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CHAPTER 14 - CROSS DOCKING & TRANSLOADING

Cross Docking

There are 2 types of Cross Docking available in SYNAPSE

1. Opportunistic – Depending on the customer settings and order line backorder policy, SYNAPSE will attempt to fill the order with incoming received inventory until the order is shipped.
2. Planned – A receipt order ID is directly linked to an outbound order line item. When the receipt order is received, the outbound order is removed from HOLD status and the order is available for wave planning.

During the receiving process for the inbound order, the inventory to be used for the outbound order is moved to the designated Cross Dock location for later picking. The other inventory from the receipt is put away normally.

Creating Cross Dock Locations

Add the cross dock location(s) for the facility. The location type must be “CD” (cross docking). If the database does not have this location type available, add it to the location types validation table.

Setting up Facility Default Cross Dock Location

The screenshot shows the 'Facility ZET - Zethcon Corporation' window with the 'Options' tab selected. The 'Default Cross Dock Location' is set to 'XDOCK00'. There are several checkboxes for enabling location checks, cycle count summaries, and restricting putaway. A table at the bottom shows the current carrier and zone settings.

Carrier	Zone	Last User	Last Update
3WAY	EAST	SWINCHELL	12/29/2011 9:57:19 AM

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Setup/Facility Maintenance/Options

This will be used as the cross-dock location for the opportunistic processing and the default location for planned cross docking.

Since locations can't be added until a facility is added, this field needs to be entered after the cross dock location(s) are added.

Setting up the Customer to Allow for Cross Docking

Customer 1CALJAM-California Distribution

Options - 1 | **Options - 2** | Options - 3 | Options - 4 | Options - 5 | Instructions | BOL Comments | Pack List | Audit Locations | Carriers | Notification | SIP | TMS | Custom BOL # | Carrier Note

Wave Template for Imported Orders: [Dropdown]

☐ Reject short orders and allow resubmission ☐ Line Number Processing ☐ Pick by Line Number

Order Confirmation Export Format: [Dropdown]

Reject Notification Export Format: [Dropdown]

CHEP Sender ID: [Text Field]

Consolidated Waves Template Defaults

☐ Consolidate Orders

Shipment Type: [Dropdown]

Carrier: [Text Field]

Service Level: [Text Field]

Shipment Cost: [Text Field]

Pallet Tracking Defaults

Default Quantity: [Text Field]

Default Pallet Type: [Dropdown]

Assign Stop By Passthru

☐ Auto Assign Stop

Load Field: [Dropdown]

Stop Field: [Dropdown]

Generate BOL Number

☒ No
☐ Yes - By Ship To
☐ Yes - By Ship Terms/Postal Code
☐ Yes - By Customer/Ship To
☐ Yes - By Customer/Ship Terms/Ship To

☒ Allow mixed orders on outbound shipping plates ☐ Track Picked Pick Front Plates
☐ Track Outbound Trailer Temperatures ☐ Allow outbound order entry of minimum days to expiration
☐ Shipping Insurance
☐ Calc Qty from Item on Catch Weight Order by Weight

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Setup/Customer Maintenance/Shipping/Options - 2

Uncheck the "Reject short orders and allow resubmission" box on the customer setup/shipping/options - 2 tab. If this box is checked, a short order is cancelled upon commitment, regardless of the back order policy of any of the line items.

Opportunistic Cross Docking

Order Item Settings

The Back Order Policy for the order item needs to be set (Order/Item/Shipping Tab) to allow for cross docking.

Order 370191-1 Item: 1001

Item Info | **Shipping** | Comments | Addl. Info

Inventory Class Selection: ☒ Include ☐ Exclude **RG**

Inventory Status Selection: ☒ Include ☐ Exclude **AV**

Quantity Type: **Exact**

Backorder Policy: **NoBackOrder**

Short Shipment Reason:

Allow Substitutions: ☐ Yes ☒ No

Cross Docking Information

Receipt Order ID: Ship ID: Location: Default Location: **XDOCK00**

Regenerate Picks

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Item/Shipping

Valid Back Order Status Codes:

A	Backorder the entire line-item	BackOrderAll
C	Use Customer Default	Cust Default
N	No Backorder--Ship Short	NoBackOrder
P	Ship Available--backorder rest	BackOrdrPart
X	Cancel the line-item	Cancel

Opportunistic Cross Docking logic will be in effect if Back Order Status on the order item is:

N	No Backorder--Ship Short	NoBackOrder
P	Ship Available--backorder rest	BackOrdrPart

NO Opportunistic Cross Docking logic will be executed if Back Order Status on the order item is:

- | | | |
|---|--------------------------------|--------------|
| A | Backorder the entire line-item | BackOrderAll |
| X | Cancel the line-item | Cancel |

Wave Planning/Release for Opportunistic Cross Docking

- Once the order is released in a wave, the order is available for the opportunistic cross docking.

