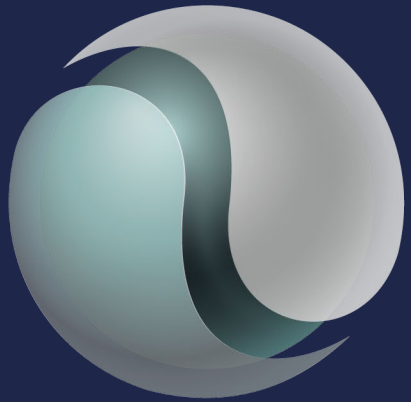

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Inventory enhancements Release 24

JD Edwards Nordic Conference 2024

Speaker:

Henric Niklasson

JD Edwards Application Specialist

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Agenda:

- Inventory Locations on Hold
- Automated Safety Stock
- Advanced Lot Trace & Track for Blend Management

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Inventory Locations on Hold

Overview

Prior to the location hold enhancement, inventory must be controlled by item/lot/location using the Lot Status Code. Putting all items in a location on hold may require updating hundreds of records and having to reverse that process when you want to make them available again.

Inventory management and control is made much more efficient and flexible by allowing availability and movement to be determined by a Location Hold field in the Location Master that defines what kind of transactions are allowed. This takes precedence over the Lot Status in the Item Location table and eliminates the need to update individual item/lot/location records. After validating the location hold transaction with an unrestricted location hold, system will validate the Lot status further.

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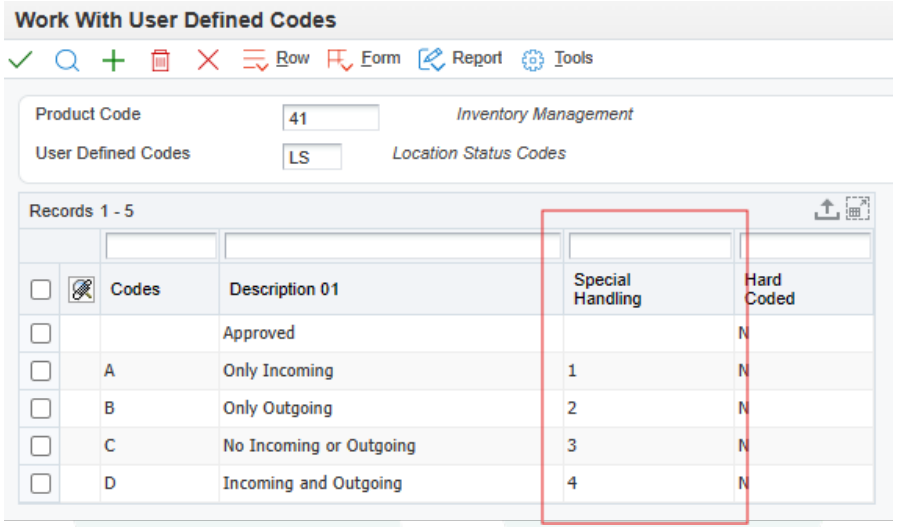
Inventory Locations on Hold

Special Handling codes in the UDC determine allowed transactions

1. Allow only incoming transactions.
2. Allow only outgoing transactions.
3. Do not allow incoming and outgoing transactions.
4. Allow incoming and outgoing transactions, but inventory in the location is not available for use.

If the special handling code of any UDC code is not 1, 2, 3 or 4, the location is unrestricted.



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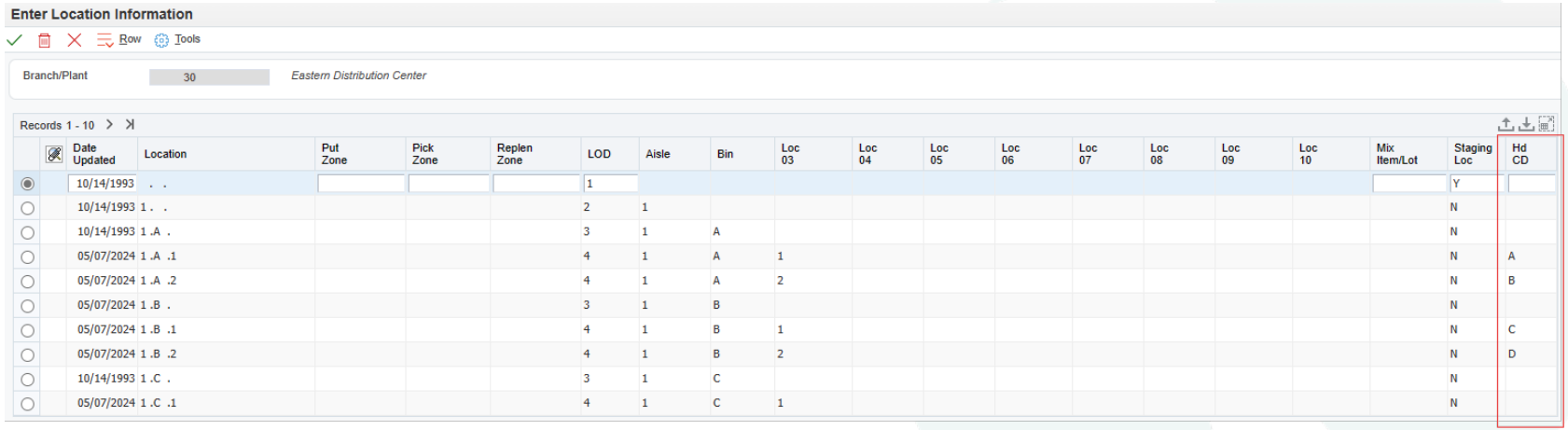
Inventory Locations on Hold

Use the application P4100 - Work With Location Master to place a location on hold. You assign different Location Hold codes to allow or prevent a particular transaction to/from the location.



