

SEMS Version 13.0.0

Release Notes

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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.

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

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.

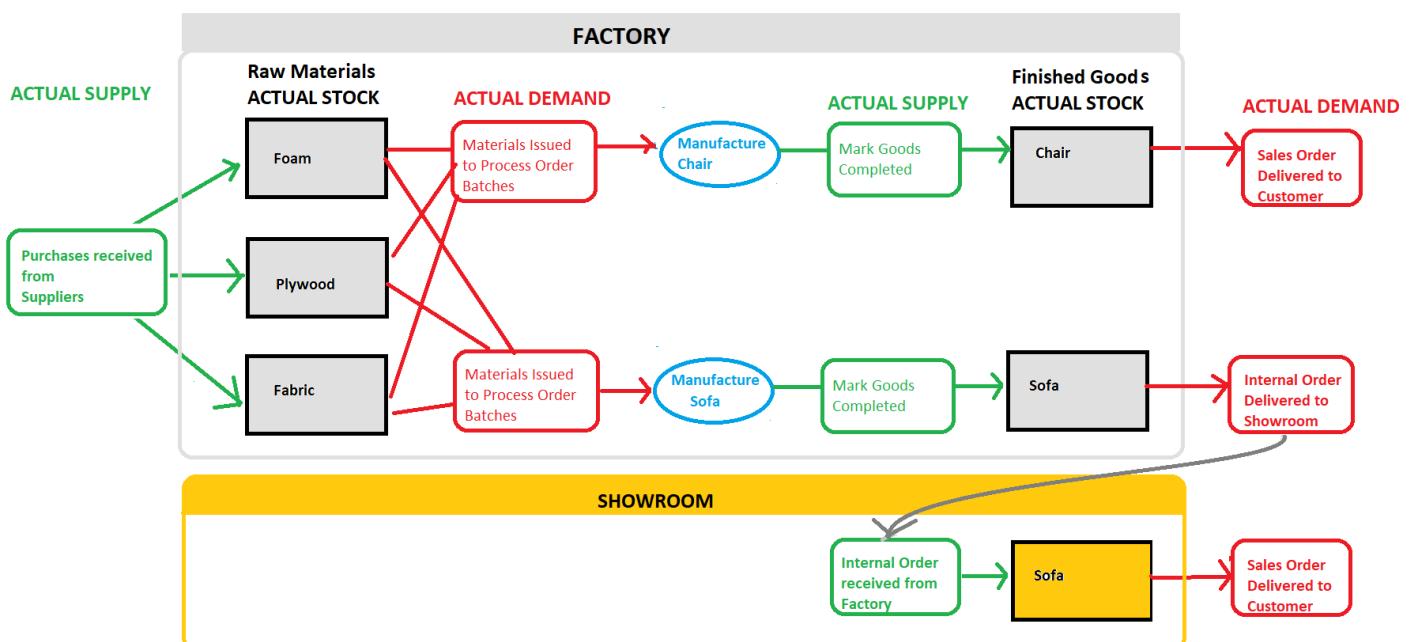
- Sales Orders Delivered
- Internal Orders Delivered
- Materials Issued to a job (process order) for manufacturing.

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

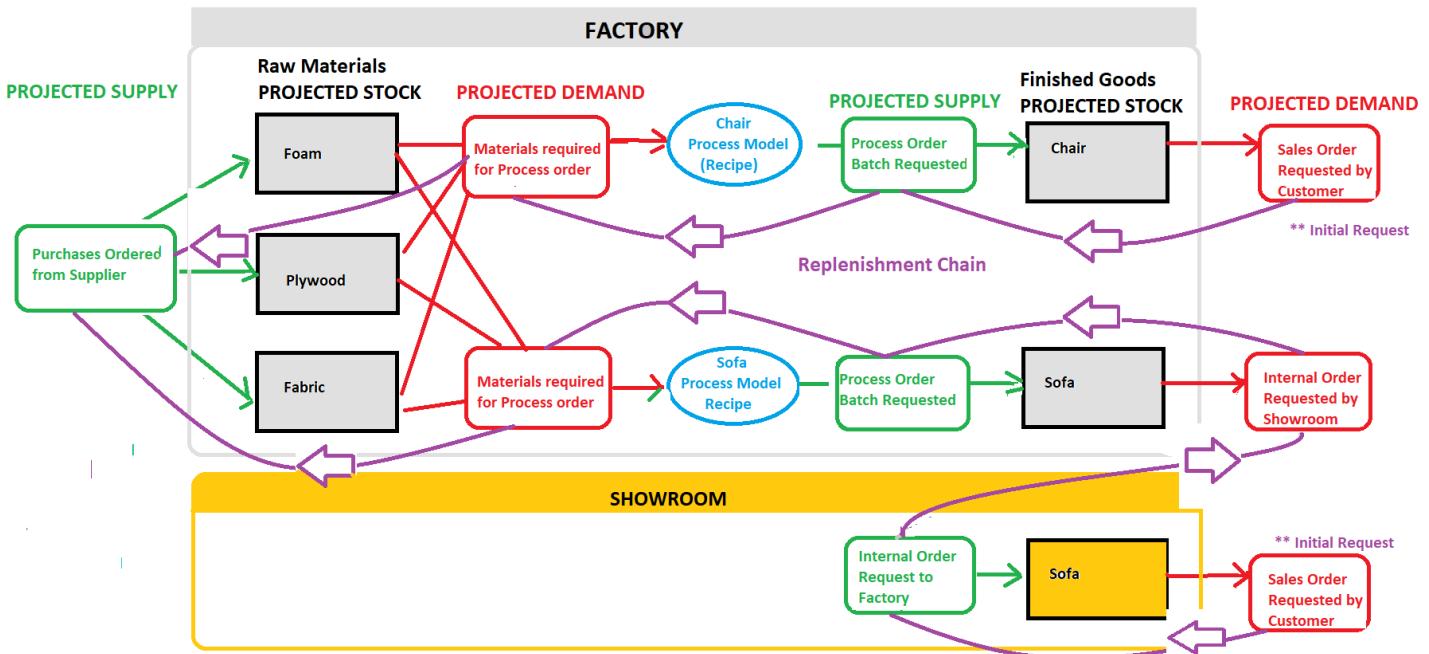


3.2 PROJECTED STOCK AND THE REPLENISHMENT CHAIN

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.

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

Annotations:

- Yellow box labeled "10 Cushions Currently in Stock" points to the "Actual Stock" row.
- Yellow box labeled "12 Cushions due for shipping" points to the "Projected Supply" row.
- Yellow box labeled "2 Cushions short on Tuesday, resolved by Wed" points to the "-2" value in the "Consolidated Closing Balance" row for Tuesday.
- Yellow box labeled "7 Cushions short" points to the "-7" value in the "Consolidated Closing Balance" row for Thursday.
- Yellow box labeled "8 Cushions short" points to the "-8" value in the "Consolidated Closing Balance" row for 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**.

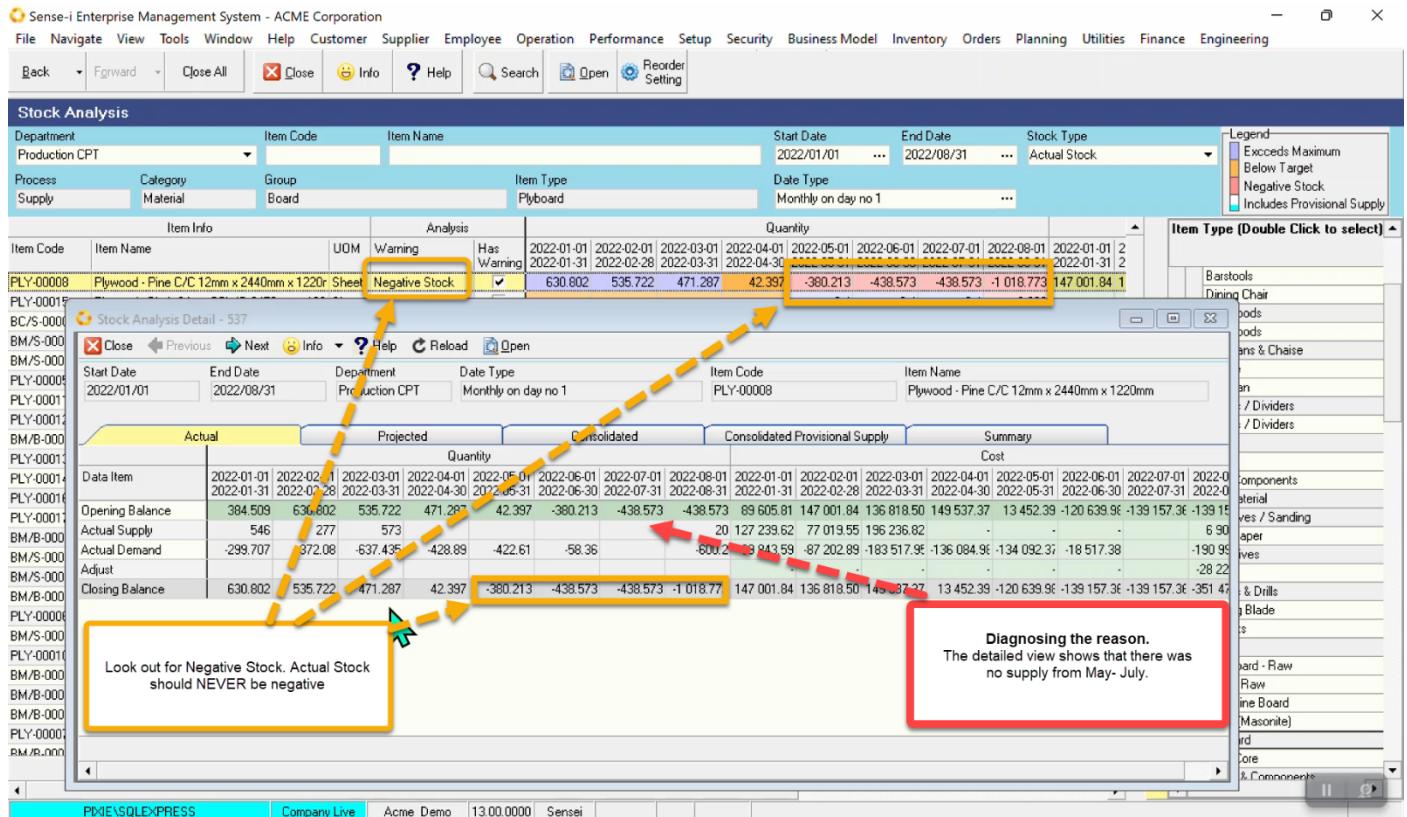
Actual Stock should **NEVER** be negative. Use this view to identify missing supply and potentially faulty stock values. Negative stock is generally caused by

- 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

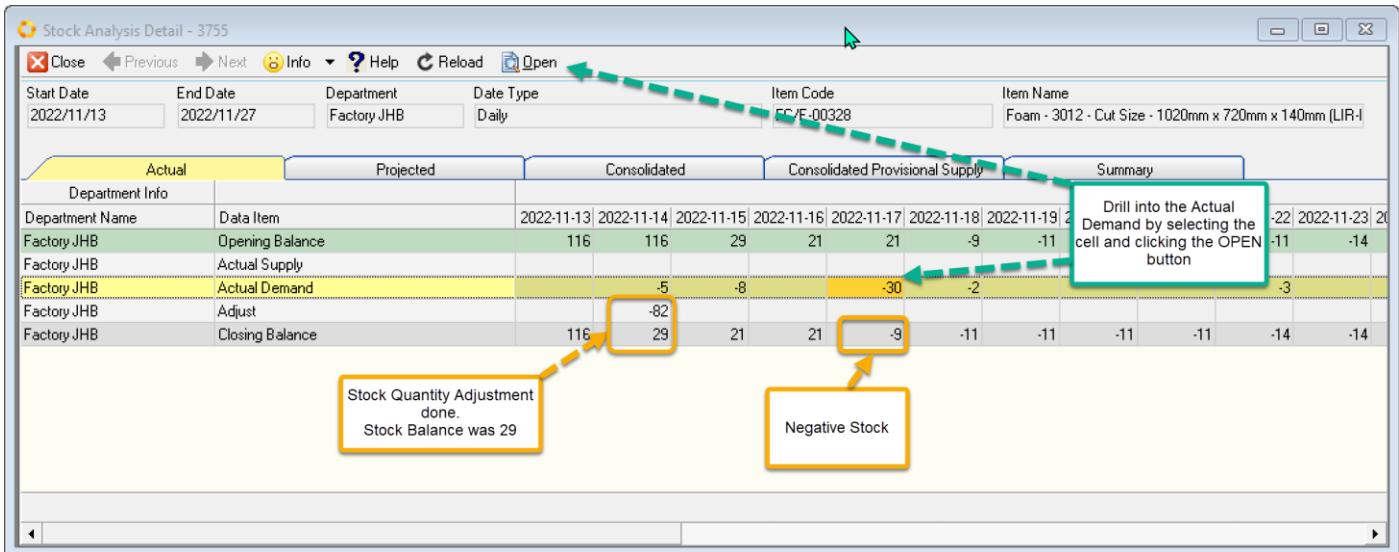
The example below shows a suspicious gap in the monthly supply.



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.



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.

Start Date: 2022/11/17 End Date: 2022/11/17 Department: Factory JHB Data Type: Actual Demand Item Code: FC/E-00328 Item Name: Foam - 3012 - Cut Size - 1020mm x 720mm x 140mm (LIR-L)

Trx Type	Trx No	Department	Batch N	Due Date	Transaction Date	Stock Type	Stock Qty	Stock Date	Unit Cost	Stock Cost	Actual Summary		
											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:	278.31	-278.31	1		
Process Order Issue	POIS10102	Factory JHB	1649/1	2022/09/23	2022/11/17 10:37:11	Actual Demand	-1	2022/11/17 10:37:	278.31	-278.31	1		
Process Order Issue	POIS10103	Factory JHB	1790/1	2022/10/03	2022/11/17 10:49:01	Actual Demand	-2	2022/11/17 10:49:	278.31	-556.62	2		
Process Order Issue	POIS10104	Factory JHB	1796/1	2022/10/03	2022/11/17 10:52:15	Actual Demand	-5	2022/11/17 10:52:	278.31	-1391.54	5		
Process Order Issue	POIS10105	Factory JHB	2070/1	2022/10/10	2022/11/17 11:04:55	Actual Demand	-1	2022/11/17 11:04:	278.31	-278.31	1		
Process Order Issue	POIS10106	Factory JHB	2071/1	2022/10/12	2022/11/17 10:58:01	Actual Demand	-1	2022/11/17 10:58:	278.31	-556.62	2		
Process Order Issue	POIS10107	Factory JHB	2069/1	2022/10/12	2022/11/17 11:23:10	Actual Demand	-1	2022/11/17 11:23:	278.31	-556.62	2		
Process Order Issue	POIS10108	Factory JHB	2068/1	2022/10/12	2022/11/17 11:25:01	Actual Demand	-1	2022/11/17 11:25:	278.31	-278.31	1		
Process Order Issue	POIS10210	Factory JHB	1921/1	2022/10/12	2022/11/17 11:27:10	Actual Demand	-1	2022/11/17 11:27:	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:	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:	278.31	-556.62	2		
Process Order Issue	POIS10163	Factory JHB	2127/1	2022/10/27	2022/11/17 11:05:51	Actual Demand	-2	2022/11/17 11:05:	278.31	-556.62	2		
Process Order Issue	POIS10212	Factory JHB	2126/1	2022/10/27	2022/11/17 11:28:31	Actual Demand	-2	2022/11/17 11:28:	278.31	-556.62	2		
Process Order Issue	POIS10159	Factory JHB	2360/1	2022/10/31	2022/11/17 11:03:21	Actual Demand	-1	2022/11/17 11:03:	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:	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		