Planned Cross Docking

Order 370315-1 Item: 1013

Item Info | **Shipping** | Comments | Addl. Info

Inventory Class Selection: ☒ Include ☐ Exclude RG

Inventory Status Selection: ☒ Include ☐ Exclude AV

Quantity Type: Exact

Backorder Policy: BackOrdPart

Short Shipment Reason:

Allow Substitutions: ☐ Yes ☒ No

Cross Docking Information:

Receipt Order ID:	Ship ID:	Location:	Default Location:
370314	1		XDCK00

Regenerate Picks

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Edit/Orders (outbound)/Item/Shipping Tab

Cross Dock Information is on this tab so a CSR can specify the following for an outbound order:

- The associated cross dock receipt order.
 - The specified receipt order must have less than "A"rived status.
 - Only one receipt order can be associated with an order line but more then one receipt order can be associated with the order.
 - The cross dock location to be used for the pick tasks.

- If no entry is made, the system will use the default value specified on the Setup/Facility form.

Procedurally, the outbound order that is being entered is left in a “0” – Hold status. Once the receipt order is “Arrived”, the system will direct enough full receiving LiPs to the cross dock location instead of doing the normal putaway. Additionally, upon the receipt order arrival, the outbound order’s status will be automatically updated to “1” – Entered. This will be a signal to the wave planner that the order can be released.

If more than one receipt order is attached to an outbound order, the outbound order will remain in Hold status until all the receipt orders have arrived.

When the outbound order is released, the pick tasks generated will be Line Picks (task type = “PK”).

Controlling Cross Dock Functionality

At the Customer level there is an option to define what type of opportunistic cross docking is allowed for the customer. The following are the available options and definitions:

- All XDock Processing - system will only create XDock picking tasks – no picking tasks from storage.
- No XDock Processing - system will not create any XDock picking tasks.
- Standard XDock Processing - system default, the system creates XDock picking tasks in the standard manner, just like current processing.

Setup/Customer Maintenance/Shipping/Options-1Tab

Synapse 2 - [Customer 1CALJAM-California Distribution]

File Edit Lookup Requests Setup Window Utilities Billing Freight Billing Help

Name: Receiving Shipping Billing Dictionary Labeling Facility Settings Handling Trading Partners

Options - 1 Options - 2 Options - 3 Options - 4 Options - 5 Instructions BOL Comments Pack List Audit Locations Carriers Notification SIP TMS Custom BOL # Carrier Note

Default Backorder Policy: Backorder CSR E-Mail: ☐ Estimate Cartons

BackOrdPart ☐ Load Plate On Label Print

Allow Substitutions ☐ Yes ☒ No ☐ Allow Shipment Split

Default Inventory Status Selection ☒ Include ☐ Exclude AV

Default Inventory Class Selection ☒ Include ☐ Exclude RG

Shipment Order Quantity Type: Exact

Acceptable Pick Range (% of ordered)
Minimum: 0 Maximum: 100
(Default values for approximate quantity types)

Weight Check Required ☐ Yes ☒ No

Order Check Required ☐ Yes ☒ No

LP Substitution Reason Required ☐ Yes ☒ No

Default Bill Freight To: 44306

Auto Short Ship Small Pkg Orders ☐ Yes - No Back Order

☐ Yes - With Back Order

☒ No

Miscellaneous Shipping Requirements ☐ Require Short Shipment Reason

☐ Require Late Shipment Reason

Allowable Time Variance: minutes

☒ Allow Order Changes During Picking ☐ Order By Lot

FIFO Processing ☐ Enabled ☒ Disabled

FIFO Window Days:

XDock Processing:

Code Abbrev
A AllXDock
N NoXDock
S StndrdXDock

Consignees

Consignee ID	Last User	Last Update
00926	JSTANCYK	4/14/2010
02343	JSTANCYK	4/14/2010

Automatic Pro Number Assignment
Consolidate Orders By:

Carriers

Carrier	Event	Last User	L

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Order Info/Shipping Tab

The cross dock options are also available to be set at the Outbound Order level.

