Eclipse Interface for Use with RouteView

Release 8.6.4 (Eterm)

Legal Notices

Activant® Eclipse™ 8.6.4 (Eterm) Online Help System

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Eclipse Interface for Use with RouteView Overview

The Eclipse Interface for Use with RouteView is a companion product that you can use to transfer order data to the RouteView third party routing software that determines the delivery method, creates and sequences orders onto shipping manifests, and then sends the manifest data back to the Eclipse system.

RouteView has specialized software that can optimize routes and sequence delivery stops. Using their services expedites the delivery of your process.

The interface contains the following two parts:

- At the end of the day or designated time period, a phantom process in the Eclipse system exports your order information to RouteView, which creates sequenced truck routes that equate to Eclipse shipping manifests.
- When the routing process is complete, RouteView uploads a file containing the routing data to the Eclipse system. The system imports the data, creates a shipping manifest for each route, and updates the orders with the shipping information.

Setup Requirements for the RouteView Interface

The following are control maintenance records used for RouteView, along with additional setup requirements.

Control Maintenance Records

Complete the following control maintenance records:

- Hold Pick Ticket For Routing Interface SVIA

  Indicate whether the system holds the printing of pick tickets for routed orders until after the system receives the routing data from the third party routing software.

  - **Y** – The pick ticket prints after the third party software has routed the order and sent the routing data back to the Eclipse system.
  - **N** – The pick ticket prints before the system sends the order data to the third party routing software.

- Routing Administrator

  For each branch, enter the routing administrator settings by completing the following fields:

  - **Branch** – Enter the branch for which to assign the routing administrator settings.
  - **Administrator to Receive Communications** – Enter the user or message group to whom to send routing communications and error messages.
  - **Communication Method** – Select whether the system sends manifest comment notification as a message or a tracker.

- Routing Ship Vias

  For each branch, enter the ship vias to route by default to the third party routing software. If you leave this record blank, defaults are not defined.

Setting Up Ship Vias for Routing

Before using the routing interface, in Ship Via Maintenance create ship vias for each routing interface zone.

Note: Each ship via you create for the routing interface must also be designated in the routing software.

Exporting Order Data to RouteView

Use the Routing Order Exporter screen to select and export order data from Eclipse to RouteView.

The system selects all invoiced sales order generations with a ship date in the designated date range and a ship via and ship branch matching the inputs and then downloads a file containing the corresponding customer information and order data. You can also set the export to include purchase orders and transfers.

> **Note:** Shipping address changes made on the sales order Header are not communicated in the interface. The system always downloads customer address information from the entity record.

To export order data to RouteView:

1. From the **System > Custom > Routing** menu, select **Order Download** to display the Routing Order Exporter screen.
2. In the **Branch** field, enter the branch for which you want to export order data.

   Note: "All" is not a valid option for this field.

   The system populates the **Ship Via** field with the defaults specified in the Routing Ship Vias control maintenance record.
3. In the **Start Date** and **End Date** fields, enter the date range from which to select order data to export.
4. In the **Ship Via** field, override the ship via defaults for which to export order data, as needed.

   Use the **Multi** hot key to enter multiple ship vias.
5. In the **Include POs** field, enter **Y** to export purchase order data along with the sales order data.
6. In the **Include Transfers** field, enter **Y** to export transfer order data along with the sales order data.
7. Export the order data in one of the following ways:
   - Use the **Begin** hot key to export the data immediately.
   - Use the **Schedule** hot key to display the Phantom Scheduler screen, where you can schedule the export to run at a later time.

   Note: You cannot change the date when scheduling the export.

   The system sends one of the following messages to the designated routing administrator:
   - Routing order file download to branch *branch#* is complete.
   - No orders were selected for download to route for branch *branch#*.

Export File Layout

When the routing interface downloads order data, the system places a file called ROUT~*branch#*.RNC in the Eclipse system's msg-out shared folder. The file contains the information listed in the following table for each invoiced sales order generation that is selected.

RouteView might automatically detect files with .RNC extensions in the msg-out folder, or a user might have to manually move the file into the routing software.

If a file with the same name already exists in the msg-out folder, the system overwrites the existing file.

Note: Shipping address changes made on the sales order Header are not communicated in the interface. The system always downloads customer address information from the entity record.

Export File Information			
Field	**Field Name**	**Data Type**	**Description**
01	Bill ID*	Character	Bill number *must* be unique and *cannot* contain spaces (key field). (Order ID)
02	Location ID*	Character	Location ID *must* be unique for each customer. (Customer ID)
03	Location Code	Character	Location ID extension / suffix
04	Location	Character	Location name (customer's name)
05	Address*	Character	Primary ship-to address (physical address)
06	Address2	Character	Secondary street address (description of primary address)
07	City*	Character	Ship-to city
08	State*	Character	Ship-to state
09	Zip*	Character	5-digit ship-to postal code (6 digits for Canada)
10	Plus4	Character	4-digit postal code extension
11	ArrivalDate*	Character	Format: MM/DD/YYYY (must include the / delimiters)
12	Shipper	Character	Name of the shipper (this field can also be used for a primary telephone number)
13	Pieces	Integer	Total pieces for each bill (qty on order)
14	Weight	Integer	Total weight for each bill
15	Cube	Decimal	Total cube for each bill
16	Units	Decimal	Relative unit of measurement
17	Units2	Decimal	Additional relative unit of measurement

Export File Information			
18	Domicile*	Character	Abbreviation for the terminal handling the deliveries (this *must* start with an alpha character - usually DC - Distribution Center)
19	CargoType	Character	Cargo type code (D = Delivery)
20	Appointment Time	Integer	Appointment time Format = HHMM in military time (no colon)
21	Required Time	Character	Indicate a request time or time window, such as "B10" or "Before 10"
22	Standard Trip ID	Character	This field is intentionally left blank.
23	Note1	Character	Comment, such as delivery instructions
24	Note2	Character	Comment
25	Note3	Character	Comment

* Denotes fields that must contain data.

