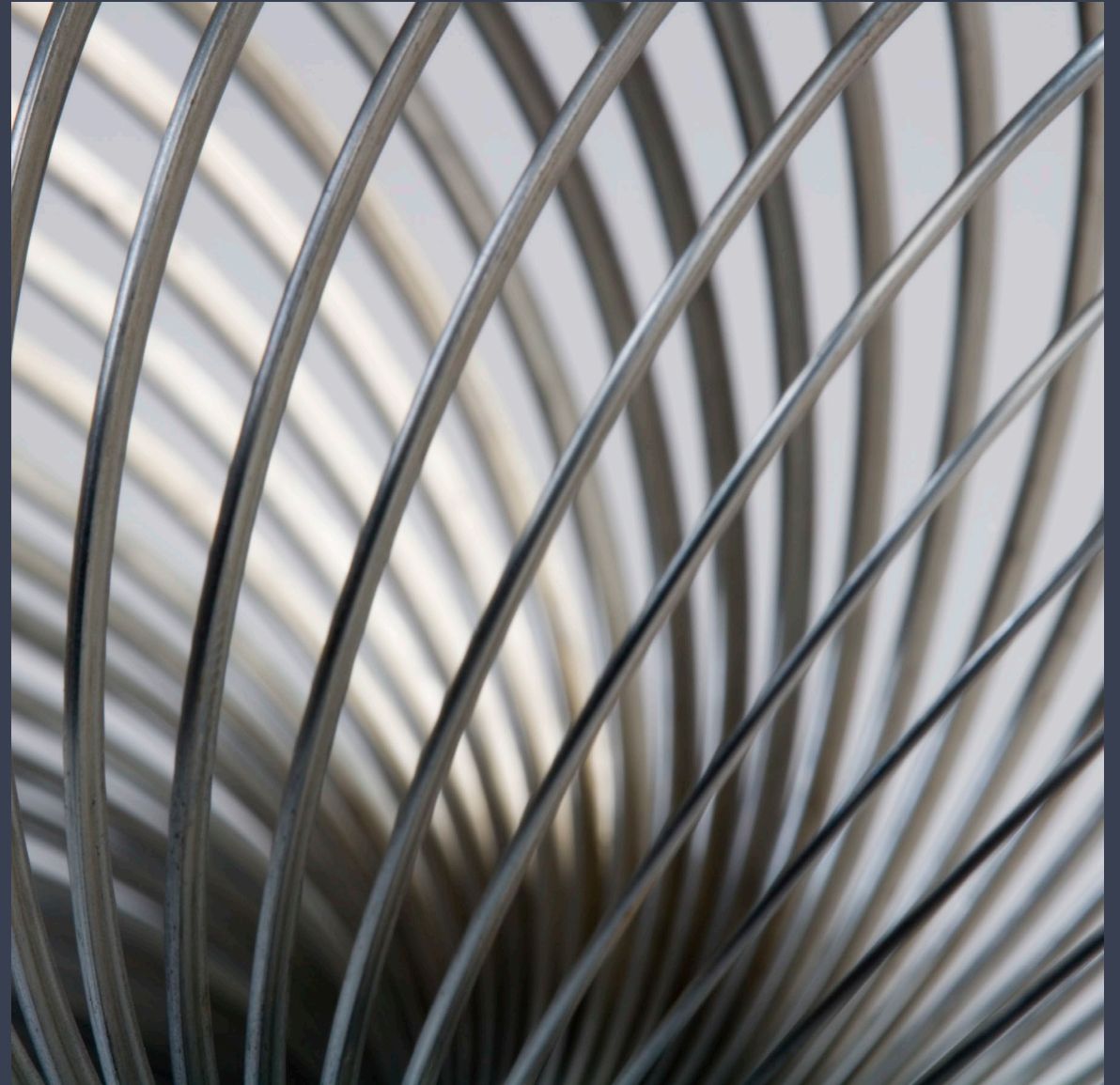


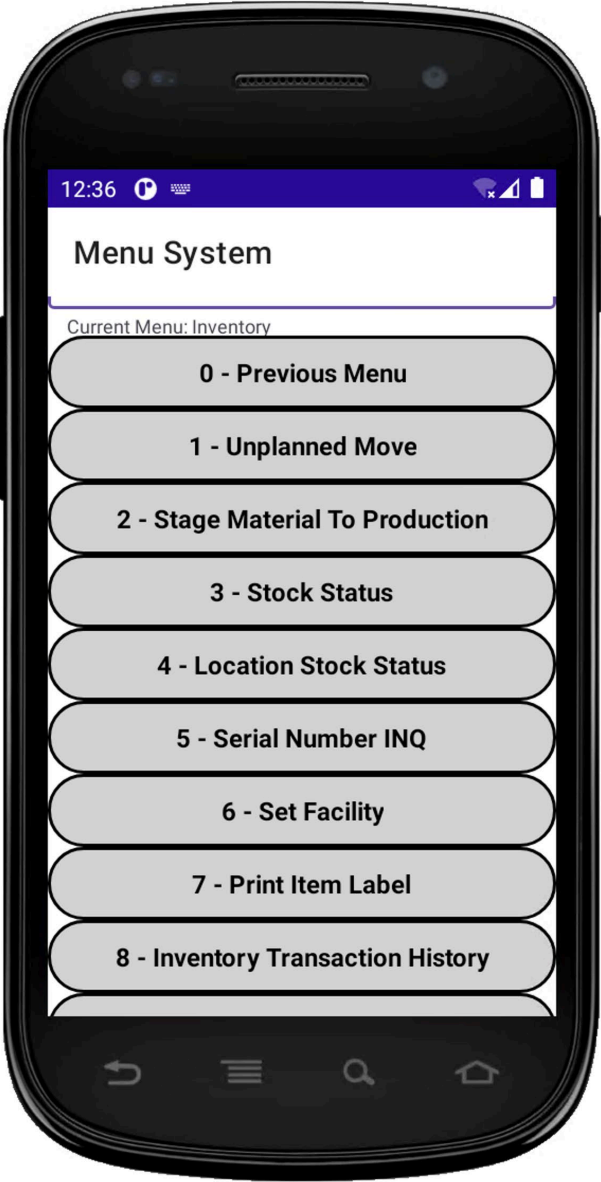
