted. The table below displays the filtered data for 'Provisional Supply'.

Item Code	Item Name	UOM	Warning	Has Warning	2022-11-01 2022-11-30	2022-12-01 2022-12-29	2022-12-30 2022-12-31	2023-01-01 2023-01-31	2023-02-01 2023-02-28	2023-03-01 2023-03-31	2023-04-01 2023-04-30	2022-11-01 2022-11-30	2022-12-01 2022-12-29	2022-12-30 2022-12-31	2023-01-01 2023-01-31	2023-02-01 2023-02-28
UD/R-00002	Dacron 135g x 2100mm Wide	m	Outstanding Provisional	✓		15.75	0	15.8	0	0	0		325.40	0	326.43	
UW/R-00001	Webbing - 50% Stretch Q3	m	Outstanding Provisional	✓		522	0	0	0	0	0		2,181.96	0	0	
UZ/R-00001	Zip - Type 5 Black	m	Outstanding Provisional	✓		42	0	46.4	0	0	0		102.06	0	112.75	
UZ/R-00002	Slider - Type 5 Black	ea	Outstanding Provisional	✓		42	0	56	0	0	0		50.40	0	67.20	
UD/R-00003	Lining - Stitchbond White 1400mm Wide m	m	Outstanding Provisional	✓		45.5	0	62.8	0	0	0		568.75	0	785.00	
US/E-00001	Staples - 71/10 (10000/Box)	ea	Outstanding Provisional	✓		2.1	0	0	0	0	0		74.55	0	0	
UB/R-00001	Piping Cord - 5mm Piping Cord White	Roll	Outstanding Provisional	✓				10,413.99	0	0	0		958.26		83.13	
UF/R-00068	Fabric - DECOFURN - Nova Morada Col	m	Outstanding Provisional	✓		47.36	0	0	0	0	0		47.36	0	0	
US/E-00005	Staples - 71/12 (10000/Box)	box	Outstanding Provisional	✓				2.7	0	0	0				105.30	
UT/R-00015	Thread - Dual Duty 36 Black (Black) 350	Roll	Outstanding Provisional	✓				0.5148	0	0	0				84.94	
UT/R-00016	Thread - Dual Duty 36 Charcoal (9526) 3	Roll	Outstanding Provisional	✓		0.4004	0	0.3432	0	0	0		66.07	0	56.63	
UD/R-00011	Spunbond - Black 1000mm W - 70g	m	Outstanding Provisional	✓		17.15	0	23.2	0	0	0		57.62	0	77.95	
UF/R-00162	Fabric - DECOFURN Simply Slubby, Crea	m	Outstanding Provisional	✓		44.76	0	0	0	0	0		0.45	0	0	
UD/R-00018	Lining - Poly Cotton Twill - Black 1500mm m	m	Outstanding Provisional	✓		16.45	0	19	0	0	0		607.83	0	702.05	
												0.00	13,892.21	0.00	4,249.38	0.1

5 Stock Reorder Information.

information is used to help manage stock. It is specific to each stock item for each department.

5.1 LIST OF SETTINGS

5.1.1 Replenish Policy

- By Order

Replenish quantity is the ordered quantity.

Example. Non-standard sales goods. IE Sofa with specific materials and finishes.

Raw materials not commonly used or specific to an order.

- By Stock

Replenish quantity is based on consolidated stock needs and target values.

Example. Standard common finished goods

Raw materials bought in bulk and commonly used.

**Consider too: materials with a long lead time.*

5.1.2 Average Daily Demand

Before we can set a realistic target quantity, we should have a good idea of the amount of stock we generally use on a daily basis.

You can set this manually, or better yet, let the system set this based on the recent historical projected demand.

5.1.3 Stock Target Quantity

The target Quantity is used to alert the operator when to reorder more stock. It is also used to highlight those stock items who have been over supplied. Over supply of expensive items can cause cash flow problems in other areas of the business.

In order to ensure we always have enough stock we should always **reorder before the stock runs out**. If we set a **target** we can be alerted when the stock reaches this critical level and then timeously place an order.

The stock we have at the time of the reorder must last until this order arrives. The order usually takes **Lead** days to reach us. Each day we expect to use the **average daily demand**.

We could also build in protection against a late receipt of stock. This is the **buffer days**

Target by Lead Days.

$$\text{Target} = \text{Average Daily Demand} * (\text{Lead Days} + \text{Buffer Days})$$

A step up from this would be to order less frequently, reducing admin and piecemeal orders. A longer time between ordering means a larger order.

Target by Order Frequency

$$\text{Target} = \text{Average Daily Demand} * (\text{Order Frequency Days} + \text{Buffer Days})$$

(Note: If the **Lead days exceeds the Order Frequency Days we revert to the lead days.**

The target can be set manually or generated. If generated we need to ensure that Average Daily Demand, Reorder frequency, and (optionally) the buffer days need to be set **prior** to, or in conjunction with, generation.

5.1.4 Reorder frequency days

This is the number of PREFERRED WORK days between orders. IE. If you would generally like to order every second week the value would be set to 10 work days.

Remember – you can order whenever you need, but this value is **used in setting the target quantity** ensuring that under average stock usage conditions you have enough stock to last the number of work days set.

5.1.5 Check Stock Day

To help manage a large collection of stock you can use this tag to filter the records. The available values are the days of the week

Examine the data and adjust the date range accordingly.

On examining the data, we can see no data for the first couple of weeks. Using this data range will skew the average demand results.

No data or low data can occur under the following conditions.

- New department
- New stock item recently added to the catalogue
- Unused / rarely used stock item
- Range includes period during which the department was not active (Festive season)

In the example below we have a department that only came on-line in mid September. We need to adjust the start date to the week on or after data appears.

The screenshot shows the 'Stock Analysis' window in the Sense-i Enterprise Management System. The window title is 'Sense-i Enterprise Management System - ACME Corporation'. The menu bar includes File, Navigate, View, Tools, Window, Help, Customer, Supplier, Employee, Operation, Performance, Setup, Security, Business Model, Inventory, Orders, Planning, Utilities, Finance, and Engineering. The toolbar contains buttons for Back, Forward, Close All, Close, Info, Help, Search, Add Items, Remove Item, Open, and Reorder Setting. The main area is divided into several sections: Department (Factory: JHB), Item Code, Item Name, Start Date (2022/08/01), End Date (2022/12/27), Stock Type (Projected Demand), and a Legend (Exceeds Maximum, Below Target, Negative Stock, Includes Provisional Supply). Below these are filters for Process (Supply), Category (Material), Group (Foam), and Item Type (Foam Sheets). The 'Detailed Analysis' table has columns for total Qty, Avg Qty, Total Cost, Cumulative Target, and a grid of dates from 2022-08-01 to 2022-09-18. A callout box points to the start date field, which is currently set to 2022/08/01. Another callout box points to the end date field, which is set to 2022/12/27. A third callout box points to the grid data, stating 'Examining the grid we see that the system only has data from Mid September.' The grid shows columns for dates and values for total qty, avg qty, total cost, and cumulative target. A calendar pop-up is visible over the start date field, showing the month of September 2022.

We see also that the end date has encroached into the break between Christmas and new year.

Having adjusted both the start and end date, refresh the search by clicking on the Search button.

Filter the records to exclude unpopulated rows.

Looking at the data in the *Detailed Analysis* band we can see the *Total Qty* and the *Average Qty*.

Records with a Total quantity of zero do NOT have any data in this period and so we should exclude these records.

Stock Analysis

Department: Factory JHB | Item Code: | Item Name: | Start Date: 2022/09/19 | End Date: 2022/12/09 | Stock Type: Projected Demand

Process: Supply | Category: Material | Group: Foam | Item Type: Foam Sheets | Date Type: Weekly on Monday

Item Name	UOM	Warning	Has Warning	Min	Max	Total Qty	Avg Qty	Total Cost	Cumulative Target	2022-09-19	2022-09-25	2022-10-02
Foam - Layered Seat - Cut Size - 863mm x 863m	ea			0	8	76	6.909	16 214.68	0	9	8	
Foam - Layered Seat - Cut Size - 865mm x 422m	ea			0	4	14	1.2727	1 432.66	0	3	1	
Foam Replacement - 12mm x 1500mm x Wide	m			0	676.71	3 063.5634	278 505.7	90 957.20	0	168.278	107.386	
Ball Fibre - Virgin HCS 64mm 15D				0	1.2	2.05	0.1863	106.60	0	1.45		
Foam - SF40/24 - Seat Cut Size 600mm x 540				0	0	0	0	0.00	0			
Foam - SF2016 - Back Cut Size 600mm x 470				0	0	0	0	0.00	0			
Foam - SF4024 - Double Seat Cut Size 540mm				0	0	0	0	0.00	0			
Foam - SF4024 - Double Seat Cut Size 470mm				0	0	0	0	0.00	0			
Foam - SF2620 - Seat Cut Size 500mm x 500mm				0	0	0	0	0.00	0			
Foam - SF3020 - Cut Size 650mm x 550mm x 1				0	0	0	0	0.00	0			
Foam - SF2016 - Cut Size 650mm x 500mm x 20	ea			0	0	0	0	0.00	0			
Foam - SF2620 - Cut Size 470mm x 470mm x 50	ea			0	0	0	0	0.00	0			
Foam - SF3620 - Cut Size 715mm x 480mm x 45	ea			0	0	0	0	0.00	0			
Foam - SF3016 - Cut Size 690mm x 610mm x 15	ea			0	0	0	0	0.00	0			
Foam - SF3012 - Cut Size 690mm x 530mm x 90	ea			0	0	0	0	0.00	0			
Foam - SF3016 - Cut Size 710mm x 610mm x 15	ea			0	0	0	0	0.00	0			
Foam - SF2016 - Cut Size 1400mm x 500mm x 2	ea			0	0	0	0	0.00	0			
Foam - SF3012 - Cut Size 710mm x 530mm x 90	ea			0	0	0	0	0.00	0			

Set the Filter by Clicking the down arrow on the Total Qty Column. Choose Custom

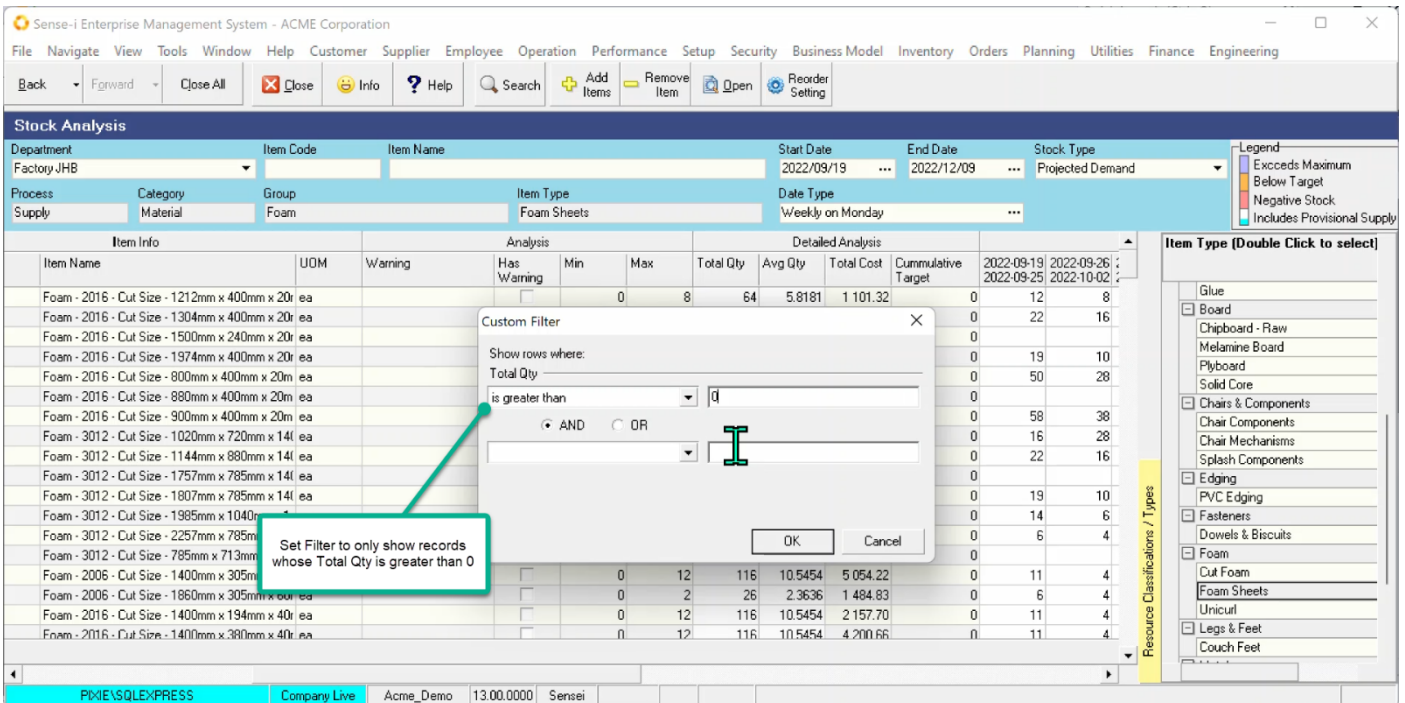
Stock Analysis

Department: Factory JHB | Item Code: | Item Name: | Start Date: 2022/09/19 | End Date: 2022/12/09 | Stock Type: Projected Demand