How the System Processes Manifest Data Imported From RouteView

The RouteView software processes the order information downloaded from the Eclipse system and creates sequenced truck routes that equate to manifests in Eclipse. When the routing process is completed, RouteView creates a file named ROUT~brnch#.RNC and places the file in the Eclipse system's msg-in shared folder.

The Eclipse system polls the msg-in folder and processes the data.

Successful Processing

For successful processing of an import file, the system does the following:

- Creates a manifest from the imported file for each ship via RouteView processed.
- Sends the following messages to the user or message group identified in the Routing Administrator control maintenance record:
  - Routing upload for branch *branch#* is complete.
  - The following manifest was created: *manifest#*.
- Prints pick tickets for each order on the branch default printer, or the pick ticket override printer assigned to the ship via, in reverse route sequence.

  For example, for a manifest with 10 stops, the system prints the pick ticket for the tenth stop, followed by the pick ticket for the ninth stop, and so forth.

  The setting in the Hold Pick Ticket For Routing Interface SVIA control maintenance record determines when the pick ticket prints.
- Updates the order as follows:
  - Changes the ship via to the ship via indicated by RouteView.
  - Changes the stop number in attribute 24 of the ledger log file to that indicated by RouteView.
  - Adds the following routing entries to the change log:
    - The old and new stop number, or a message that it was not changed.
    - The old and new ship via, or a message that it was not changed.
    - A reference to the manifest to which the order was added.

Error Handling

If an error occurs during the upload process, the system sends the following summary message to the user or message group designated in the Routing Administrator control maintenance record:

> Routing upload for branch *branch#* is complete. No manifests were created. *N* errors during processing.

The following table lists the errors that can prevent RouteView from creating manifests. The table shows the error and the message that the Eclipse system sends.

Error	Message
Sales order already on manifest	Could not add *salesorder#* to manifest *manifest#1*. *Salesorder#* is already on manifest *manifest#2*.
Invalid sales order #	Invalid sales order #.
No data in upload file	No data in Routing upload ROUT~*branch#*.RNC file.
Orders sent but not routed	Routing upload for branch branch# is complete. The following manifest was created: manifest#1. Warning!!! The following orders were not routed: salesorder#1 salesorder#N. For example, if the Eclipse system exported 100 orders and imports manifest data for only two orders, the message lists the 98 unrouted orders. **Note:** The system stores the last sent orders temporarily to provide the detail in the above message. If the next upload includes manifest data for two of the 98 remaining orders, the system does *not* include a message that 96 orders still remain unrouted.

In some cases, the system processes manifest data that contains errors. The following table explains what can occur and the action the system takes.

Error	Action
Invalid Ship Via	If the manifest data received from the third party software contains an invalid ship via, the Eclipse system updates the order and creates a manifest using the imported value.
Canceled Sales Order Generation	A sales order generation that has been canceled since it was exported to the routing software does not create an error. The system places the order on the manifest and displays "Warning!!" below the order number, because the ship date on the added canceled generation is blank and consequently not equal to the manifest ship via.
Multiple orders for the same stop	Orders uploaded as being on the same stop with different times cause estimated delivery time data corruption; however, the system still adds the orders to the manifest.
Invalid or non-existent customer ID	An invalid or nonexistent customer ID is acceptable, because the order number is the key.
Multiple drivers	If multiple drivers are specified, the driver identified on the last stop (highest stop number) is updated on the header of the manifest.

Error	Action
Multiple ship dates	The only date that is utilized from the import file is the Route Start Date for the last stop. This is used as the Ship Date for the manifest. Additional dates for individual orders are not captured or used. Only the arrival time is posted on the manifest. No ship dates are modified on the orders
Multiple route times	If multiple route start times are sent, the values for the last stop are used for the header of the manifest.
Different branch or invalid order ID	The system does not add orders for another branch or invalid order IDs to the manifest and does not generate an error.

Manifest Import File Layout

When the third party routing process is completed, RouteView creates a file named ROUT~brnch#.RNC and places the file in the Eclipse system's msg-in shared folder. The file contains the information listed in the following table.

Manifest Import File Information					
Field	**Eclipse Value**	**Length**	**Length Sum**	**Eclipse Utilization**	**Example**
Customer ID	Ship-To Entity ID [Numeric]	15	15	None	29583
Order #	Order Gen	15	15	Added to Manifest	S1000000.001
Holding Place		40	70		
Ship Via	String	17	87	Changed on order – key to manifest	UPG – UPS GROUND
Stop Number	Numeric	3	90	Key to sequence on manifest	1
Arrival Time	HHMM Military Time	5	95	The time added to the manifest	1810
Arrival Date	YYYYMMDD	9	104	None	20051206
Depart Time	HHMM Military Time	5	109	None	1820
Depart Date	YYYYMMDD	9	118	None	20051206
Holding Place		16	134		
Route Start Time	HHMM Military Time	5	139	Manifest Header Start Time	0800
Route Start Date	YYYYMMDD	9	148	Manifest Header Ship Date	20051206
Driver ID	String	8	156	Manifest Header Driver	JOES
Line Feed	Char 10	1	157		