	Date Updated	Location	Put Zone	Pick Zone	Replen Zone	LOD	Aisle	Bin	Loc 03	Loc 04	Loc 05	Loc 06	Loc 07	Loc 08	Loc 09	Loc 10	Mix Item/Lot	Staging Loc	Hd CD
◉	10/14/1993	. .				1												Y	
○	10/14/1993	1 . .				2	1											N	
○	10/14/1993	1 .A .				3	1	A										N	
○	05/07/2024	1 .A .1				4	1	A	1									N	A
○	05/07/2024	1 .A .2				4	1	A	2									N	B
○	05/07/2024	1 .B .				3	1	B										N	
○	05/07/2024	1 .B .1				4	1	B	1									N	C
○	05/07/2024	1 .B .2				4	1	B	2									N	D
○	10/14/1993	1 .C .				3	1	C										N	
○	05/07/2024	1 .C .1				4	1	C	1									N	

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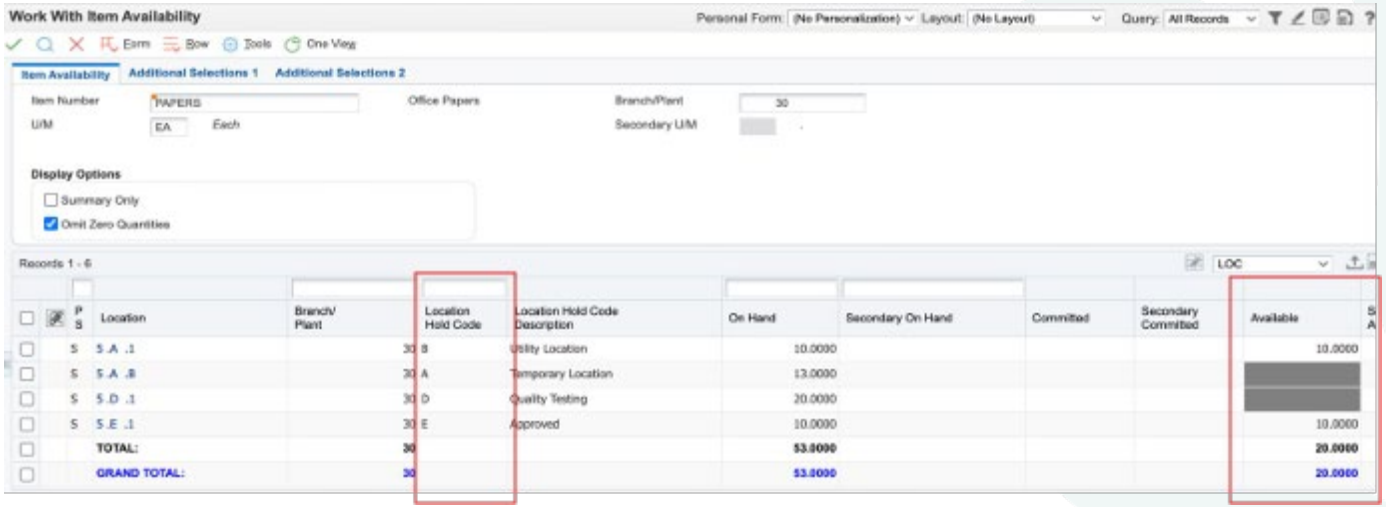
Inventory Locations on Hold

Availability Calculation

The image shows how location hold effects the item availability calculation, wherein location with hold code status A with special handling code 1 and location with hold code D with special handling code 4 shows as not available, but the location with location hold code B with special handling code 2 has available quantity.



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Inventory Locations on Hold

Availability Calculation

Following applications will consider the location hold status when calculating the availability of an item:

- Item Availability - P41202
- Lot availability - P41280
- Item Search - P41200
- Supplier Self-Service Inventory - P41201
- Segmented Item Availability - P41206
- Location Search and Select - P41LOCN
- Location Segment Inquiry - P4100142
- Lot Master - P4108
- Stock Status Report - R41530
- Line Availability - P42101

