



# E-SHIP

## E-Ship

E-Ship, built inside Microsoft® Dynamics™ NAV, enables you to reduce cost while increasing both efficiency and accuracy in shipping. All of your shipping data, whether the products are shipped via package carriers or LTL, is housed natively inside NAV for seamlessly simple access to the information you need.

### Key Benefits:

- Create package-level detail using Pack Line Scanning.
- Ensure shipping accuracy by scanning items while packing and comparing them to the sales order or picking document.
- Capture item weight via scales interface.
- Capture serial numbers and lot numbers at packing time.
- Quote freight rates while taking an order.
- Automatically post freight charges to the sales order.
- Automatically create packing lists by package and order.
- Print certified carrier labels, custom labels, and GS1-128 (UCC-128) labels while handling the package.
- Upload electronic manifests.
- Automatically send a detailed email with tracking numbers and package contents to the customer at time of shipment.
- Track packages and shipments from within Dynamics NAV.
- Reconcile freight invoices.
- Designed integral to Lanham EDI to automatically generate Advanced Shipment Notices (ASN).

### Built Inside Microsoft Dynamics NAV

By having E-Ship embedded in Dynamics NAV, the users experience unprecedented functionality and access to data. E-Ship is available to plan and execute shipping from the time of sales order through shipping manifest.

Detailed business information can be accessed via the standard NAV drill-down capability. Changes made to a customer's address are made once in the system and are available in all other parts of NAV as well. E-Ship is seamlessly simple to use, yet surprisingly powerful.

## Shipping Accuracy

Pack Line Scanning can drive your shipping accuracy to new levels. E-Ship users report that their accuracy approaches 100%. Not only do they know that they shipped the correct items, but they know which items are in each package, and the tracking number(s). In addition, the weight of each package substantiates that the quantity the customer ordered was actually shipped.

E-Ship uses the Dynamics NAV unit of measure functionality to convert and pack multiple units of measure for a single item. Typically, this is utilized when a single item contains different barcodes based on its unit of measure.

When closing an order that is not fully packed as required by the sales order or warehouse shipment, the user is notified that one or more items were not packed. Since the sales order is automatically updated, backordered items are easily exposed to customer service.

An added benefit of package-level detail is the ability to print a summarized packing list for the last package in a group, which shows the contents of each package and the associated tracking number. This information can also be automatically sent via e-mail to the customer, with CC and BCC addresses included as needed. This is extremely helpful when drop shipping products to a client's end customer.

## Shipping Charges

Charges are automatically posted to the sales order and may be marked-up by a percentage or dollar amount per package as a handling charge.

## COD Shipments

COD charges are triggered by the payment terms of the sales order and may be attached to each package or the last package in the shipment.

## LTL and Package Carriers

E-Ship offers modules that can be selected for the user's specific shipping needs. For shipments originating in the US, supported package carriers include FedEx, UPS, and USPS. Additional carriers may be available – be sure to check with us for your specific needs. CzarLite, a widely adopted LTL tariff rate file available from SMC3, can be imported to provide immediate LTL carriers. Manual creation and management of LTL rates is also supported.

## EDI and ASN Integration

Because E-Ship captures package-level detail, there is no need to re-key data or transfer information from system to system to prepare and send the Advanced Ship Notices. ASNs can be automatically sent when the sales order is closed, or in the case of LTL shipments, when the BOL is closed. The process is seamlessly simple.

## Multi-Point Shipping Requirements

Today many companies operate multiple warehouses and shipping points but have a strong need to operate from their consolidated ERP system. If your company has these type of needs, E-Ship and Dynamics NAV offer an excellent solution for you. Using a centralized database and a local client deployed in each warehouse, it is just as easy to ship a single sales order from California as it is from New York. In fact, E-Ship can ship that single sales order from multiple warehouses with separate or consolidated invoicing.

## International Shipping

E-Ship supports international shipment needs for shipments originating in the US with:

- Electronic Export Information (EEI), required by the Census Bureau
- NAFTA documents
- Certificate of Origin
- Commercial Invoice

E-Ship also interfaces with the US government's ACE Secure Data Portal, for electronic transmission of the EEI and associated ITN number(s) on international shipments originated in the US.

## E-Ship Package Detail

Below you can see a sales order being shipped by UPS in two packages. Notice shipping charges on the sales order.