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

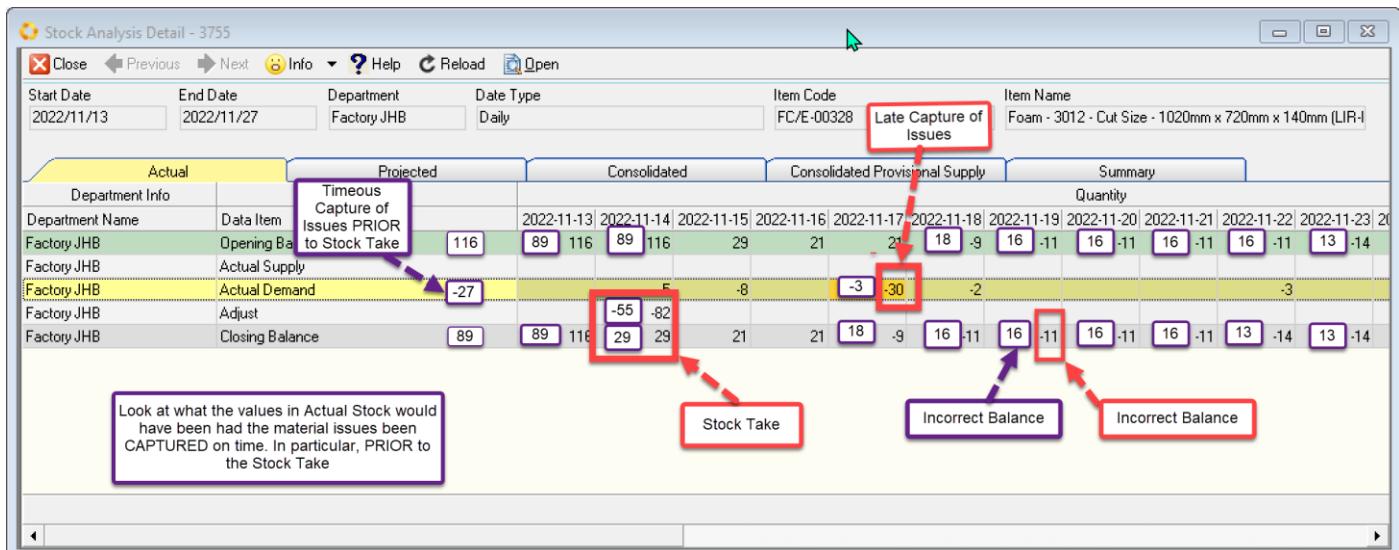
Process Order - 1624

Process Order Number	Department	Item Code	Order Qty	Status								
1624	Factory JHB	SS/E-00389	1	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	Process Manager	Due Date	Scheduled Start Date	Max Batch Size								
249	Noah, Arabelle	2022/09/27	00:00	2022/09/22	0							
Process Order Batches Materials Tasks Cost Summary												
Batch Information Quantity Information Sales Order Information												
Batch No.	Closed	Checked By	Off-line Date	Issues	Issues Closed By	Issues Closed On	Planned Quantity	Completed Quantity	Qty Variance	U.O.M.	Order No.	Due Date
1624/1	<input checked="" type="checkbox"/>	KathyB1795	2022/09/27	<input checked="" type="checkbox"/>	KathyB1795	2022/11/17	1	1	0 ea	SO1098	2022/09/25	

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.



Had the issued been captured PRIOR to stock take.

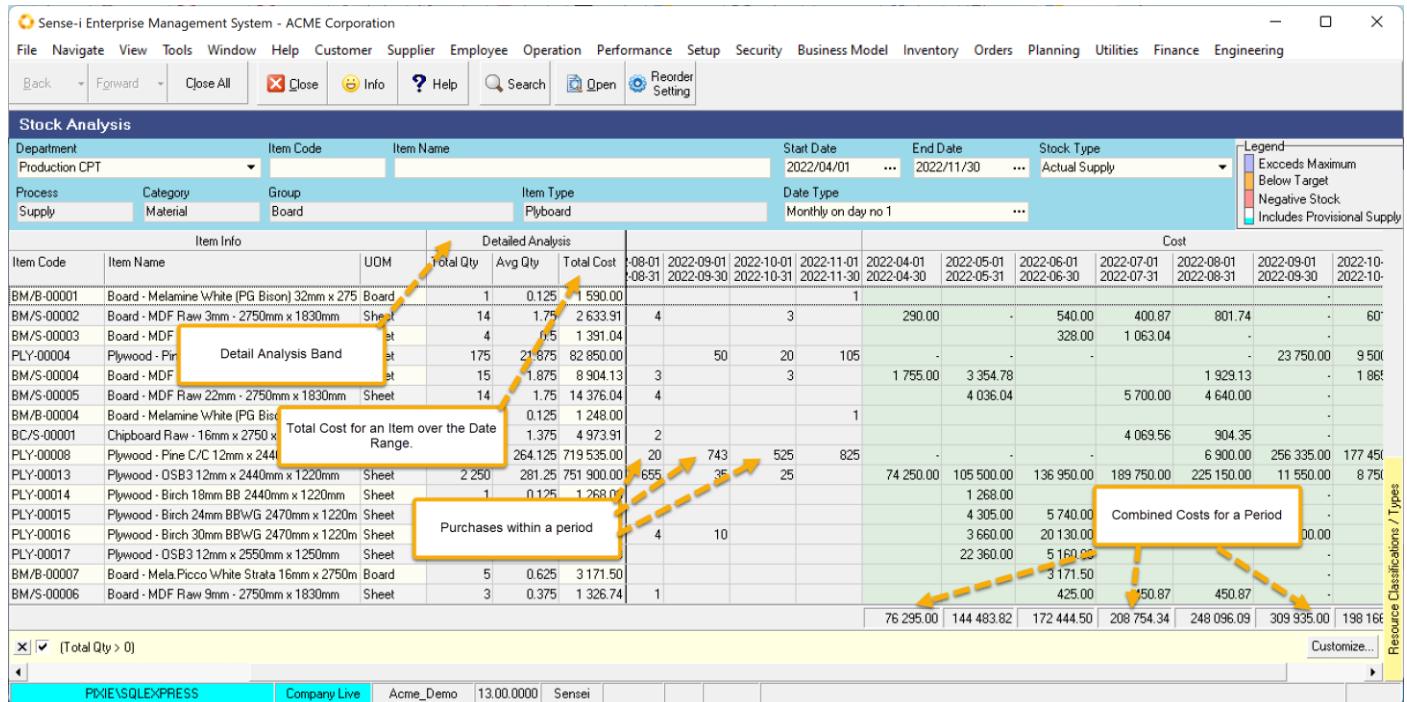
- Material Issues for September would have had an additional 2. (And added correctly to the G/L for Sept)
- Material Issues for October would have had an additional 25. (And added correctly to the G/L for Oct)
- Opening Balance on 14th November would have been 89.
- Stock Take on 14th November WOULD 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.

4.2 ACTUAL SUPPLY

Actual supply shows the **specific supply for given date periods**. IE Unlike the Actual Stock view this is not a running Balance. Once again, as actual transactions CANNOT occur in the future, choose dates in the past to view data.

Use this view to

- identify your most costly materials and resources over time.
- identify the actual supply frequency, quantity and cost value.

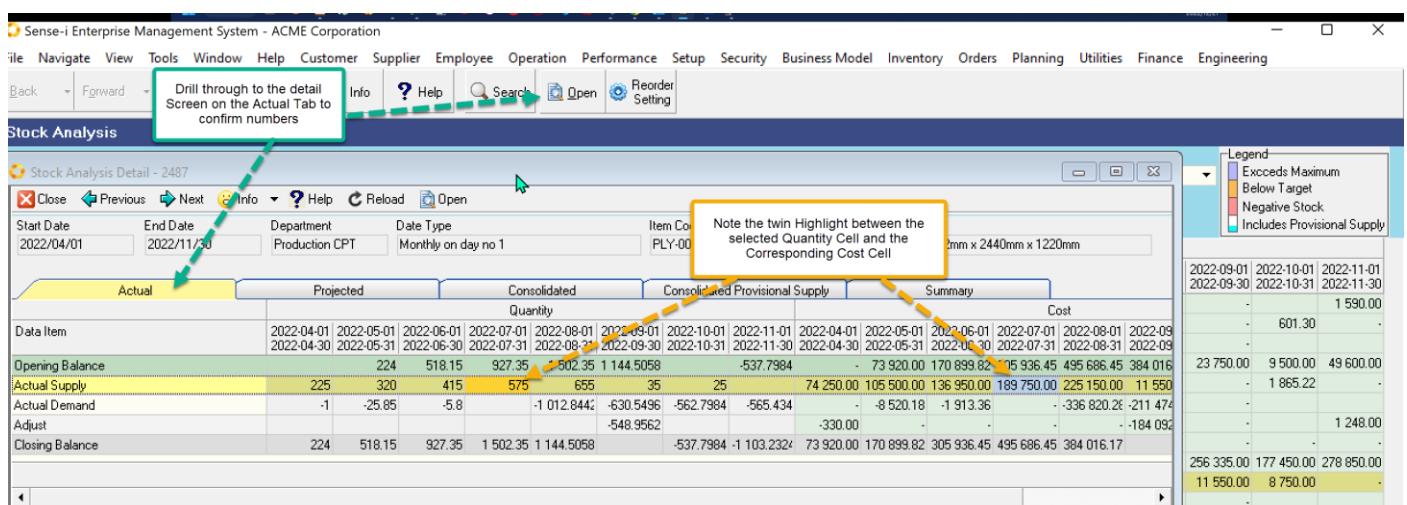


The Analysis Band Show the Total Quantity, Average Quantity and Total Cost over the given date range.

You could sort by the Total Cost to find your most expensive materials.

Also use the totals shown at the bottom of the Cost Band to see your costs per period.

- To validate the values in the grid, select a row and Click the Open Button.
- The detailed screen will pop-up. Make sure you are looking at the Actual Stock Tab/Page.



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

Sense-i Enterprise Management System - ACME Corporation

Stock Analysis

Stock Analysis Detail - 2487

Start Date: 2022/04/01 End Date: 2022/11/30 Department: Production CPT Date Type: Monthly on day no 1 Item Code: PLY-00013 Item Name: Plywood - OSB3 12mm x 2440mm x 1220mm

Item Info	Actual		Projected		Consolidated		Consolidated Provisional Supply		Summary		Cost
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Data Item	2022-06-01	2022-07-01	2022-08-01	2022-09-01	2022-10-01	2022-11-01	2022-04-01	2022-05-01	2022-06-01	2022-07-01	2022-08-01
Opening Balance	518.15	927.35	1 502.35	1 144.5058	-537.7984	-73 920.00	170 899.82	305 936.45	495 686.45		
Actual Supply	415	575	655	35	25	74 250.00	105 500.00	136 950.00	189 750.00	225 150.00	
Actual Demand	-5.8	-1 012.8442	-630.5496	-562.7984	-565.434	-8 520.18	-19 13.36	-33 680.21	-	-	

Stock Source

Stock Source - 248096

Start Date: 2022/07/01 End Date: 2022/07/31 Department: Production CPT Data Type: Actual Supply Item Code: PLY-00013 Item Name: Plywood - OSB3 12mm x 2440mm x 1220mm

Tx Type	Trx No	Department	Batch No	Due Date	Transaction Date	Stock Information		Actual Summary						
						Stock Qty	Stock Date	Unit Cost	Stock Cost	Supply Received	Demand Delivered	Actual Adjustment	Supply Order Qty	Si 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	2022/07/04 15 Actual Supply	21	2022/07/06	330.00	6 970.00	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	0	

Legend:

- Exceeds Maximum
- Below Target
- Negative Stock
- Includes Provisional Supply

Cost

2022-07-01	2022-08-01	2022-07-31	2022-08-31
00	400.87	801	
00	1 063.04		
		1 929	4 640
		904	
		6 900	
		225 150	
		7 320	
		450	
		248 096	

Resource Classifications / Types

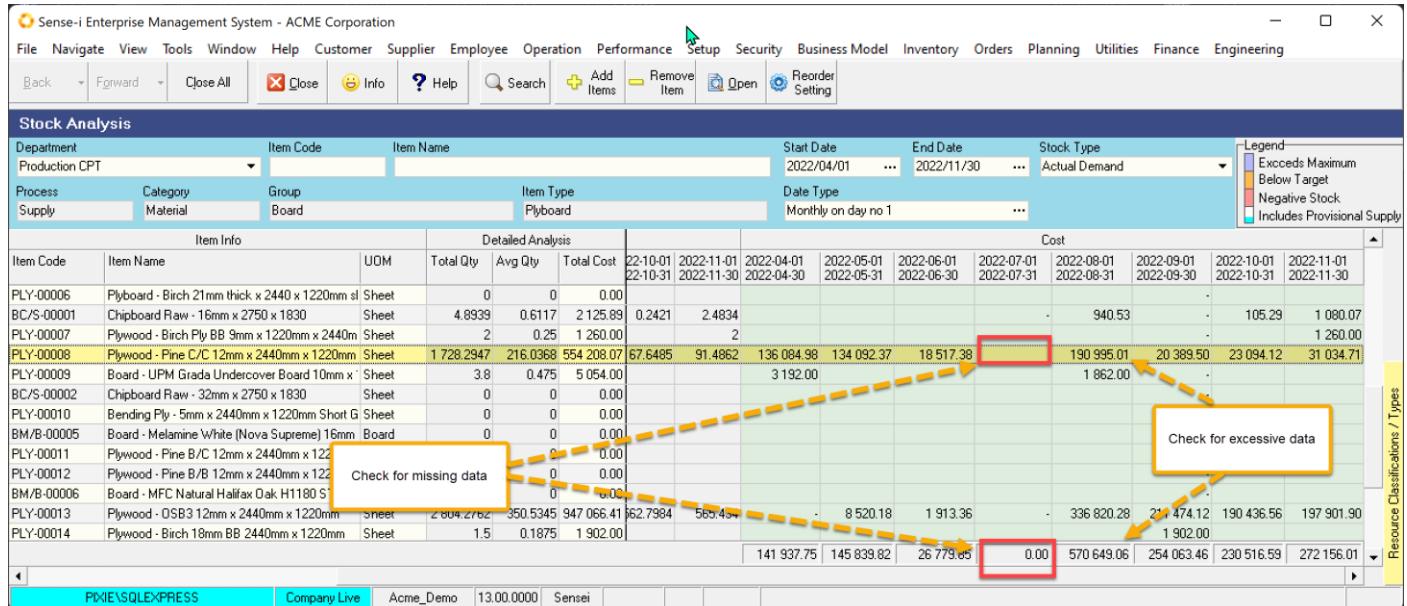
Customize...

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

4.3 ACTUAL DEMAND

Actual Demand shows the **specific demand for given date periods**. IE Unlike the Actual Stock view this is not a running Balance. Once again as actual transactions CAN NOT occur in the future, choose dates in the past to view data.

Use this view to identify your late capture of demand which will affect your general ledger and potentially corrupts your stock values as described in the Actual Stock discussion above.