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Inventory Locations on Hold

Applications and reports that validate the location hold code

- Inventory Adjustment – P4114
- Inventory Issues – P4112
- Inventory Transfer – P4113
- Inventory Reclassification – P4116
- Item Availability – P41202
- Lot Availability – P41280
- Item Search – P41200
- Supplier Self-Service Inventory – P41201
- Segmented Item Availability – P41206
- Location Search and Select – P41LOCN
- Location Segment Inquiry – P4100142
- Lot Master – P4108
- Stock Status Report – R41530
- Line Avaialbility – P42101
- Locations Selection Driver – R46171
- Manual Replenishment – P46100
- Warehouse Confirmation – P4617
- LPN Transfer – P46L10
- Warehouse Availability Inquiry – P46230
- Cross Docking – P4614
- Sales Order Entry – P4210
- Ship/Load Confirm – P4205
- Disposition – P49660
- Unscheduled Deliveries – P49665
- Work Order Parts List – P3111
- Work Order Inventory Issues – P31113
- Work Order Completions – P31114
- Co/By Completions – P31115
- Super Backflush – P31123
- Config Component Commitments – P3210
- Lean Item Completions – PF31011
- Kanban Check In – P3157
- PO Receipts – P4312
- Master Planning Schedule – Multiplant – R3483
- MRP/MPS Requirements Planning – R3482
- Supply and Demand Inquiry – P4021
- Supply and Demand Report – R4051
- Planning Console – P34X200

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Inventory Locations on Hold

Additional Notes

Based on the special handing code of the location hold code UDC value, the system will allow or prevent transactions.
Location hold with special handling code of 2 allows both inventory use (for example, Sales order creation) and inventory movement (for example, inventory transfer) transactions. But location hold with special handling code of 4 will restrict the inventory use.
Location hold takes precedence over lot status. If the location is on hold, then the transactions will NOT be allowed even if the lot is in approved status.
The system validates the lot status if there is no restriction in that transaction due to location hold.
There is no restriction on any transaction for the UDC with blank special handling code and it is considered as an approved status.
If the location is created without an entry in the Location Master - P4100 (by setting the Location Control (Y/N) to N in the B/P Constant program – P41001), then the location cannot be put on hold.
Quantity from the on-hold location will not be deducted from the availability calculation if Quantity on Hold is unchecked on the item availability definition page.
As the Primary bin is always skipped for location/lot hold validation when R31410 is run over the WO, no Work Center (WC) error will appear.

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Inventory Locations on Hold

Q&A

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- Automated Safety Stock

Automated Safety Stock

Overview

Prior to the Automated Safety Stock Population enhancement, safety stock values had to be manually calculated and maintained by Item and Branch.

The Automated Safety Stock Population report automatically calculate safety stock values, thereby maintaining optimal inventory levels to reduce stock-outs and excess inventory.

When the Automated Safety Stock Population report is run in final mode, safety stock values in the Item Branch file are updated with the calculated values.

If you run the program in proof mode, the calculated safety stock values are written to the Safety Stock Message File. You can then use the Work with Safety Stock Messages application to review and edit the automatically calculated safety stock values prior to update, as well as to manually enter safety stock for an item.

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Automated Safety Stock

When you run R3425, the system calculates safety stock values using one of the following three formulas:

1. Buyer's Guide formula

With this formula, the system calculates the safety stock in this way:
Safety Stock = Square Root of [(Annual Sales / Number of Days in Year) x Lead Time Days]

2. Specified Days of Demand formula

This formula calculates the demand per day and multiplies that by the value specified in the Safety Stock Days of Demand processing option.

3. Specified Percentage of Leadtime Demand formula

This formula calculates the demand per day and multiplies that by the days defined in the Level Leadtime field of F4102 and the value in the Safety Stock Percentage of Leadtime Demand processing option.

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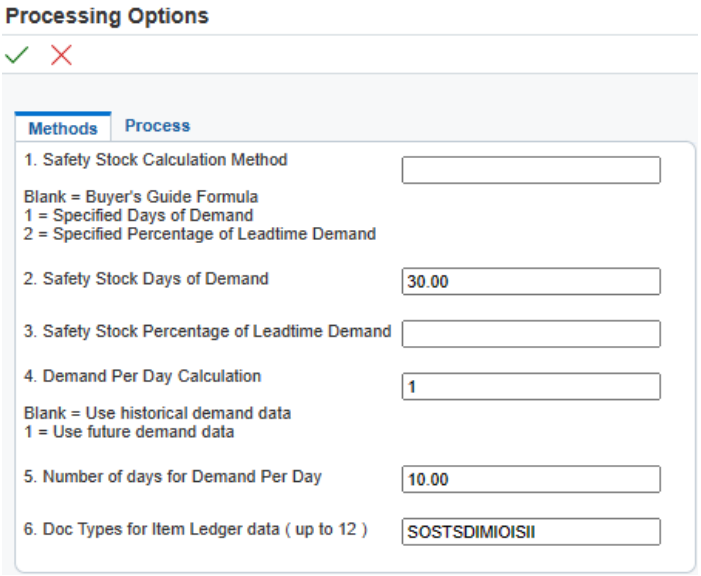
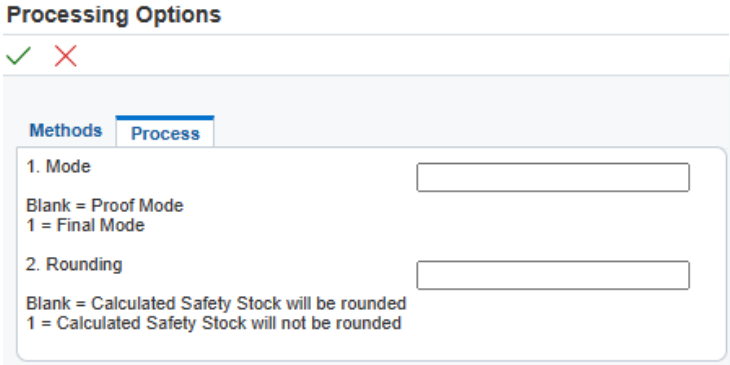
Automated Safety Stock