Process: Supply | Category: Material | Group: Foam | Item Type: Foam Sheets | Date Type: Weekly on Monday

Item Name	UOM	Warning	Has Warning	Min	Max	Total Qty	Avg Qty	Total Cost	Cumulative Target	2022-09-19	2022-09-25	2022-10-02
Foam - 2016 - Cut Size - 1212mm x 400mm x 20	ea			0	0	5	5	12	0	12	8	
Foam - 2016 - Cut Size - 1304mm x 400mm x 20	ea			0	0	11	11	22	0	22	16	
Foam - 2016 - Cut Size - 1500mm x 240mm x 20	ea			0	0	0	0	0	0	0	0	
Foam - 2016 - Cut Size - 1974mm x 400mm x 20	ea			0	0.0624	8.4545	2.497.05	0	19	10		
Foam - 2016 - Cut Size - 800mm x 400mm x 20	ea			0	0.1128	24.636	3.037.34	0	50	28		
Foam - 2016 - Cut Size - 880mm x 400mm x 20	ea			0	0.13	0.3636	53.22	0				
Foam - 2016 - Cut Size - 900mm x 400mm x 20	ea			0	0.2922	27	0	58	38			
Foam - 3012 - Cut Size - 1020mm x 720mm x 14	ea			0	0.3015	1	0	16	28			
Foam - 3012 - Cut Size - 1144mm x 880mm x 14	ea			0	0.3968	11	0	22	16			
Foam - 3012 - Cut Size - 1757mm x 785mm x 14	ea			0	0.4305	0	0.00	0				
Foam - 3012 - Cut Size - 1807mm x 785mm x 14	ea			0	0.5364	8.4545	49.996.73	0	19	10		
Foam - 3012 - Cut Size - 1985mm x 1040mm x 14	ea			0	0.6918	5.4545	45.797.70	0	14	6		
Foam - 3012 - Cut Size - 2257mm x 785mm x 14	ea			0	0.8212	2.909	21.550.04	0	6	4		
Foam - 3012 - Cut Size - 785mm x 713mm x 140	ea			0	0.9496	1	0.3636	827.48	0			
Foam - 2006 - Cut Size - 1400mm x 305mm x 60	ea			0	12	116	10.5454	5.054.22	0	11	4	
Foam - 2006 - Cut Size - 1860mm x 305mm x 60	ea			0	2	26	2.3636	1.484.83	0	6	4	
Foam - 2016 - Cut Size - 1400mm x 194mm x 40	ea			0	12	116	10.5454	2.157.70	0	11	4	
Foam - 2016 - Cut Size - 1400mm x 390mm x 40	ea			0	12	116	10.5454	4.200.66	0	11	4	

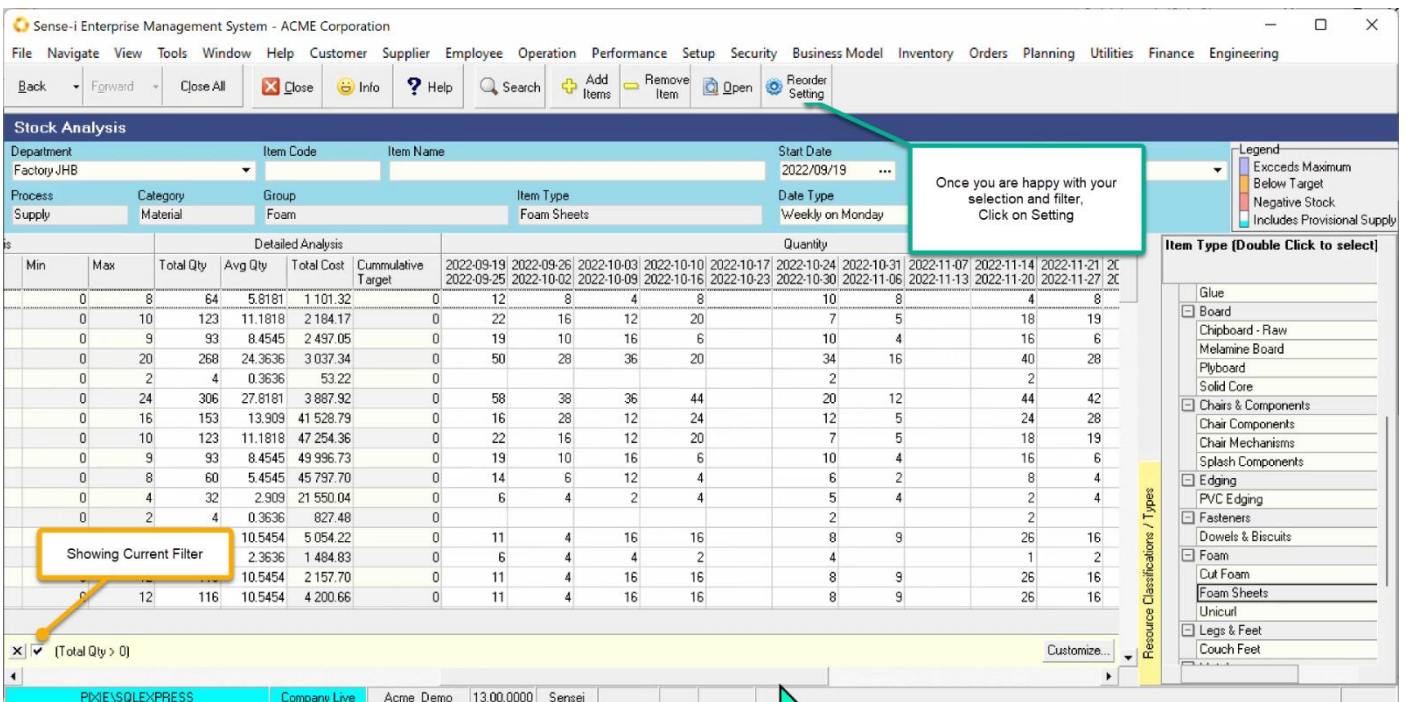
Create a filter to include only records with a total quantity greater than zero. (Or another other filter or criteria that you choose.)



The screenshot below shows the current filter at the bottom left-hand side of the screen. Add any additional filter you wish.

Now you are ready to set your average demand.

Note: All other reorder settings could be set at the same time too.



Click on the Reorder Setting button to open the pop-up Bulk Setting screen shown below.

Sense-i Enterprise Management System - ACME Corporation

File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Add Items Remove Item Open Reorder Setting

Stock Analysis

Bulk Target/Replenish Settings Populate - No Record

Replenish Policy: <NO CHANGE>
 Target Qty Setting: <NO CHANGE>
 Average Daily Demand Setting: <NO CHANGE>
 (Clear)
 Manual Setting
 Set from Projected Demand History
 Set Order Frequency:
 Set Order Buffer Days:

Note: There are 6 settings. We are only going to set the Average Daily Demand. The remaining items are left as <NO CHANGE>

Qty	Avg Daily Demand	Buffer Days	Order Freq Work Days	Check Stock on	Item Code	Item Name	UOM	Warning	Has Warning	Min	Max	Total Qty
0	1.24				FC/E-00224	Foam - 2016 - Cut Size - 1212mm x 400mm x 20r	ea			0	8	62
0	2.38				FC/E-00213	Foam - 2016 - Cut Size - 1304mm x 400mm x 20r	ea			0	10	115
0	1.74				FC/E-00219	Foam - 2016 - Cut Size - 1974mm x 400mm x 20r	ea			0	9	87
0	5.04				FC/E-00218	Foam - 2016 - Cut Size - 800mm x 400mm x 20m	ea			0	20	252
0	5.88				FC/E-00212	Foam - 2016 - Cut Size - 900mm x 400mm x 20m	ea			0	24	294
0	2.98				FC/E-00328	Foam - 3012 - Cut Size - 1020mm x 720mm x 14l	ea			0	16	145
0	2.38				FC/E-00214	Foam - 3012 - Cut Size - 1144mm x 880mm x 14l	ea			0	10	115
0	1.74				FC/E-00220	Foam - 3012 - Cut Size - 1807mm x 785mm x 14l	ea			0	9	87
0	1.12				FC/E-00286	Foam - 3012 - Cut Size - 1985mm x 1040mm x 1r	ea			0	8	56
0	0.62				00225	Foam - 3012 - Cut Size - 2257mm x 785mm x 14l	ea			0	4	31
0	2.12				00312	Foam - 2006 - Cut Size - 1400mm x 305mm x 60r	ea			0	12	106
0	0.46				00305	Foam - 2006 - Cut Size - 1860mm x 305mm x 60r	ea			0	2	22
0	2.12				00310	Foam - 2016 - Cut Size - 1400mm x 194mm x 40r	ea			0	12	106
0	2.12				FC/E-00309	Foam - 2016 - Cut Size - 1400mm x 380mm x 40r	ea			0	12	106
0	3.08				FC/E-00301	Foam - 2016 - Cut Size - 1601mm x 190mm x 40r	ea			0	16	154
0	0.46				FC/E-00303	Foam - 2016 - Cut Size - 1860mm x 194mm x 40r	ea			0	2	22
0	0.46				FC/E-00302	Foam - 2016 - Cut Size - 1860mm x 390mm x 40r	ea			0	2	22
0	5.68				FC/E-00313	Foam - 2016 - Cut Size - 903mm x 380mm x 40m	ea			0	32	284
0	2.12				FC/E-00311	Foam - Layered Seat - Cut Size - 1400mm x 650r	ea			0	12	106
0	0.46				FC/E-00304	Foam - Layered Seat - Cut Size - 1860mm x 650r	ea			0	2	22
0	1.42				FC/E-00314	Foam - Layered Seat - Cut Size - 863mm x 863m	ea			0	8	71
0	52.1753				FMS-00016	Foam Replacement - 12mm x 1500mm Wide	m			676.71	2 608.764	
0	0.044				FMS-00023	Foam Sheet - 2016 - 2300mm x 1900mm x 20mm	ea			0	1.1289	2.1991

Item Type (Double Click to select): Sofa, Supply Material, Adhesives, Board, Chair Components, Edging, Fasteners, Foam, Cut Foam, Foam Sheets, Unicur, Legs & Feet, Couch Feet, Metal, Metal Frame, Steel Tube.

1. Click the dropdown arrow on Average Daily Demand Settings and choose Set from projected Demand
 2. Multi-select the records in the grid
 3. Click Apply

1. Click the dropdown arrow on *Average Daily Demand Settings* and choose *Set from projected Demand*
2. Multi-select the records in the grid
3. Click Apply.

The Average Daily demand is now set.