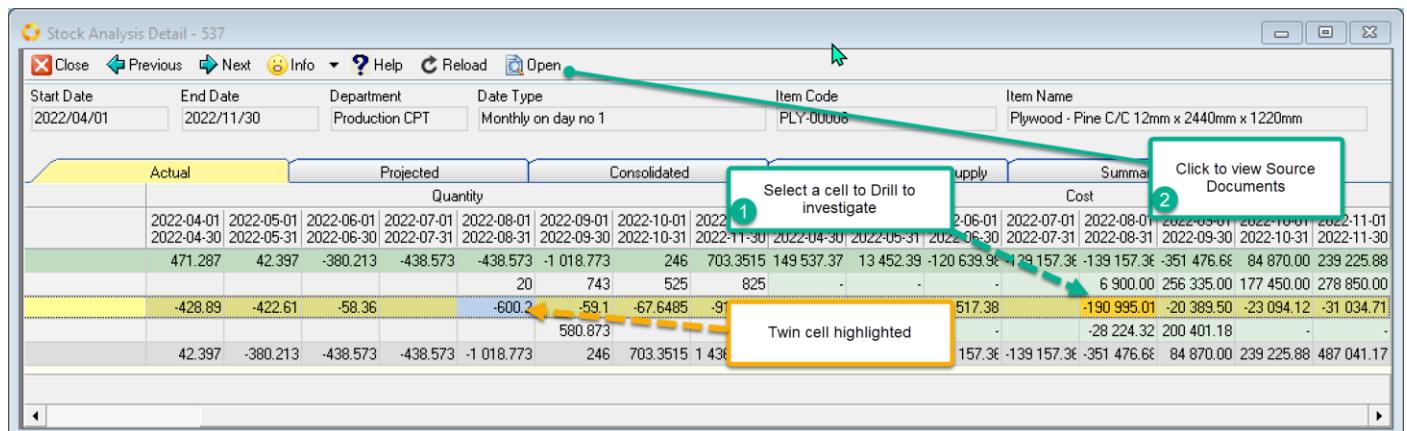


Actual Demand of commonly used materials should show a consistent pattern over time. If the total columns or specific cells show as significantly low OR high values, chances are we have late CAPTURE of demand.

We look at the excessive data following the low or missing data.

- Select the excess cell and Click Open to drill through.

The detail screen is displayed.



We further drill down to get to the list of source transactions.

- Select the cell and drill through to the source documents.

The Source transactions are listed.

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

Stock Source																			
Start Date	End Date	Department	Data Type			Item Code	Item Name												
2022/08/01	2022/08/31	Production CPT	Actual Demand			PLY-00008	Plywood - Pine C/C 12mm x 2440mm x 1220mm												
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	PO15530	Production CPT	477/1	2022/05/18	2022/08/03 11 Actual Demand	-2	2022/08/03 1*	317.30	-634.59		2								
Process Order Issue	PO15531	Production CPT	477/1	2022/05/13	2022/08/03 11 Actual Demand	-1.3	2022/08/03 1*	317.30	-412.48		1.3								
Process Order Issue	PO15532	Production CPT	477/1	2022/05/22	2022/08/03 11 Actual Demand	-21	2022/08/03 1*	317.30	-6 663.21		21								
Process Order Issue	PO15533	Production CPT	477/1	2022/05/30	2022/08/03 11 Actual Demand	-21	2022/08/03 1*	317.30	-6 663.21		21								
Process Order Issue	PO15534	Production CPT	477/1	2022/05/23	2022/08/03 11 Actual Demand	-1.3	2022/08/03 1*	317.30	-412.48		1.3								
Process Order Issue	PO15535	Production CPT	477/1	2022/05/27	2022/08/03 11 Actual Demand	-20	2022/08/03 1*	317.30	-6 345.92		20								
Process Order Issue	PO15536	Production CPT	475/1	2022/05/24	2022/08/03 11 Actual Demand	-1	2022/08/03 1*	317.30	-317.30		1								
Process Order Issue	PO15537	Production CPT	476/1	2022/05/24	2022/08/03 11 Actual Demand	-0.45	2022/08/03 1*	317.30	-142.78		0.45								
Process Order Issue	PO15540	Production CPT	477/1	2022/05/24	2022/08/03 11 Actual Demand	-1	2022/08/03 1*	317.30	-317.30		1								
Process Order Issue	PO15551	Production CPT	497/1	2022/05/31	2022/08/03 11 Actual Demand	-1	2022/08/03 1*	317.30	-317.30		1								
Process Order Issue	PO15552	Production CPT	498/1	2022/05/31	2022/08/03 11 Actual Demand	-2	2022/08/03 1*	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.

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 Info Search Reorder Setting

Stock Analysis

Department	Item Code	Item Name	Start Date	End Date	Stock Type	Legend								
Factory JHB			2022/11/01	2022/12/26	Projected Stock									
Process Supply	Category Material	Group	Item Type	Date Type										
				Weekly on Monday										
Item Code	Item Name	Analysis	Quantity											
		Has Warning	2022-11-07	2022-11-14	2022-11-21	2022-11-28	2022-12-05	2022-12-12	2022-12-19	2022-12-26	2022-11-07	2022-11-14	2022-11-21	2022-11-28
US/E-00005	Staples - 71/12 (10000/Box)	box	Late Demand											
CC/E-00112	Cushion - Back Cushion Inner with Filling - 1.1kg	ea	Late Demand											
MM/E-00186	Metal Frame - Booth Side Panel Base, Matt Black, 91cm	ea	Late Supply		8	8	8	8	8	8	8	8	367.17	367.17
FC/E-00295	Foam - Layered Seat - Cut Size - 655mm x 640mm	ea	Late Demand											
FC/E-00452	Foam - Chip 8520 - Cut Size - 990mm x 709mm	ea	Late Demand											
CC/E-00103	Leg - Corner Leg Plastic Black 144mm*	ea	Late Demand											
V7165.S	Metal Frame - COSMOS HALF CHAIR BASE FR	ea	Late Supply		1	1	1						1	323.54
FC/E-00293	Foam - 2016 - Cut Size - 640mm x 250mm x 20mm	ea	Late Demand											
SR/L-00023	Steel Tubing - 19mm x 1.2mm - Square Tubing	ea	Late Supply		6	6	6						6	703.80
FC/E-00447	Foam - Chip 8520 - Cut Size - 765mm x 709mm	ea	Late Demand		-46	-46	-46						-46	-747.50
SH/L-00003	Timber - American Ash 38mm	m3	Late Demand											
FC/E-00436	Foam - SF3016 - Cut Size - 725mm x 680mm x 11mm	ea	Late Supply		12	12	12	12	12	12	12	12	2	2808.84
FC/E-00398	Foam - SC550 - Cut Size - 1340mm x 790mm x 5mm	ea	Late Supply		8	8	8	8	8	8	8	8	8	1580.24
MM/E-00187	Metal Frame - Booth Side Panel Base, Matt Black	ea	Late Supply		15	15	15	15	15	15	15	15	15	1580.24
FMS-00036	Foam Sheet - 3012 - 2300mm x 1900mm x 140mm	ea	Late Supply											
PP/E-00005	Strapping - White Hand 12mm x 1500m	ea	Late Demand											
FC/E-00486	Foam - 2016 - Cut Size - 870mm x 115mm x 20mm	ea	Late Demand											
UF/R-00052	Fabric - COM	mt	Late Demand											
UF/R-00157	Fabric - Roll	Roll	Late Demand		-8.15	-8.15	-8.15	-8.15	-8.15	-8.15	-29.225	-29.225	-0.08	-0.08
FC/E-00357	Foam - 1.1kg	ea	Late Demand											
FC/E-00213	Foam - 1.1kg	ea	Late Demand											
FC/E-00292	Foam - 1.1kg	ea	Late Demand											
V715G.S	Metal Frame - Booth Side Panel Base, Matt Black	ea	Late Supply		2	2	2	2	2	2	2	2	663.04	663.04
														68 996.34
														79 982.29
														28 317.96
														114 275

[Has Warning = True]

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

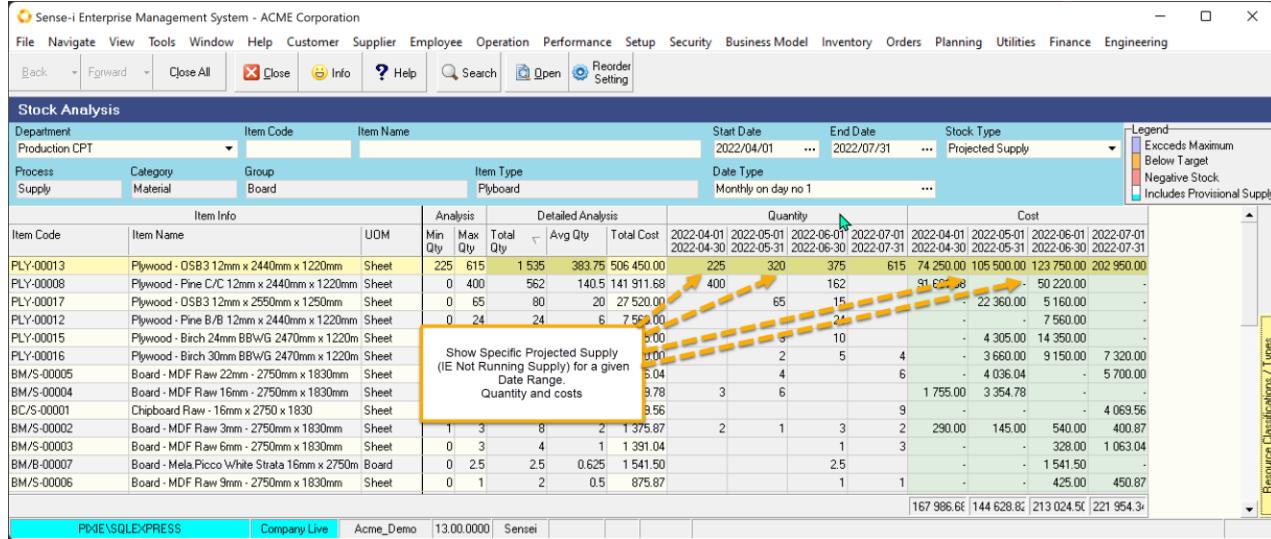
Drilling through to the details and looking at the Projected Tab we see the breakdown of the outstanding values.

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.

4.5 PROJECTED SUPPLY

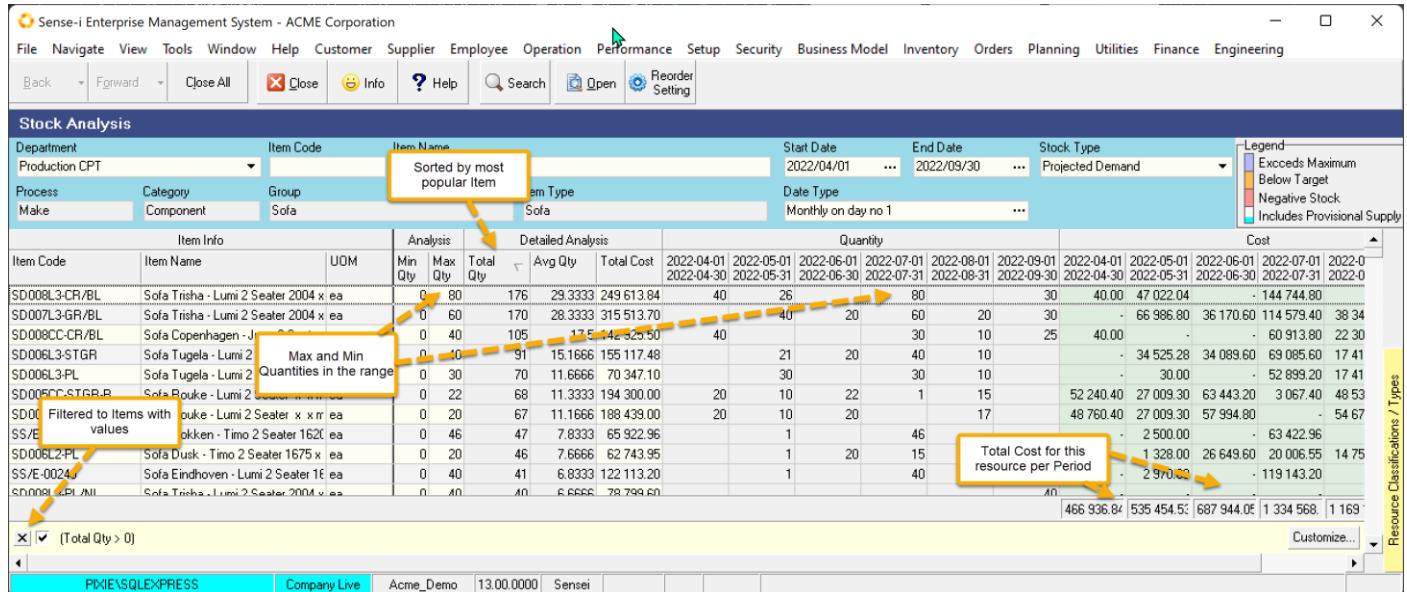
Projected Supply show you the specific supply for a given date range.



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.

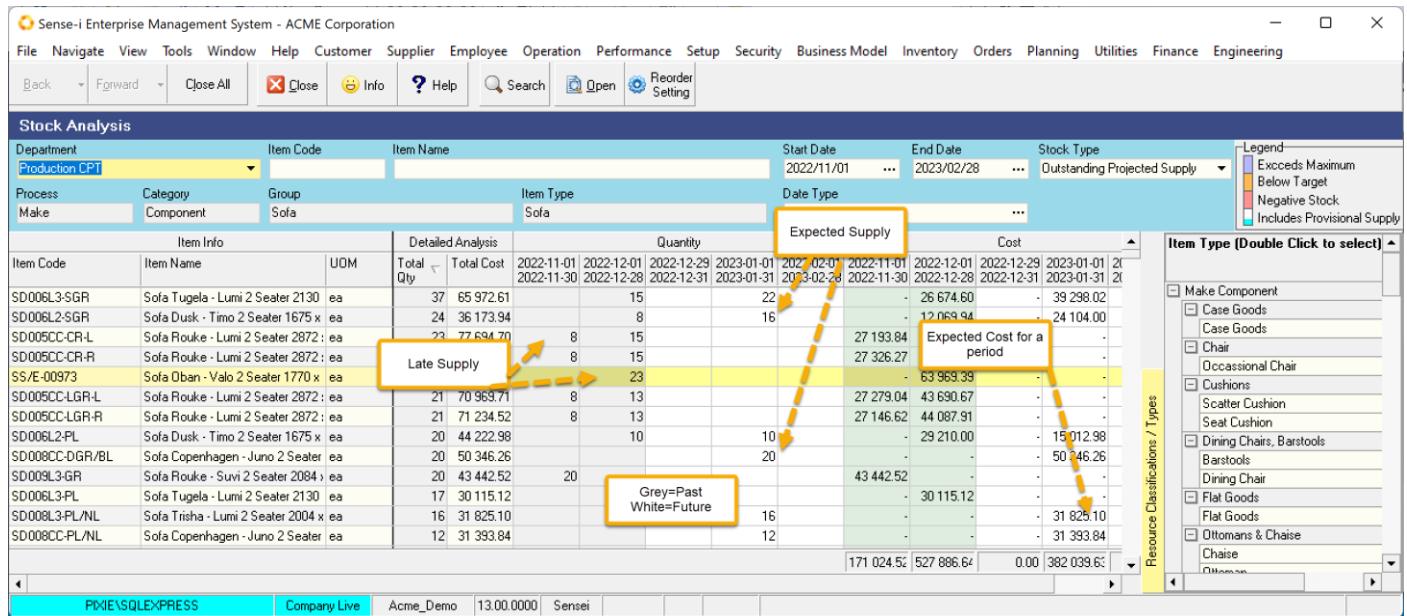


The Analysis and Detailed Analysis Bands are useful in this view as we can see the minimum, maximum, average and Total Quantities, and the Total Cost across the full range.

