Payment
You must remit payment in accordance with the FedEx Service Guide, tariff, service agreement or other terms or instructions provided to you by FedEx from time to time. You may not withhold payment on any shipments because of equipment failure or for the failure of FedEx to repair or replace any equipment.

Inaccurate Invoices
If you generate an inaccurate invoice, FedEx may bill or refund to you the difference according to the FedEx Service Guide, tariff service agreement or other terms or instructions provided to you by FedEx from time to time. A request for refund on a FedEx shipment must be made in accordance with the applicable Service Guide or terms or instructions provided by FedEx® from time to time. A shipment given to FedEx with incorrect information is not eligible for refund under any FedEx money-back guarantee. FedEx may suspend any applicable money-back guarantee in the event of equipment failure or if it becomes inoperative.

Confidential and Proprietary
The information contained in this guide is confidential and proprietary to FedEx Corporate Services, Inc. and its affiliates (collectively “FedEx”). No part of this guide may be distributed or disclosed in any form to any third party without written permission of FedEx. This guide is provided to you under and its use is subject to the terms and conditions of the FedEx Automation Agreement. The information in this document may be changed at any time without notice. Any conflict between this guide, the FedEx Automation Agreement and the FedEx Service Guide shall be governed by the FedEx Automation Agreement and the FedEx Service Guide, in that order.

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Disclaimer
All Improper Transaction scenarios are for example only. They do not reflect all error condition scenarios.
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About This Document

Audience
Conventions
Resources
Support
The FedEx Ship Manager® Server Technical What’s New Guide provides technical information about features in Released v 11.0.1. It contains descriptions of new features, transactions and transaction fields that make up the new functionality and enhancements included in the software since the v 10.0.1 release.

This document is not intended for use as a coding reference or as a detailed technical specification of the new features. Details for all features described in this document are included in the FedEx Ship Manager® Server Transaction Coding Reference Guide and the FedEx Ship Manager® Server Developer Guide.

Note: This document lists the data elements for FedEx Ship Manager® Server v 11.0.1 purposes only. This data is subject to change before the v 11.0.1 production release.

Major enhancements have been implemented in Release v 11.0.1 to improve its ability to manage these services:

- New FedEx 2Day® A.M. service
- New FedEx First Overnight® Freight service
- Dangerous goods service options expanded for FedEx First Overnight® and FedEx International Express Freight®
- Hold at FedEx Location service option (with Adult Signature Required) expanded for FedEx Ground® services
- FedEx Freight® Priority and FedEx Freight® Economy services
- Addition of validation for alcohol shipping and other miscellaneous changes to the FedEx Ship Manager® Server (FSMS) system

**Audience**

This document is intended for these audiences:

- Shipper managers, users, or developers interested in obtaining FedEx Ship Manager Server
- Customer managers, users, or developers using FedEx Ship Manager Server for the first time
- Customer managers, users, or developers already using FedEx Ship Manager Server and wanting to learn about the new and enhanced features in release v 11.0.1
- Managers, users, or developers in third-party development organizations

**Conventions**

This guide uses the following conventions in the text.

- Sample transaction code is formatted in Courier New.
- Important notices begin with the word “Note.”
- In task instructions, software user interface elements are shown in bold.
- Names of documents are shown in italics.
- Names of FedEx Ship Manager Server transactions are shown in italics, as for example, the 020/120 Global Ship Request/Reply.
- First occurrence of a term is italicized followed by a definition.
- Cross-references are in purple.

**Resources**

- FedEx Ship Manager® Server Installation and Configuration Guide
- FedEx Ship Manager® Server Services and Shipping Guide
- FedEx Ship Manager® Server Technical What’s New Guide
- FedEx Ship Manager® Server Transaction Coding Reference Guide
- FedEx Services At-a-Glance: fedex.com/us/services/ataglance.html
- FedEx Developer Resource Center: fedex.com/developer
Support
Contact support on the web at fedex.com.
For technical support, call 1.877.339.2774 and state “FedEx Ship Manager Server” at the voice prompt.
Support hours are Monday through Friday, 7:00 a.m. to 9:00 p.m. CST, and Saturday, 9:00 a.m. to 3:00 p.m. CST.