Reports & Applications

Automated Safety Stock Population Report R3425 processing options





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Automated Safety Stock

Reports & Applications

Automated Safety Stock Population Report R3425 Data Selection

Data Selection

	Operator	Left Operand	Comparison	Right Operand
☐	Where	Business Unit (F4102) (MCU) [BC]	is equal to	" 30"
☐	And	Stocking Type (F4102) (STKT) [BC]	is equal to	"P"
☐	And			

Add Row

Advanced

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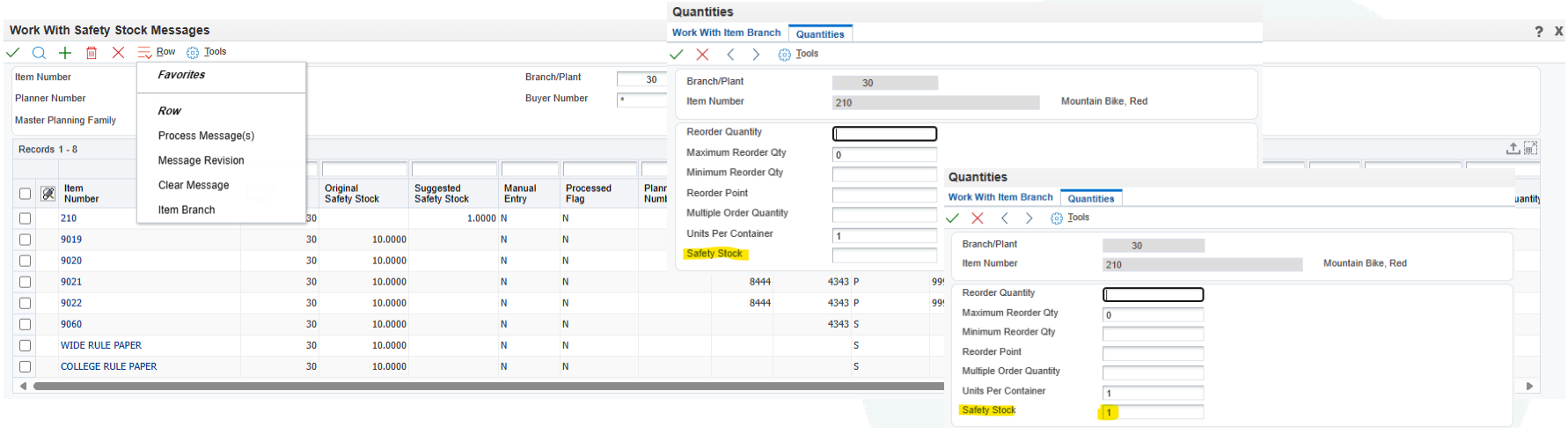
Automated Safety Stock

Reports & Applications

Automated Safety Stock Messages Application P3425



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Automated Safety Stock

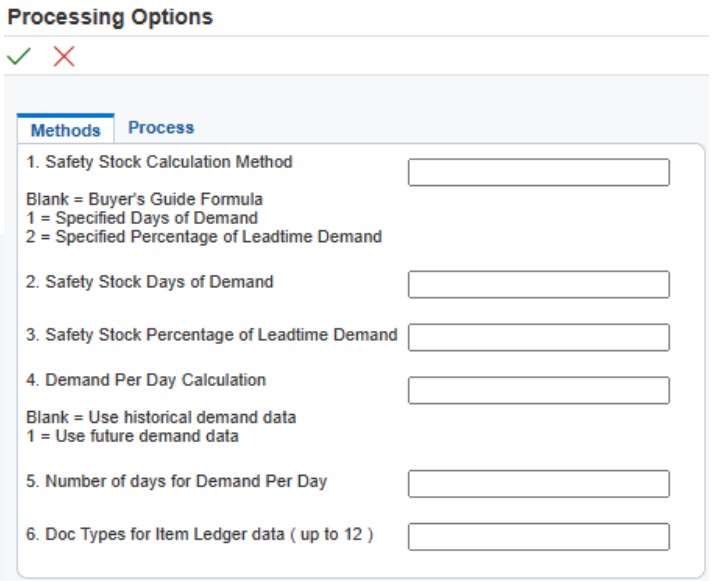
$$\sqrt{[(\text{Annual Sales} / \text{Number of Days in a Year}) \times \text{Lead Time Days}]}$$

Buyers Guide Formula

Safety Stock = Square Root of [(Annual Sales / Number of Days in Year) x Lead Time Days]

Annual Sales is the total units of sales for the previous 12 months from the Item History table (F4115). These units are converted to the primary unit of measure for the item.
Number of Days in Year is retrieved from the Branch Plant Constants (F41001) file. If this value is missing in F41001, the system uses the default value of 365.
Lead Time Days is retrieved from the Average Lead Time (ALTD) field if established in the Supplier/Item Relationships file (F43090). Otherwise, the system retrieves it from the Level Leadtime (LTLV) field in the Item/Branch file (F4102).