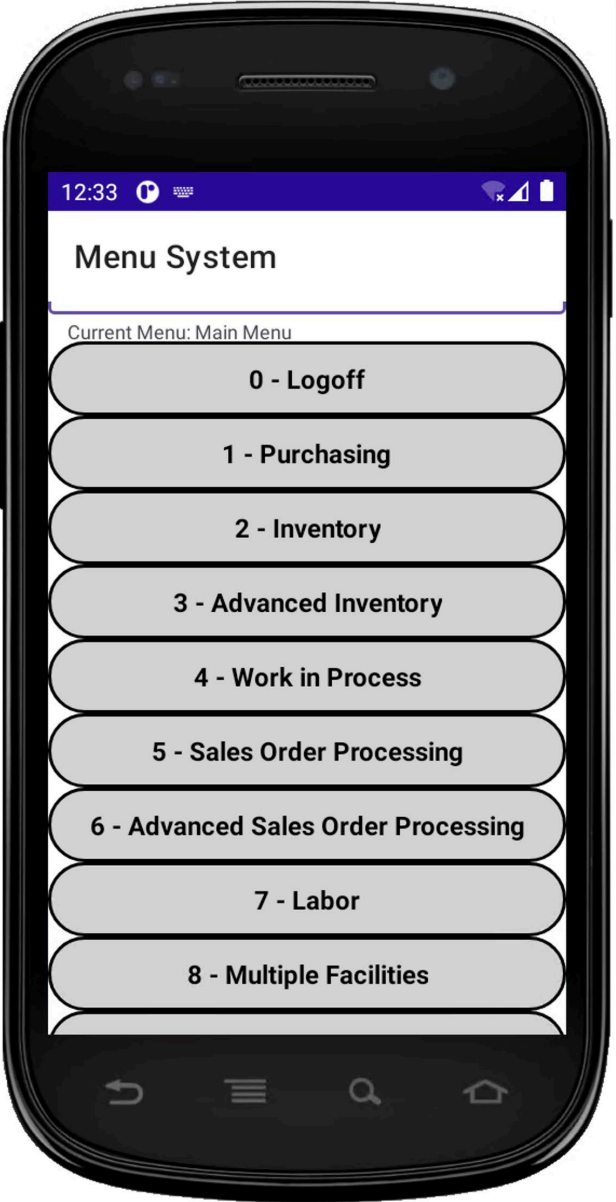
NUGM 2024