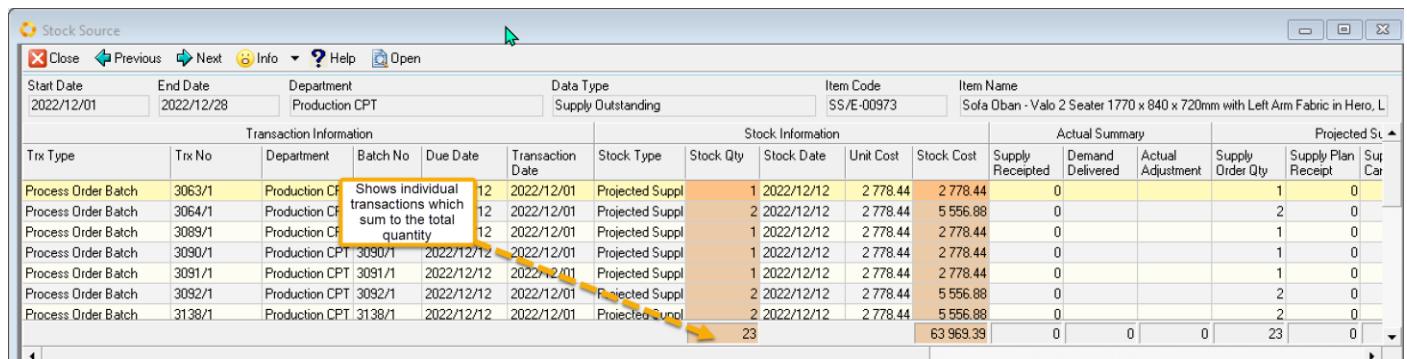
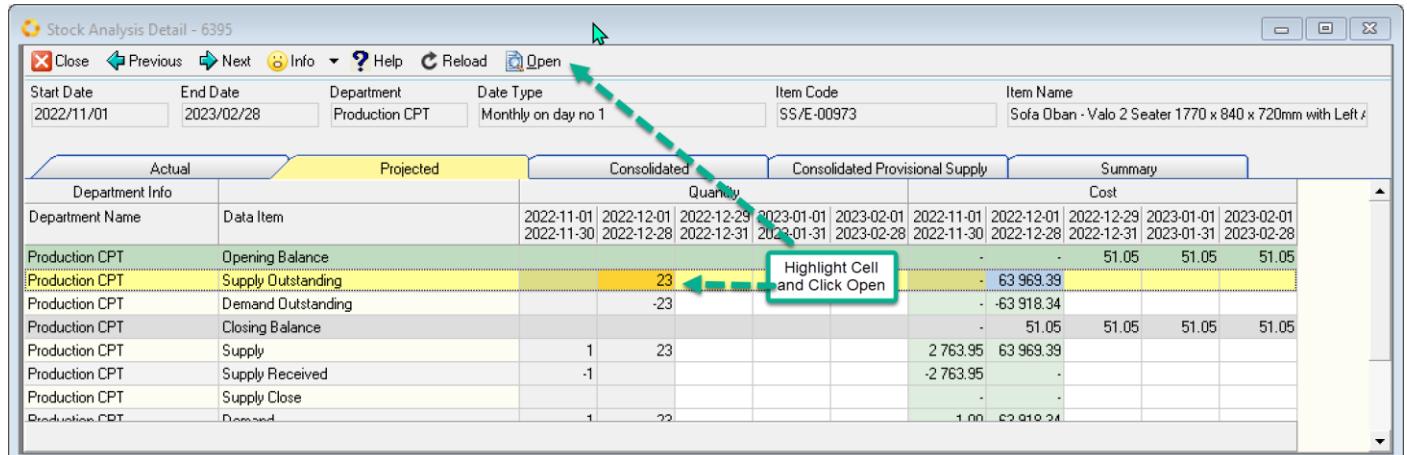
The screen above is showing finished goods (sofas) but applies also to raw materials. The materials view monthly costs can assist with future cash flow planning.

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.



Drill through to see the breakdown.



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.

Item Code	Item Name	Start Date	End Date	Stock Type
SS/E-00589	Screw - Thread Bar M8 x 140mm Stud M/S E/G ea	2022-11-01	2023-01-31	Outstanding Projected Demand
UF/R-00109	Fabric - Homeboy, Colour Lead Roll	2022-11-30	2022-12-28	Outstanding Demand
CC/E-00120	Cushion - Scatter Style Back Cushion Inner With ea	2022-11-01	2022-12-29	Outstanding Demand
UF/R-00157	Fabric - DECOFURN - Black / Velveteen, Graph Roll	2022-11-01	2022-12-31	Outstanding Demand
UF/R-00254	Fabric - THIPS - CEMERATION - Lycra / Spandex m	2022-11-01	2022-12-31	Outstanding Demand
SS/E-00171	Screw - Chip - Thread Bar M8 x 140mm Stud M/S E/G ea	2022-11-01	2022-12-29	Outstanding Demand
FC/E-00449	Foam - 2016	2022-11-01	2022-12-29	Outstanding Demand

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 timely 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.

Item Code	Item Name	Replenish Policy	Target Qty	Avg Daily Demand	Buffer Days	Order Freq Work Days	Check Stock on	Warning	Has Warning	Total Qty	Avg Qty	Total Cost	2022-11-01	2022-12-01	2022-12-29	2023-01-01	2023-01-31	2023-02-01	2023-02-28	2022-11-30	2022-12-28	2022-12-31	2023-01-28	2023-01-31	2023-02-28
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	-209.1123	209.139	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	1 328.3236	82 187.25	860.3794	1 205.8011	1 205.8011	1 017.3775	1 017.3775	17.8							
UV/R-00001	Webbing - 50% Stretch Q3	m Stock	4 478.283	497.587	2	10 Tue	Negative Stock		✓	-40 793.06	-10 198.267	-83 527.80	-2 138.042	-7 18.1046	-7 18.1046	-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	-11							
UZ/R-00002	Slider - Type 5 Black	ea Stock	716.8205	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	1 353.4622	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 - 8f	m Stock	0															5							
UF/R-00057	Fabric - Indulgence: Citrine	m Stock	0															-1.8							
US/E-00003	Spring - Z Spring 8.5 Gauge	m Stock	2.556	0.284	2	10 Tue	Below Target		✓	0	0	0.00						-8							

Use the filter to return only records with warnings.

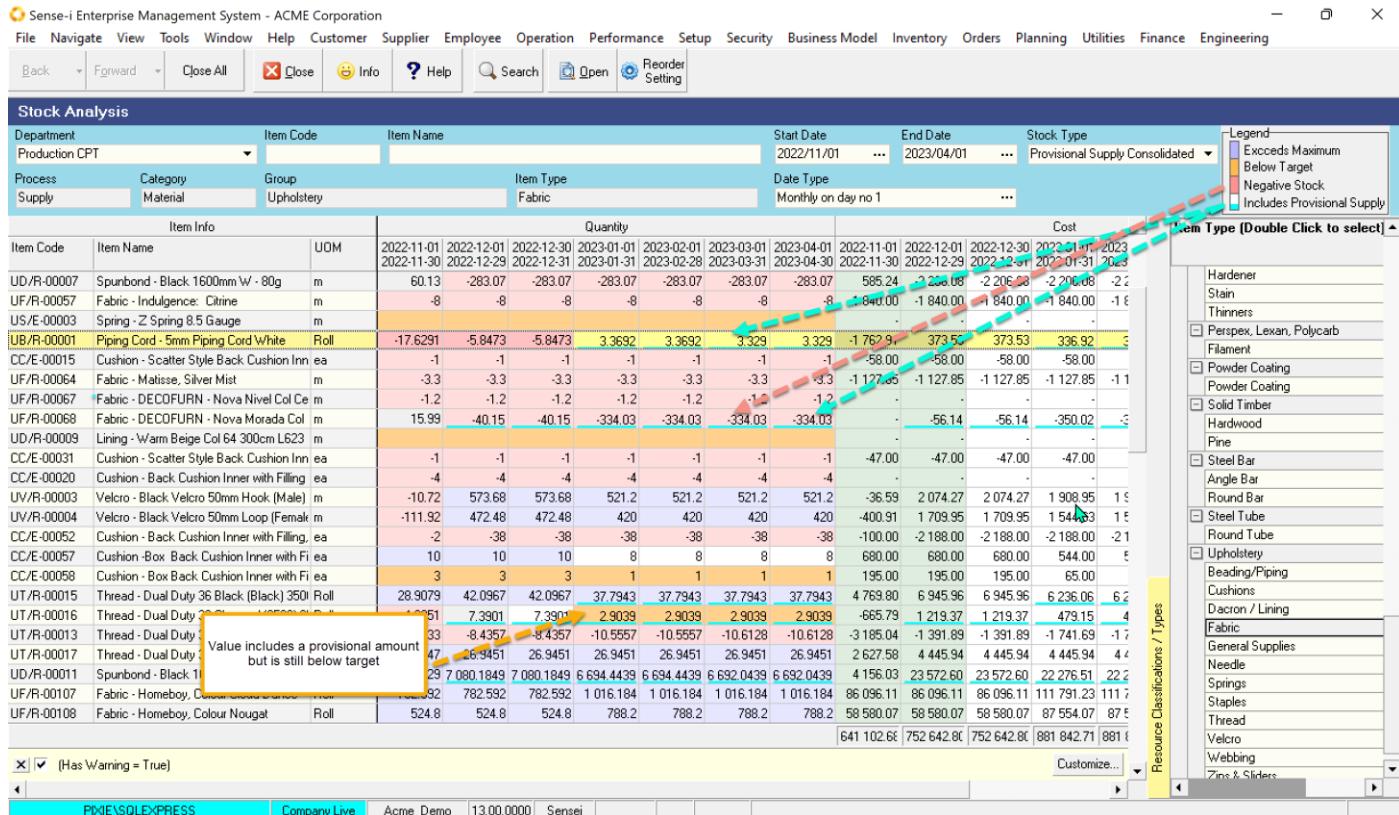
The colour coding gives a visual picture of records with warnings. Three warnings are possible. As a record can conceivably have all 3 states over the full range of dates, the warnings are displayed in the order below.

- Negative Stock
- Below Target
- Above Maximum

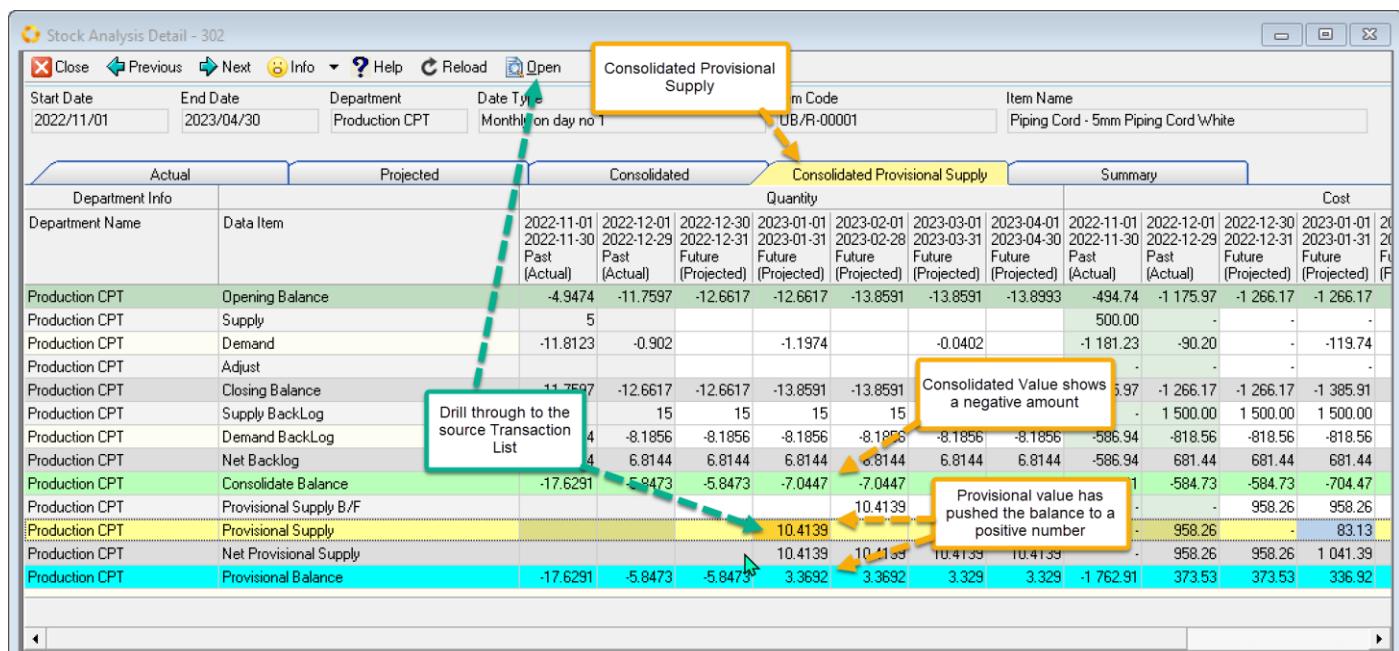
4.10 CONSOLIDATED STOCK WITH PROVISIONAL (PROJECTED) SUPPLY

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.



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



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 Sense-i Enterprise Management System interface. A yellow box highlights the 'Source List' button in the top menu bar. A green box highlights the 'Open Source Detail' button in the 'Purchase Order - PO3292' window. A red arrow points from the 'Source List' button to the 'Open Source Detail' button. Another red arrow points from the 'Open Source Detail' button to the 'Purchase Order - PO3292' window. The 'Purchase Order - PO3292' window displays transaction information, stock information, and an actual summary. The 'Stock Information' section shows a row for 'Piping Cord - 5mm Piping Cord White' with a quantity of 9.4139. The 'Actual Summary' section shows a supply received of 941.39 and a supply delivered of 941.39. The 'Projected Supply' section shows a supply order qty of 9.4139 and a supply receipt of 0. The 'Purchase Order - PO3292' window also includes tabs for Order Items, Documents, Financial Summary, and Bank Transactions. The bottom status bar shows 'PMIE\SQLEXPRESS' and 'Company Live Acme_Demo 13.00.0000 Sensei'.

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 Sense-i Enterprise Management System interface. A yellow box highlights the 'Filtered' button in the bottom left corner of the Stock Analysis window. A red arrow points from the 'Filtered' button to the 'Has Warning = True' checkbox. The Stock Analysis window displays a grid of items categorized by department, process, and item type. The 'Stock Type' dropdown is set to 'Provisional Supply'. The 'Date Type' dropdown is set to 'Monthly on day no 1'. The grid shows various items like Dacron, Webbing, Zip, Slider, Lining, Staples, and Piping Cord. For each item, it shows the item code, name, UOM, warning status, and quantity. A legend on the right indicates colors for different stock status: Exceeds Maximum (blue), Below Target (orange), Negative Stock (red), and Includes Provisional Supply (green). The bottom status bar shows 'PMIE\SQLEXPRESS' and 'Company Live Acme_Demo 13.00.0000 Sensei'.

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 timely 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

5.2 SETTING AVERAGE DAILY DEMAND BASED ON PROJECTED DEMAND

From the main menu, navigate to Inventory / Stock Analysis.

1. Select the Department

2. Set Recent Date Range.

In order to set average daily demand we should take the projected demand data from a recent period which we know has reliable up-to-date data.

3. Set the Date Type.

in order to span a couple of weeks or months change the date type to increase the span.

4. Set the Stock Type to Projected Demand.

5. Select the Resource type of interest.

Item Code	Item Name	Start Date	End Date	Stock Type
		2022/08/01	2022/12/27	Projected Demand
				Date Type
				Weekly on Monday
				Info
				Type (Double Click to select)
				Glue
				<input type="checkbox"/> Board
				<input type="checkbox"/> Chipboard - Raw
				<input type="checkbox"/> Melamine Board
				<input type="checkbox"/> Plyboard
				<input type="checkbox"/> Solid Core
				<input type="checkbox"/> Chairs & Components
				<input type="checkbox"/> Chair Components
				<input type="checkbox"/> Chair Mechanisms
				<input type="checkbox"/> Splash Components
				<input type="checkbox"/> Edging
				<input type="checkbox"/> PVC Edging
				<input type="checkbox"/> Fasteners
				<input type="checkbox"/> Dowels & Biscuits
				<input type="checkbox"/> Foam
				<input type="checkbox"/> Cut Foam
				<input checked="" type="checkbox"/> Foam Sheets
				<input type="checkbox"/> Unicurl
				<input type="checkbox"/> Legs & Feet
				<input type="checkbox"/> Couch Feet

Finally Press the Search button to return the data.