**View - Package - P000011**

General

No.: P000011  
 Description: Furnitures  
 Shipping Agent Code: UPS  
 Shipping Agent Service: GROUND  
 Package No. / Total Packages: 1  
 Total Packages: 1  
 External Tracking No.: 1Z123456031000028  
 Source ID: 1013

Location Code:  
 Manual Shipment:  
 Closed:  
 Packing Date: 3/4/2015  
 Calculation Weight: 2.3  
 Calculation Value: 47.18  
 Additional Shipping Charge:  
 Shipping Charge: 8.84  
 Shipping Cost: 7.37

Package Shipping Ch...  
 Shipping Charge: 8.84  
 Markup: 1.47  
 Shipping Cost: 7.37  
 Base Charge: 6.95  
 Accessorial Charge:  
 Surcharge: 0.42  
 Rebate Amount:  
 Discount Amount:

Package Line Dimens...  
 Net Weight: 2.3  
 Gross Weight: 2.65  
 Dim. Weight:  
 Unit Weight:  
 Unit of Measure...  
 Volume:  
 Unit Cubage:  
 Cubage:  
 Unit Length:  
 Length:  
 Unit Width:  
 Width:  
 Unit Height:  
 Height:

Package Subform

Type	No.	Description	Quantity	Unit of Measur...	Net Weight
Item	74000	Side Panel	1	PCS	2.3

Ship-to: SE70000 | Mann Supply Co. | 98123 Confederate Ave. | Prepaid  
 Rlnvt Chin...from

**View - Package - P000012**

General

No.: P000012  
 Description: Furnitures  
 Shipping Agent Code: UPS  
 Shipping Agent Service: GROUND  
 Package No. / Total Packages: 1  
 Total Packages: 1  
 External Tracking No.: 1Z123456031000037  
 Source ID: 1013

Location Code:  
 Manual Shipment:  
 Closed:  
 Packing Date: 3/4/2015  
 Calculation Weight: 2.8  
 Calculation Value: 61.95  
 Additional Shipping Charge:  
 Shipping Charge: 8.84  
 Shipping Cost: 7.37

Package Shipping Ch...  
 Shipping Charge: 8.84  
 Markup: 1.47  
 Shipping Cost: 7.37  
 Base Charge: 6.95  
 Accessorial Charge:  
 Surcharge: 0.42  
 Rebate Amount:  
 Discount Amount:

Package Line Dimens...  
 Net Weight: 2.8  
 Gross Weight: 3.22  
 Dim. Weight:  
 Unit Weight:  
 Unit of Measure...  
 Volume:  
 Unit Cubage:  
 Cubage:  
 Unit Length:  
 Length:  
 Unit Width:  
 Width:  
 Unit Height:  
 Height:

Package Subform

Type	No.	Description	Quantity	Unit of Measur...	Net Weight
Item	74001	Base	1	PCS	2.8

Ship-to: SE70000 | Mann Supply Co. | 98123 Confederate Ave. | Prepaid  
 Rlnvt Chin...from

**Edit - Sales Order - 1013 - Mann Supply Co.**

General

Sell-to Customer No.: SE70000  
 Sell-to Customer Name: Mann Supply Co.  
 Sell-to City: Atlanta  
 Sell-to State / ZIP Code: GA  
 Posting Date: 3/4/2015  
 Order Date: 3/4/2015

Document Date: 3/4/2015  
 Requested Delivery Date:  
 External Document No.:  
 Salesperson Code: PS  
 Status: Released

Sell-to C...  
 Cus... SE70000  
 Quo... 0  
 Blan... 0  
 Ord... 1  
 Inv... 0  
 Rat... 0  
 Cre... 0  
 Pst... 2  
 Pst... 1  
 Pst... 0  
 Pst... 0

Lines

Line	No.	Description	Location Code	Quant	Reserved Quantity	Unit of Measur...	Unit Price	Tax Group	Excl. Tax	Line Amount	Excl. Tax
	74000	Side Panel	BLUE	1		PCS	47.30	MATERIALS		47.30	
	74001	Base	BLUE	1		PCS	62.10	MATERIALS		62.10	
	UPS	UPS 03/04/15	BLUE	1		PCS	17.68	NONTAXABLE		17.68	

Invoicing: SE70000 | 1M80D | 4/4/2015 | Yes | ATLANTA, GA

## Available E-Ship Modules

**Packing** – captures package-level detail using a wedge scanner attached or wirelessly paired to a computer workstation. This unique packing operation allows the user to execute the entire packing and shipping operation with the scanner.

- **Standard Pack** – provides the ability to easily pack many standard packages, such as cases, without scanning and weighing each package. This feature is often used to meet package shipping and labeling retail compliance requirements.
- **Fast Pack** – provides an alternative to the scanning interface by allowing a shipper to choose the item being packed from a list.
- **Export Documentation** – for U.S.-originating shipments, contains Electronic Export Information (EEI), NAFTA, U.S. Certificate of Origin, and commercial invoices. Certificate of Origin export documents can be created independently of packages.

**Scales Interface** – interfaces with various electronic scales during the packing process. Check <http://lanhamassoc.com/e-ship.htm> for current hardware recommendations.

**UPS Manifest** – uses UPSlink™/web services functionality for shipments originating in the U.S., to ship domestically and internationally. Includes the latest functionality for handling hazardous materials, as well as efficient container handling for international shipments.

**UPS World Ease™** – a UPS contractual service which helps you ship packages to multiple recipients within a country or the European Union (EU) as one shipment that clears customs. By consolidating multiple international shipments, you can simplify shipment processing, reduce complexities in international shipping, and reduce multiple shipment costs.

**FedEx Manifest** – uses the certified FedEx web services for shipments originating in the U.S. and Canada, to ship domestically and internationally.