Sense-i Enterprise Management System - ACME Corporation

File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Add Items Remove Item Open Reorder Setting

Stock Analysis

Department: Factory JHB
 Item Code:
 Item Name:
 Start Date: 2022/09/19
 End Date: 2022/11/27
 Stock Type: Projected Demand
 Legend: Exceeds Maximum, Below Target, Negative Stock, Includes Provisional Supply

Process: Supply
 Category: Material
 Group: Foam
 Item Type: Foam Sheets
 Date Type: Weekly on Monday

Qty	Avg Daily Demand	Buffer Days	Order Freq Work Days	Check Stock on	Item Code	Item Name	UOM	Warning	Has Warning	Min	Max	Total Qty
0	1.24				FC/E-00224	Foam - 2016 - Cut Size - 1212mm x 400mm x 20r	ea			0	8	62
0	2.38				FC/E-00213	Foam - 2016 - Cut Size - 1304mm x 400mm x 20r	ea			0	10	115
0	1.74				FC/E-00219	Foam - 2016 - Cut Size - 1974mm x 400mm x 20r	ea			0	9	87
0	5.04				FC/E-00218	Foam - 2016 - Cut Size - 800mm x 400mm x 20m	ea			0	20	252
0	5.88				FC/E-00212	Foam - 2016 - Cut Size - 900mm x 400mm x 20m	ea			0	24	294
0	2.98				FC/E-00328	Foam - 3012 - Cut Size - 1020mm x 720mm x 14l	ea			0	16	145
0	2.38				FC/E-00214	Foam - 3012 - Cut Size - 1144mm x 880mm x 14l	ea			0	10	115
0	1.74				FC/E-00220	Foam - 3012 - Cut Size - 1807mm x 785mm x 14l	ea			0	9	87
0	1.12				FC/E-00286	Foam - 3012 - Cut Size - 1985mm x 1040mm x 1r	ea			0	8	56
0	0.62				00225	Foam - 3012 - Cut Size - 2257mm x 785mm x 14l	ea			0	4	31
0	2.12				00312	Foam - 2006 - Cut Size - 1400mm x 305mm x 60r	ea			0	12	106
0	0.46				00305	Foam - 2006 - Cut Size - 1860mm x 305mm x 60r	ea			0	2	22
0	2.12				00310	Foam - 2016 - Cut Size - 1400mm x 194mm x 40r	ea			0	12	106
0	2.12				FC/E-00309	Foam - 2016 - Cut Size - 1400mm x 380mm x 40r	ea			0	12	106
0	3.08				FC/E-00301	Foam - 2016 - Cut Size - 1601mm x 190mm x 40r	ea			0	16	154
0	0.46				FC/E-00303	Foam - 2016 - Cut Size - 1860mm x 194mm x 40r	ea			0	2	22
0	0.46				FC/E-00302	Foam - 2016 - Cut Size - 1860mm x 390mm x 40r	ea			0	2	22
0	5.68				FC/E-00313	Foam - 2016 - Cut Size - 903mm x 380mm x 40m	ea			0	32	284
0	2.12				FC/E-00311	Foam - Layered Seat - Cut Size - 1400mm x 650r	ea			0	12	106
0	0.46				FC/E-00304	Foam - Layered Seat - Cut Size - 1860mm x 650r	ea			0	2	22
0	1.42				FC/E-00314	Foam - Layered Seat - Cut Size - 863mm x 863m	ea			0	8	71
0	52.1753				FMS-00016	Foam Replacement - 12mm x 1500mm Wide	m			676.71	2 608.764	
0	0.044				FMS-00023	Foam Sheet - 2016 - 2300mm x 1900mm x 20mm	ea			0	1.1289	2.1991

Item Type (Double Click to select): Sofa, Supply Material, Adhesives, Board, Chair Components, Edging, Fasteners, Foam, Cut Foam, Foam Sheets, Unicur, Legs & Feet, Couch Feet, Metal, Metal Frame, Steel Tube.

Average Daily Demand is now set

5.3 SETTING STOCK REORDER INFORMATION

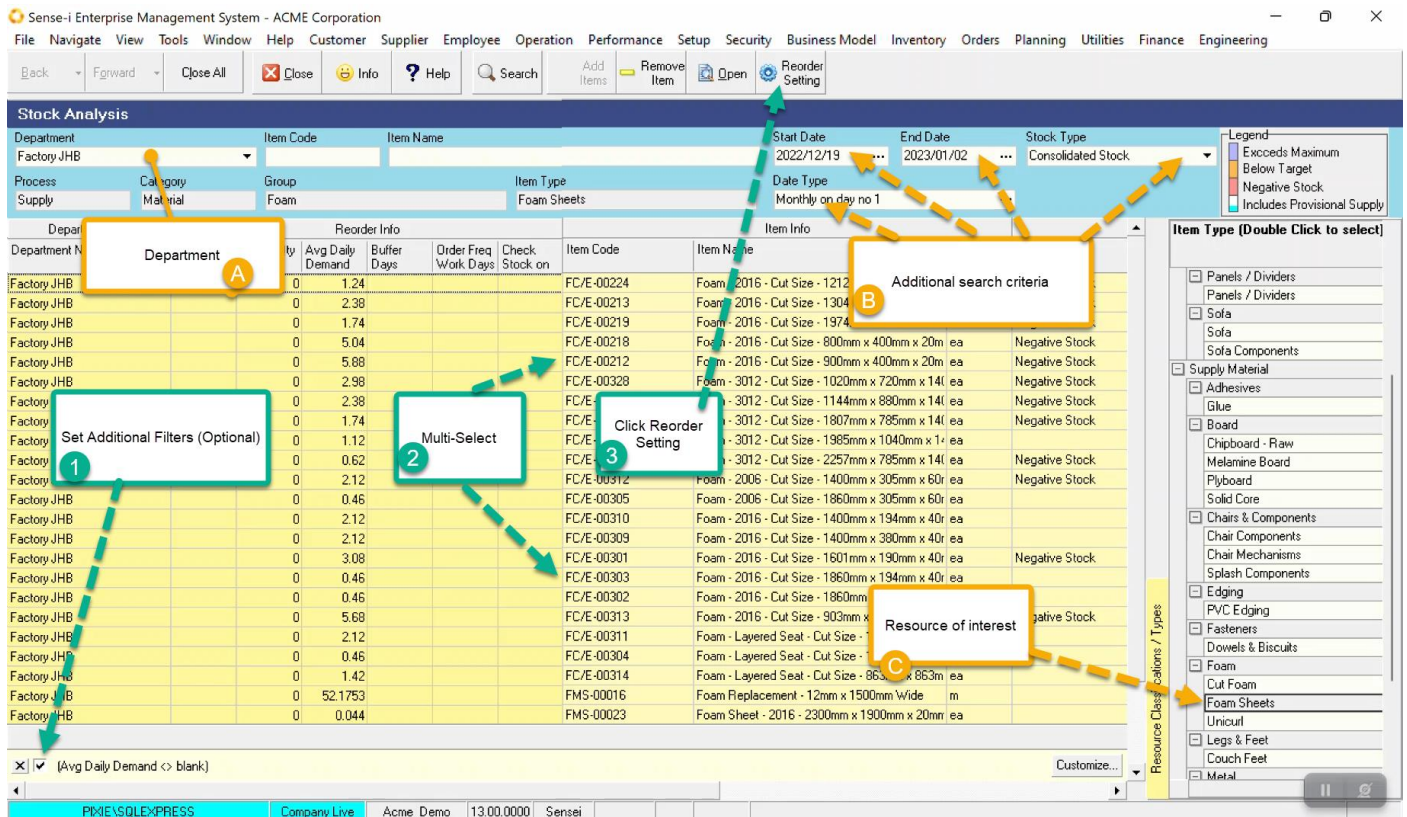
Reorder information is set from the Stock Analysis screen. It is specific to each stock item for each department. This information can be set for one or more records.

Navigate to the Stock analysis screen. Main Menu > Inventory > Stock Analysis.

Prepare Search Criteria

- A. Choose the Department (or all)
- B. Populate Stock Type, Date Type and Date Range.
- C. Select the resource you want to view/ change.

Click Search Button to return data.



The existing settings will show in the *Reorder Info* Band

1. Filter, if needed
2. Multi-select.
3. Click on Reorder Settings to open pop-up Bulk setter.

Sense-i Enterprise Management System - ACME Corporation

File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Add Items Remove Item Open Reorder Setting

Stock Analysis

Bulk Target/Replenish Settings Populate - No Record

Start Date: 2022/12/19 End Date: 2023/01/02 Stock Type: Consolidated Stock

Legend: Exceeds Maximum, Below Target, Negative Stock, Includes Provisional Supply

Replenish Policy: To Stock

Target Qty Setting: Generate Target

Average Daily Demand Setting: <NO CHANGE>

Check Stock Day Setting: Mon

Set Order Frequency: Work Days Between: 10

Set Ord. Buffer Days: Buffer Days: 4

Item Info Table:

Item Code	Item Name	UDM	Warning
FC/E-00224	Foam - 2016 - Cut Size - 1212mm x 400mm x 20r	ea	Negative Stock
213	Foam - 2016 - Cut Size - 1304mm x 400mm x 20r	ea	Negative Stock
219	Foam - 2016 - Cut Size - 1974mm x 400mm x 20r	ea	Negative Stock
218	Foam - 2016 - Cut Size - 800mm x 400mm x 20m	ea	Negative Stock
212	Foam - 2016 - Cut Size - 900mm x 400mm x 20m	ea	Negative Stock
FC/E-00328	Foam - 2012 - Cut Size - 1020mm x 720mm x 14l	ea	Negative Stock
FC/E-00214	Foam - 2012 - Cut Size - 1144mm x 880mm x 14l	ea	Negative Stock
FC/E-00220	Foam - 2012 - Cut Size - 1807mm x 785mm x 14l	ea	Negative Stock
FC/E-00286	Foam - 2012 - Cut Size - 1985mm x 1040mm x 14l	ea	Negative Stock
FC/E-00225	Foam - 2012 - Cut Size - 2257mm x 785mm x 14l	ea	Negative Stock
FC/E-00312	Foam - 2006 - Cut Size - 1400mm x 305mm x 60r	ea	Negative Stock
FC/E-00305	Foam - 2006 - Cut Size - 1860mm x 305mm x 60r	ea	Negative Stock
FC/E-00310	Foam - 2016 - Cut Size - 1400mm x 194mm x 40r	ea	Negative Stock
FC/E-00309	Foam - 2016 - Cut Size - 1400mm x 380mm x 40r	ea	Negative Stock
FC/E-00301	Foam - 2016 - Cut Size - 1601mm x 190mm x 40r	ea	Negative Stock
FC/E-00303	Foam - 2016 - Cut Size - 1860mm x 194mm x 40r	ea	Negative Stock
FC/E-00302	Foam - 2016 - Cut Size - 1860mm x 380mm x 40r	ea	Negative Stock
FC/E-00313	Foam - 2016 - Cut Size - 903mm x 380mm x 40m	ea	Negative Stock
FC/E-00311	Foam - Layered Seat - Cut Size - 1400mm x 650r	ea	Negative Stock
FC/E-00304	Foam - Layered Seat - Cut Size - 1860mm x 650r	ea	Negative Stock
FC/E-00314	Foam - Layered Seat - Cut Size - 863mm x 863m	ea	Negative Stock
FMS-00016	Foam Replacement - 12mm x 1500mm Wide	m	
FMS-00023	Foam Sheet - 2016 - 2300mm x 1900mm x 20mm	ea	

Item Type (Double Click to select):

- Panels / Dividers
- Sofa
- Supply Material
- Board
- Chairs & Components
- Edging
- Fasteners
- Foam
- Legs & Feet
- Metal

To GENERATE the Target (as opposed to setting MANUALLY) We need the Average Demand to have a value. In this example we filter to ensure that only those records which have an average demand value will be included

Filter: (Avg Daily Demand <> blank)

- Change those settings you wish to. Leaving the others as <NO CHANGE>
- Click on the Apply Button

Notes:

All reorder settings can be set at the same time.

Average Daily demand by **Projected demand history** requires the projected demand, date range selecting and subsequent filtering be used. The remaining settings are not fed by the underlying values in the grid and can be set at anytime with no regard for stock type or date setting.

5.4 GENERATING THE TARGET QUANTITY

If you choose to generate the Target quantities, it is based on the formula given above.

$$\text{Target} = (\text{Average Daily Demand}) * (\text{Reorder Frequency days} + \text{Buffer days})$$

It follows that the values used to determine the Target have been set prior to (or at the same time as) generating the target.

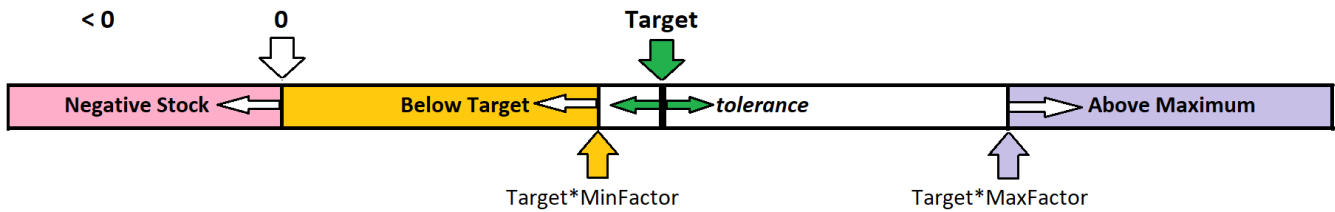
- Average Daily Demand
- Reorder Frequency
- Buffer days

5.5 TARGET VS STOCK LEVEL WARNINGS AND TOLERANCE FACTORS

If the Stock Level is below zero, we have a Negative Stock Warning.