NOVONEXUS WMS
OVERVIEW AND
WHAT'S NEW

Marc Harbeson, NovoROI Systems



NOVONEXUS OVERVIEW



CURRENT FUNCTION LIST

- Edit Users
- Logoff
- Previous Menu
- WIP Constants
- Print PO Labels
- Function Build
- Unplanned Move
- PO Receipts
- Stock Status
- Define Printer Document Types
- Maintain Time Zones
- Time Clock
- Time Clock (Supervisor)
- Wip Move
- Security Build
- Print Workorder Labels
- Define Printer Doc Override
- Edit Container
- Serial Number INQ
- Change Password
- Indirect Labor
- Indirect Labor (Supervisor)
- Direct Labor
- Define Printer
- Direct Labor (Supervisor)
- Set Facility
- Issue Material
- Menu Build
- Labor Constants
- Location Stock Status
- Stage Material To Production
- Inventory Constants
- SO Load Planner
- Pick Sales Load
- Print Container Label
- Void Load Pick / Pack Detail
- View So Load Packslip
- Print So Load Packslip
- SOP Constants
- Confirm Sales Order Load
- Ship Sales Order Load
- Adjust Inventory
- Workorder Workbench
- Reopen Container
- Unpick Sales Load
- Maintain Container Types
- Show System Errors Report
- Maintain Cross Dock Address Master
- SO Master Load / Cross Dock Planner
- SO Load Assign Picker
- Monitor System Transactions
- Transfer Items between Containers
- Is System Administrator
- Simple Sales Order Pick
- Simple Sales Order Ship
- Show Sales Wip Transaction History
- Unpick Sales Order
- Simple Sales Order Unpick
- Report Designer
- View Sales Order Packslip by Line Item
- Print Sales Order Packslip by Line Item
- Print Shipping Labels
- View Sales Order Packslip by Container
- Print Sales Order Packslip by Container
- Confirm Sales Order
- Maintain Freight Payment Methods
- Print SO Load Paperwork
- Edit Shipment Details
- Update Container Tracking Number
- SO Ship Master Load
- SO Master Load Print Paperwork
- Sales Order Print Container Labels
- Work Order Scrap
- Scrap Inventory (Post Wip)
- Edit Container
- Build Inventory Container
- Move Inventory Container
- Remove Item From Inventory Container
- Container INQ
- Add Items to Inventory Cart
- Inventory Cart INQ
- Move Inventory Cart
- Remove Items from Inventory Cart
- Transfer Items Between Inventory Carts
- Update SOP Container Location
- Cycle Count Recount Workbench
- Prod Receipt & Scrap
- Print Item Label
- Inventory Transaction History
- Pick Sales Order
- Ship Sales Order
- Define Printer
- Pack Sales Order
- Google
- System Constants
- Purchase Constants
- PI Tag Entry
- Cycle Count Entry
- Print Tote Labels
- WIP Receipt
- Allow Negative Inventory
- Prod Receipt
- Restock Inventory Location
- Put Away Inventory
- Print Container Label Keep Open
- Inventory Cart History INQ
- Maintain Inv Cart Master
- WIP Move Transaction History
- Auto Ship Sales Order
- One Step Material Transfer
- WIP Receipt into Inventory Cart
- Un-Confirm Sales Order Load
- MTO Shipments Pick
- MTO Shipments Un Pick
- View MTO Packslip By Line
- Print MTO Packslip By Line
- Ship MTO
- Maintain Customer Shipping Options
- MTO Receipts
- MTO Receipts Submit To ERP
- Short PN
- Work Order Status
- View Work Order Picklists
- Print Work Order Picklists
- Wip Receipt with Label Print
- Maintain Automatic Schedules
- Maintain ADI Sources



ANDROID CLIENT MAUI UPDATE

5:51

Enter User ID
novo

Enter Password
.....