Order 370313-1 for Customer 1CALJAM

Order Info Shipping Summary Comments Ship To Addl. Info Transportation Ship Dates History Billing

Ship To: AVON CUSTOM MIXING
02343 SPRING ST.
HOLBROOK, MA 02343
☐ One-Time
781-767-0511

Bill Freight To:
☐ One-Time

Carrier: ABF ABF FREIGHT SYSTEMS
PH-330-673-8545 / FX 330-673
330-673-8545
Delivery Service:
☐ Saturday Delivery Okay

Shipment Type: LTL
Shipment Terms: Collect
Scheduled Ship Date: 10/23/2013
Arrival Date: 10/28/2013
Stage Location:
FTZ 216 Authorization:

Pro Number:
Component Template:
TMS Status: Not Appl
TMS Shipment Identifier:
TMS Release Identifier:
Status Update: 10/23/2013 09:52 PM

XDock Processing: NoXDock
Freight Value:
☐ Bill Freight

Routing Status:
Actual Cartons:
Package Cube:
Weight - Lbs:

Legend: Hazardous Over Short Cancelled

Drag a column header here to group by that column

Item	Lot Number	Order Qty.	UOM	Picked Qty.	Rcvd Qty.	Ship Qty.	Entered UOM	Entered Qty	Ordered Item	Status	Retu
1010		2	Case	2			Case	2	1010	Active	
1014		1	Case				Case	1	1014	Active	

2 3 0 2

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Billing Business Events

There are two business events specifically to support planned cross-dock processing:

- RCNX – Receipt Non-Cross Dock – Executed on inbound load close for receipt orders. Applies to quantities not sent to crossdock for pre-assigned orders.
- RCXD – Receipt Cross Dock – Executed on inbound load close for receipt orders. Applies to quantities sent to crossdock for pre-assigned orders.

Instead of a single RECO (Receipt Close) charge for an item, two business events would be set up, one for RCNX and one for RCXD. Everything received will fall into one of the two events.

Additional Information

Putaway tasks that are generated for a Cross Dock (Location type = CD) location cannot have the location overridden by the RF operator.

Order type of 'C' – Cross Dock and business event, 'XDCL' are both used for the Transloading function and are not used in traditional Cross Docking.

Transloading Function

The purpose of this process is to allow a simple method by which inbound receipts can be Trans loaded onto outbound trucks.

Notes:

- This functionality is not supported for (AI) aggregate inventory.
- This processing is separate from the current Opportunistic and Planned Cross docking options currently available in the system. Please see the earlier part of this chapter.
- This functionality was designed with the assumption that it will be used for whole unit processing whether that be one piece, case, or pallet.
- You can not receive a pallet of xx cases associated to one license plate (LP) and Trans load part of the xx cases to one destination and part to another. If this is the business need, then Opportunistic and Planned Cross docking functionality may better fit your needs.

Receiving

Order type 'C' (for Trans loaded orders) is used. This type of order operates almost identically to a receipt. It needs to be assigned to a load and arrived into a door in the same manner as a receipt.

The order maintenance form is designed so that "C" (Transload) orders is able to have a Trans load 'Ship To' consignee configured for them. When a Transload 'Ship To' consignee is established at the header level (by entering data in the field titled "Trans load Ship To" on the order info tab), the entire Transload order ship on one outbound order. Doing so allows a transload order to be entered efficiently, for which no detail is known or for which all product is to be shipped on one trailer.

Order/Order Info Header Tab

Order 370316-1 for Customer 1CALJAM

Order Info Shipping Summary Comments Ship To Addl. Info Receiving History Billing

Order ID: 370316 Ship ID: 1 Type: C Customer ID: 1CALJAM Cust PO: TRANS Reference: LOAD 1

To Facility: ZET Appointment Date/Time: RMA: Bill of Lading: Inbound Notice Order: ...