FedEx Website
For the up-to-date information about FedEx, click fedex.com at the top of the FedEx Ship Manager® screen to go to the FedEx website, then click on any link to explore the most recent features and news.

FedEx Service Guide
Within this guide, you may be asked to refer to the FedEx Service Guide for details about services, packaging, and other information. To view or download the guide, go to fedex.com/us/service-guide and click Service Guide at the top left, or select the Download now option.

FedEx EEI Filing Options (U.S. only)
If you are a U.S. shipper and your U.S. export shipments require EEI filing (Electronic Export Information, formerly known as Shipper’s Export Declaration or SED), refer to the FedEx EEI Filing Options Guide. To view or download the FedEx EEI Filing Options Guide, go to fedex.com, enter FedEx EEI Filing Options Guide in the Search box at the top of the page, and then click Go. To order a printed copy, call 1.800.GoFedEx 1.800.463.3339.
1 New or Enhanced Services

FedEx Express Global Domestic Expanded Services
FedEx Express U.S. Expanded Services
Existing U.S. Service Enhancements
This chapter describes all the new and enhanced FedEx Express® services.

**FedEx Express Global Domestic Expanded Services**

FedEx Express domestic services are now available in the following countries: Canada, Mexico, Switzerland, and United Arab Emirates (UAE). The domestic services in these countries include:

- FedEx Express Saver® for Intra-Mexico (MX)
- FedEx Economy for Intra-Canada (CA)
- FedEx 1Day® Freight for Intra-United Arab Emirates (UAE) and Intra-Mexico
- FedEx 2Day® Freight for Intra-Mexico
- FedEx Priority Overnight® within Switzerland (CH)
- FedEx Standard Overnight® within United Arab Emirates

**Special Services**

- For UAE shipments, Residential Delivery is supported with:
  - Dry Ice for FedEx Standard Overnight
  - Accessible and Inaccessible Dangerous Goods/Hazardous Materials for FedEx Standard Overnight
  - Hold at FedEx Location for FedEx Standard Overnight.
- For Switzerland shipments, Residential Delivery is supported with:
  - Dry Ice for FedEx Priority Overnight
  - Accessible Dangerous Goods (ADG) for FedEx Priority Overnight
  - Hold at FedEx Location for FedEx Priority Overnight.
- FedEx Express global domestic expanded services support the following pay types: Bill to Sender, Bill to Recipient, and Bill Third Party.

**Hold at FedEx Location Residential Delivery**

When there is a conflict between residential and Hold at FedEx Location in a shipment request, Hold at FedEx Location takes precedence.

**Packaging Types**

The following packaging types are supported.

- Switzerland and UAE
  - FedEx® Envelope
  - FedEx® Pak
  - Customer Packaging
  - FedEx® Box
  - FedEx® Tube

*Note: For Freight shipments, only Customer Packaging is supported.*

**MPS Shipments**

Multiple-piece shipments (MPS) are supported; however, the number of packages per shipment has changed from 9999 to 9998. This change affects the following fields:

- Field 1117 (Package Sequence)
- Field 1982 (MPS Total Packages)

**Packaging Weight and Dimension Limits**

**Freight Shipments**

The following customer packaging maximum weight and dimension limits for UAE shipments for FedEx 1Day Freight and FedEx 2Day Freight shipments cannot be exceeded; otherwise, an error message is returned.

- The maximum weight cannot exceed 2206 lbs or 1000 kg.
• The maximum height cannot exceed 70 inches or 178 cm.
• The maximum length or width cannot exceed 119 inches or 302 cm.