Login

Web Server Settings

Client Build: 1.0.45 (1045)
http://172.21.1.175/NovoBarcodeWS/

5:52

Menu System

Current User: NovoROI

Current Menu: Main Menu

- 0 - Logoff
- 1 - Purchasing
- 2 - Inventory
- 3 - Advanced Inventory
- 4 - Work in Process
- 5 - Sales Order Processing
- 6 - Advanced Sales Order Processing
- 7 - Labor
- 8 - Multiple Facilities
- 9 - System Admin Menu
- A - Change Password

5:53

Stock Status

Item Number
100|01

Description
System Pentium 900MHz 32'

Total Item Qty
13487

Double Tap Row to launch other functions

LOC	LOC QTY
A1	4611
A2	8208
A4	453
B1	67
B2	25

5:55

Locs

Location
A1

Location Description
Row A Loc 1

Total Location Qty
1001416

Double Tap Row to launch item stock status

PART NBR	LOC QTY
100 01	4611
100 02	1090
100 03	19
101 01	10114
101 02	15



ADI INTERFACE

- Formatters are all done in user defined user exit subroutines
- Multiple Input Methods:
 - SQL Table
 - Flat File
 - Flat File Process then Move
 - Automatic Labor API

	ADISourceID	ADISourceType	AdiSourceInfo	Enabled	SystemType	ConnectionString	IDColumns	QuarantineStatement	ArchiveStatement	HasHeaders	AsciiDelim
1	1	FileSystem	SOPCONSTANTS	0	PTL	NULL	NULL	NULL	NULL	0	9
2	2	SqlTable	SELECT * FROM TRANSFER_WMS W...	0	Wip	server=ULTRON;uid=novo.p...	TransactionID	UPDATE TRANSFER_WMS SET ...	UPDATE TRANSFER_WMS SET Tr...	NULL	NULL
3	3	SqlTable	SELECT * FROM TRANSFER_WMS W...	0	WipIPScrap	server=ULTRON;uid=novo.p...	TransactionID	UPDATE TRANSFER_WMS SET ...	UPDATE TRANSFER_WMS SET Tr...	NULL	NULL
4	4	SqlTable	SELECT * FROM TRANSFER_WMS W...	0	WipContainer	server=ULTRON;uid=novo.p...	TransactionID	UPDATE TRANSFER_WMS SET ...	UPDATE TRANSFER_WMS SET Tr...	NULL	NULL
5	5	SqlTable	SELECT * FROM TRANSFER_WMS W...	0	WipMove	server=ULTRON;uid=novo.p...	TransactionID	UPDATE TRANSFER_WMS SET ...	UPDATE TRANSFER_WMS SET Tr...	NULL	NULL
6	6	FileMover	C:\TESTIN\	1	WipStage	C:\TESTOUT\	NULL	NULL	NULL	0	59



ADI INTERFACE

- Current Transactions Enabled
 - SO / Load Advanced Pick (Container)
 - Pick To Light Container Pick / Close LPN
 - Wip Receipt
 - Wip Receipt to Inventory Cart
 - Wip Scrap (In process)
 - Wip Move (Routing Step Move)
 - Wip Stage to Production
 - Inventory Scrap (Post Process)
 - Generic Print Request



SIMPLE SO PICKING

6:03

Simple Ship Picking

Sales Order Number
5029

Shipment
6

Enter Items

6:04

Cancel

Picking SO 5029 Shipment 6

Long Tap for Item Description

Part Number	Pick Locatio	Open Balanc
101 01	A1	48

6:04

Picking Item 101|01 for Shiplist 5029-6 Recommended Location: A1

Confirm Item Number
101|01

Qty Remain To Pick
48

Quantity to Pick
1

Pick Location
A1

Serial Number Entry Canceled

Accept Cancel

6:06

Cancel

Item Number
101|01

Qty Required
1

Qty Remain
1

Enter Serial Number
1000

SIMPLE SO PICKING

6:07 [Settings] [Signal] [Battery]

← Simple Ship Order

Sales Order Number
5029 [X]

Shipment
6 [X]

Pro Number
Pro123456 [X]

Ship Order

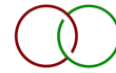


WIP NEW FEATURES

The screenshot shows a mobile application interface for 'Wip Receipt Print Label'. At the top, there is a status bar with the time 6:09 and various icons. Below the status bar is a navigation bar with a back arrow and the title 'Wip Receipt Print Label'. The main content area consists of several input fields and a button:

- Work Order:** A text input field containing the text 'Work Order'.
- Description:** A large empty text area.
- Quantity Remain:** A text input field with the value '0'.
- Receipt Location:** A text input field containing the text 'Receipt Location'.
- Wip Quantity:** A text input field with the value '0'.
- Cartons:** A text input field with the value '0'.
- Label Copies:** A text input field with the value '0'.
- Select Printer:** A text input field.