If the Stock Level is above zero but below target, we have a Below Target Warning.

If Stock level is above Maximum level, we have a Exceeds Maximum Warning.



The Target is a specific number but the Below Target and Exceeds Maximum warnings only kick in the tolerance factor is exceeded.

These values are set in the company settings.

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File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup
Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Edit Deactivate

Company Setting

Grouping

Company Setting Information				Settings		
Code	Description	Grouping	Status	Int Value	Date Value	Float Value
TARGETMAXFACTOR	Target*Factor Maximum	STOCK	Active			3.00
TARGETMINFACTOR	Target*Factor Minimum	STOCK	Active			0.90

(Grouping = STOCK) Customize...

PIXIE\SQLEXPRESS	Company Live	Acme_Demo	13.00.0000	Sensei			
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6 REPLENISHMENT

Replenishment is the act of **placing a supply order** for an item **in response to the demand** for it.

This act can be in **direct response to a demand order** (sales, internal or a process order's raw material requirement) or be **indirectly by monitoring stock levels**.

As with any order, we require the Supplier, Quantity; and Due Date to be set. Replenish action, therefore, consists of the following

6.1 STEPS

1. Determine/Confirm the **supplier** of the item
2. Set the **Quantity** to order
3. **Select** the items to replenish
4. **Generate** the order. (Due date is calculated based on replenish settings.)
5. **Activate** the generated orders (optional)

There are many different screens in Sense-i to view and manage replenishment.

- Sales Order Replenishment.
- Sales Order Material Replenishment.
- Internal Order Replenishment.
- Internal Order Material Replenishment.
- Process Order Replenishment.
- Bulk Sales Replenishment.
- Scheduled Production Batches Replenishment (Process order for finished goods)
- Scheduled Batch Materials Replenishment (Purchase orders for raw materials)
- Stock Replenishment

6.2 REPLENISHING FROM WITHIN AN ORDER

There are numerous entry points to initiate replenishment from an order:

- Sales Order Replenishment
An Active Sales order Replenishes to
 - Internal Order when another department (factory) is the supplier
 - Process Order when this department (factory) makes it
 - Purchase order when the supplier is external to the company. A Buy-out.
- Sales Order Material Replenishment.
For a factory department, those items which have replenished to a Process order have a corresponding process model which provides the list of materials required to make the item. Once these process orders are ACTIVATED, the raw material quantities are determined and can be replenished.
 - Purchase order for raw materials
- Internal Order Replenishment.
Generally this department is a factory.
An Active Internal order replenishes to

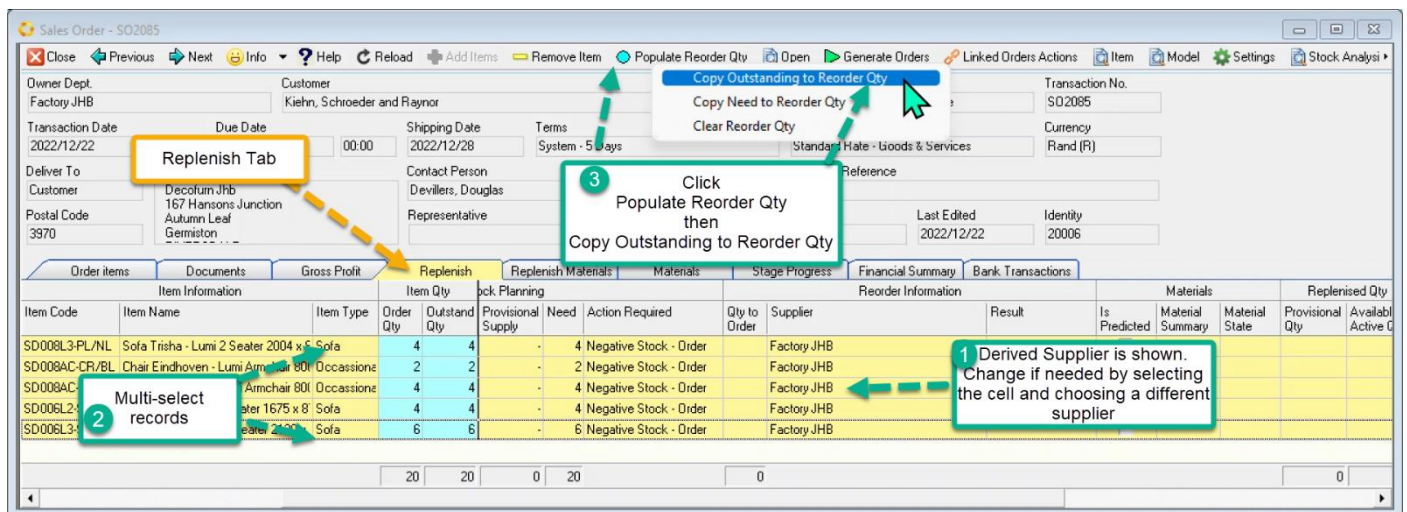
- Process Order
- Internal Order Material Replenishment.
Once the linked Process orders are ACTIVATED, the raw materials are listed and can be replenished.
 - Purchase order for raw materials
- Process Order Replenishment.
This is the replenishment of the raw materials making up the input requirements. These materials generally replenish to a
 - Purchase Order

The process shown below works for all replenishments which originate from an order (as opposed to stock).

Once order has been **activated**, move to the Replenishment tab.

Set the Replenishment Order Quantity

The replenishment Tab lists the items associated with the order and these can be selected in the grid.



1. Check the derived Supplier and change if needed.
2. Multi-select the records
3. Populate Order Quantity
 - a. Click *Populate Reorder Qty* Button
 - b. Click *Copy Outstanding to Reorder Qty*.

You could choose to type the quantity directly into the Qty to Order Column.

Generate the replenishing orders.

Keep the records selected or change to another selection.

- Click on the *Generate Orders* button.

The system determines which **type of order** to generate based on various criteria: the source order's department; whether the item has a process model; which department is a factory; and the preferred supplier.

Once we have a value in the Qty to order we can Generate

4 Click Generate Orders

Generated orders show in the grid

Item Code	Item Name	Item Type	Order Qty	Outstand Qty	Qty to Order	Supplier	Result	Material Summary	Material State	Provisional Qty	Available Active Qty	Due Date	Order No	Order Type	Order Status	Supplier
SD008L3-PL/NL	Sofa Trisha - Lumi 2 Seater 2004 x 8' Sofa		4	4	0	4 Factory JHB	Success	Unpredicte	⦿	4	-	2022/12/28	3299	Process Order	Provisional	Factory JHB
SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 80l Occassione		2	2	0	2 Factory JHB	Success	Unpredicte	⦿	2	-	2022/12/28	3300	Process Order	Provisional	Factory JHB
SD008AC-PL/NL	Chair Eindhoven - Lumi Armchair 80l Occassione		4	4	0	4 Factory JHB	Success	Unpredicte	⦿	4	-	2022/12/28	3301	Process Order	Provisional	Factory JHB
SD006L2-SGR	Sofa Dusk - Timo 2 Seater 1675 x 8' Sofa		4	4	0	4 Factory JHB	Success	Unpredicte	⦿	4	-	2022/12/28	3302	Process Order	Provisional	Factory JHB
SD006L3-SGR	Sofa Tugela - Lumi 2 Seater 2130 x Sofa		6	6	0	6 Factory JHB	Success	Unpredicte	⦿	6	-	2022/12/28	3303	Process Order	Provisional	Factory JHB

Activate the newly generated linked orders.

While still on this screen you can activate the linked orders Process Order. (In the above example we have replenished the Sales Order Items to Process Orders.)

Select those records you want to activate

- Click on the *Linked Orders Actions* button and then *Activate Linked Order*

Note the material state is unpredicted prior to activating the Process Order. This means

5 Click Linked Order Action and Activate Linked Orders

Item Code	Item Name	Item Type	Order Qty	Outstand Qty	Qty to Order	Supplier	Result	Material Summary	Material State	Provisional Qty	Available Active Qty	Due Date	Order No	Order Type	Order Status	Supplier
SD008L3-PL/NL	Sofa Trisha - Lumi 2 Seater 2004 x 8' Sofa		4	4	0	4 Factory JHB	Success	Unpredicte	⦿	4	-	2022/12/28	3299	Process Order	Provisional	Factory JHB
SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 80l Occassione		2	2	0	2 Factory JHB	Success	Unpredicte	⦿	2	-	2022/12/28	3300	Process Order	Provisional	Factory JHB
SD008AC-PL/NL	Chair Eindhoven - Lumi Armchair 80l Occassione		4	4	0	4 Factory JHB	Success	Unpredicte	⦿	4	-	2022/12/28	3301	Process Order	Provisional	Factory JHB
SD006L2-SGR	Sofa Dusk - Timo 2 Seater 1675 x 8' Sofa		4	4	0	4 Factory JHB	Success	Unpredicte	⦿	4	-	2022/12/28	3302	Process Order	Provisional	Factory JHB
SD006L3-SGR	Sofa Tugela - Lumi 2 Seater 2130 x Sofa		6	6	0	6 Factory JHB	Success	Unpredicte	⦿	6	-	2022/12/28	3303	Process Order	Provisional	Factory JHB

Once any linked Process orders are activated the Materials State becomes **expected**. This means that we expect the raw materials to be issued when the process order is scheduled. This is the projected demand for the materials

The screenshot shows a SAP Sales Order (SO2085) with the following details:

- Owner Dept: Factory JHB
- Customer: Kiehn, Schroeder and Raynor
- Account Code: KIE0061
- Quote: Status Active, Transaction No. SO2085
- Transaction Date: 2022/12/22, 12:39
- Due Date: 2022/12/28, 00:00
- Shipping Date: 2022/12/28
- Terms: System - 5 Days
- Deliver To: Customer
- Delivery Address: Decofurn Jhb, 167 Hansons Junction, Autumn Leaf, Gemiston
- Contact Person: Devillers, Douglas
- Telephone Number: (509) 8624004
- Customer Reference: [Blank]
- Postal Code: 3970
- Representative: [Blank]
- Exch. Rate Cover: [Blank]
- Edited By: Sensei
- Last Edited: 2022/12/22
- Identity: 20006

The main table shows the following data:

Item Code	Item Name	Item Type	Order Qty	Outstand Qty	05 Qty to Order	Supplier	Result	Material Summary	Material State	Provisional Qty	Available Active Qty	Due Date	Order No	Order Type	Order Status	Supplier
SD008L3-PL/NL	Sofa Trisha - Lumi 2 Seater 2004 x 8' Sofa		4	4	0	4 Factory JHB	1 Activated.	Expected	✓	-	-	4 2022/12/28	3299/1	Process Batch	Active	Factory JHB
SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 800 Occassions		2	2	0	2 Factory JHB	1 Activated.	Expected	✓	-	-	2 2022/12/28	3300/1	Process Batch	Active	Factory JHB
SD008AC-PL/NL	Chair Eindhoven - Lumi Armchair 800 Occassions		4	4	0	4 Factory JHB	1 Activated.	Expected	✓	-	-			Process Batch	Active	Factory JHB
SD006L2-SGR	Sofa Dusk - Timo 2 Seater 1675 x 8' Sofa		4	4	0	4 Factory JHB	1 Activated.	Expected	✓	-	-			Process Batch	Active	Factory JHB
SD006L3-SGR	Sofa Tugela - Lumi 2 Seater 2130 x Sofa		6	6	0	6 Factory JHB	1 Activated.	Expected	✓	-	-			Process Batch	Active	Factory JHB
			20	20	20					0	20					

Annotations in the image:

- "Process orders are now active." points to the 'Result' column for the first row.
- "Material State is now Expected." points to the 'Material State' column for the first row.

Both the sales order and internal orders have two replenish pages.

The **Replenish Page** deals with **finished goods and buy-out goods**.

The **Replenish Materials Page** deals with the **raw materials** only applicable if the finished goods generated process orders.

The **Replenish Materials** page works in the same way. Generating Purchases orders against the raw materials.