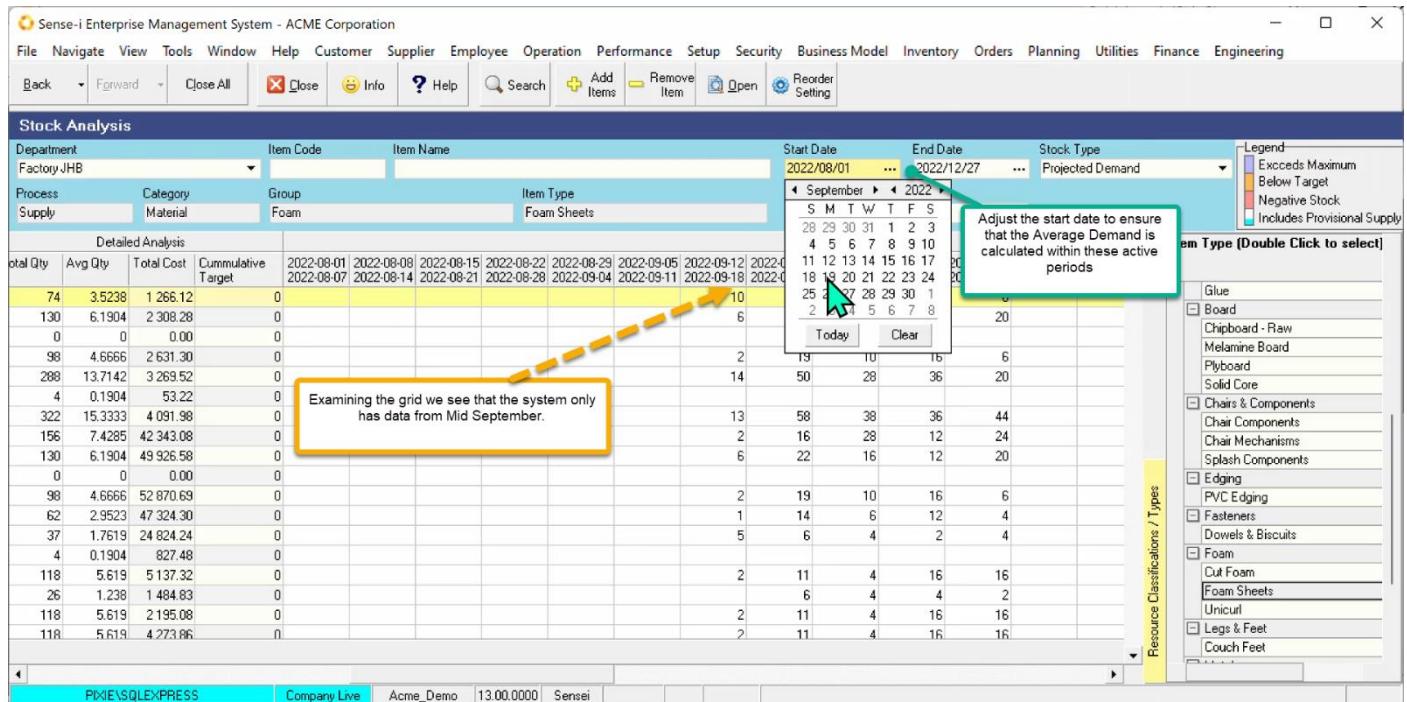
Examine the data and adjust the date range accordingly.

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



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.

Having refreshed our search we examine the Detailed Analysis Band. The Total Qty column reveals that a lot of records have no data in this range.

Item Name	UOM	Warning	Has Warning	Min	Max	Total Qty	Avg Qty	Total Cost	Cumulative Target	2022-09-19	2022-09-26
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 Wide m				0	676.71	3 063.5634	278.5057	90 957.20	0	168.278	107.386
Ball Fibre - Virgin HCS 64mm 150				0	1.2	2.05	0.1863	106.60	0	1.45	
Foam - SF40/24 - Seat Cut Size 600mm x 540m				0	0	0	0	0.00	0		
Foam - SF2016 - Back Cut Size 600mm x 470m				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 500m				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 20l ea				0	0	0	0	0.00	0		
Foam - SF2620 - Cut Size 470mm x 470mm x 50l ea				0	0	0	0	0.00	0		
Foam - SF3620 - Cut Size 715mm x 480mm x 45l ea				0	0	0	0	0.00	0		
Foam - SF3016 - Cut Size 690mm x 610mm x 15l ea				0	0	0	0	0.00	0		
Foam - SF3012 - Cut Size 690mm x 530mm x 90l ea				0	0	0	0	0.00	0		
Foam - SF3016 - Cut Size 710mm x 610mm x 15l ea				0	0	0	0	0.00	0		
Foam - SF2016 - Cut Size 1400mm x 500mm x 2l ea				0	0	0	0	0.00	0		
Foam - SF3012 - Cut Size 710mm x 530mm x 90l ea				0	0	0	0	0.00	0		

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

1 Set a Filter to hide all irrelevant rows

2 Choose Custom

Item Name	UOM	Warning	Has Warning	Min	Max	Total Qty	Avg Qty	Total Cost	Cumulative Target	2022-09-19	2022-09-26	
Foam - 2016 - Cut Size - 1212mm x 400mm x 20l ea				0	(All)	0	0	0.00	0	12	8	
Foam - 2016 - Cut Size - 1304mm x 400mm x 20l ea				0	[Custom...]	0	0	0.00	0	22	16	
Foam - 2016 - Cut Size - 1500mm x 240mm x 20l ea				0		0	0	0.00	0			
Foam - 2016 - Cut Size - 1974mm x 400mm x 20l ea				0		0	0	0.00	0			
Foam - 2016 - Cut Size - 800mm x 400mm x 20m ea				0		0	0	0.00	0			
Foam - 2016 - Cut Size - 880mm x 400mm x 20m ea				0		0	0	0.00	0			
Foam - 2016 - Cut Size - 900mm x 400mm x 20m ea				0		0	0	0.00	0			
Foam - 3012 - Cut Size - 1020mm x 720mm x 14l ea				0		0	0	0.00	0			
Foam - 3012 - Cut Size - 1144mm x 880mm x 14l ea				0		0	0	0.00	0			
Foam - 3012 - Cut Size - 1757mm x 785mm x 14l ea				0		0	0	0.00	0			
Foam - 3012 - Cut Size - 1807mm x 785mm x 14l ea				0		0	0	0.00	0			
Foam - 3012 - Cut Size - 1985mm x 1040mm x 1l ea				0		0	0	0.00	0			
Foam - 3012 - Cut Size - 2257mm x 785mm x 14l ea				0		0	0	0.00	0			
Foam - 3012 - Cut Size - 785mm x 713mm x 140r ea				0		0	0	0.00	0			
Foam - 2006 - Cut Size - 1400mm x 305mm x 60r ea				0		12	116	10 5454	5 054.22	0	11	4
Foam - 2006 - Cut Size - 1860mm x 305mm x 60r ea				0		2	26	2.3636	1 484.83	0	6	4
Foam - 2016 - Cut Size - 1400mm x 194mm x 40l ea				0		12	116	10 5454	2 157.70	0	11	4
Foam - 2016 - Cut Size - 1400mm x 380mm x 40l 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.)

Sense-i Enterprise Management System - ACME Corporation

Stock Analysis

Department	Item Code	Item Name	Start Date	End Date	Stock Type						
Factory-JHB			2022/09/19	2022/12/09	Projected Demand						
Process Supply	Category Material	Group Foam	Item Type Foam Sheets	Date Type Weekly on Monday							
Item Info			Analysis		Detailed Analysis						
Item Name	UOM	Warning	Has Warning	Min	Max	Total Qty	Avg Qty	Total Cost	Cumulative Target		
Foam - 2016 - Cut Size - 1212mm x 400mm x 20mm ea				0	8	64	5.8181	1 101.32	0	12	8
Foam - 2016 - Cut Size - 1304mm x 400mm x 20mm ea				0	8	64	5.8181	1 101.32	0	22	16
Foam - 2016 - Cut Size - 1500mm x 240mm x 20mm ea				0	10	93	8.4545	2 497.05	0	19	10
Foam - 2016 - Cut Size - 1974mm x 400mm x 20mm ea				0	10	93	8.4545	2 497.05	0	50	28
Foam - 2016 - Cut Size - 800mm x 400mm x 20mm ea				0	10	93	8.4545	2 497.05	0	58	38
Foam - 2016 - Cut Size - 880mm x 400mm x 20mm ea				0	10	93	8.4545	2 497.05	0	16	28
Foam - 2016 - Cut Size - 900mm x 400mm x 20mm ea				0	10	93	8.4545	2 497.05	0	22	16
Foam - 3012 - Cut Size - 1020mm x 720mm x 14mm ea				0	10	93	8.4545	2 497.05	0	19	10
Foam - 3012 - Cut Size - 1144mm x 880mm x 14mm ea				0	10	93	8.4545	2 497.05	0	14	6
Foam - 3012 - Cut Size - 1757mm x 785mm x 14mm ea				0	10	93	8.4545	2 497.05	0	6	4
Foam - 3012 - Cut Size - 1807mm x 785mm x 14mm ea				0	10	93	8.4545	2 497.05	0	11	4
Foam - 3012 - Cut Size - 1985mm x 1040mm ea				0	10	93	8.4545	2 497.05	0	6	4
Foam - 3012 - Cut Size - 2257mm x 785mm ea				0	10	93	8.4545	2 497.05	0	11	4
Foam - 3012 - Cut Size - 785mm x 713mm ea				0	10	93	8.4545	2 497.05	0	6	4
Foam - 2006 - Cut Size - 1400mm x 305mm ea				0	10	93	8.4545	2 497.05	0	11	4
Foam - 2006 - Cut Size - 1860mm x 305mm x 40mm ea				0	10	93	8.4545	2 497.05	0	6	4
Foam - 2016 - Cut Size - 1400mm x 194mm x 40mm ea				0	10	93	8.4545	2 497.05	0	11	4
Foam - 2016 - Cut Size - 1400mm x 380mm x 40mm ea				0	10	93	8.4545	2 497.05	0	11	4

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

Item Type [Double Click to select]

- Glue
- Board
- Chipboard - Raw
- Melamine Board
- Plyboard
- Solid Core
- Chairs & Components
- Chair Components
- Chair Mechanisms
- Splash Components
- Edging
- PVC Edging
- Fasteners
- Dowels & Biscuits
- Foam
- Cut Foam
- Foam Sheets
- Unicurl
- Legs & Feet
- Couch Feet

Resource Classifications / Types

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.

Sense-i Enterprise Management System - ACME Corporation

Stock Analysis

Department	Item Code	Item Name	Start Date	End Date	Stock Type												
Factory-JHB			2022/09/19	2022/12/09	Projected Demand												
Process Supply	Category Material	Group Foam	Item Type Foam Sheets	Date Type Weekly on Monday													
Detailed Analysis			Quantity														
Min	Max	Total Qty	Avg Qty	Total Cost	Cumulative Target	2022-09-19	2022-09-26	2022-10-03	2022-10-10	2022-10-17	2022-10-24	2022-10-31	2022-11-07	2022-11-14	2022-11-21	2022-11-28	
0	8	64	5.8181	1 101.32	0	12	8	4	8	10	8	10	8	18	19	16	6
0	10	123	11.1818	2 184.17	0	22	16	12	20	7	5	11	4	18	19	16	6
0	9	93	8.4545	2 497.05	0	19	10	16	6	10	4	11	4	16	6	40	28
0	20	268	24.3636	3 037.34	0	50	28	36	20	34	16	40	28	18	19	16	6
0	2	4	0.3636	53.22	0					2		2		2		2	
0	24	306	27.8181	3 887.92	0	58	38	36	44	20	12	44	42	24	28	18	19
0	16	153	13.9093	41 528.79	0	16	28	12	24	12	5	24	28	16	6	40	28
0	10	123	11.1818	47 254.36	0	22	16	12	20	7	5	18	19	16	6	40	28
0	9	93	8.4545	49 996.73	0	19	10	16	6	10	4	16	6	16	6	40	28
0	8	60	5.4545	45 797.70	0	14	6	12	4	6	2	8	4	8	4	2	4
0	4	32	2.909	21 550.04	0	6	4	2	4	5	4	2	4	2	4	2	4
0	2	4	0.3636	827.48	0					2		2		2		2	
				10.5454	0 504.22	0	11	4	16	16	8	9	26	16	16	16	16
				2.3636	1 484.83	0	6	4	4	2	4	1	2				
				10.5454	2 157.70	0	11	4	16	16	8	9	26	16	16	16	16
				10.5454	4 200.66	0	11	4	16	16	8	9	26	16	16	16	16

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

Item Type [Double Click to select]

- Glue
- Board
- Chipboard - Raw
- Melamine Board
- Plyboard
- Solid Core
- Chairs & Components
- Chair Components
- Chair Mechanisms
- Splash Components
- Edging
- PVC Edging
- Fasteners
- Dowels & Biscuits
- Foam
- Cut Foam
- Foam Sheets
- Unicurl
- Legs & Feet
- Couch Feet

Resource Classifications / Types

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

The screenshot shows the Sense-i Enterprise Management System interface with the following details:

- Top Navigation Bar:** File, Navigate, View, Tools, Window, Help, Customer, Supplier, Employee, Operation, Performance, Setup, Security, Business Model, Inventory, Orders, Planning, Utilities, Finance, Engineering.
- Toolbar:** Back, Forward, Close All, Close, Info, Help, Search, Add Items, Remove Item, Open, Reorder Setting.
- Current Window:** Stock Analysis.
- Left Panel:** Bulk Target/Replenish Settings. It includes fields for Replenish Policy (<NO CHANGE>), Target Qty Setting (<NO CHANGE>), Average Daily Demand Setting (<NO CHANGE>), Set from Projected Demand History (highlighted with a green box and circled 1), Set Order Frequency, and Set Order Buffer Days.
- Middle Panel:** A grid showing stock analysis. The columns include Type, Sheets, UUM, Warning, Has Warning, Min, Max, and Total Qty. A note box states: "Note: There are 6 settings. We are only going to set the Average Daily Demand. The remaining items are left as <NO CHANGE>".
- Right Panel:** Legend and Item Type (Double Click to select). The legend indicates:
 - Exceeds Maximum (Blue)
 - Below Target (Orange)
 - Negative Stock (Red)
 - Includes Provisional Supply (Green)The item type list includes:
 - Sofa (Sofa, Sofa)
 - Supply Material (Adhesives, Glue)
 - Board (Chipboard - Raw, Melamine Board, Plyboard, Solid Core)
 - Chairs & Components (Chair Components, Chair Mechanisms, Splash Components)
 - Edging (PVC Edging)
 - Fasteners (Dowels & Biscuits)
 - Foam (Cut Foam, Foam Sheets, Uncurl)
 - Legs & Feet (Couch Feet)
 - Metal (Metal Frame, Steel Tube)
- Bottom Panel:** Filter bar with "(Total Qty > 0) and (2022-10-10 <= Date <= 2022-10-16)" and a Customize... button.

Annotations in the screenshot:

- 1: Points to the "Set from Projected Demand History" dropdown in the Bulk Target/Replenish Settings panel.
- 2: Points to the "Selected Rows are shown in Yellow" message in the grid.
- 3: Points to the "Click Apply" button in the grid.