At the bottom of the form is a large grey button labeled 'Accept'. A red rectangular box highlights the 'Cartons', 'Label Copies', and 'Select Printer' fields.



WIP NEW FEATURES

WorkOrderWorkBench

Select Work Group:

Work Order	Note	Start Date	Item Number	Item Description	Balance	SO	Customer	Loc	Pri
1548	N	9/5/1994	102101	System Pentium 700MHz 15"	25	571	Sears Systems, Inc.		0
1549	N	10/11/1994	102101	System Pentium 700MHz 15"	40	571	Sears Systems, Inc.		0
1550	N	11/4/1994	102101	System Pentium 700MHz 15"	45	571	Sears Systems, Inc.		0
1551	N	1/11/1995	102101	System Pentium 700MHz 15"	45	571	Sears Systems, Inc.		0
1556	N	7/26/2018	100101	System Pentium 900MHz 32'	225				0
1557	N	9/10/2018	101101	System Pentium 700MHz 21"	100				0
1558	N	9/10/2018	102101	System Pentium 700MHz 15"	99				0
1559	N	9/10/2018	105101	PC Cart - Model 940	90				0
1560	N	9/8/2018	100101	System Pentium 900MHz 32'	10				0
1561	N	9/10/2018	101101	System Pentium 700MHz 21"	10				0
1562	N	9/10/2018	105101	PC Cart - Model 940	96				0
1563	N	7/29/2023	101101	System Pentium 700MHz 21"	50				0
1564	N	7/30/2023	342101	Kit, Floppy, 3.5	50				0
531.2	N	8/7/1994	102101	System Pentium 700MHz 15"	20	531	Sears Systems, Inc.		0
532.3	N	8/15/1994	102101	System Pentium 700MHz 15"	40	532	Office Supply Co.		0
547.2	N	8/7/1994	102101	System Pentium 700MHz 15"	20	547	Suburban Office Supply, UK		0
557.3	N	8/15/1994	102101	System Pentium 700MHz 15"	40	557	Sears Systems, Inc.		0

Work Order: Start Date: Due Date: Work Order Notes:

Qty Remain: Wip Qty: Lot Number:

Wip Location: Cartons:

Label Copies: Printer: Picklist Printer:



LABOR MULTI IN LABOR SPREAD OPTION

	A	B	C	D	E	F	G	H
1	Work Order	In	Out	Total Time Present	Old Allocation	New Percent	New Allocation (Min)	
2	1010*10	9:00	12:00	180	280	21.43%	180	
3	1020*10	6:00	12:00	360	280	42.86%	360	
4	1030*10	7:00	12:00	300	280	35.71%	300	
5				840	840		840	
6								



LABOR AUTOMATIC INDIRECT BREAK SCHEDULES

Maintain Automatic Schedules

File

Schedule ID Enabled

Description

Next Scheduled Run

SQL Statement

Indirect Labor Code ...

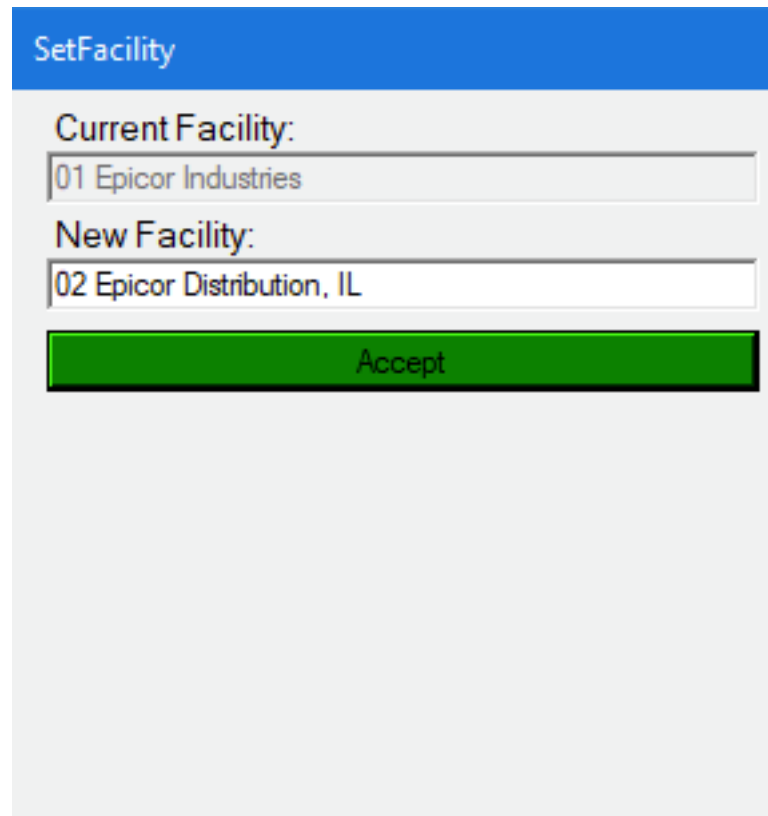
Event Start Time Event Stop Time Schedule Type ...