Note: If no lead time is established in either Supplier/Item Relationships or Item Branch, the default value of 1 day I used.



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Automated Safety Stock

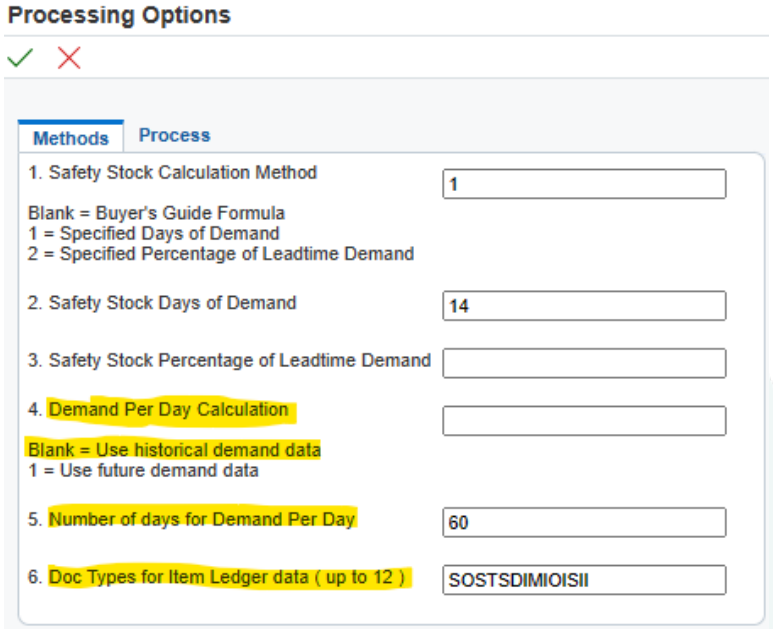
Specified Days of Demand

Demand per Day Calculation
Using historical demand data

Sum of transaction quantities for the specified Document Types (up to 12) from Item Ledger (F4111) within the specified number of days.

÷

Specified Number of Days



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Automated Safety Stock

Demand per Day
Using future demand data

Sum of adjusted demand values from Time Series (F3413) within specified number of days

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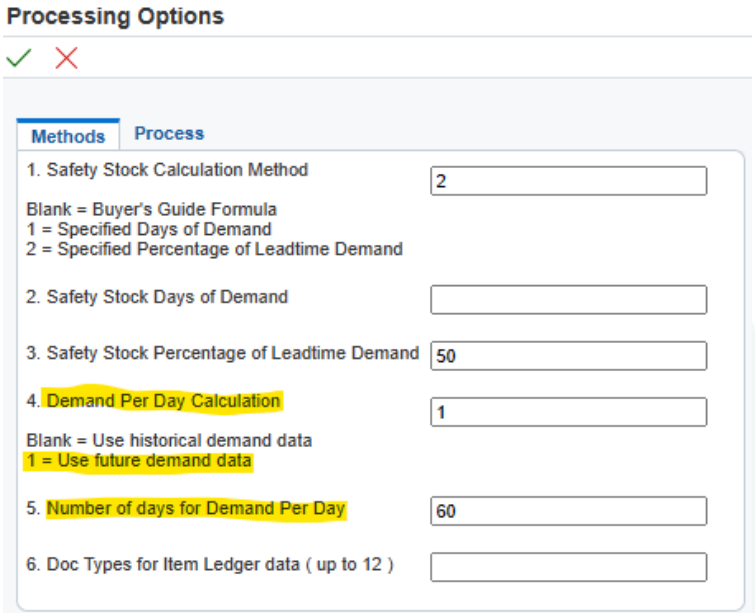
Specified Number of Days