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 Info 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

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

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

Reorder Info Item Info Analysis

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 20mm ea			0	8	62	
0	2.38				FC/E-00213	Foam - 2016 - Cut Size - 1304mm x 400mm x 20mm ea			0	10	115	
0	1.74				FC/E-00219	Foam - 2016 - Cut Size - 1974mm x 400mm x 20mm ea			0	9	87	
0	5.04				FC/E-00218	Foam - 2016 - Cut Size - 800mm x 400mm x 20mm ea			0	20	252	
0	5.88				FC/E-00212	Foam - 2016 - Cut Size - 900mm x 400mm x 20mm ea			0	24	294	
0	2.98				FC/E-00328	Foam - 3012 - Cut Size - 1020mm x 720mm x 14mm ea			0	16	145	
0	2.38				FC/E-00214	Foam - 3012 - Cut Size - 1144mm x 880mm x 14mm ea			0	10	115	
0	1.74				FC/E-00220	Foam - 3012 - Cut Size - 1807mm x 795mm x 14mm ea			0	9	87	
0	1.12				FC/E-00286	Foam - 3012 - Cut Size - 1985mm x 1040mm x 1mm ea			0	8	56	
0	0.62				00225	Foam - 3012 - Cut Size - 2257mm x 795mm x 14mm ea			0	4	31	
0	2.12				00312	Foam - 2006 - Cut Size - 1400mm x 305mm x 60mm ea			0	12	108	
0	0.46				00305	Foam - 2006 - Cut Size - 1860mm x 305mm x 60mm ea			0	2	23	
0	2.12				00310	Foam - 2016 - Cut Size - 1400mm x 194mm x 40mm ea			0	12	108	
0	2.12				FC/E-00309	Foam - 2016 - Cut Size - 1400mm x 380mm x 40mm ea			0	12	108	
0	3.08				FC/E-00301	Foam - 2016 - Cut Size - 1601mm x 190mm x 40mm ea			0	16	154	
0	0.46				FC/E-00303	Foam - 2016 - Cut Size - 1860mm x 194mm x 40mm ea			0	2	23	
0	0.46				FC/E-00302	Foam - 2016 - Cut Size - 1860mm x 380mm x 40mm ea			0	2	23	
0	5.68				FC/E-00313	Foam - 2016 - Cut Size - 903mm x 380mm x 40mm ea			0	32	294	
0	2.12				FC/E-00311	Foam - Layered Seat - Cut Size - 1400mm x 650mm ea			0	12	108	
0	0.46				FC/E-00304	Foam - Layered Seat - Cut Size - 1860mm x 650mm ea			0	2	23	
0	1.42				FC/E-00314	Foam - Layered Seat - Cut Size - 863mm x 863mm ea			0	8	71	
0	52.1753				FMS-00016	Foam Replacement - 12mm x 1500mm Wide mm			0	676.71	2 608.7645	
0	0.044				FMS-0023	Foam Sheet - 2016 - 2300mm x 1900mm x 20mm ea			0	1.1289	2 1993	

(Total Qty > 0) and (2022-10-10 <= 2022-10-16)

Resource Classifications / Types

- Sofa
 - Sofa
 - Sofa
 - Sofa Components
- Supply Material
 - Adhesives
 - Glue
- Board
 - Chipboard - Raw
 - Melamine Board
 - Plyboard
 - Solid Core
- Chair & Components
 - Chair Components
 - Chair Mechanisms
 - Splash Components
- Edging
 - PVC Edging
- Fasteners
 - Dowels & Biscuits
- Foam
 - Cut Foam
 - Foam Sheets
 - Unicurl
- Legs & Feet
 - Couch Feet
- Metal
 - Metal Frame
 - Steel Tube

Customize...

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

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

Click Search Button to return data.

The screenshot illustrates the Stock Analysis screen in the Sense-i system. The top navigation bar includes options like File, Navigate, View, Tools, Window, Help, Customer, Supplier, Employee, Operation, Performance, Setup, Security, Business Model, Inventory, Orders, Planning, Utilities, Finance, and Engineering. The main area displays a grid of items with columns for Department, Item Code, Item Name, Start Date, End Date, and Stock Type. A legend on the right defines four categories: Exceeds Maximum (blue), Below Target (orange), Negative Stock (red), and Includes Provisional Supply (green). On the left, a sidebar provides additional filtering options, including 'Set Additional Filters (Optional)' with three numbered steps: 1. Multi-Select, 2. Click Reorder Setting, and 3. Resource of interest. A large orange box labeled 'Additional search criteria' covers the top right of the grid. A legend on the right lists various item types like Panels / Dividers, Sofa, Supply Material, etc. The bottom status bar shows the connection is PME\SQLEXPRESS and the company is Acme_Demo.

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

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

The screenshot shows the Sense-i Enterprise Management System interface. The main window is titled 'Stock Analysis' and displays a grid of items with columns for Item Code, Item Name, UOM, and Warning status. A legend on the right indicates stock types: Exceeds Maximum (purple), Below Target (orange), Negative Stock (red), and Includes Provisional Supply (light blue). A sidebar on the right lists item types like Panels / Dividers, Sofa, Supply Material, etc. A modal dialog titled 'Bulk Target/Replenish Settings Populate - No Record' is open, showing settings for 'Replenish Policy' such as 'To Stock', 'Target Qty Setting' (set to 'Generate Target'), and 'Average Daily Demand Setting' (set to '<NO CHANGE>'). A callout box points to the 'Set Properties you want to change' section in the dialog. Another callout box contains a lightbulb icon and text: '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'. At the bottom of the dialog, there is a note '(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.

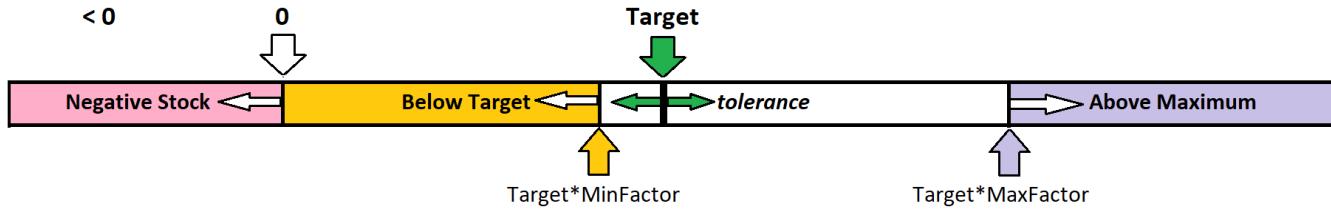
- Average Daily Demand
- Reorder Frequency
- Buffer days

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.

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 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

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.

The screenshot shows the Sales Order - SO2085 interface. The 'Replenish Tab' is highlighted with a yellow box. The 'Multi-select records' button is highlighted with a green box. The 'Populate Reorder Qty' and 'Copy Outstanding to Reorder Qty' buttons are highlighted with a blue box. A red box highlights the 'Derived Supplier' information in the grid.

Item Code	Item Name	Item Type	Order Qty	Outstand Qty	Provisional Supply	Need	Action Required	Qty to Order	Supplier	Result	Is Predicted	Material Summary	Material State	Provisional Qty	Available Active Qty
SD008L3-PL/NL	Sofa Trisha - Lumi 2 Seater 2004 x 80cm Sofa		4	4	-	4	Negative Stock - Order		Factory JHB						
SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 80cm Occasion		2	2	-	2	Negative Stock - Order		Factory JHB						
SD008AC-	Armchair 80cm Occasion		4	4	-	4	Negative Stock - Order		Factory JHB						
SD006L2-	Starter 1675 x 80cm Sofa		4	4	-	4	Negative Stock - Order		Factory JHB						
SD006L3-	Corner 200cm Sofa		6	6	-	6	Negative Stock - Order		Factory JHB						

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.

This screenshot shows the 'Sales Order - SO2085' window. The 'Replenish' tab is active. A yellow box highlights the 'Qty to Order' field in the first row of the grid, with the note: 'Once we have a value in the Qty to order we can Generate'. A green arrow points from this box to the 'Generate Orders' button, which is highlighted with a green circle and labeled '4 Click Generate Orders'. Another yellow box highlights the 'Generated orders show in the grid' message. The grid below shows several sales order items being converted into process orders. The columns include Item Information, Replenish Materials, Materials, Stage Progress, Financial Summary, and Bank Transactions. The 'Replenished Qty' column shows the quantity generated for each item.

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*

This screenshot shows the same 'Sales Order - SO2085' window. The 'Linked Orders Actions' button is highlighted with a green arrow and labeled '5 Click Linked Order Action and Activate Linked Orders'. A yellow box highlights the note: 'Note the material state is unpredicted prior to activating the Process Order. This means'. A context menu is open at the top right, showing options: 'Activate Linked Orders' (highlighted with a green arrow), 'Deactivate Linked Orders', 'Delete Linked Orders', and 'Unschedule Item'.

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

Sales Order - SO2085

Owner Dept: FactoryJHB Customer: Kiehn, Schroeder and Raynor Account Code: KIE0061 Status: Active Transaction No.: SO2085

Transaction Date: 2022/12/22 Due Date: 2022/12/28 Shipping Date: 2022/12/28 Terms: System - 5 Days

Deliver To: Customer: Decofurn Jhb 167 Hansons Junction Contact Person: Devillers, Douglas Telephone Number: (509) 8628004 Customer Reference:

Postal Code: 3970 Representative: Exch. Rate Cover: Edited By: Sensei Last Edited: 2022/12/22 Identity: 20006

Replenish Materials

Item Information		Reorder Information			Materials			Stage Progress			Financial Summary			Bank Transactions			Replenished Order		
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 200x80cm	Sofa	4	0	4	Factory JHB	1 Activated.	Expected	✓	-	-	4	2022/12/28	3299/1	Process Batch	Active	Factory JHB		
SD008AC-CR/B/L	Chair Eindhoven - Lumi Armchair 80x80cm Occasionale	Chair	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 80x80cm Occasionale	Chair	4	0	4	Factory JHB	1 Activated.	Expected	✓	-	-	4	2022/12/28	3300/1	Process Batch	Active	Factory JHB		
SD006L2-SGR	Sofa Dusk - Timo 2 Seater 1675x80cm Sofa	Sofa	4	0	4	Factory JHB	1 Activated.	Expected	✓	-	-	4	2022/12/28	3299/1	Process Batch	Active	Factory JHB		
SD006L3-SGR	Sofa Tugela - Lumi 2 Seater 2130cm Sofa	Sofa	6	0	6	Factory JHB	1 Activated.	Expected	✓	-	-	6	2022/12/28	3300/1	Process Batch	Active	Factory JHB		

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. At the top, there are tabs for 'Order items', 'Documents', 'Gross Profit', 'Replenish', 'Replenish Materials' (which is highlighted), 'Materials', 'Stage Progress', 'Financial Summary', and 'Bank Transactions'. In the 'Replenish Materials' tab, there is a section labeled 'Default Supplier' with a dropdown menu. A yellow box highlights the 'Replenish Materials Tab' and the 'Default Supplier' dropdown. A green box with a mouse cursor arrow points to the dropdown menu with the text 'Click on drop down to change default Supplier'.

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 screenshot shows the 'Supplied By' dialog box. It has a toolbar with 'Close', 'Previous', 'Next', 'Info', 'Help', 'Select', and 'Set Preferred' buttons. Below the toolbar is a table with columns: Item Code, Item Name, Item Status, Get Cost, Target Lead, and a status bar. A green box with a mouse cursor arrow points to the 'Select' button with the text 'Choose another supplier if needed'. Another green box with a mouse cursor arrow points to the 'Click Select' button. A red arrow points from the 'Supplier' column of the table to the 'Supplier' column of the 'Select' button.

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.

Process Order Number		Department	Item Code	Order Qty	Status																																																																																																																																																												
3303		Factory JHB	SD006L3-SGR	6	Active																																																																																																																																																												
Item Name Sofa Tugela - Lumi 2 Seater 2130 x 873 x 846mm with No Arm Fabric in Homeboy, Pigeon, with Polyester Fibre Fill 1 Back Cushion with Superior & Sustainable 1 Seat Cushion + Chaise, on Plinth Base - Pine - 50mm																																																																																																																																																																	
Process Model No	Process Manager		Due Date	Scheduled Start Date	Max Batch Size																																																																																																																																																												
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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.

Bulk Replenish Orders									
Transaction No.	Owner Dept	Customer	Due Date From	To Date	Replenished Order				
Transaction No.	Transaction Date	Department	Item Code	Item Name	In Qty	Reorder Information	Materials	Replenished Qty	Replenished Order
S01823	2022/11/03	2023/01/13	Production CPT	SD008AC-CR/F	1	The Supplier Column gives us an indication of the type of order that this will generate.	Production CPT	Expected	
S01823	2022/11/03	2023/01/13	Production CPT	SD008CC-DGR	1	Source Factory replenish to same Factory. This will be a Process order.	Production CPT	Expected	
S01823	2022/11/03	2023/01/13	Production CPT	SD006L2-SCP	1	Source Factory replenish to same Factory. This will be a Process order.	Production CPT	Expected	
S01823	2022/11/03	2023/01/13	Production CPT	SD006L2-SCP	1	Source Factory replenish to same Factory. This will be a Process order.	Production CPT	Expected	
S01864	2022/11/09	2023/01/20	Splash Showroom	SS/E-00427	a	Source Showroom replenish to Factory. This will be an Internal order.	Production CPT	Expected	
S01864	2022/11/09	2023/01/20	Splash Showroom	SS/E-00570	b	Source Showroom replenish to Factory. This will be an Internal order.	Production CPT	Expected	
S01864	2022/11/09	2023/01/20	Splash Showroom	SS/E-00571	c	Source Showroom replenish to Showroom. No process model it would seem and no external supplier	Production CPT	Expected	
S01872	2022/11/10	2023/01/20	Lounge Lizard Sr	SS/E-00432	d	Source Showroom replenish to Showroom. No process model it would seem and no external supplier	Factory JHB	N/A	1 2023/01/20 IO522
S01872	2022/11/10	2023/01/20	Lounge Lizard Sr	OD/E-00042	e	Source Showroom replenish to Showroom. No process model it would seem and no external supplier	Factory JHB	N/A	1 2023/01/20 IO522
S01872	2022/11/10	2023/01/20	Lounge Lizard Sr	OD/E-00040	f	Source Showroom replenish to Showroom. No process model it would seem and no external supplier	Factory JHB	N/A	2 2023/01/18 IO552
S01913	2022/11/17	2023/01/20	Timba Trade	SS/E-00633	g	Source Showroom replenish to Showroom. No process model it would seem and no external supplier	Factory JHB	N/A	2 2023/01/18 IO552
S01913	2022/11/17	2023/01/20	Timba Trade	CO/E-00028	h	Source Showroom replenish to Showroom. No process model it would seem and no external supplier	Factory JHB	N/A	4 2023/01/18 IO552
S01913	2022/11/17	2023/01/20	Timba Trade	CO/E-00028	i	Source Showroom replenish to Showroom. No process model it would seem and no external supplier	Factory JHB	N/A	4 2023/01/18 IO552

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

Transaction No.	Owner Dept.	Customer	Due Date From	To Date	Item Information	Replenished Qty	Replenished Order
SO1864	2022/11/09	2023/01/20	Active	Splash Showroom	SS/E-00427	Sofa Copenhagen - Timo 2 Seater 2 Sofa	
SO1949	2022/11/21	2022/12/15	Active	Splash Showroom	AA/E-00012	Fabric Protection Spray (Ceramic P. Accessories)	
SO1840	2022/11/07	2022/12/05	Active	Splash Showroom	CO/E-00350	Chair Dusk - Juno Armchair 900 x 8C Occassional	
SO1864	2022/11/09	2023/01/20	Active	Splash Showroom	SS/E-00570	Sofa Dusk - Juno 2 Seater 1320 x 91 Sofa	
SO1864	2022/11/09	2023/01/20	Active	Splash Showroom	SS/E-00571	Sofa Trisha - Juno 2 Seater 600 x 91 Sofa	
SO1912	2022/11/17	2022/12/15	Active	Splash Showroom	SS/F-00661	Sofa Copenhagen - Malin 2 Seater 1.5 Sofa	