**USPS Manifest** – enables a USPS API for shipments originating in the U.S., to ship domestically and internationally.

**LTL Interface** – supports shipping via Less Than Truckload (LTL) carriers and contains a data import for CzarLite rates from SMC3. Rates are obtained separately directly from SMC3.

**Generic Carrier** – provides the base logic to create and support development for a custom carrier manifest.

**Bill of Lading/ASN** – provides shipment planning, rating, and printed BOL. The BOL is also used to consolidate information for the ASN for EDI.

**Label Formatter** – provides the ability to format customized labels and assign them to shipping agents, customers, or ship-to addresses.

**Label Formatter Extended Features** – adds the ability to do 2D barcodes and encode RFID tags.

**E-Ship ACE (formally AES)** – is the module that accesses the U.S. Census Bureau's free web site, ACE Secure Data Portal, to facilitate the electronic filing of EEI (Electronic Export Information). EEIs are required for international shipments originating in the U.S. if the commodity value is \$2,500.00 or greater.

E-Ship's ACE module simplifies the process for ACE shipments and receives ACE reference numbers (ITN numbers). The ITN numbers can then be included in shipping labels and manifests for package carriers. The ACE shipment can be created manually or from the sales order, purchase return order, or transfer order form. The interface uses HTML documents. Documentation for ACE fields and other requirements can be found at <https://ace.cbp.dhs.gov>.

**Rate Shopping** – provides the ability to estimate and quote shipping rates at the sales order or BOL level for package and LTL carriers.

**Freight Invoice Reconciliation** – can be used to electronically or manually compare shipping charges to freight invoices. This module comes with an import for the UPS electronic invoice format, and is typically used to reduce surcharges due to invalid shipping criteria such as addresses, accessorial charges, etc.

**E-Mail** – provides the ability to create customized e-mail formats and send trade related documents (invoices, order confirmations, shipment notifications, package details and more) to customers or ship-to addresses.

## E-Ship Available as a Lanham NAV Extension

E-Ship is available as a Lanham NAV Extension in NAV 2017 and newer versions. Extensions are Microsoft's methodology used to extend Microsoft Dynamics NAV and D365 functionality without modifying base code.

With an extension, no object merge is required. You can easily install, upgrade, and uninstall functionality, making NAV upgrades much simpler and easier.

## Software Requirements

- NAV OCX support required if utilizing MAPI email interface in pre NAV 2009 environment.
- Dynamics NAV client running under Windows 2000 or newer.
- Internet connection required on all shipping stations.

## Hardware Requirements

- Honeywell 1452G or like handheld device
- Electronic scales using RS232 or USB interface, Mettler Toledo BC60 or similar
- Barcode printer: Supports (not emulates) EPL or ZPL language with 200dpi
- Computer workstation: Minimum 1 GB Memory, RS232 serial or USB port for scales interface, Windows 7.0 or newer

## Related Fact Sheets

To learn more about Lanham's entire suite of Supply Chain software, reference the following fact sheets:

- Demand Planning for Distributors
- Demand Planning for Manufacturers
- E-Receive
- Lanham EDI
- Inbound Container Tracking
- Address Verification
- ACE Warehousing
- Outbound Warehouse Request
- History Management

## About the Developer

Lanham Associates® provides supply chain business value to middle market distributors and manufacturers by streamlining operations, cutting costs, and increasing overall productivity.

Specialists in distribution and Microsoft Dynamics NAV right from the start, Lanham prides itself in creating and implementing quality software and services that improve customers' business processes. With Lanham solutions you can also count on staying current since Lanham stays in lockstep with Microsoft on the latest technology offerings.

Uniquely, Lanham solutions allow users to keep all of their data right at their fingertips in NAV. No tedious customizations or integrations with external sources. No new user interfaces to learn. All the drill-down and reporting capabilities of NAV, and all your key data inside *your* business system. It's seamless simplicity at its best, and it's reflected in all of Lanham's offerings.

## Contact Information

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## Additional Resources

### Lanham Services®

Lanham Services can be the perfect complement to your Lanham solutions.

The Lanham Services team is expert in delivering business process reengineering, implementations, training, upgrades, custom work, EDI managed services, support and project work across all the Lanham supply chain solutions.

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### Absolute Value™

Through its sister company, Absolute Value, LLC, Lanham also offers key ERP-independent cloud solutions: **Demand Planning** and **Point of Sale (POS) Data Analytics**.

Demand Planning enables distributors and manufacturers to have the right inventory at the right place at the right time, while reducing inventory investment and increasing customer service levels.

POS Data Analytics analyzes retailers' weekly store/item information to provide companies that supply to retailers with guidance that can help them improve product sales and trading partner relationships.

For more information on Absolute Value, contact:  
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Please visit: [www.lanhamassoc.com](http://www.lanhamassoc.com) or [www.absolutevalue-us.com](http://www.absolutevalue-us.com) for additional product information.

## Lanham Associates: Your Single Source for Supply Chain Solutions