Note: The maximum length + girth for FedEx 2Day Freight shipments cannot exceed 410 inches or 1064 cm. There are no length + girth restrictions for FedEx 1Day Freight shipments.

Non-Freight Shipments
The following packaging maximum weight and dimension limits for Switzerland non-freight (FedEx Priority Overnight) shipments cannot be exceeded; otherwise, an error message is returned.
• FedEx Envelope: The maximum weight cannot exceed 1 lb. or 0.5 kg.
• FedEx Pak: The maximum weight cannot exceed 20 lbs. or 9 kg.
• Customer Packaging:
  – Box and tubbed maximum weight cannot exceed 150 lbs. or 68 kg.
  – Maximum length and width cannot exceed 108 in. or 274 cm.
  – Maximum height cannot exceed 70 in. or 178 cm.
  – Maximum length + girth cannot exceed 130 in. or 330 cm.

The following packaging maximum weight and dimension limits for UAE non-freight (FedEx Priority Overnight) shipments cannot be exceeded; otherwise, an error message is returned.
• FedEx Envelope: The maximum weight cannot exceed 1 lb. or 0.5 kg.
• FedEx Pak: The maximum weight cannot exceed 20 lbs. or 9 kg.
• Customer Packaging:
  – Box and tubbed maximum weight cannot exceed 150 lbs. or 68 kg.
  – Maximum length cannot exceed 108 in. or 274 cm.
  – Maximum width and height cannot exceed 62 in. or 157 cm.

Delivery Area Surcharges
Intra-Canada shipping, FedEx Economy service supports a residential surcharge. Use the following fields to return residential delivery area surcharges. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.
• 429 — Residential Surcharge
• 1510 — List Residential Surcharge
• 1945 — List Dynamic Surcharge Code
• 1947 — Dynamic Surcharge Code

Service Options and Enhancements
FedEx Economy service for Canada supports the following options:
• List and account specific discounted rates, whether single piece or multiple-piece shipments (MPS)
• Future Day shipping
• Pay types: Bill to Sender, Bill to Recipient, and Bill Third Party
• Signature services: For the following services, the signature service defaults to 0 (Not Present).
  – Hold At FedEx Location
  – Carriage Declared Value greater than CAD$500
• Residential Delivery
• Email Notifications
• Labels
— Supports doc-tab function
— Supports label reference function

Tracking Form IDs
Valid values for Tracking Form IDs (Field 526) for these services include:
• 0441 — International MPS, Intra Canada domestic MPS, Intra Mexico domestic MPS for FedEx Express child piece
• 0451 — Intra Canada for domestic MPS for FedEx Express master piece

Reports
Non-Domestic shipping and FedEx Economy for intra-Canada shipping support the following reports that are available for Domestic shipments within Field 1373 (Report Code) of the 070 Meter Query or Configuration Request transaction.
• CA Domestic Shipment Report
• CA Domestic Courier Report
• Domestic End of Day (DOM EOD) TransOut Report

Restrictions
The following restrictions apply to FedEx Economy services for Canada.
• MPS is not allowed for the FedEx Pak packaging type.
• Alcohol is not allowed for any intra-Canada shipments.
• Priority Alert, Signature Required, Inside Delivery, and Inside Pickup Special Services are not supported for intra-Canada shipping.
• Duties are not applicable to intra-Canada shipping but the following taxes are applicable:
  — HST - Harmonized Sales Tax
  — QST - Quebec Sales Tax
  — GST - Goods and Services Tax
  — PST - Provincial Sales Tax

Label Configuration Settings
Shipping Labels
The following label copies are printed for each country:
• United Arab Emirates
  — One Shipping label copy
  — Two Consignee label copies
• Switzerland
  — One Shipping label copy
  — One Consignee label copy

Doc-Tab Changes
The following radio buttons are added to the Shipping Type section of the Doc-Tab Settings tab for non-U.S Domestic shipping, as shown in Doc-Tab Settings Tab with Global Domestic Markets Shipping Types:
• Express (Intra CH)
• Express (Intra UAE)