Filter Search to only show unreplenished orders

(Order No = blank)

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

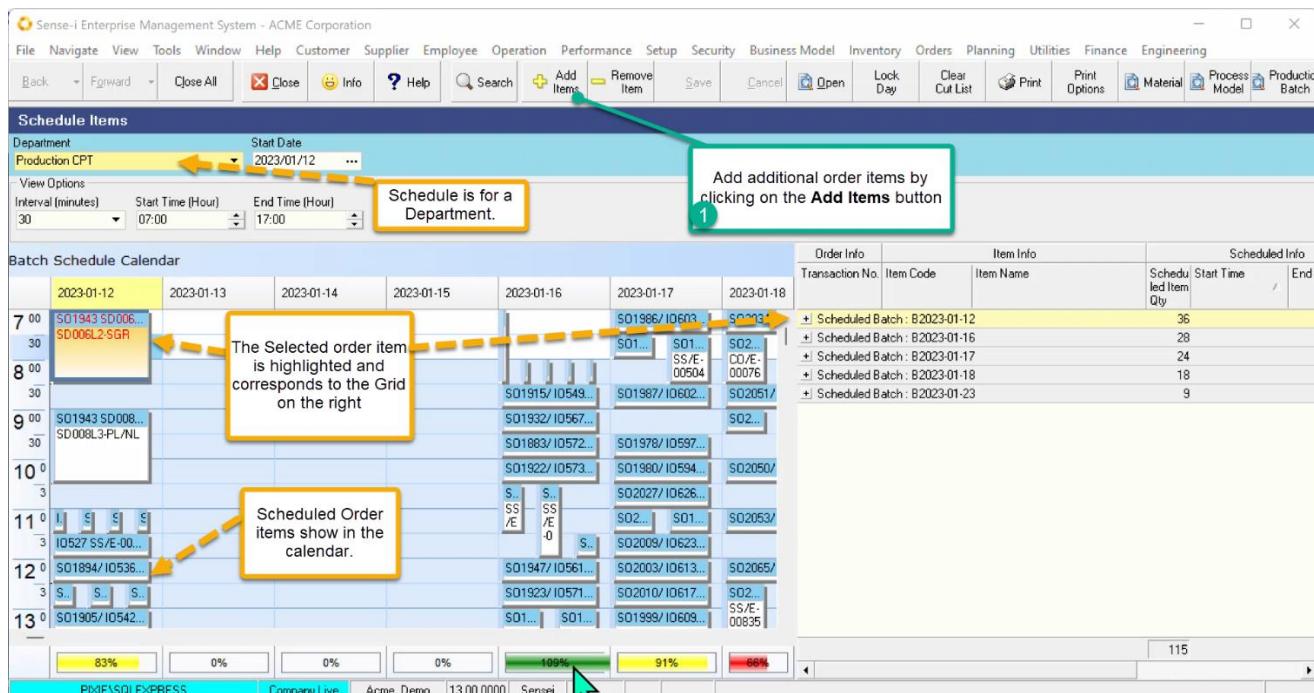
If you replenish to process order prior to scheduling, the system will determine a scheduled date and place the job in the calendar. In order to schedule the jobs yourself, you would need to schedule the items first and then Replenish by generating the Process Orders.

Navigate to Operation > Schedule Order Items.

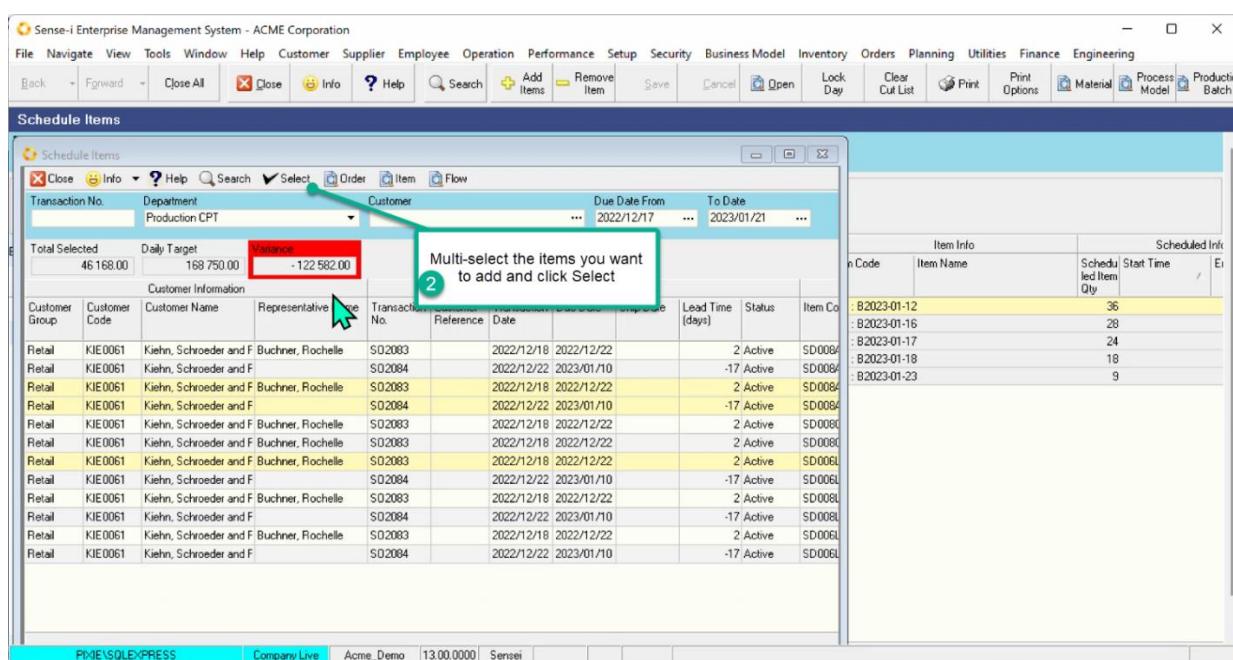
Select the department and the Starting date before Searching.

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.

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				Order Info	Item Info	Scheduled Info				
	2023-01-12	2023-01-13	2023-01-14	2023-01-15	Transaction No.	Item Code	Item Name	Scheduled Item Qty	Start Time	End Time
7:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SO2083	SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 8	20	2023/01/12 07:30	2023/01/12 08:00
8:00	SD006L2-SGR	SD006L2-SGR	SD006L2-SGR	SD006L2-SGR	SO2084	SD006L2-SGR	Chair Eindhoven - Lumi Armchair 8	36	2023/01/12 08:07	2023/01/12 08:44
9:00	SD006L2-SGR	SD006L2-SGR	SD006L2-SGR	SD006L2-SGR	SO2083	SD006L2-SGR	Sofa Dusk - Timo 2 Seater 1675 x	8	2023/01/12 08:44	2023/01/12 08:52
10:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	+ Scheduled Batch : B2023-01-12			28		
11:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	+ Scheduled Batch : B2023-01-16			24		
12:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	+ Scheduled Batch : B2023-01-17			18		
13:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	+ Scheduled Batch : B2023-01-18			9		
					+ Scheduled Batch : B2023-01-23					

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3. Move the items to the preferred date and time.

4. Click Save

Schedule Items

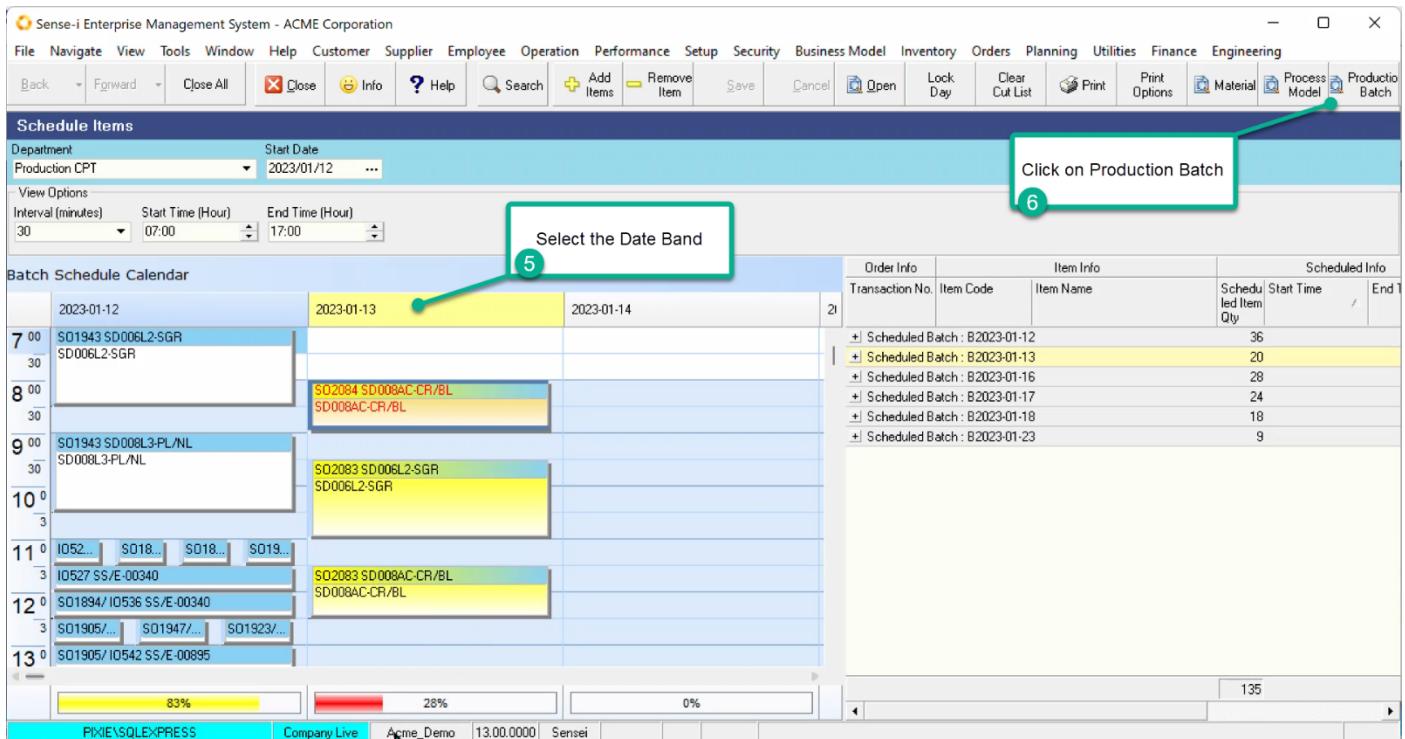
Department: Production CPT Start Date: 2023/01/12

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

Batch Schedule Calendar				Order Info	Item Info	Scheduled Info				
	2023-01-12	2023-01-13	2023-01-14	Transaction No.	Item Code	Item Name	Scheduled Item Qty	Start Time	End Time	
7:00	SD006L2-SGR	SD006L2-SGR						20		
8:00			SD008AC-CR/BL	SO2084	SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 8	36			
9:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SO2083	SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 8	28			
10:00			SD006L2-SGR	SD006L2-SGR	SD006L2-SGR	Sofa Dusk - Timo 2 Seater 1675 x	24			
11:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SO2083	SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 8	18			
12:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL	SO2083	SD008AC-CR/BL	Chair Eindhoven - Lumi Armchair 8	9			
13:00	SD008AC-CR/BL	SD008AC-CR/BL	SD008AC-CR/BL							

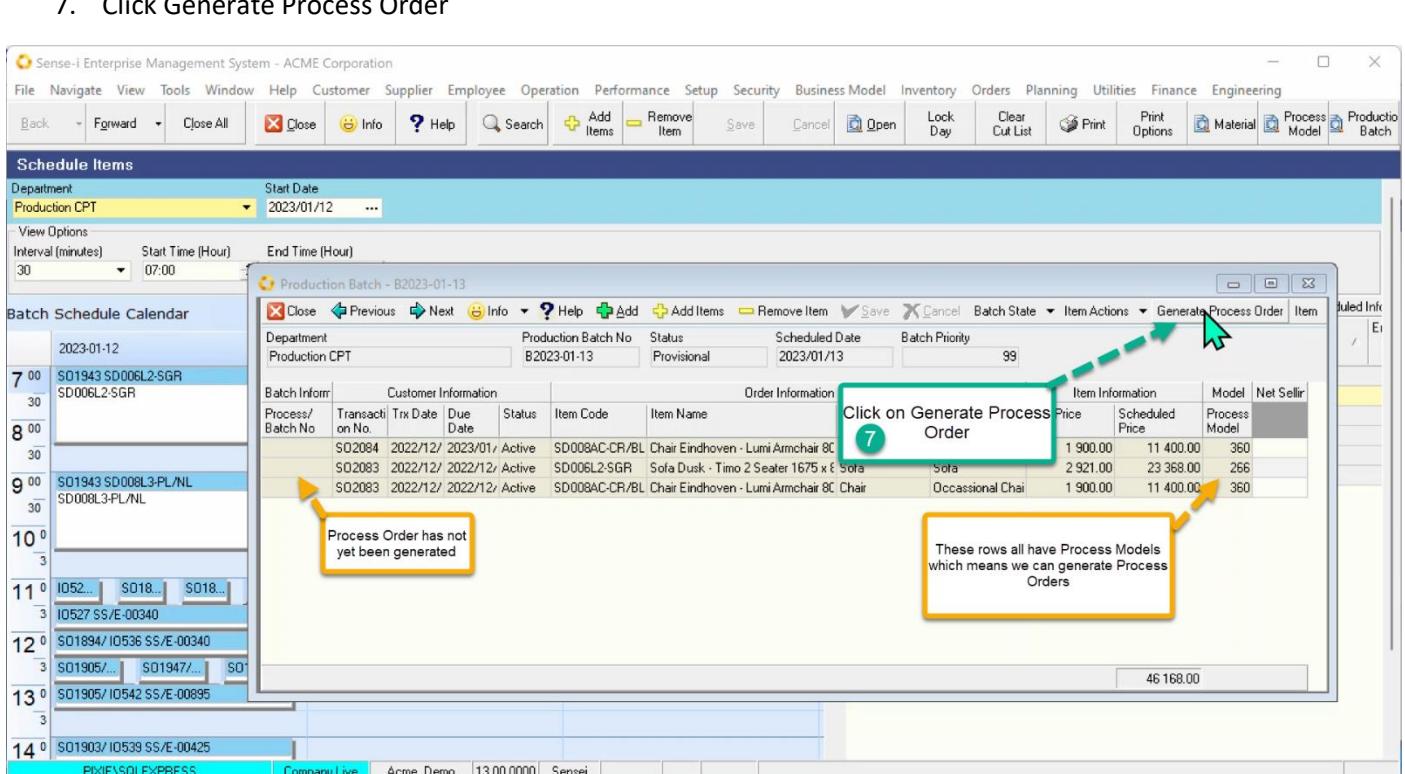
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- Open up the Production Batch by selecting the Date Band and
- Clicking the Production Batch button.