Process Order



MULTI-FAC GENERAL

- Entire application is multi-fac aware (exactly the same as Manage-2000)



The screenshot shows a dialog box titled "SetFacility" with a blue header. It contains two text input fields. The first field is labeled "Current Facility:" and contains the text "01 Epicor Industries". The second field is labeled "New Facility:" and contains the text "02 Epicor Distribution, IL". Below the input fields is a green button with the text "Accept".

MULTI-FAC MTO RECEIPTS

MTO Number::
M2001

Shipment:
1

Receive Items

Ready!

Item Nbr	Location	Balance
103		20

Press F4 to see stock status for highlighted item

System Pentium 400MHz 15"

Receiving Item 103 for Shiplist M2001-1

Scan Item Number:
103

Qty Remain To Receive:
20

Quantity:
10

Accept

Ready!

MTO Number::
M2001

Shipment:
1

Submit MTO Receipt

Ready!

PHYSICAL INVENTORY TAG ENTRY

PITagEntry

Tag Number: 1 UM:

Item Number:

NovoBCClientWMAApp ok

Warning: This tag was previously keyed already. If you continue you will be changing the tag.

Location:

Tag Qty:

Accept

Validate tTagNumber...

PITagEntry

Tag Number: 1 UM: EA

Item Number: 100|01

System V 1000mhz 10"

Location: A1

Tag Qty: 5

Accept

Ready!



CYCLE COUNT

Cycle Count En

Cycle Count Number:
1912

Item Number:
100|01

Location	Count	Adj Reason	Save Q
A1	80	XX2	
A2			
A3			
BULK			100
CUSTOMER			
DAMAGED			
QUARENTN			
STOCK			-1

Accept

Ready!

CycleCountDet

Entering Cycle Count For:
Tag 1912 Location A1

Quantity Counted:
10

Adjust Reason Code:
XX2

Adj Reason 2

Location

Accept

Ready!

Cycle Count En

Cycle Count Number:
1912

Item Number:
100|01

Location	Count	Adj Reason	Save Q
A1	10	XX2	
A2			
A3			
BULK			100
CUSTOMER			
DAMAGED			
QUARENTN			
STOCK			-1

Accept

Ready!



RESTOCK LOCATION (KANBAN RESTOCK)

RestockLocati

Location:
A2
Row A Loc 2

Item In Location:
102|01

Standard Pack Qty:
30

Qty Per Bin:
10

View Inventory Locations

Ready!

SelectItemLoc

Item Number:
102|01

LOC	LOC QTY
A1	314
A3	100
CUSTOMER	50
VENDOR	10
BULK	10
DAMAGED	2
STOCK	-28

Ready!

Unplanned Mo

Item Number: 102|01 UM: EA
System Pentium 700MHz

Qty to move: 10

From Location: A1 New Qty: 304

To Location: A2 New Qty: 110

Note:

Accept

Ready!

NovoBCClientWMAApp ok

Put Away Note Reminder:
Row A Loc 2

INVENTORY CARTS

- Designed to be general purpose multiple item transportation device.
- Supports Wip Receipt into cart.
- Movement of a cart performs multiple (1 to X) unplanned moves for the entire contents of the cart.
- With negative inventory checking enabled, prevents carts from driving inventory negative on movement.
- Will not allow cart overallocation (same item in two carts).
- Carts can be divided into zones (called slots).