Note: The radio buttons provide the same global domestic markets Doc-Tab functions available for domestic services in Mexico.
Doc-Tab Settings Tab with Global Domestic Markets Shipping Types

- 020/120 Global Ship Request/Reply
  - Shipping Requests
    - Single Piece
    - Single Shot
    - Open Ship (regular)
  - Rates, Routes, and Time-in-Transit Requests
  - Pre-Ship Validation
- 023/123 Global Delete Request/Reply
- 025/125 Rate Available Services Request/Reply
- 037/137 Email Label Request/Reply
- 050/150 Service Types and Special Services Request/Reply
- 070/170 Meter Query or Configuration Request/Reply
- 095/195 Label Reprint/Request/Reply

Field Updates

The following list includes required fields used for building transactions for the expansion of FedEx Express international services. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 7 — Sender City
- 8 — Sender State/Province
- 15 — Recipient City
- 16 — Recipient State/Province
- 68 — Customs Currency Type
- 118 — Recipient IRS/EIN/VAT Number
- 119 — Total Commodity Customs Value

Affected Transactions

The following transactions are affected by these new or expanded service offerings:

- 004/104 Tracking Number Request/Reply
New or Enhanced Services

- 499 — Tracking Number Request Type
- 526 — Tracking Form ID
- 1090 — Declared Value/Carriage Value Declared Value/Rate Currency Type
- 1139 — Sender IRS/EIN/EORI Number
  The maximum field length increased from 17 to 18.
- 1273 — Packaging Type
- 1274 — Service Type
- 1987 — Service Short Name
- 1988 — Service Branded Name
- 3193 — Shipper State Tax ID
- 3194 — Recipient State Tax ID
- 3198-# — Domestic Regulatory Reference Number
- 3199-# — Domestic Content Description

FedEx First Overnight Freight

**Transaction Rules**

The following transaction rules apply when shipping FedEx Express U.S. packages using FedEx First Overnight Freight service.

- Set Field 1274 to 39 when you need:
  - Next-business-day delivery by 8:30 a.m. to H0 and H1 service areas.
  - Next-business-day delivery by 9:30 a.m. to H2 service areas.
  - Next-business day delivery by 12:00 p.m. for H3 service areas.
- FedEx First Overnight Freight is available throughout all 50 U.S. states including Hawaii (only to the island of Oahu).

*Note: To determine if FedEx First Overnight Freight is available to your destination ZIP code, check [*fedex.com/us/ExpressFreight/SALocator*](https://fedex.com/us/ExpressFreight/SALocator) or call 1.800.332.0807.*

- Delivery days are Monday through Friday, with Saturday pickup and FedEx International First delivery service available in many areas for palletized shipments.
- Pallet or skid size guidelines: up to 70" in height, 119" in length or 80" in width.
- Individual pallets/skids weighing in excess of 2200 lbs. or larger than 70" in height, 119" in length or 80" in width require prior approval by calling FedEx Express Freight Customer Service at 1.800.332.0807.
- Packaging type: Customer’s own
- Maximum declared value is $50,000
- Multiple-piece shipment (MPS)

FedEx International First

FedEx International First® will now accept Inaccessible Dangerous Goods (IDG) and Accessible Dangerous Goods (ADG), except Class 7 Radioactive Materials, inbound to the U.S. including Puerto Rico.

FedEx Ship Manager® Server (FSMS) supports International First Dangerous Goods shipments on the existing Shipper’s Declaration Form 1421C.