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

7. Click Generate Process Order

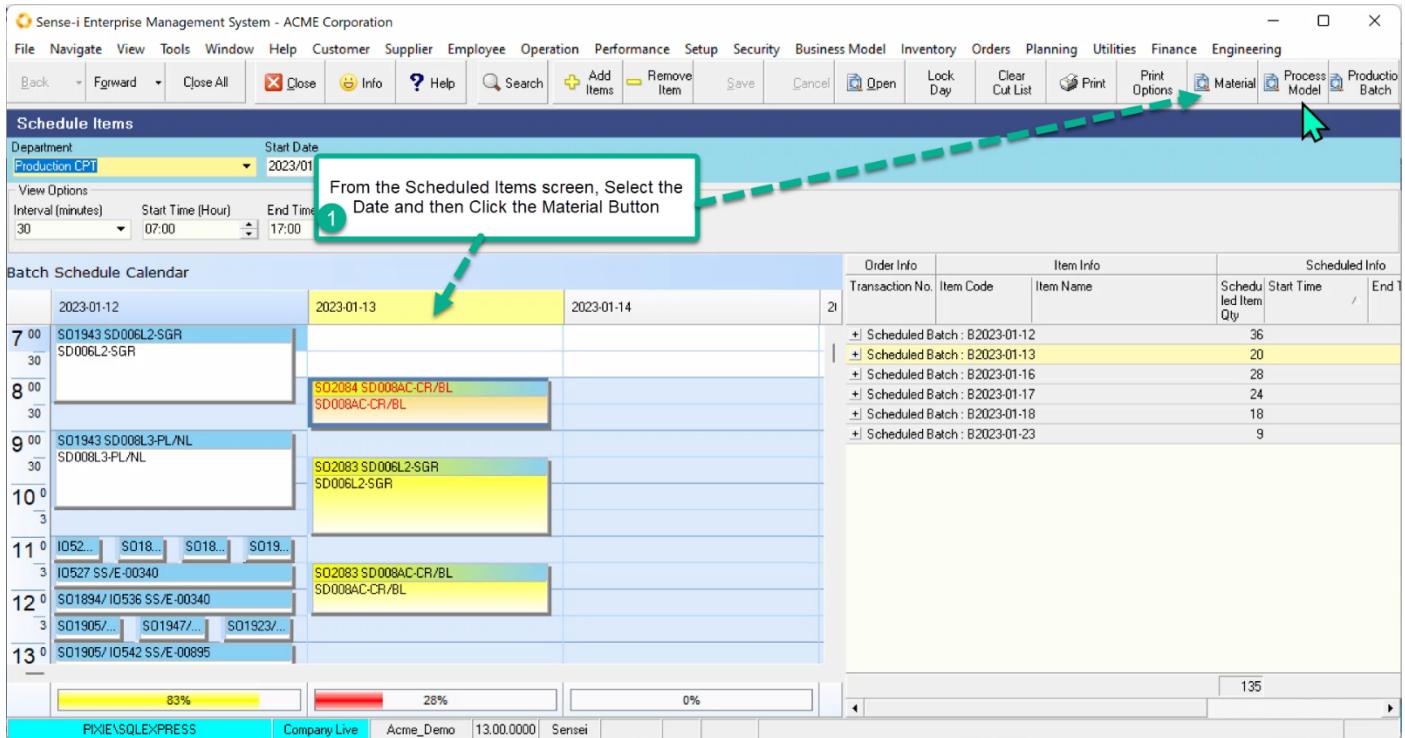


The process orders are generated AND activated. The scheduled order items are thus replenished.

6.6 REPLENISH RAW MATERIALS FOR SCHEDULED BATCHES.

From the Scheduled Items screen

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



The Materials Detail Pop-up screen is displayed.

- Select the Material Replenish page

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

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

The screenshot shows the 'Schedule Date - Production CPT 2023-01-13' window. A tooltip says: 'Select a cell and click on Open'. A yellow callout points to the 'Open' button in the toolbar. Another yellow callout points to a cell in the 'Order Qty' column of a grid, with the text: 'Drill through on the Order Quantity columns to see the inputs making up these numbers. The due dates for inputs is the scheduled date of the linked Process orders. IE The materials are due to be issued by the day the process order is scheduled to start'.

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

The screenshot shows the 'Schedule Date - Production CPT 2023-01-13' window. A tooltip says: 'Drilling through on the Provisional Supply column we see that there are 3 purchase order line numbers summing up to the value in the grid'. A yellow callout points to a cell in the 'Provisional Supply' column of a grid, with the text: 'Numbers shown in the grid which are underlined in blue indicate that this number is inclusive of a provisional record'.

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 shows the 'Schedule Items' application interface. At the top, there are tabs for 'Actual Rio Detail', 'Projected Rio Detail', 'Consolidated Rio Detail', and 'Consolidated Provisional Detail'. The 'Consolidated Provisional Detail' tab is selected. Below this, there's a section for 'Department Info' with a table showing data for various departments across different dates. A specific cell in the table is highlighted with a purple box. To the right, a 'Stock Analysis' window is open, showing a detailed breakdown of stock levels for each date. A yellow callout box points from the text 'Stock Analysis Drill Through and Consolidated Provisional Supply Tab shows us the Provisional supply included in the number' to the 'Stock Analysis' window. The 'Stock Analysis' window also has a purple box highlighting the same cell in the table that was highlighted in the main application.

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 + Plan 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**.

There are 2 **need** columns.

- Need by the end Date.

By the end of the 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

Select the Provisional Supply cell and Click Open ①

Note the message F

G Underlined in blue indicates the value contains provisional supply

Item Code	Item Name	Item Status	Plan Day Count	Summary Legend	Date Quantity Legend
NN/E-00001	Nut - M8 Nut	Active	14		
NN/E-00002					
NN/E-00006					
NN/E-00007					
NN/E-00009					
NN/E-00010					
NN/E-00020					
NN/E-00021					

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.

Drill through to the actual Purchase Order ②

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								
Transaction Information			Stock Information				Actual Summary						
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	2023/01/05	Projected Suppl	810	2023/01/13	0.25	202.50			

2. Drill through to the purchase order.

Purchase Order - PO3380

Owner Dept.	Supplier	Account Code	Quote	Status																																																																																																			
Production CPT	Bechtelar-Steuber	BEC0223		Provisional																																																																																																			
Transaction Date	Due Date	Shipping Date	Terms	Tax																																																																																																			
2023/01/01	2023/01/06 09:25 00:00	2023/01/13	30 Days from Statement	Capital Goods or Services Supplied 1																																																																																																			
Collect From	Collection Address	Contact Person	Save	Supplier Reference																																																																																																			
Supplier	Cape Town Branch 5789 Saint Paul Avenue Blackbird Worcester	representative	...	2772 SO1823; 2774 SO1823; 3073																																																																																																			
Postal Code			Exch. Rate Cover	Edited By																																																																																																			
1162			...	Sensei																																																																																																			
Order items	Documents	Financial Summary	Bank Transactions																																																																																																				
<table border="1"> <thead> <tr> <th colspan="4">Item Information</th> <th colspan="3">Quantity Info</th> <th colspan="2">Order</th> </tr> <tr> <th>Line No</th> <th>Item Code</th> <th>Process</th> <th>Item Name</th> <th>Trx Quantity</th> <th>U.O.M.</th> <th>Unit Price</th> <th>Order Price</th> <th>Discount %</th> <th>Disc Amount</th> </tr> </thead> <tbody> <tr><td>NN/E-00002</td><td>Supply</td><td>Nut - Nyloc Nut M8 H/T GR 8.8</td><td></td><td>192</td><td>ea</td><td>0.28</td><td>53.76</td><td>-</td><td>0.00</td></tr> <tr><td>SS/E-00157</td><td>Supply</td><td>Screw - Mushroom Screw M8 x 20mm Black (M5 Allen Key)</td><td></td><td>1024</td><td>ea</td><td>1.28</td><td>1 310.72</td><td>-</td><td>0.00</td></tr> <tr><td>FD/S-00007</td><td>Supply</td><td>Allen Key - M5 Hardened Insex</td><td></td><td>20</td><td>ea</td><td>5.00</td><td>100.00</td><td>-</td><td>0.00</td></tr> <tr><td>NN/E-00002</td><td>Supply</td><td>Nut - Nyloc Nut M8 H/T GR 8.8</td><td></td><td>216</td><td>ea</td><td>0.28</td><td>60.48</td><td>-</td><td>0.00</td></tr> <tr><td>SS/E-00157</td><td>Supply</td><td>Screw - Mushroom Screw M8 x 20mm Black (M5 Allen Key)</td><td></td><td>336</td><td>ea</td><td>1.28</td><td>430.08</td><td>-</td><td>0.00</td></tr> <tr><td>FD/S-00007</td><td>Supply</td><td>Allen Key - M5 Hardened Insex</td><td></td><td>12</td><td>ea</td><td>5.00</td><td>60.00</td><td>-</td><td>0.00</td></tr> <tr><td>NN/E-00009</td><td>Supply</td><td>Nut - M8 Nut</td><td></td><td>810</td><td>ea</td><td>0.25</td><td>202.50</td><td>-</td><td>0.00</td></tr> <tr> <td colspan="8"></td> <td>2 486.18</td> <td>0.00</td> </tr> </tbody> </table>				Item Information				Quantity Info			Order		Line No	Item Code	Process	Item Name	Trx Quantity	U.O.M.	Unit Price	Order Price	Discount %	Disc Amount	NN/E-00002	Supply	Nut - Nyloc Nut M8 H/T GR 8.8		192	ea	0.28	53.76	-	0.00	SS/E-00157	Supply	Screw - Mushroom Screw M8 x 20mm Black (M5 Allen Key)		1024	ea	1.28	1 310.72	-	0.00	FD/S-00007	Supply	Allen Key - M5 Hardened Insex		20	ea	5.00	100.00	-	0.00	NN/E-00002	Supply	Nut - Nyloc Nut M8 H/T GR 8.8		216	ea	0.28	60.48	-	0.00	SS/E-00157	Supply	Screw - Mushroom Screw M8 x 20mm Black (M5 Allen Key)		336	ea	1.28	430.08	-	0.00	FD/S-00007	Supply	Allen Key - M5 Hardened Insex		12	ea	5.00	60.00	-	0.00	NN/E-00009	Supply	Nut - M8 Nut		810	ea	0.25	202.50	-	0.00									2 486.18	0.00	
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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

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																																																																																																																																																																																																																														
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NN/E-00007	-	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																											
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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.

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 Search Open Print Print Options Process Order Item Stock Ledger Process Model Close Issues

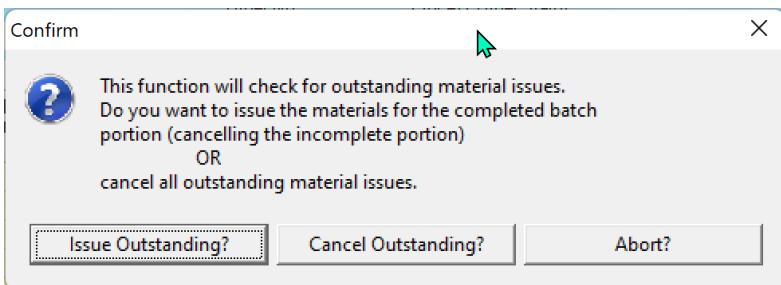
Process Order Completed Batches

Process Order No.	Department	Customer	Scheduled From Date	Scheduled To Date											
0			2022/09/01	2023/01/03											
Capture Date	Customer Reference	...													
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	9370	2022/11/10						2022/11/03	620	2 LATE	S	Scatter Cushions +			
Spiby, Brade	9370	2022/11/30						2022/11/07	552	5 LATE	S	Scatter Cushions +			
Spiby, Brade	9370	2022/11/30						2022/11/24	Closed	2022/11/25	S01552	5 LATE	S	Scatter Cushions +	
Spiby, Brade	2363/1	✓	SeanB278	2022/11/30				2022/11/24	Closed	2022/11/25	S01552	5 LATE	S	Ottoman Trisha - Timba Ottome	
Spiby, Brade	2394/1	✓	SeanB278	2022/11/30				2022/11/24	Closed	2022/11/25	S01552	5 LATE	S	Ottoman Trisha - Timba Ottome	
Gollard, Mayor	2429/1	✓	SeanB2014	2022/11/22				2022/11/15	Closed	2022/11/11	S01607	11 LATE	S	Ottoman Trisha - Timba Ottome	
Fellon, Aryn	2462/1	✓	SeanB2014	2022/11/30				2022/11/15	Closed	2022/11/11	S01612	19 LATE	S	Sofa Tugela - Eero 2 Seater 2C	
Kelwaybambo, Berli	2465/1	✓	SeanB2014	2022/11/22				2022/11/15	Closed	2022/11/11	S01610	11 LATE	S	Ottoman Trisha - Timba Ottome	
Rochelle, Marlena	2466/1	✓	SeanB2014	2022/11/30				2022/11/15	Closed	2022/11/09	S01564	21 LATE	S	Ottoman Trisha - Timba Ottome	

(Issues Closed = False)

PXE\SQLEXPRESS Company Live Acme_Demo 13.00.0000 Sensei

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.

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	Cost	1 019.76	2 039.52
Qty		2	2	0	0	Qty		2

8 SYSTEM SETTINGS

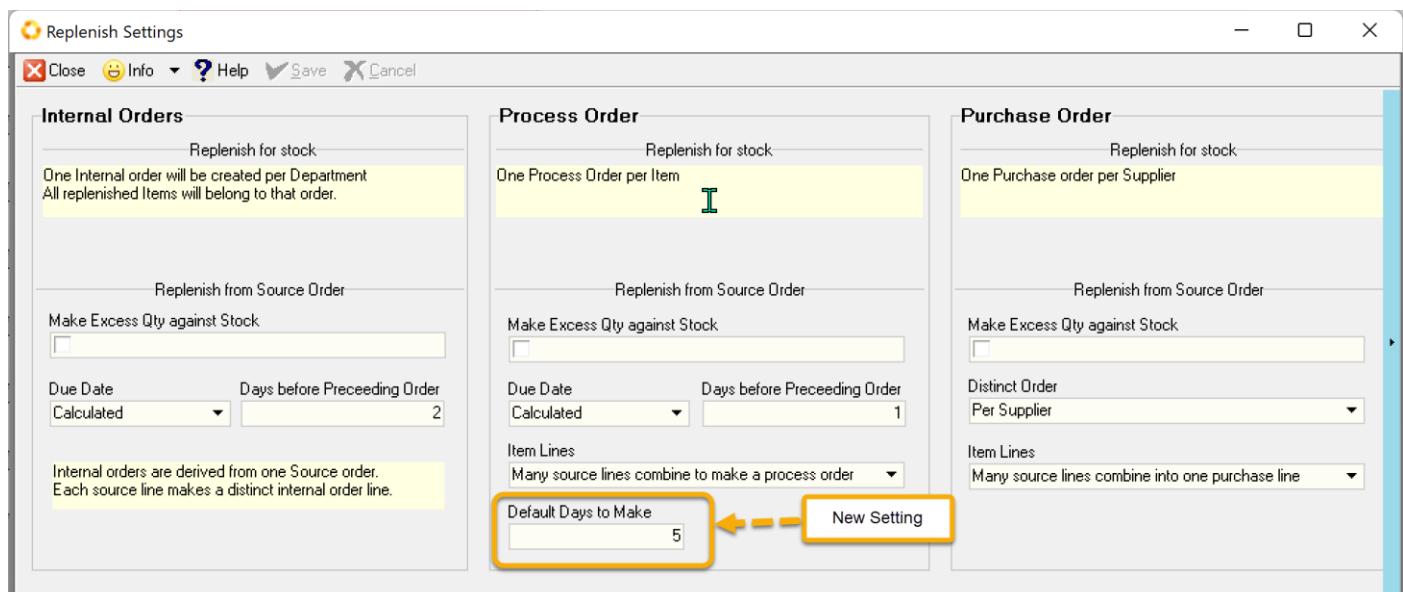
8.1 SECURITY SETTINGS

- 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



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