The screenshot shows the 'Sales Order - SO2085' window. The 'Replenish Materials' tab is active. The main grid displays the following data:

Item Code	Item Name	Item Type	Order Qty	Outstand Qty	2023-01-01	2023-01-02	2023-01-03	2023-01-04	2023-01-05	Qty to Order	Supplier	Reorder Information	Result	Provisional Qty	Available Active Qty	Due Date
PLY-00013	Plywood - OSB3 12mm x 2440mm x	Plyboard	18.2	18.2	795.28	795.28	795.28	795.28	795.28	795.28	Cole Inc					
UD/R-00002	Dacron 135g x 2100mm Wide	Dacron / Li	15.7	15.7	1274.26	1274.26	1274.26	1274.26	1274.26	1274.26	Collier Group					
FMS-00016	Foam Replacement - 12mm x 1500m	Foam Shee	50.809	50.8096	4289.39	4289.39	4289.39	4289.39	4289.39	4289.39	Collier Group					
SP/L-00010	Pine - S.A. Pine Industrial 1800mm x	Pine	77.607	77.607	4073.95	4073.95	4073.95	4073.95	4073.95	4073.95	Kunde Inc					
SP/L-00021	Pine - S.A. Pine Structural 4200mm x	Pine	14.984	14.9844	-208.78	-208.78	-208.78	-208.78	-208.78	-208.78	Kunde Inc					
SS/E-00078	Screw - Chipboard Pozl Socket Cou	Screws	80	80	10137	10137	10137	10137	10137	10137	Bechtelar-Steuber					
SS/E-00071	Screw - Chipboard Pozl Socket Cou	Screws	80	80	10137	10137	10137	10137	10137	10137	Bechtelar-Steuber					
													3 418.6694	0		

Things to note. The default Supplier is listed. If you want to change the supplier, click on the drop-down button in the grid on the supplier column.

A List of the available suppliers is displayed.

Select the supplier record and Click **Select** button to change.

Note: This is a once off selection for the record you are replenishing. If you want to permanently change the preferred supplier then click Set Preferred.

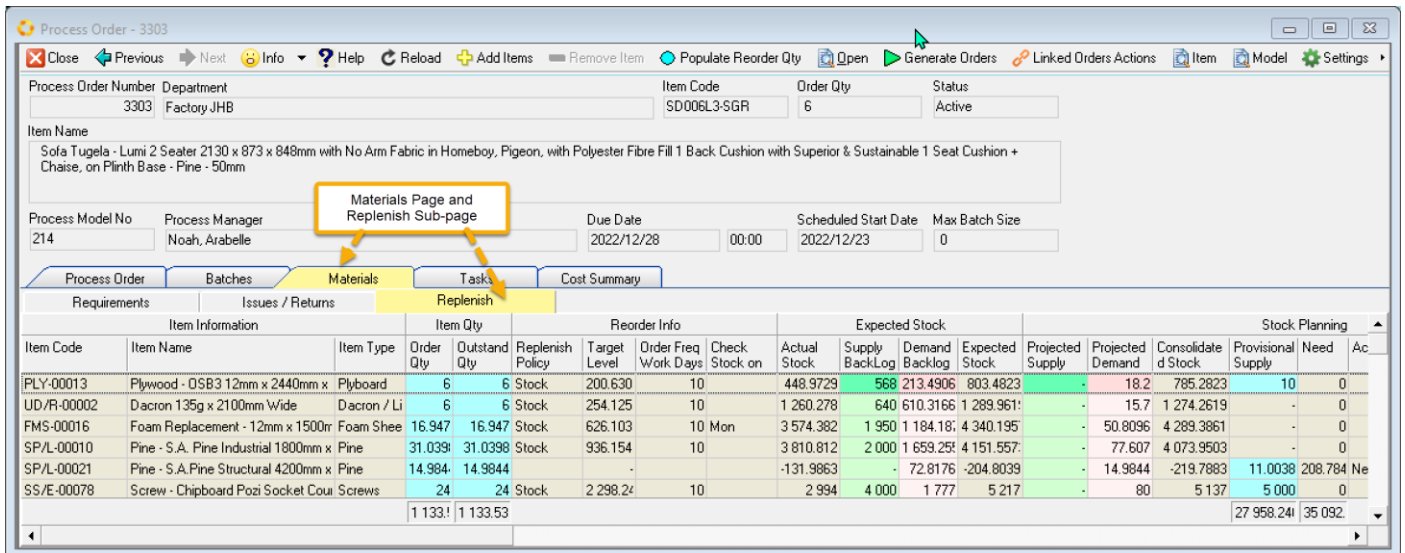
The 'Supplied By' dialog box shows the following data:

Supplier Code	Supplier	Supplier Status	Preferred	Supplier Item Code	Unit Cost Price	Packlot	Quality %	Lead Time	Valid Until
WUN0004	Wunsch Group	Active	<input type="checkbox"/>	UL210W/T1	28.00/m2	50 Roll	100		
COL1287	Collier Group	Active	<input checked="" type="checkbox"/>	TSR013521	20.66/m2	40 Roll	100		

6.3 REPLENISHMENT DIRECTLY FROM PROCESS ORDERS

From the menu navigate to the Process Orders.

From the Detail screen navigate to Materials > Replenishment tab and replenish as described above.

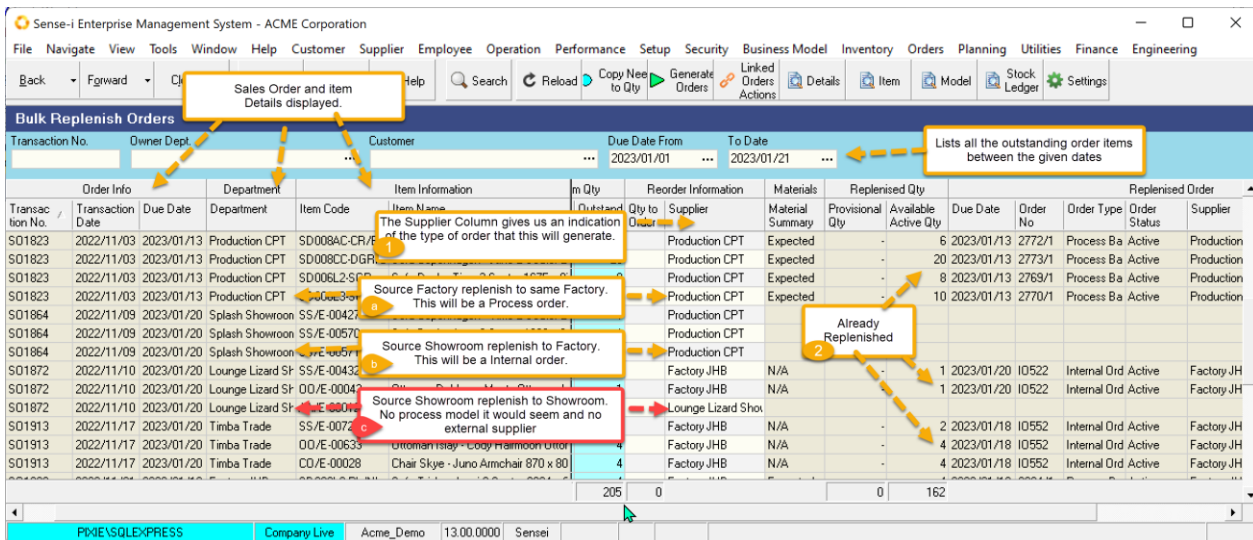


6.4 BULK REPLENISH ORDERS

Bulk Replenishment shows a selection of outstanding sales order items. These can be replenished in bulk.

From the menu navigate to Operation > Bulk Replenish Orders.

The Search parameters let us filter between dates.



The order details are displayed (including customer and address not shown here).

Replenishment mechanism remains the same.

Notes:

1. If we look at the order **Department** and compare it to the **Supplier**, we can determine the type of order that will be generated.
 - a. If the source department is a **factory** and the reorder supplier is the **same factory**, we assume this will be a process order.
 - b. If the source department is **not a factory** but the reorder supplier is a **factory** then this will be an internal order to the factory department.

- c. If the source department is **not a factory** and the reorder supplier remains the same, we can conclude that there is no process model and no external supplier able to source this item. Potential problem.

2. Looking at the Replenish Band we can see which records have or have NOT yet been processed. We could filter these records to only show those records NOT yet replenished.

6.4.1.1 Limit the list

3. You may choose to refine the search by entering additional search parameters.

This is useful particularly if you choose to **ONLY replenish to another department** (create internal orders) from this screen and **generate the process order only once the job has been scheduling** – described below. If this is the case, we can refine the search accordingly.

4. You could also filter the records and only show those items not yet replenished.

- Click on the Column header containing Replenished data.
- Filter by selecting (Blanks). Only Blank data (IE Not Replenished data) will be shown

Replenish as usual.

- Select the records to upgrade
- Set the Order Qty (Click the **Copy Need to Qty** Button)
- Click the **Generate Orders** Button

6.5 Replenishing (Process Orders) from Scheduled Batches

If you replenish to process order **prior to scheduling**, the **system will determine a scheduled date and place the job in the calendar**. In order to **schedule the jobs yourself**, you would need to **schedule the items first and then Replenish** by generating the Process Orders.

Navigate to Operation > Schedule Order Items.

Select the department and the Starting date before Searching.

The Calendar will display populated with the existing scheduled items.

1. To add new items, click the **Add Items** button.

Only those **outstanding order items (sales or internal) NOT yet on the calendar** will be displayed.

2. Multi-select the records you want to add and Click Select.

The new items now appear both in the calendar and the grid.

Sense-i Enterprise Management System - ACME Corporation

File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Add Items Remove Item Save Cancel Open Lock Day Clear Cut List Print Print Options Material Process Model Production Batch

Schedule Items

Department: Production CPT Start Date: 2023/01/12

View Options: Interval (minutes): 30 Start Time (Hour): 07:00 End Time (Hour): 17:00

Batch Schedule Calendar

Transaction No.	Item Code	Item Name	Scheduled Item Qty	Start Time	End Time
- Scheduled Batch :					
SO2083	SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 8	20	6 2023/01/12 07:30	2023/01/12 08:07
SO2084	SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 8	6	2023/01/12 08:07	2023/01/12 08:44
SO2083	SD006L2-SGR	Sofa Dusk - Timo 2 Seater 1675 x	8	2023/01/12 08:44	2023/01/12 09:11
+ Scheduled Batch : B:2023-01-12					
+ Scheduled Batch : B:2023-01-16					
+ Scheduled Batch : B:2023-01-17					
+ Scheduled Batch : B:2023-01-18					
+ Scheduled Batch : B:2023-01-23					

Callout 1: The new items appear on the grid and show in Yellow, these have NOT yet been saved on the database.

Callout 2 (Hint): If you cannot find where the new items have landed on the calendar look at the Start-time column. This shows the date and time.

3. Move the items to the preferred date and time.
4. Click Save

Sense-i Enterprise Management System - ACME Corporation

File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Add Items Remove Item Save Cancel Open Lock Day Clear Cut List Print Print Options Material Process Model Production Batch

Schedule Items

Department: Production CPT Start Date: 2023/01/12

View Options: Interval (minutes): 30 Start Time (Hour): 07:00 End Time (Hour): 17:00