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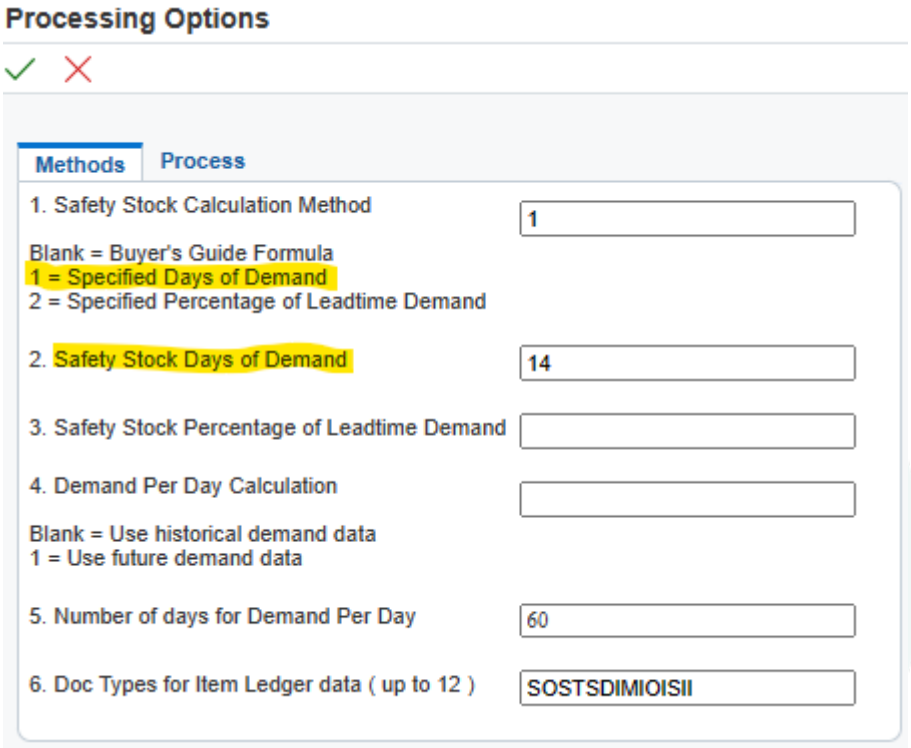
Automated Safety Stock

Days of Demand

Demand Per Day
X
Specified Days of Demand



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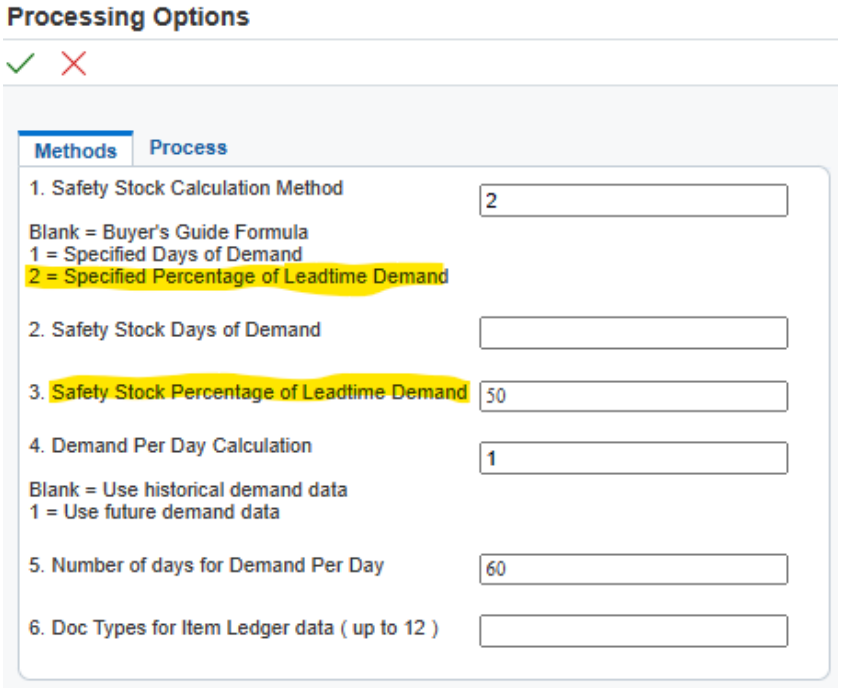
Automated Safety Stock

Percentage of Leadtime Demand

Demand per Day
X
Level Leadtime Days
defined in Item Branch (F4102).
X
Specified Percentage
of Leadtime Demand



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Q&A

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- Advanced Lot Track & Trace

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Advanced Lot Track & Trace for Blend Management

Advanced Lot Track & Trace: Get control of your lot handeled items from origin to destination.

Are you facing increasing pressure to uphold rigorous standards across your sullpy chain? Are you seeking a comprehensive solution to efficiently manage and track product lots from origin to destination? JD Edwards Enterprise'One offer the ultimate answer: Advanced Lot Track & Trace Application. With this cutting-edge feature, you can achive unparalleled visibility and control over your lot-based inventory, ensuring compliance, mitigating risks, and enhancing customer trust.

Don't settle for outdated traceability practices that leave your business exposed to risks. Take the next step towards traceability excellence.

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Advanced Lot Track & Trace for Blend Management

Advanced Lot Track & Trace: Enhancement Highlights

- *Build optimized Blend Lot Trace/Track based on vessel-to-vessel movements*
- *Identify and ignore common vessels during Lot Trace/Track*
- *Skip traversing redundant dependency chain paths*
- *Save Lot Trace/Track results to Repository*