INVENTORY CARTS

- Inventory carts are persistent devices. (Unlike containers which are destroyed when emptied or shipped.)
- Integrated with Advanced Ship application to direct operator to specific cart (when in the shipping zone) and prompts for the cart ID instead of a location (cart knows its location).



CART MASTER MAINTENANCE (PC CLIENT)

Maintain Inv Cart Master

File

Cart ID: A1234 Description: TEST CART A1234 Enabled

Current Loc: Last Update User: novo Last Update Date: 12/7/2018 3:34:29 PM

Slot Label	Fill Priority	Slot Capacity	Enabled
X01	10	10	1
X02	10	10	1
X03	10	10	1

Slot Label:

Fill Priority:

Slot Capacity:

Enabled:

Add

Update

Remove

CART TRANSACTIONS

InvCartAddItm

Item to add to Cart:
100|01

Cart ID:
A1234

Current Cart Location:
A1

Qty to add to Cart:
10

Into Cart Slot ID:
X01

Accept

Ready!

InvCartINQ

Cart ID: A1234 Current Cart Location: A1

Cart Slot ID (ALL for whole cart): ALL Total Items In Grid: 20

Slot	Item Number	Qty
X01	100 01	10
X02	200 01	10

Ready!

InvCartMove

Cart ID: A1234

Current Cart Location: A1

New Cart Location: A2

Accept

Ready!



CART TRANSACTIONS

	TransactionID	TransactionType	TransactionUser	TransactionDate	F1	F2	F3	F4	F5	F6	User_Def_1
1	1077	UnplannedMove	novo	2019-09-13 17:24:31.047	A1	A2	10	200 01	01	NULL	CartMove: A1234
2	1076	UnplannedMove	novo	2019-09-13 17:24:30.983	A1	A2	10	100 01	01	NULL	CartMove: A1234
3	1075	UnplannedMove	novo	2019-09-13 17:14:24.257	A1	A2	10	100 01	01	NULL	NULL



INVENTORY CARTS

InvCartRemov

Cart ID:
A1234

Current Cart Location:
A2

Item to remove from Cart:
100|01

Qty to remove from Cart:
1

From Cart Slot ID:
X03

Accept

Ready!

NovoBCClientWMApp ok

There was not enough inventory in cart A1234 Slot X03 to remove item 100|01.

InvCartHistInq

Cart ID:
A1234

User ID:

Item Number:

Date Time	Item Number	Qty	Activity	Cart ID	User ID	From Loc	To Loc	Log ID
9/13/2019 5:30:06 PM	100 01	1	RemoveCart	A1234	novo	NA	NA	49
9/13/2019 5:24:31 PM	NA	0	MoveCart	A1234	novo	A1	A2	48
9/13/2019 5:22:18 PM	200 01	10	AddCart	A1234	novo	NA	NA	47
9/13/2019 5:21:33 PM	100 01	10	AddCart	A1234	novo	NA	NA	46

Ready!



INVENTORY CARTS

The image shows two overlapping software windows. The left window, titled 'InvCartTransferItem', contains the following fields: 'From Cart ID:', 'Current Cart Location:', 'Item to transfer:', 'Qty to transfer:', 'From Cart Slot ID:', 'To Cart ID:', and 'To Cart Slot ID:'. An 'Accept' button is located at the bottom. The right window, titled 'WipReceiptCart', contains the following fields: 'Work Order:' (with a green highlight), 'Qty Remain:', 'Wip Qty:', 'Into Cart ID:', and 'Into Cart Slot ID:'. An 'Accept' button is located at the bottom.



ADVANCED SOP: LOAD MANAGEMENT

- Combines 1 to multiple sales orders which all go to the same address on the same carrier at the same time.
- Consolidates the pick list for all sales orders.
- Has cross dock master / master load to support staging multiple loads to a distribution center.
- Support for load assignment to a picker.
- Ability to pick by warehouse location zone.
- Pick to LPN / Container for customer EDI 856 pallet level information.