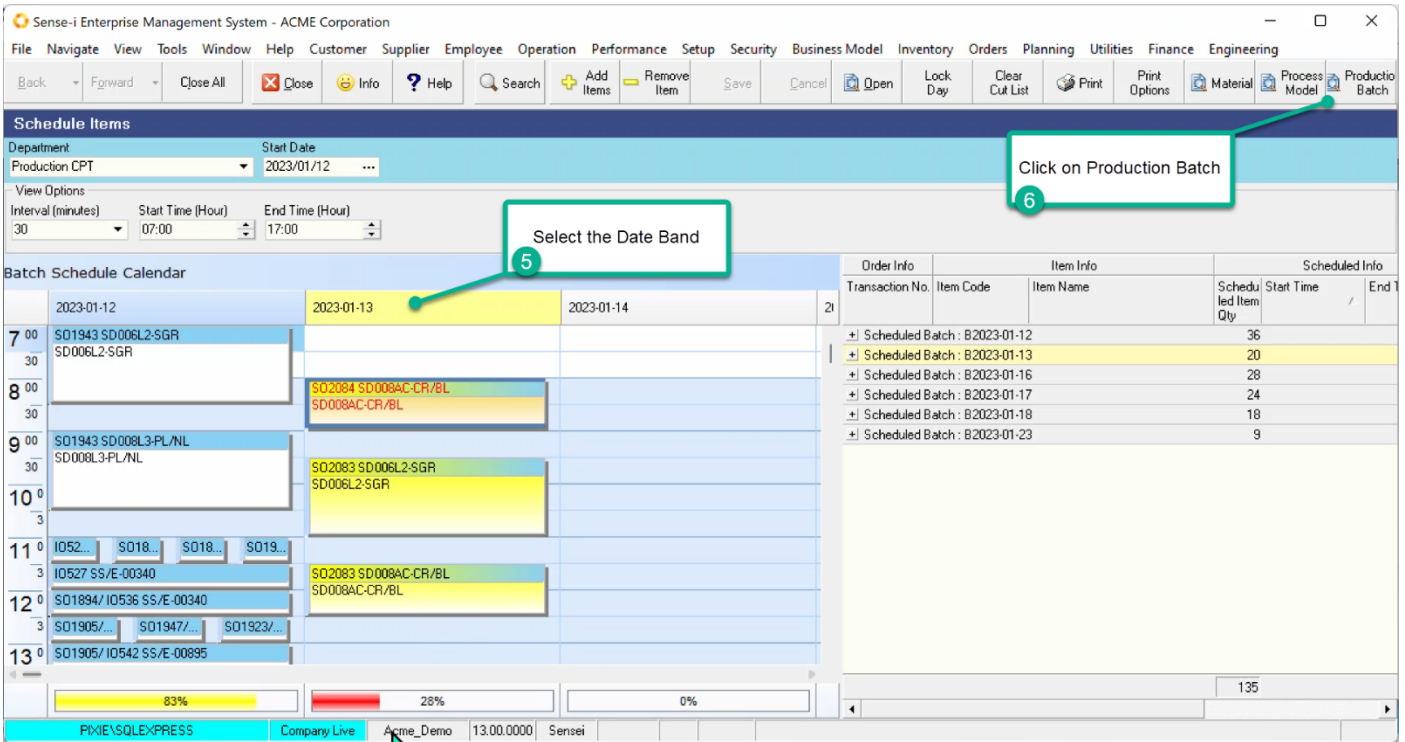
Batch Schedule Calendar

Transaction No.	Item Code	Item Name	Scheduled Item Qty	Start Time	End Time
+ Scheduled Batch :					
+ Scheduled Batch : B:2023-01-12					
+ Scheduled Batch : B:2023-01-16					
+ Scheduled Batch : B:2023-01-17					
+ Scheduled Batch : B:2023-01-18					
+ Scheduled Batch : B:2023-01-23					

Callout 3: Click on the Item and drag it to the preferred calendar slot.

Callout 4: Click Save Button

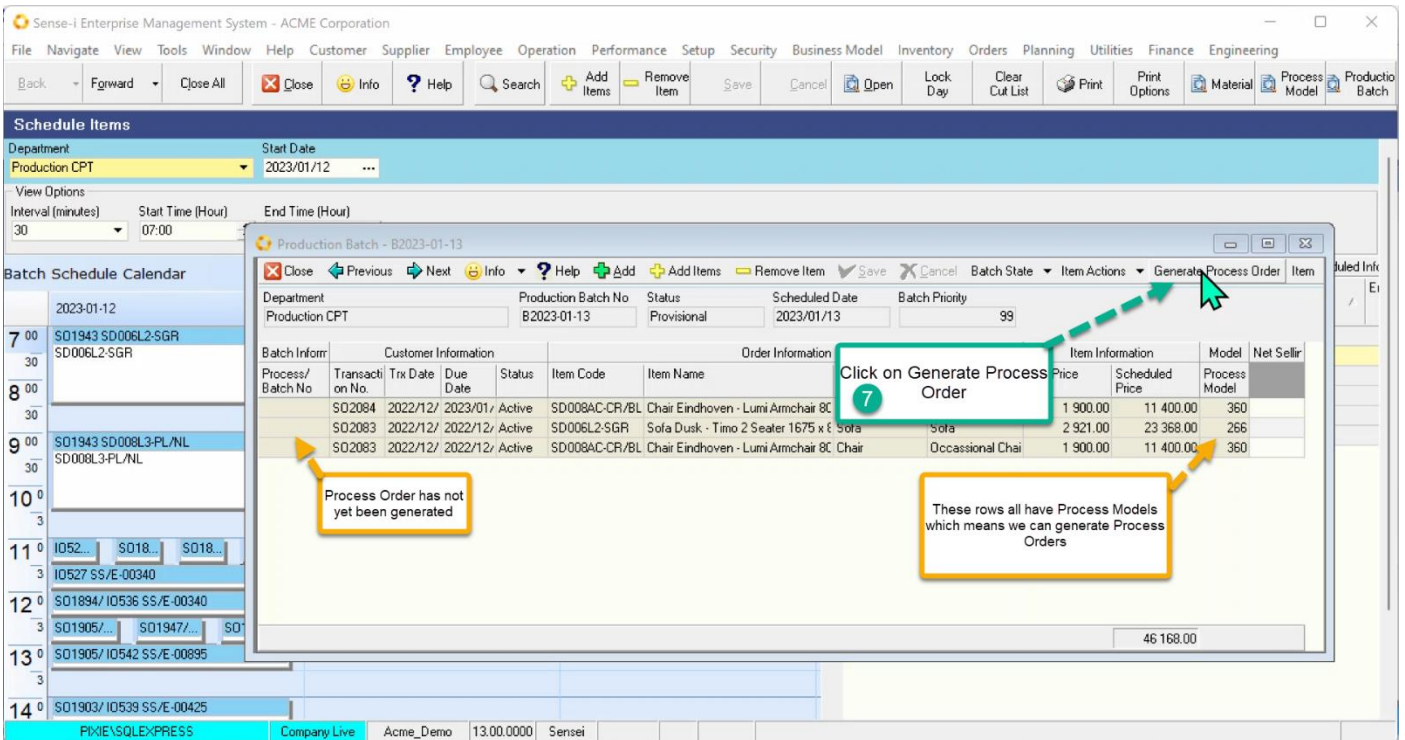
- Open up the Production Batch by selecting the Date Band and
- Clicking the Production Batch button.



The Production Batch opens and lists all the order items in it.

Check to see whether any rows have not yet had a process order generated.

- Click Generate Process Order



The process orders are **generated AND activated**. The scheduled order items are thus replenished.

6.6 REPLENISH RAW MATERIALS FOR SCHEDULED BATCHES.

From the Scheduled Items screen

1. Select the date by clicking on the column header, then click the Materials button.

Sense-i Enterprise Management System - ACME Corporation

File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Add Items Remove Item Save Cancel Open Lock Day Clear Cut List Print Print Options Material Process Model Production Batch

Schedule Items

Department: Production CPT Start Date: 2023/01/13

View Options: Interval (minutes): 30 Start Time (Hour): 07:00 End Time: 17:00

Batch Schedule Calendar

2023-01-12	2023-01-13	2023-01-14
7:00 S01943 SD006L2-SGR SD006L2-SGR	8:30 S02084 SD008AC-CR/BL SD008AC-CR/BL	
9:00 S01943 SD008L3-PL/NL SD008L3-PL/NL	10:30 S02083 SD006L2-SGR SD006L2-SGR	
11:00 I0527 SS/E-00340	12:00 S02083 SD008AC-CR/BL SD008AC-CR/BL	
12:00 S01894/ I0536 SS/E-00340		
13:00 S01905/... S01947/... S01923/...		
13:00 S01905/ I0542 SS/E-00895		

Order Info: Transaction No. Item Code Item Name Scheduled Info: Schedul Item Qty Start Time End T

83% 28% 0%

PMXIEVSQLEXPRESS Company Live Acme_Demo 13.00.0000 Sensei

The Materials Detail Pop-up screen is displayed.

2. Select the Material Replenish page

Sense-i Enterprise Management System - ACME Corporation

File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Add Items Remove Item Save Cancel Open Lock Day Clear Cut List Print Print Options Material Process Model Production Batch

Schedule Items

Schedule Date - Production CPT 2023-01-13

Select the Material Replenish Tab

All provisional orders for this material (regardless of the scheduled date) is summed for provisional supply.

All materials for all process orders scheduled on a given date are summed for the Order / Outstanding Quantities

Red indicates Negative supply

Any Consolidated amount which includes a provisional supply is underline in blue

Item Information	Item Qty	Order Qty	Outstand Qty	Replenish Policy	Target Level	Order Freq	Check Stock on	Actual Stock	Supply BackLog	Demand Backlog	Expected Stock	Projected Supply	Projected Demand	Consolidated Stock	Provisional Supply	Need	Action Required	2022-12-24	2022-12-25	2022-12-26
SS/E-00034	680	680	680					69	83166		69	83166		-83166	420	0		83166	83166	83586
FMS-00016	47.313	47.313	47.313	Stock				42	3364.397		42	3364.39		-3364.39	25.27	0		3364.4	3364.4	3389.67
UF/R-00068	47.36	47.36	47.36	Stock				3.5	-87.51		3.5	-87.51		-87.51	-87.51	0	Negative Stock - Or	-87.51	-87.51	-87.51
CC/E-00018	48	48	48	Stock				96	3649		96	3649		3649	3649	0		3649	3649	3649
GG/D-00003	0.1128	0.1128	0.1128	Stock				56	10.0791		56	10.0791		-10.0791	0.0875	0		10.08	10.08	10.17
UZ/R-00002	56	56	56	Stock	716.820	10 Tue		-398	3000	696	1906			-1906	42	0		1906	1906	1948
UZ/R-00001	46.4	46.4	46.4	Stock	752.492	10 Tue		-185.8307	3000	747.7074	2066.461			-2066.46	42	0		2066.46	2066.46	2066.46
UD/R-00001	312	312	312	Stock	4478.26	10 Tue		-2900.326		4517.771	7418.104			-7418.11	210	11.68	Negative Stock - Or	-7208.1	-7208.1	-7208.1
UD/R-00002	15.8	15.8	15.8	Stock	191.679	10 Tue		762.0878	700	253.0077	1209.080			-1209.08	15.75	0		1209.08	1209.08	1209.08
FW/E-00003	360	360	360	Stock				6705	5904	2498	10112			-10112	112	0		10112	10112	10112
NN/E-00002	200	200	200	Stock				-6524		1350	-7874							-7818	-7818	-7818
PO/E-00006	0.0012	0.0012	0.0012	Stock				2.9322		1.4127	4.2419							4.21	4.21	4.21
	3429.1	3429.56	3429.56											1273.138	30.9					

83% 28% 0%

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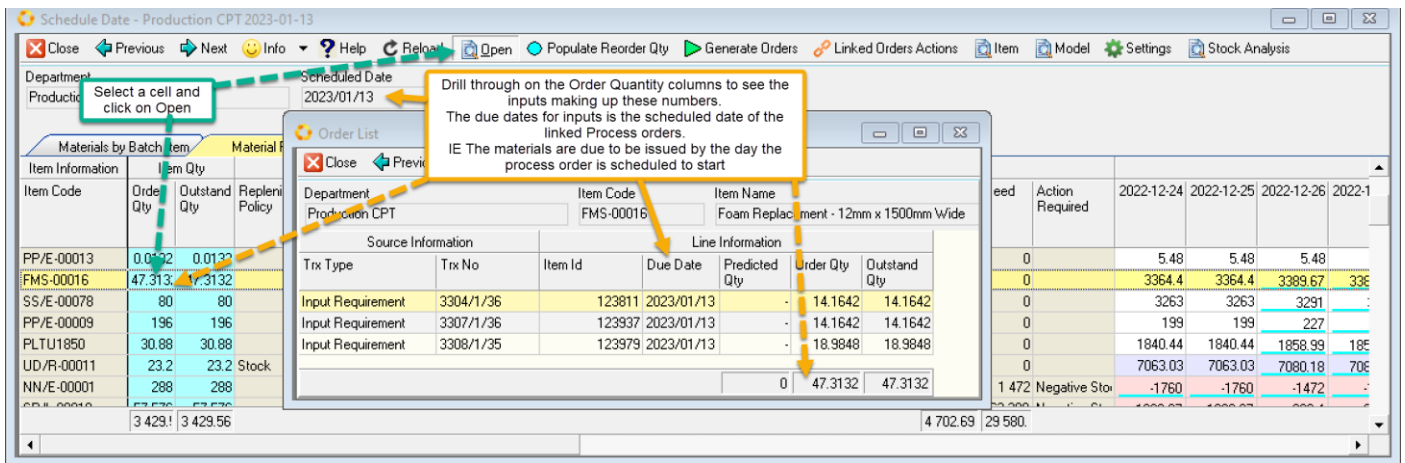
Notes:

- All materials for all the process orders scheduled for this department on this date make up the Order Quantity and Outstanding Quantities.
- The existing provisional purchases orders are summed and shown in the Provisional Supply column. This means that we can begin to build purchase orders from each day's requirements and only activate the orders when we are ready.
- The colour coding alerts us to negative stock or surplus stock.