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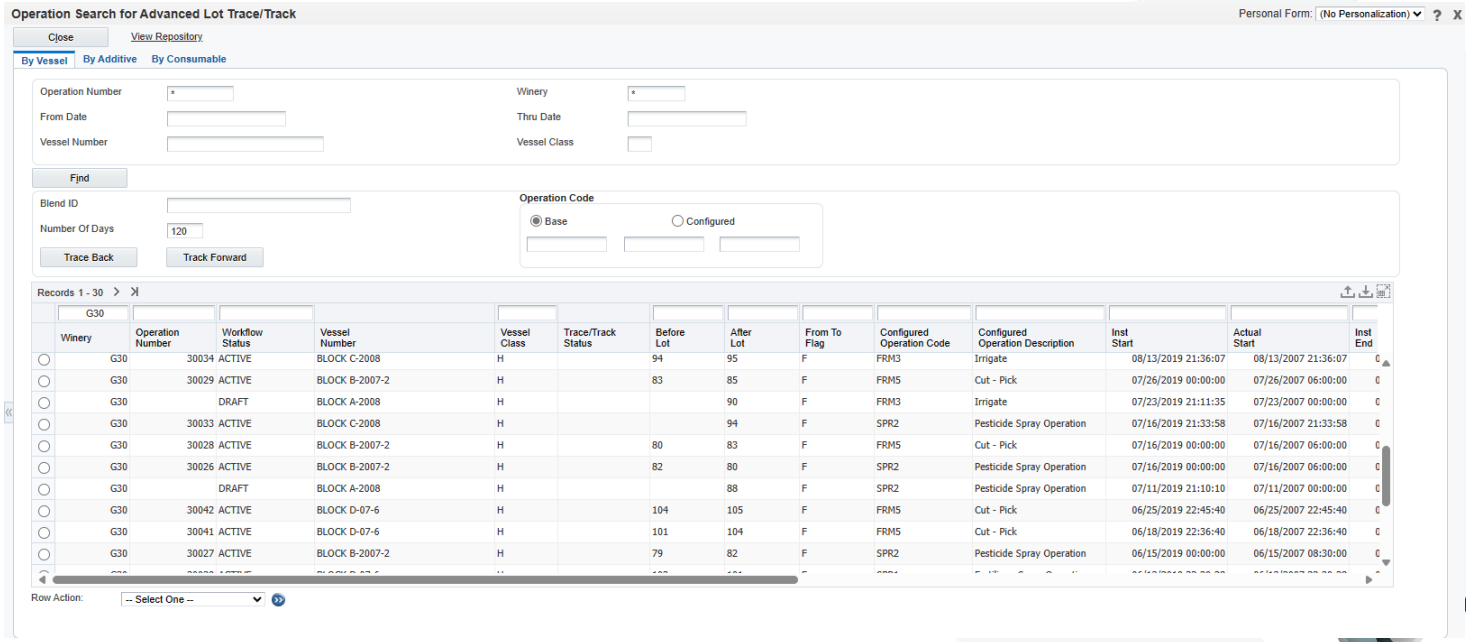
Advanced Lot Track & Trace for Blend Management

Operation Search for Advanced Lot Trace/Track: P31B350



Winery	Operation Number	Workflow Status	Vessel Number	Vessel Class	Trace/Track Status	Before Lot	After Lot	From To Flag	Configured Operation Code	Configured Operation Description	Inst Start	Actual Start	Inst End
G30	30034	ACTIVE	BLOCK C-2008	H		94	95	F	FRM3	Irrigate	08/13/2019 21:36:07	08/13/2007 21:36:07	0
G30	30029	ACTIVE	BLOCK B-2007-2	H		83	85	F	FRM5	Cut - Pick	07/26/2019 00:00:00	07/26/2007 06:00:00	0
G30		DRAFT	BLOCK A-2008	H			90	F	FRM3	Irrigate	07/23/2019 21:11:35	07/23/2007 00:00:00	0
G30	30033	ACTIVE	BLOCK C-2008	H			94	F	SPR2	Pesticide Spray Operation	07/16/2019 21:33:58	07/16/2007 21:33:58	0
G30	30028	ACTIVE	BLOCK B-2007-2	H		80	83	F	FRM5	Cut - Pick	07/16/2019 00:00:00	07/16/2007 06:00:00	0
G30	30026	ACTIVE	BLOCK B-2007-2	H		82	80	F	SPR2	Pesticide Spray Operation	07/16/2019 00:00:00	07/16/2007 06:00:00	0
G30		DRAFT	BLOCK A-2008	H			88	F	SPR2	Pesticide Spray Operation	07/11/2019 21:10:10	07/11/2007 00:00:00	0
G30	30042	ACTIVE	BLOCK D-07-6	H		104	105	F	FRM5	Cut - Pick	06/25/2019 22:45:40	06/25/2007 22:45:40	0
G30	30041	ACTIVE	BLOCK D-07-6	H		101	104	F	FRM5	Cut - Pick	06/18/2019 22:36:40	06/18/2007 22:36:40	0
G30	30027	ACTIVE	BLOCK B-2007-2	H		79	82	F	SPR2	Pesticide Spray Operation	06/15/2019 00:00:00	06/15/2007 08:30:00	0

