

E-Ship

Navision E-Ship integrates the entire packing and shipping function within the Navision database. Until now Navision customers have interfaced with external shipping systems. These external systems, while doing a good job of rating and shipping packages, do not have knowledge of the items being shipped. Because E-Ship is held within Navision it can easily:

- **Shop rates at Sales Order entry time** thus allowing you to quote the shipping cost up front.
- **Capture package level detail** using our unique **Scan-Only packing** operation.
- Interface with **Scales** to weigh packages.
- Use **Barcode printers** to print shipping labels.
- Automatically **calculate the cost and price of the container** for COD and Insurance purposes.
- **Compare** the expected **contents weight** with the **actual weight** of the package thus preventing packing errors.
- **Update the sales order** with the appropriate **freight charges**.
- Use either **G/L Accounts or Resources** to post **freight charges** to a Sales Order.
- **Track** the **cost of shipping** by Shipping Agent and Service versus the amount charged to the customer.
- **Track Packages** and obtain delivery information from within Navision via the Internet.

E-Ship integrates with:

- Navision Financials
- Navision Advanced Distribution
- Navision Manufacturing
- Navision Attain

E-Ship is made up of the following 11 Granules:

Packing

Pack Line Scanning

Pack Line Scanning captures package level detail using a Symbol barcode scanner attached to a PC keyboard. This unique packing operation allows the user to perform the following functions while using only the scanner:

- Select a sales order by scanning the sales order number from pick ticket or a printed copy of the sales order.
- Open a package by scanning the first item to be packed.
- Pack additional items in the package by scanning each item as it is placed in the package.
- Optionally capture outgoing serial numbers during the scanning and packing process.
- Close the package by scanning a close package command.
- Weigh the package via the scale Interface.
- Print a carrier approved shipping label using a barcode printer.
- Pack additional packages for the sales order.
- Update freight charges to the sales order as each package is closed.
- Close the sales order by scanning a close order command. Depending on system setup the close order command can close the order, post a shipment, or post a shipment and invoice.

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This, scan only approach, dramatically increases the accuracy of packing as well as reducing the amount of labor required.

It is also important to note that Pack Line Scanning can also be used to ship without capturing package level detail using the following procedure:

- Scan the sales order number on the pick document or printed copy of the sales order.
- Pack the package without scanning the items.
- Scan the close container command, which retrieves the weight from the scale.
- Freight charges, shipping labels, and manifest transactions are created as usual even though the package level detail is not captured.

Pack Line Scanning can also be used to ship and capture pack level detail required by the retail industry. Many times these shipments are made via LTL or Contract carriers. In this case E-Ship works together with EDI and the Bill of Lading granule to create Advanced Shipment Notices (856) for the retail industry.

Standard Pack

Standard Pack provides an ability to easily pack many standard packages such as cases without scanning and weighing each package. This feature is often used to comply with retail chain package labeling and detail requirements.

Fast Pack

Fast Pack provides an alternative to the scanning interface but the Pack Line Scanning granule is required because it uses the same package detail transactions.

Scales Interface

E-Ship interfaces with various scales using an OCX control. This control can be easily configured to support most scales by entering communications port, baud rate, scale commands and the definition of the returned data in the scale setup window.

UPS Manifest

The UPS Manifest granule utilizes the Host Manifest Upload interface to provide the following functions:

- Rates Shipment by Package (Domestic & International)
- Supports Hundred Weight
- Prints UPS shipping labels
- Creates Electronic Manifest transaction
- Prints Manifest and Pick Up Label
- Uploads UPS Electronic Manifest via Host Manifest Upload.

FedEx / FedEx Ground (FedEx Ground formerly RPS)

The FedEx Manifest granule provides the following functions:

- Rates Shipment by Package (Domestic & International)

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- Supports FedEx and FedEx Ground
- Sends Electronic Manifest transaction via Internet to FedEx
- Receives rated transaction
- Prints FedEx compliant labels
- Prints Manifest
- Uploads Electronic Manifest

LTL (Less Than Truck Load)

The LTL manifest granule provides the following functions:

- Provides a planning function allowing multiple sales orders to be combined for shipment using the Bill of Lading granule.
- Allows Rating and Quoting at both the sales order and shipment level.
- Records shipping quote at the Bill of Lading level as well as allocating charges back to the sales order.
- Integrates with the Freight Bill Reconciliation granule.
- Allows the manual entry or import of freight rates. (LTL freight rates can be obtained from a 3rd party service.)

Bill of Lading

The Bill of Lading granule provides the following functions:

- Shipment planning allows the consolidation of multiple sales orders into a single shipment.
- The BOL provides a basis for the LTL freight-quoting feature.
- The BOL provides a summary view of the entire shipment including packages and pallets if E-Ship packing is used.
- Provides the basis for an EDI Advanced Shipment Notice with package level detail.
- Prints various shipment summary reports.
- Prints a Bill of Lading

Label Formatter

The Label Formatter granule provides the ability to define customer specific UCC barcode labels.

- Supports both Eltron and Zebra printers.
- Mapping utility provides label printing without programming.
- Supports all common barcodes.
- Assigns label format to a customer or group of customers.
- Prints label from Fast Pack, Standard Pack, and Pack Line Scanning information.
- Prints label at package close or in a group after entire shipment is packed.
- Supports UCC128 and SCC14 labels required by Retail Chains.

E-Mail Formatter

The E-Mail Formatter granule provides the ability to map E-Mail formats and integrate them with Sales documents.

- Supports Sales Order Confirmation, Shipment Notification, Statements, Invoices, and Bill of Lading.

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- Shipment Notification integrates package level detail and package tracking numbers.
- Can easily be modified to support other Navision transactions and documents.

Rate Shopping

E-Ship allows rate shopping at Sales Order Entry time so the customer can quote the total price to the customer.

- Rates the shipment
- Totals the order and shipment charge to allow quoting of the delivered price.
- Allows the quoting of a freight amount. If quoted, the price of the freight charge on the sales order remains the same at shipment time while the cost is updated with the actual charge.

Freight Invoice Reconciliation

The Freight Reconciliation granule, similar to bank reconciliation, provides the ability to reconcile the shipping charges created during shipping with the freight vendor invoice.

Input Conversion

Input Conversion allows for the reformatting of scanned data such as UPC, Item, and Serial Number. For example, many manufacturers add prefixes and suffixes to their serial number and item number barcodes. The Input Conversion granule provides a means of removing these prefixes and suffixes to get to the data needed.

Input Conversion can also be used to define the barcodes and assign them to items.

System Requirements:

E-Ship uses OCX controls to interface with the FedEx API, and communicate with scales, therefore if these granules are used the customer must also license Navision OCX support.

E-Ship supports the following hardware:

- Symbol model 4000 keyboard connected scanner or equivalent.
- Most scales using RS232 connection to PC communications port.
- Eltron dedicated barcode printers via ELP2 language.
- Zebra dedicated barcode printers via ZPL2 language. (Not supported by FedEx API.)
- Navision OCX is required to support the Scales Interface and FedEx API granules.
- E-Ship requires a Navision client running windows 98, 2000, or NT Client on system with one serial communications port for scale interface.
- Internet connection is required to upload manifest, and integrate with the FedEx