LOAD PLANNER

SO Load Planner

File

Load ID Load Status Assigned Picker Ship To Address

Last User Update Pickup Date Estimated Weight Line 1

Date Updated Pickup Time Line Count Line 2

Load Notes

Item Count Line 3

Order Count City State

Unique Items Zip Country

Record Version Carrier

Orders Assigned | Orders Available

Sales Order	Shi..	Carrier	Ship Date	Cus..	Sh..	Ship To Name	Address Line 1	Ship To City	Shi..	Ship To Zip
5031	2	UPSC	9/6/1994	1024	387	Sears - Eastern Warehouse (Sears Systems, Inc)	78654 Maple Avenue	Newark	NJ	52414
5038	5		9/6/1994	1099		St. Paul Computing (St. Paul Computing)	14236 Plymouth Road	Brooklyn Park	VA	22193
5053	1	UPSC	10/3/1994	1024		Sears Systems, Inc (Sears Systems, Inc)	Building Two	Minneapolis	MN	55426-4913
520	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
521	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
522	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
523	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
524	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
525	1	UPS	10/24/2017	1024		Sears Systems, Inc (Sears Systems, Inc)	Building Two	Minneapolis	MN	55426-4913
527	1	UPS	10/24/2017	1024		Sears Systems, Inc (Sears Systems, Inc)	Building Two	Minneapolis	MN	55426-4913
528	1	UPS	2/20/2019	1024		Sears Systems, Inc (Sears Systems, Inc)	Building Two	Minneapolis	MN	55426-4913

Add Order | Filter Customer: | Filter Only Qualified



LOAD PLANNER WITH FILTER APPLIED

SO Load Planner

File

Load ID Load Status Assigned Picker ... Ship To Address

Last User Update Pickup Date Estimated Weight Line 1

Date Updated Pickup Time Line Count Line 2

Load Notes

Item Count Line 3

Order Count City State

Unique Items Zip Country

Record Version Carrier ...

Orders Assigned | Orders Available

Sales Order	Shi..	Carrier	Ship Date	Cus..	Sh..	Ship To Name	Address Line 1	Ship To ..	Shi..	Ship To ..
520	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
521	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
522	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
523	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000
524	1	UPS	10/3/1994	1024	117	Sears Systems, Inc. (Sears Systems, Inc)	25636 Avenue Street	Redlands	CA	90000

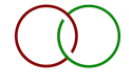
Add Order | Filter Customer: | Remove Filter



NEXUS PAGE REPORT EDITOR

The screenshot displays the Novo Report Designer interface for editing a report titled "SOPackSlipByContainer.rdlx". The main design area shows a report layout with the following elements:

- Page Reports Library (Left):** A list of report components including BandedList, Barcode, Bullet, Calendar, Chart, CheckBox, Container, FormattedText, Image, Line, List, Map, OverflowPlaceHolder, Shape, Sparkline, Table, and TableOfContents.
- Design Canvas (Center):** A grid-based workspace containing:
 - Header section with fields: "Packslip Number" (formula: `=[So_Nbr] & "-" & [Shipment]`), "Customer Order Number" (formula: `=[Cust_Ord]`), and a page number field (formula: `="Page " &`).
 - Barcode sections for the packslip and customer order numbers.
 - "From Address:" section with formula: `=[FromAddress]`.
 - "Ship To Address:" section with formula: `=[Ship_To_Name] & vbcrf & [Ship_To_Address1] & vbcrfIIF([Ship_To_Address2] = "", "" & [Ship_To_Address2] & vbcrf) & [Ship_To_City] & " & [Ship_To_State] & " & [Ship_To_Zip]`.
 - Table section with columns: "Container ID" (formula: `=[ContainerID]`), "Part Number" (formula: `=[PartNumber]`), "Item Description" (formula: `=[ItemDescription]`), and "Total Pick Qty" (formula: `=[TotalPickQty]`).
- Report Explorer (Right):** A tree view showing the report structure, including "Page 1", "Data Sources", "dsServer", "dsPickDetail", "Server Data Sets", "Parameters", "SalesOrderNumber", "Shipment", "Embedded Images", and "Embedded StyleSheet".
- Property dialog (Right):** A pane for configuring the selected element's properties, showing sections for "Appearance" (Background, BorderColor) and "Data" (FixedLayout, ThrowIfPlace).
- Bottom Bar:** Includes a "Page 1" tab, a "New" button, and a mode selector with "Designer" (selected), "Script", and "Preview" options. It also features a zoom level of 100% and "Row Groups" and "Column Groups" indicators.



NUGM 2024

THANK YOU

Marc Harbeson, NovoROI Systems