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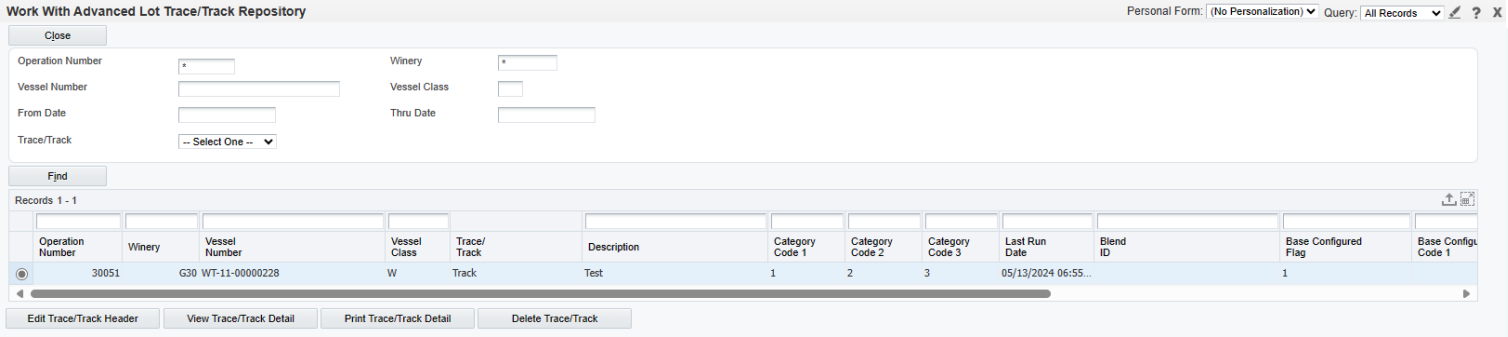
Advanced Lot Track & Trace for Blend Management

Work With Advanced Lot Trace/Track Repository: P31B370



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Advanced Lot Track & Trace for Blend Management

Advanced Lot Trace/Track Report: R31B360

Worldwide Company

R31B360 2024-05-13 9:13:38

Advanced Lot Trace Track Report

Trace/Track ID	Winery	Operation Number	Vessel Number	Vessel Class	Trace/Track	Message
3	G30	30044	WT-11-00000221	W	Trace	Operation Processed Successfully

1 of 2

Trace/Track ID 3 Winery G30 Vessel Number WT-11-00000221

Trace/Track Trace Operation Number 30044 Vessel Class W

Line Identifier	Parent Line Identifier	Go To Line Identifier	Configured Operation Code	Winery	Operation Number	Vessel Number	Vessel Class	F/T	Before Lot Quantity	Before Lot UOM	After Lot Quantity	After Lot UOM	Total Move Quantity	Workflow Status	Actual Start	Actual End	Before Mat Type	After Mat Type	Before Wine Status	After Wine Status	Before Blend ID	After Blend ID	Additive Item Number	Additive Lot Number	Total Survey Gain/Loss	Total Operation Gain/Loss	Operation ID
1	0		PWT	G30	30044	WT-11-00000221	W	F	.0000		3.0000	TN	.0000	ACTIVE	2011-12-29			WT		G		WTH030			.0000	.0000	123

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Advanced Lot Track & Trace for Blend Management

Q&A

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Wrap up:

Inventory Location on Hold
How does it work and how can it help your business.

Automated Safety Stock
What possibilities could the automated safety stock give your business.

Advanced Lot Track and Trace for Blend Management
Total control of your lot handeled items from origin to destination.

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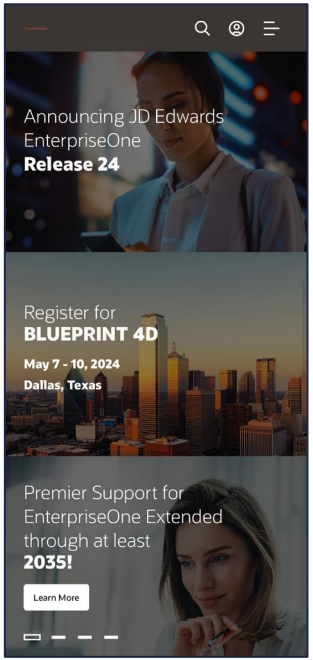
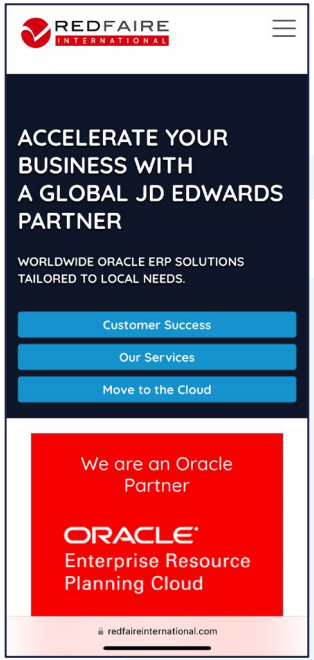
Find out more:

[xperitus – Your ERP System Partner]

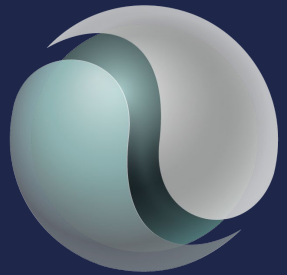


[LearnJDE | JD Edwards Resource Library (oracle.com)]



[Redfaire International | Oracle JD Edwards and ERP Cloud Consultants (EN)]

[Cadran | Oracle ERP Specialist for Wholesale & Industry]



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