Status: Hold Status by: JSTANCYK Status Update: 10/23/2013 10:35 PM Priority: Normal Supplier: One-Time

Load: Stop: Shipment: Load Status: Load Appointment Date/Time: Transload Ship To: 00926 Has Consumables:

Wave: Print Receiver Reprint PO Confirmation Print Order Check

Items... Cancel Remove from Hold View Attachment Tab View Plates Transload Orders Create Overs

Print COA

Legend: Hazardous Over Short Cancelled

Drag a column header here to group by that column

Item	Lot Number	Order Qty.	UOM	Picked Qty.	Rcvd Qty.	Ship Qty.	Entered UOM	Entered Qty	Ordered Item	Status	Retu
1009		50	Case				Case	50	1009	Active	
1		50		0	0						

LINUX2TEST Facility ZET (Last Update by JSTANCYK at 10/23/2013 10:35 PM)

Order/Shipping Tab

Order 370317-1 for Customer 1CALJAM

Order Info Shipping Summary Comments Ship To Addl. Info Receiving History Billing

Ship To: One-Time

Bill Freight To: One-Time

Carrier: Delivery Service: Saturday Delivery Okay

Shipment Type: Pro Number: XDock Processing: NoXDock

Shipment Terms: Component Template: Shipping Cost: Freight Value:

Scheduled Ship Date: TMS Status: Not Appl Routing Status:

Arrival Date: TMS Shipment Identifier: Actual Cartons:

Stage Location: TMS Release Identifier: Package Cube:

FTZ 216 Authorization: Status Update: 10/23/2013 10:40 PM Weight - Lbs:

Legend: Hazardous Over Short Cancelled

Drag a column header here to group by that column

Item	Lot Number	Order Qty.	UOM	Picked Qty.	Rcvd Qty.	Ship Qty.	Entered UOM	Entered Qty	Ordered Item	Status	Retu
1005		100	Case				Case	100	1005	Active	
1		100		0	0						

LINUX2TEST Facility ZET (Last Update by JSTANCYK at 10/23/2013 10:40 PM)

For regularly entered (non-ASN orders; ASN processing at the end of this section) Trans load orders that are to ship to multiple destinations, the 'ship to' information must be entered at the line level by clicking on the radio button titled "trans load detail". This allows entry of a shipping location for a line or part of a line for the transload. If a header level 'ship to' consignee has been established, the user will not be allowed to enter line level 'ship to' consignee information as the entire trans load will ship on one outbound.

Order Info

Order 370317-1 for Customer 1CALJAM

Order ID: 370317 Ship ID: 1 Type: C Customer ID: 1CALJAM Cust PO: TRANS Reference: LOAD 2

To Facility: ZET Appointment Date/Time: RMA: Bill of Lading: Inbound Notice Order:

Status: Hold Status by: JSTANCYK Status Update: 10/23/2013 10:40 PM Priority: Normal Supplier: ☐ One-Time

Load: Stop: Shipment: Load Status: Load Appointment Date/Time: Transload Ship To: ☐ Has Consumables

Wave:

Legend: Hazardous Over Short Cancelled

Drag a column header here to group by that column

Item	Lot Number	Order Qty.	UOM	Picked Qty.	Rcvd Qty.	Ship Qty.	Entered UOM	Entered Qty	Ordered Item	Status	Retu
1005		100	Case				Case	100	1005	Active	

1 100 0 0

LINUX2TEST Facility ZET (Last Update by JSTANCYK at 10/23/2013 10:40 PM)

Item Info

Synapse 2 - [Order 370317-1 Item: 1005]

File Edit Lookup Requests Setup Window Utilities Billing Freight Billing Help

Item Info Receiving Comments Addl. Info

Ordered Item: 1005 Lot #: Quantity: 100 UOM: Case

Lbs.: Kgs.:

Item: 1005 Description: Prof. Snape Dark Magic UOM: Case

Status: Active Status by: JSTANCYK Status Update: 10/23/2013 10:40 PM

Item

	Ordered	Received - Total	Received - Good	Received - Damaged
Quantity:	100			
Lbs.:	500.0000			
Kgs.:	226.7962			
Cube:	57.8704			
Amount:	\$0.00			

Consignee SKU: Child Work Order ID: Overpick Quantity: Minimum Days to Expiration: 0

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If the user clicks on the Transload Detail button to enter multiple shipping destinations, the following screen will appear to enable the entry of the specific destination information.