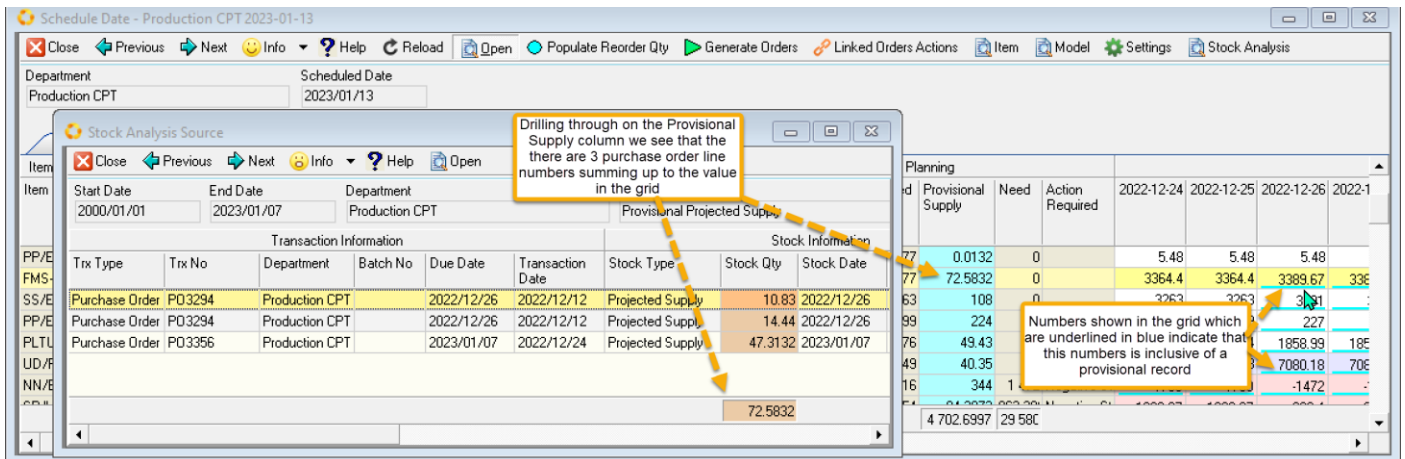
3. Replenish as usual: Set Order Quantity & Generate Order.

Checking the source of the numbers

All the replenish screens we have seen so far allow you to drill in to specific cells and confirm the numbers. We click on a cell in the grid and click the **open** button



Similarly drill through on the Provisional Supply we can see the breakdown.



The grid shows which values in the date columns have provisional supply included.

Check numbers in the Date columns by viewing the Stock Analysis columns.

These number correspond to the Consolidated Provisional supply Tab.

The screenshot displays a software interface with two main windows. The primary window is titled "Schedule Items" and shows a table with columns for "Actual Rio Detail", "Projected Rio Detail", "Consolidated Rio Detail", and "Consolidated Provisional Detail". The table lists various data items such as "Opening Balance", "Supply BackLog", "Demand BackLog", "Net Backlog", "Consolidate Balance", "Provisional Supply B/F", "Provisional Supply", "Net Provisional Supply", and "Provisional Balance". The "Consolidated Provisional Detail" column is highlighted in yellow, and a purple box highlights the value "25.27" in the "Provisional Supply" row for the date 2022-12-26.

A secondary window titled "Stock Analysis" is open on the right. It shows a table with columns for dates: 2022-12-25, 2022-12-26, and 2022-12-27. A callout box with a dashed orange arrow points to the 2022-12-26 column, stating: "Stock Analysis Drill Through and Consolidated Provisional Supply Tab shows us the Provisional supply included in the number".

Department Name	Data Item	2022-12-24 Past (Actual)	2022-12-25 Past (Actual)	2022-12-26 Past (Actual)	2022-12-27 Future (Projected)	2022-12-28 Future (Projected)	2022-12-29 Future (Projected)	2022-12-30 Future (Projected)	2022-12-31 Future (Projected)	2023-01-01 Future (Projected)	2023-01-02 Future (Projected)
Production CPT	Opening Balance	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719
Production CPT	Supply										
Production CPT	Supply BackLog	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800
Production CPT	Demand										
Production CPT	Demand BackLog	-584.2742	-584.2742	-584.2742	-584.2742	-584.2742	-584.2742	-584.2742	-584.2742	-584.2742	-584.2742
Production CPT	Adjust										
Production CPT	Net Backlog	1 215.7258	1 215.7258	1 215.7258	1 215.7258	1 215.7258	1 215.7258	1 215.7258	1 215.7258	1 215.7258	1 215.7258
Production CPT	Closing Balance	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719	2 148.6719
Production CPT	Consolidate Balance	3 364.3977	3 364.3977	3 364.3977	3 364.3977	3 364.3977	3 364.3977	3 364.3977	3 364.3977	3 364.3977	3 364.3977
Production CPT	Provisional Supply B/F				25.27	25.27	25.27	25.27	25.27	25.27	25.27
Production CPT	Provisional Supply			25.27							
Production CPT	Net Provisional Supply			25.27	25.27	25.27	25.27	25.27	25.27	25.27	25.27
Production CPT	Provisional Balance	3 364.3977	3 364.3977	3 389.6677	3 389.6677	3 389.6677	3 389.6677	3 389.6677	3 389.6677	3 389.6677	3 389.6677

6.7 REPLENISH FROM STOCK

If you choose to **replenish from stock**, you must ensure **your stock quantities are accurate**.

The mechanism of replenish remains the same. The difference lies in the fact that there is no underlying order to work with. This means you must

- Search for the stock items of interest – as opposed to letting the underlying orders produce the list.
- Populate the replenish quantity either manually or copying the system calculated Need

Navigate from the main menu. Operation > Replenish Stock.

From the replenish screen choose the Resource group to Replenish.

Search Parameters of interest

- Search parameter **Plan Day Count** returns the number of dates to show in the calendar and derives the values in the Stock Planning Band up to the end date. (IE Current Date + Play Day Count)
- The **Need from Value** can be used to refine the search to only show records whose need equals or exceeds a certain value.

The grid returns the expected stock values for a range of dates. The values correspond to the **Consolidated with Provisional Supply** Stock View.

Replenish

Department: Production CPT
 Item Code: [] Item Name: [] Item Status: Active
 Plan Day Count: 14
 Need From Value: 0
 Summary Legend: Supply (Green), Demand (Red), Provisional Supply (Blue)
 Date Quantity Legend: Exceeds Maximum (Yellow), Below Target (Orange), Negative Stock (Red), Includes Provisional Supply (Blue)

Item Code	Target Level	Consolid Stock	Prov Supply	Need By End Date	Need Qty	Need By	Action Required	2023-01-02	2023-01-03	2023-01-04	2023-01-05	2023-01-06	2023-01-07	2023-01-08	2023-01-09	2023-01-10	2023-01-11	2023-01-12	2023-01-13	2023-01-14	2023-01-15	2023-01-16	Qty to Order	
NN/E-00001	3 364	-4 974	288	3 050	8 050	2023/01/02	Negative Stock - Order	-1816	-1816	-1816	-1816	-1528	-1528	0	0	0	0	0	0	0	0	0	0	
NN/E-00002	1 543	-9 076	832	5 727	10 041	2023/01/02	Negative Stock - Order	-7874	-7874	-7874	-7874	-7874	-7874	0	0	0	0	0	0	0	0	0	0	
NN/E-00006	-	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NN/E-00007	-	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NN/E-00009	500	-289	810	664	2023/01/02	Bring Provisional forward		242	242	242	242	242	242	128	32	-76	-164	546	546	546	546	521	521	
NN/E-00010	-	4 973	-	-	-			4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973
NN/E-00020	-	60	-	-	-			60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
NN/E-00021	-	1	-	-	-			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

There are 2 **need** columns.

- Need by the end Date.**
By the end of the END period we need a certain amount of stock to be ordered to achieve the Target Level.

$$\begin{aligned} \text{Need by End Date} &= \text{Target} - \text{Value at end Date} \\ &= 500 - 521 \\ &= -21 \end{aligned}$$

As this is a negative value, another order is not yet required.

- Need by Calculated Date.**

The **first date** where the **stock dips below target** is the **Need by Date**. The screen above shows that the stock level is already below target for TODAY. It is 242 and the Target is 500. The need by date is set to today.

E. The Need Quantity is calculated based on the lowest quantity in the period.

$$\begin{aligned} \text{Need by End Date} &= \text{Target} - \text{Lowest value} \\ &= 500 - (-164) \\ &= 664 \end{aligned}$$

Alternatively drill down to the Stock Analysis

1 Select the Provisional Supply Cell and Click Open

2 Note the message

3 Underlined in blue indicates the value contains provisional supply

Item Code	Target Level	Consolid Stock	Prov Supply	Need By E Date	Action Required	2023-01-02	2023-01-03	2023-01-04	2023-01-05	2023-01-06	2023-01-07	2023-01-11	2023-01-12	2023-01-13	2023-01-14	2023-01-15	2023-01-16	Qty to Order
NN/E-00001	3 364	-4 974	288	8 0	Negative Stock - Order	-1816	-1816	-1816	-1816	-1528	-1528	-4066	-4308	-4596	-4596	-4596	-4686	
NN/E-00002	1 543	-9 076	892	9 777	Negative Stock - Order	-7874	-7874	-7874	-7874	-7674	-7674	-8254	-8498	-8062	-8062	-8062	-8184	
NN/E-00007	-	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
NN/E-00009	500	-289	810	664	Bring Provisional forward	242	242	242	242	242	242	128	32	-76	-16	546	546	521
NN/E-00010	-	4 973	-	-	-	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973	4973
NN/E-00020	-	60	-	-	-	60	60	60	60	60	60	60	60	60	60	60	60	60
NN/E-00021	-	1	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1

F. The required action states that the Provisional Supply needs to be brought forward. We can see that there is **sufficient stock at the end** of the period but there will be **a stock shortage during the period**. Stock level drop below negative.

G. The provisional supply pushes the stock value to an acceptable level.

6.7.1 Bring the Provisional Stock forward

1. Select the Provisional supply cell and Click Open.

The list of source documents is listed.

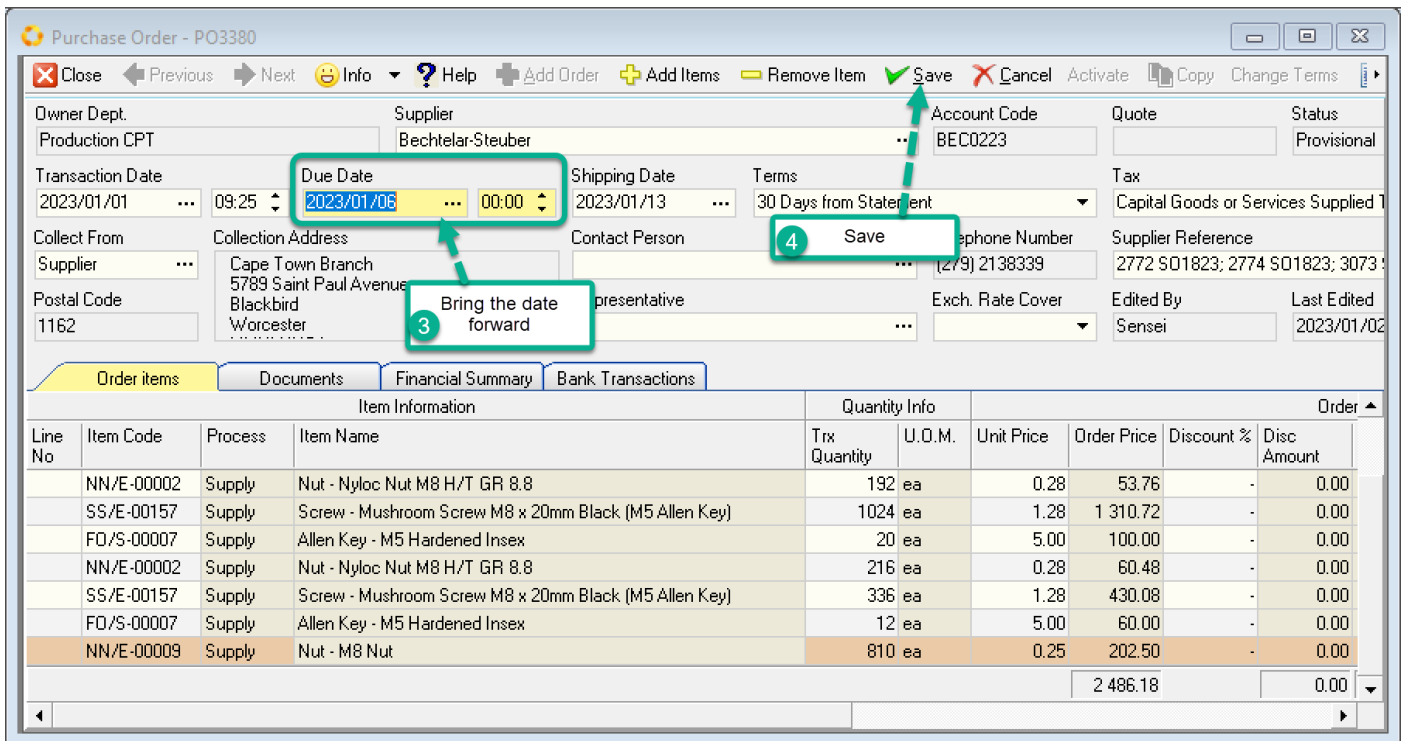
1 Open

2 Drill through to the actual Purchase Order

Start Date	End Date	Department	Data Type	Item Code	Item Name
2000/01/01	2023/01/16	Production CPT	Provisional Projected Supply	NN/E-00009	Nut - M8 Nut