*Note: Radioactive dangerous goods cannot be shipped using FedEx International First.*

FedEx Express U.S. Expanded Services

To improve your shipping options, two new FedEx Express services are being introduced:

- FedEx First Overnight® Freight
- FedEx 2Day® A.M.
Special Services
You can code these special service options in a FedEx First Overnight Freight transaction (depending on destination location):

- Saturday Pickup service and Saturday Delivery service
- Dangerous goods support for Inaccessible Dangerous Goods (IDG), Accessible Dangerous Goods (ADG) and Dry Ice
- Inside Pickup and Inside Delivery
- Shipment Notifications:
  - FedEx Priority Alert® (for contracted accounts only)
  - FedEx ShipAlert®
  - Exception
  - Delivery

Note: Hold at FedEx Location and Cash on Delivery (C.O.D.) are invalid special services for FedEx First Overnight Freight.

Reports
FedEx First Overnight Freight is supported on the following reports:

- Courier Report
- DOM Invoice Report
- DOM Shipments Report
- DOM EOD TransOut Report

Affected Transactions
The following transactions are affected by these new or expanded service offerings:

- 020/021 Global Ship Request/Reply transaction
  - Single Piece
- 025/125 Rate All Services Request/Reply transaction
- 050/150 Service Types and Special Services Request/Reply transaction
- 095/195 Label Reprint Request/Reply transaction

Field Updates
The FedEx First Overnight Freight value is added to the following fields. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 1274 — Service Type
- 1987 — Service Short Name
- 1988 — Service Branded Name

FedEx 2Day A.M.
FedEx 2Day A.M. provides second business day delivery by 10:30 a.m. to most business areas. For certain shipments to Alaska and Hawaii delivery is in three business days. FedEx 2Day A.M. is available throughout all 50 states.

Transaction Rules
The following applies when shipping FedEx Express U.S. packages using FedEx 2Day A.M. service.

- Set Field 1274 to 49 when you need:
  - Delivery in 2 business days by 10:30 a.m. to A1, A2, AA, and A4 service areas.
  - Delivery in 2 business days by 12:00 p.m. to A3, A5, and AM service areas.
When estimating time-in-transit and delivery date, keep in mind delivery days are Monday through Friday.

Maximum declared value is $50,000 with the following packaging level limits:
- Customer packaging - $50,000
- FedEx Pak - $500
- FedEx Box - $50,000
- FedEx Tube - $50,000
- FedEx Envelope - $500

Maximum size limit is 119 inches in length, or 165 inches in length and girth. If your package is larger than 119 inches in length or 165 inches in length and girth, you must use FedEx Express U.S. Freight as your shipping service.

### Special Services

You can code these special service options in a FedEx 2Day A.M. transaction:
- Dangerous goods support for Inaccessible Dangerous Goods (IDG) and Dry Ice
- Saturday Pickup Service
  
  *Note: Saturday Delivery is an invalid special service for FedEx 2 Day A.M.*
- FedEx® Collect on Delivery (C.O.D.)
- FedEx® Delivery Signature Options
- Hold at FedEx Location
- FedEx® Returns solutions
- Payment types:
  - Bill Shipper
  - Bill Recipient
- Bill Third Party
- Shipment Notification types:
  - FedEx ShipAlert
  - Exception
  - Delivery
  
  *Note: Shipment notification functionality is not available while tracking a package.*

### Reports

FedEx 2Day A.M. is supported on the following reports:
- Courier Report
- DOM Invoice Report
- DOM Shipments Report
- DOM EOD TransOut Report

### Affected Transactions

- **020/021 Global Ship Request/Reply Transaction**
  - Single Piece
  - Single Shot
  - Open Ship
  - Open Ship PAYGO

The following is a 020 Global Ship Request FedEx 2Day AM transaction sample:

```
```
Field Updates
The FedEx 2Day A.M. value (49 — FedEx 2Day AM) is added to the following fields. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 1274 — Service Type
- 1987 — Service Short Name
- 1988 — Service Branded Name

Existing U.S. Service Enhancements

FedEx First Overnight
Saturday delivery is now available to all shipments within the U.S. and shipments from Puerto Rico to U.S. Dangerous Goods support is now available to all shipments within the U.S.