Line Info

Transload Order 370317-1 Outbound Line Info

Line Info | Ship To | Addl. Info

Item: 1005 Lot #: Quantity: 30 Ordered UOM: CS

Ship To: ABC DISTRIBUTION
123 SPOOKY LANE
BOO TOWN CA 99999

☒ One-Time

Bill Freight To:

☐ One-Time

Carrier: ABF ABF FREIGHT SYSTEMS
PH-330-673-8545 / FX 330-673
330-673-8545

Delivery Service: ☐ Saturday Delivery Okay

Shipment Type:

Shipment Terms:

Scheduled Ship Date:

Arrival Date:

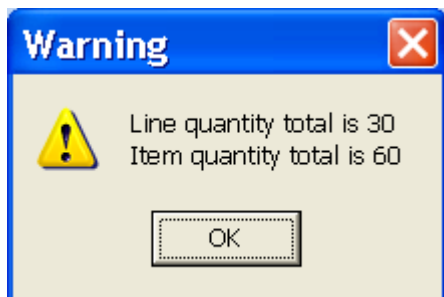
Stage Location: Pro Number:

Shipping Cost:

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If a transload order is entered, a corresponding outbound order (or orders if multiple destinations were configured) will be created when the transload order is removed from hold status. These order(s) will be an outbound (O) order. These outbound orders will not be able to be wave planned.

If a line on a Trans load order is to be shipped to a multiple destinations, the total quantity for the line must be accounted for. In other words, a line totaling 60 pieces must have line level shipments totaling 60 pieces.



Order 370317-1 for Customer 1CALJAM

Order Info Shipping Summary Comments Ship To Addl. Info Receiving History Billing

Order ID: 370317 Ship ID: 1 Type: C Customer ID: 1CALJAM Cust PO: TRANS Reference: LOAD 2

To Facility: ZET Appointment Date/Time: RMA: Bill of Lading: Inbound Notice Order:

Status: Hold Status by: JSTANCYK Status Update: 10/23/2013 10:40 PM Priority: Normal Supplier: One-Time

Load: Stop: Shipment: Load Status: Load Appointment Date/Time: Transload Ship To: Has Consumables

Wave: Print Receiver Reprint PO Confirmation Print Order Check

Items... Cancel Error Order could not be released. View error messages? Yes No

Print COA New Plates Transload Orders Create Overs

Legend: Hazardous Over Sh

Drag a column header here to group by that column

Item	Lot Number	Qty.	Rcvd Qty.	Ship Qty.	Entered UOM	Entered Qty	Ordered Item	Status	Retu
1004	102313	60			Case	60	1004	Active	
1005		100			Case	100	1005	Active	

2 160 0 0

LINUX2TEST Facility ZET (Last Update by JSTANCYK at 10/23/2013 11:00 PM)

Synapse 2 Application Messages

User ID: Facility: Customer ID: Source (Author): VALIDORDER Date Range: 10/23/2013 until 10/23/2013

Type: Description: Created Updated

Record Limit: 100 Create Alert Alert Manager

Legend: Error Warning Trace FYI

Drag a column header here to group by that column

Created	User	Type	Source	Description	Facility	Customer	Last Updated
10/23/2013 11:00 PM	JSTANCYK	Error	VALIDORDER	Order 370317-1: Item 1004 quantity mismatch. Item quantity ZET	1CALJAM		10/23/2013 11:00 PM

For outbound orders, a button appears near the Duplicate Order button on the order maintenance form labeled 'Transload Orders'. This will only be visible for outbound orders associated with a Transload order. When clicked, this button will bring up a list of orders that are associated with the one being viewed.

Order 370318-1 for Customer 1CALJAM

Order Info Shipping Summary Comments Ship To Addl. Info Transportation Ship Dates History Billing

Order ID: 370318 Ship ID: 1 Type: 0 Customer ID: 1CALJAM Cust PO: TRANS Reference: LOAD 1

To Facility: Appointment Date/Time: RMA: Bill of Lading:

Status: Entered Status by: JSTANCYK Status Update: 10/23/2013 11:07 PM Priority: Normal Shipper: One-Time

Load: Stop: Shipment: Load Status: Load Appointment Date/Time: Has Consumables

Wave:

Print Receiver Reprint PO Confirmation Print Order Check Release Order

Items... Cancel Assign to load... Print Pack List Duplicate Order

Print COA View Attachment Tab View Plates Transload Orders Create Overs

Legend: Hazardous Over Short Cancelled

Drag a column header here to group by that column Grid Actions

Item	Lot Number	Order Qty.	UOM	Picked Qty.	Rcvd Qty.	Ship Qty.	Entered UOM	Entered Qty	Ordered Item
1009		50	Case				Case	50	1009

1 50 0 0

LINUX2TEST Facility ZET (Last Update by JSTANCYK at 10/23/2013 11:07 PM)

For Transload orders, the Trans load Orders button will be outbound orders. When clicked, this button will bring up a list of orders that are associated with the one being viewed. The user can 'double click' so that an associated order can be opened.

Order Look-up

Basic Advanced

Facility: ZET Order Type: Carrier: Bill To: Active Orders Only

Customer ID: 1CALJAM Order Status: Delivery Service Code: Ship To: Recent Orders

Order ID: 370316-1 Order Priority: Customer PO: Item: Descending Order

Wave: Shipment Type: Reference: Ordered Lot Number: Record Limit: All

Load No: Ship Terms:

Legend: Hot Hazardous Cancelled Hold Ship Short

Drag a column header here to group by that column Grid Actions

Order ID	Ship ID	Order Status	Customer	Order Type	Qty Ordered	Qty Received	Qty Shipped	Qty Picked	Appointment	Ship	Customer PO	RMA
370316	1	Entered	1CALJAM	Transload/CD	50	0	0	0			TRANS	

1 50 0 0 0

Users will need to assign the orders to a load and arrive the load for the outbound order or orders associated with the transload in the same manner as they do currently.

As users create plates during either 1-step receiving or ASN receiving, detail for the plates created will be added or updated to the orders associated with the transload order.

During RF Transloading, users are be able to modify the putaway location so that, even if there is an outbound order arrived into a door, the user can still override the suggested door location and stage plates to a staging location of their choice.

****Trans load inventory can not be put into storage locations.***

During Trans loading, inventory that is appropriate to be loaded on more than one arrived outbound load will be directed to the door closest to the door from which the product is originating. The proximity of doors will be determined by their pick sequence. The closest door will be defined as the one whose pick sequence number is closest to the pick sequence of the originating door. The user will not be required to use the closest door but will be allowed to load a different door provided the outbound order in the different door is shipping to the appropriate destination and is associated with the Trans load order.

Overages for single outbound Transload orders will be directed to Transload as usual.

Overages for multiple outbound Transloads will be directed to a staging location and can then either be manually loaded on the appropriate outbound load or not shipped at all.

The purpose of this is to allow the user to determine what to do with product for which it can not be easily determined where it should be shipped.

In the event that all of the plates to be Transloaded can not fit on the outbound load, the RF restaging functionality will work as it does currently to allow the outbound order to be split. This will also allow for an inbound Trans load to be split into multiple destinations.

Transloads and their associated outbound orders will be closed independently of one another but the process will be the same as that for a normal outbound.

A check will be performed prior to closing an outbound order associated with a transload order. A warning will be displayed if all expected material has not been transloaded for an outbound order. This warning can be overridden.

****Product not shipped on an outbound order associated with a Transload order must be de-picked to be returned to stock.***

ASN Receiving

This order type ("C") will allow the same carton level detail as a traditional ASN receipt, in addition, as part of the data that will be accepted for the ASN receipt, an outbound consignee code will be accepted.

- The supporting transaction for the Trans load order will log error messages if an unknown consignee code is received as part of an ASN Trans load. When a Trans load order is received with ASN carton detail, an order will be created for each unique consignee code contained in the inbound file. The outbound orders will have the same values in the key header fields (reference, PO, etc) as the Trans load order.

These orders will be visible using the Transload Orders lookup button.

The RF ASN receiving functionality will be the same as it is currently with respect to receiving the plates expected on the receipt. *However, rather than requiring putaway, the system will allow the user to put the plates away to a staging location if the outbound order associated with the Transload is not arrived.* If it is, the user will be directed to the appropriate door as he is today when that functionality is enabled for normal outbound staging.

Billing

Two business events “XDockReceipt” & “XDockClose” are available in order to configure billing specifically for Transload orders.

Security

No additional security is needed to utilize this function.