Trx Type	Trx No	Department	Batch No	Due Date	Transaction Date	Stock Type	Stock Qty	Stock Date	Unit Cost	Stock Cost	Supply Received	Demand Delivered	Actual Adjustment
Purchase Order	PO3380	Production CPT		2023/01/13	2023/01/01 05	Projected Suppl	810	2023/01/13	0.25	202.50			
							810			202.50	0	0	0

2. Drill through to the purchase order.

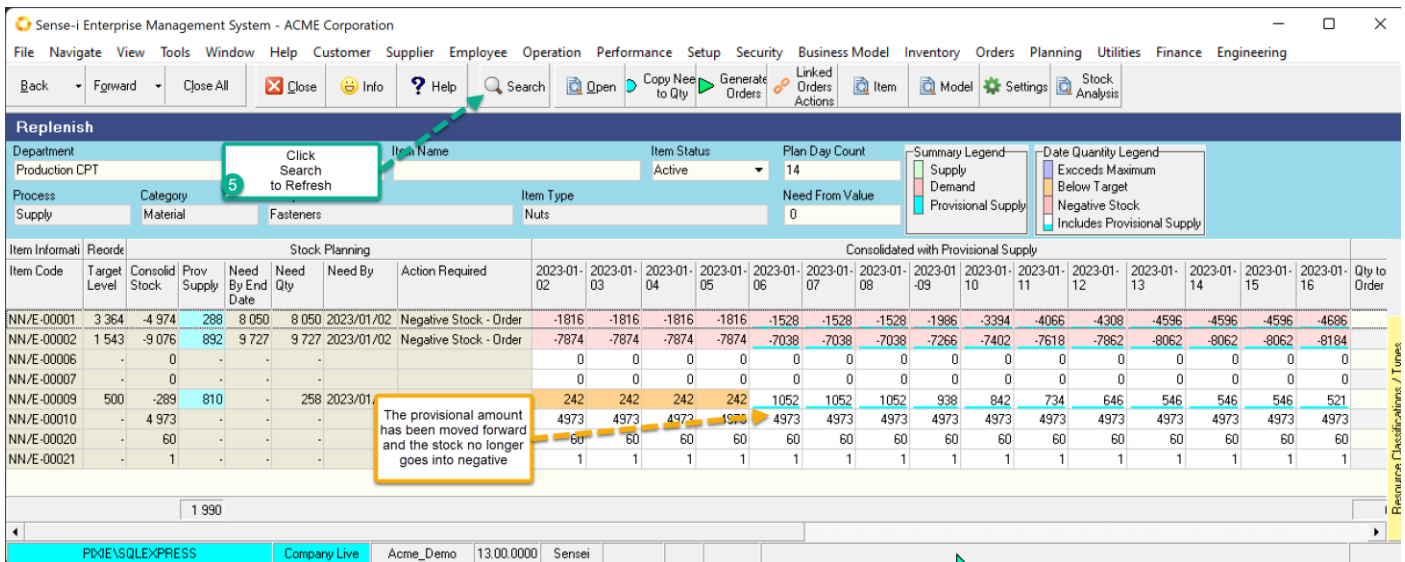


The purchase order opens and highlights the Item we are querying. (Change the quantity of the order if needed.)

3. To bring the due date forward, change the due date.
4. Save the record.

Close down the drill through screens.

5. Click the Search button to refresh



7 PROCESS ORDER BATCH – CLOSING ISSUES

Process orders document the manufacturing of finished goods.

The process model serves as the recipe and lists the inputs required to make the item. One would generally issue the materials prior to and during the manufacture process. Certain inputs are marked as **Issue on Dispatch**. These inputs are not part of the finished good but rather accompany it on delivery. Examples. Screw on Feet for a couch packed separated; Scatter Cushions etc.

On **finishing a job** (IE Marking the finished goods completed) the operator is given the opportunity to issue outstanding materials; cancel the demand for them or do nothing. This **EXCLUDES** those items marked, **issue on dispatch**. Issue on dispatch should be a deliberate action when at time or prior to dispatch.

Closing Issues

- Can only be done on a Completed/Closed Batch
- Gives us another opportunity to issue or cancel the outstanding items.
- It **INCLUDES issue on dispatch**.
- It prevents further issuing of materials against a process order batch.

From the main menu, navigate to Operation \ Process Order Completed Batches.

1. Filter the list to only show batches with Open Issues (Issues Closed =False)
2. Multi-Select the records to close
3. Click the Close Issues Button.

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File Navigate View Tools Window Help Customer Supplier Employee Operation Performance Setup Security Business Model Inventory Orders Planning Utilities Finance Engineering

Back Forward Close All Close Info Help Search Open Print Print Options Process Order Item Stock Ledger Process Model Close Issues

Process Order Completed Batches

Process Order No. Department Customer Scheduled From Date Scheduled To Date
 Capture Date Customer Reference Process Manager
 Item Code Resource Type Name Item Name Order No Process Order Status

Customer Information		Batch Information				Process Order Information				Item Information					
Party Name	Batch No.	Closed	Checked By	Off-line Date	Issues Closed	Issues Closed By	Issues Closed On	Schedule Date	Status	Due Date	Customer Reference	Delivery Variance (days)	Deliver Alert	Item Code	Item Name
Blanckley, Hendrik	2393/1	✓	SeanB278	2022/11/10	✓		2022/11/03	2022/11/25	Closed	2022/11/25	S01552	520	2	LATE	Scatter Cushions
Spiby, Brade	2394/1	✓	SeanB278	2022/11/30	✓		2022/11/24	2022/11/25	Closed	2022/11/25	S01552	552	5	LATE	Scatter Cushions
Spiby, Brade	2393/1	✓	SeanB278	2022/11/30	✓		2022/11/24	2022/11/25	Closed	2022/11/25	S01552	552	5	LATE	Scatter Cushions
Spiby, Brade	2394/1	✓	SeanB278	2022/11/30	✓		2022/11/24	2022/11/25	Closed	2022/11/25	S01552	552	5	LATE	Scatter Cushions
Gollard, Mayor	2429/1	✓	SeanB2014	2022/11/22	✓		2022/11/15	2022/11/11	Closed	2022/11/11	S01607	1607	11	LATE	Ottoman Trisha - Timba Ottome
Fellon, Aryn	2462/1	✓	SeanB2014	2022/11/30	✓		2022/11/15	2022/11/11	Closed	2022/11/11	S01612	1612	19	LATE	Sofa Tugela - Eero 2 Seater 2C
Kelwaybambe, Berti	2465/1	✓	SeanB2014	2022/11/22	✓		2022/11/15	2022/11/11	Closed	2022/11/11	S01610	1610	11	LATE	Ottoman Trisha - Timba Ottome
Rochelle, Marlana	2466/1	✓	SeanB2014	2022/11/30	✓		2022/11/15	2022/11/09	Closed	2022/11/09	S01564	1564	21	LATE	Ottoman Trisha - Timba Ottome

Filter issues to unclosed

Limits the search by scheduled Date

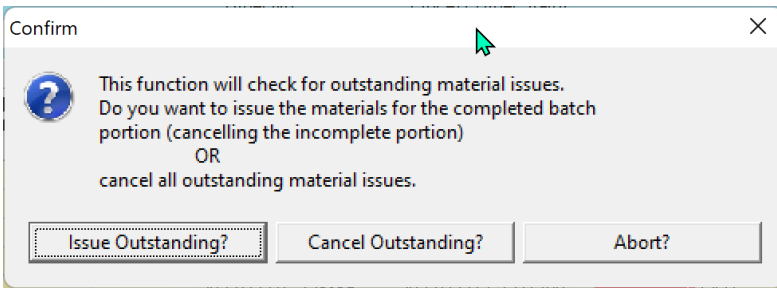
Multi-select

Click Close Issues

(Issues Closed = False)

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Closing Issues clears the unissued materials by issuing them or cancelling the demand. The following message pops-up.



Opening the Process Order Batch Detail screen, you will see a button which will **toggle** between *Close Issues* or *Open Issues*, depending on the state of the issues.

7.1 REOPENING ISSUES

If you have closed issues but now you want to return issues or add additional issues, you may wish to reopen the issues.

Batch No	Department	Process Model	Due Date	Process Order Status	Issues Closed Date	Review Status
2486/1	Factory JHB	385	2022/11/11	Closed	2022/11/30	
Item Code	Item Name	Scheduled Start	Planned Qty	Completed Qty	Batch Complete Date	
00/E-00540	Ottoman Trisha - Timba Ottoman Leather CowSkin 600 x 900 x 400mm with Traditional 1 S	2022/11/16	2	2	2022/11/22	
Sales Order No	Customer	Internal Order No	Internal Department	Reference		
SO1629	Brunner, Vivia	IO343	Factory JHB	SO1629		

Process Costs (Inputs - Demand)						
	Labour Cost	Machine Cost	Overhead Cost	Task Cost	Material Cost	Process Cost
Projected	0.00	0.00	0.00	0.00	2 039.54	2 039.54
Actual	0.00	0.00	0.00	0.00	2 450.63	2 450.63

NOTE : Projected Material Unit Cost is based on Preferred Supplier Catalogue Price (View Item Price)
Actual Material Unit Cost is based on AVE STOCK Cost at the time of Issue (View Ledger)

Projected Supply (Output - Based on Planned Process Cost)					Actual Supply (Output - Stock)		
	Unit Cost	Planned	Complete	Cancelled	Outstanding	Unit Cost	Completed
Cost	1 019.77	2 039.54	2 039.54	0.00	0.00	1 019.76	2 039.52
Qty		2	2	0	0		2

8 SYSTEM SETTINGS

8.1 SECURITY SETTINGS

- 309 Replenish Materials for Scheduled Batches
- 312 Process Order Replenish Materials
- 756 Process Batch Close Issues
- 757 Process Batch Complete List

8.2 COMPANY SETTINGS

- Target Max Factor
Positive number greater than or equal to 1
- Target Min Factor
Positive number less than or equal to 1

8.3 REPLENISH SETTINGS

The screenshot shows the 'Replenish Settings' window with three main sections: Internal Orders, Process Order, and Purchase Order. Each section has a 'Replenish for stock' and a 'Replenish from Source Order' sub-section. The 'Process Order' section has a 'Default Days to Make' field set to 5, which is highlighted with an orange box and a 'New Setting' label with an arrow pointing to it. The 'Internal Orders' section has a 'Days before Preceding Order' field set to 2. The 'Purchase Order' section has a 'Distinct Order' dropdown set to 'Per Supplier'.

Section	Sub-section	Field	Value
Internal Orders	Replenish for stock	One Internal order will be created per Department	One Internal order will be created per Department
	Replenish from Source Order	Days before Preceding Order	2
Process Order	Replenish for stock	One Process Order per Item	One Process Order per Item
	Replenish from Source Order	Default Days to Make	5
Purchase Order	Replenish for stock	One Purchase order per Supplier	One Purchase order per Supplier
	Replenish from Source Order	Distinct Order	Per Supplier

If the output item does not have a lead time set, the default days to make will be used.