- Delivery times on Saturday depend on the postal code as follows:
  - A1 Service Areas: 9:30 a.m.
  - A2 and A3 Service Areas: 10:00 a.m.
  - A4 Service Areas: 10:30 a.m.
  - A5 and A6 Service Areas: 11:30 a.m.

- Service options
  - Saturday Pickup and Saturday Delivery service
  - Dangerous goods support for Inaccessible Dangerous Goods (IDG) (except Class 7 Radioactive materials) and Accessible Dangerous Goods (ADG)

Note: Dangerous goods shipments to Puerto Rico are restricted. Also, there are five FedEx locations in Alaska that do not accept dangerous goods: Barrow (BRWA), Juneau (JNUA), Ketchikan (KTNA), Prudhoe Bay (PUOA), and Sitka (SITA).
2 New or Enhanced Shipping Options

Hold at FedEx Location
Describes the Hold at FedEx Location (HAL) shipping option updates and changes.

**Hold at FedEx Location**

Hold at FedEx Location is now a valid shipping option for FedEx Ground® U.S. service.

Adult Signature Required service is available for FedEx Express® and FedEx Ground Hold at FedEx Location services.

Hold at FedEx Location service for FedEx Ground is available to customers who want to pick up a package at a designated FedEx location. For example, approved wine shippers may want to use the FedEx Ground Hold at FedEx Location service for consumers who prefer to pick up their wine shipments from a FedEx Office® or FedEx Express counter location.

If your transaction specifies Hold at Location (Field 1200 set to Y), you must specify the delivery address for the FedEx location offering the Hold at FedEx Location service. Select the FedEx pickup location — a designated FedEx Office® Print and Ship Center, FedEx Office® Ship Center, or FedEx World Service Center® — by using the web services drop-off locator. Contact your FedEx customer integration consultant if you need assistance.

When you include this option, FedEx Ground labels display “Hold at Location” to indicate packages will not be delivered by a FedEx courier.

**Transaction Rules for FedEx Ground Hold at FedEx Location**

Follow these rules to successfully code the Hold at FedEx Location service option for FedEx Ground.

- To specify that you want a package held at a FedEx pickup location, include Field 1200 (Hold at Location Flag) set to the value Y.

- Be sure to include a contact name (Field 12) and phone number (Field 18) for the recipient. After a Hold at FedEx Location package is received at the FedEx location, the recipient is notified by FedEx personnel that the package is available for pickup.

- Always include the address and phone number for the Hold at FedEx Location destination you select.

- You can turn on the Hold at Location flag if you are coding for FedEx Ground U.S. service: FedEx Ground - Field 1274 set to 92.

  **Note:** Hold at FedEx Location is not available with Home Delivery, international shipments, or for all U.S. destination ZIP codes. Use the Web Services Drop-Off Locator (contact your FedEx customer integration consultant if you need assistance) to find available pickup locations. A default pickup location is stored in FSMS and will be used if no other valid pickup location is specified. Do not store Hold at FedEx Location addresses, because office locations may change. The Drop-Off Locator always has the most up-to-date information. FedEx Ship Manager® Server does not validate the Hold at FedEx Location address provided by the shipper.

- You must include all required fields listed in the Hold at FedEx Location “Field Updates” on page 22.

**New Options for Hold at FedEx Location**

The Adult Signature Required option is now available for both FedEx Ground and FedEx Express Hold at FedEx Location shipments.

**Restrictions for FedEx Ground Hold at FedEx Location**

- Hold at FedEx Location service for FedEx Ground is not available with Bill Collect, C.O.D., or E.C.O.D. options.

- Hold at FedEx Location service for FedEx Ground is not available with HazMat, Dry Ice, or Small Quantity Exception shipments.
• Alcohol shipments utilizing Hold at FedEx Location must use the Adult Signature Required service. Destination recipient address and Hold at FedEx location must be within the same state.

**Label Enhancements**

FedEx Express Hold at FedEx Location Label and FedEx Ground Hold at FedEx Location Label illustrate label enhancements.
New or Enhanced Shipping Options

Field Updates

The following lists new fields used for expanded Hold at FedEx Location (HAL) services for FedEx Express. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 3145 — HAL Location Type
- 3147 — HAL Location Phone Number
- 3148 — HAL Address Line 2
- 3149 — HAL Location Branded Name

New default information is added to support the expanded Hold at FedEx Location services for FedEx Express and FedEx Ground:

- For FedEx Express shipping, the default input for U.S. Express Freight Hold at FedEx Location and Non-Freight Hold at FedEx Location is recipient information when origin and/or destination is not one of the 50 U.S. states (including DC).
- For FedEx Ground shipping, if HAL Address Line 1 (Field 44), HAL Address Line 2 (Field 3148), HAL City (Field 46), HAL State (Field 47), and HAL Postal Code (Field 48) are not populated, then FSMS will default the HAL Address Line 1, HAL City, HAL State, and HAL Postal Code to the default HAL Location defined for the Recipient Postal Code in the downloaded Ground HAL default location data.

The default Hold at FedEx Location applies to the following fields:

- 44 — HAL Address
- 46 — HAL City
- 47 — HAL State
- 48 — HAL Postal Code
Doc-Tab Enhancements
The following fields are now available to create doc-tabs for expanded FedEx Express and FedEx Ground Hold at FedEx Location services. Refer to the “Doc-Tab Fields” section in the FedEx Ship Manager® Server Developer Guide for more information.

- 44 — HAL Address Line 1
- 46 — HAL City
- 47 — HAL State
- 48 — HAL Postal Code

Invalid Transaction Scenarios
Note: “Express HAL Provided” means that

- at least one of the HAL address elements — Field 44 (HAL Address Line 1), Field 3148 (HAL Address Line 2), Field 46 (HAL City), Field 47 (HAL State), or Field 48 (HAL Postal Code) — has been provided by the client.
- NONE of the HAL address elements — Field 44 (HAL Address Line 1), Field 3148 (HAL Address Line 2), Field 46 (HAL City), Field 47 (HAL State), or Field 48 (HAL Postal Code) — has been provided by the client.

If you pass in a 020 Global Ship Request or the 037 Email Label Request, and the HALDTL data file exists, and the Default Location data can be extracted from that file, then FSMS will obtain the HAL LocId and extract the HAL detailed information from the selected HALDTL file. If the shipment cannot pass validation, Error Message 5052, “The address of the Express HAL Location could not be obtained” is returned.

If you pass in a 020 Global Ship Request or the 037 Email Label Request, and the HALDTL data file exists but location details have not been downloaded for that LocId in the HALDTL file, Error Message 5052, “The address of the Express HAL Location could not be obtained” is returned, and the FedEx Express Hold at FedEx Location address defaults to the recipient address.

If you pass in a 020 Global Ship Request or the 037 Email Label Request, and the GRDHAL and HALDTL data files exist, and the Default Location data can be extracted from those files, but either a Default HAL for Ground has not been set up for the recipient ZIP in the selected GRDHAL file or the HAL Location Address Details have not been downloaded for the LocId in the selected HALDTL file, then FSMS will return Error Message 2740, “No default Ground HAL Location exists for this destination postal code,” and the FedEx Ground Hold at FedEx Location address will default to the recipient address.

If you pass in a 020 Global Ship Request or the 037 Email Label Request, and no GRDHAL and HALDTL data files exist from which to extract the Default Location, then FSMS will return Error Message 2740, “No default Ground HAL Location exists for this destination postal code,” and the FedEx Ground Hold at FedEx Location address will default to the recipient address.

If you pass in a 020 Global Ship Request or the 037 Email Label Request and only expired GRDHAL and HALDTL data files exist, and a Default HAL for Ground has been set up for the recipient ZIP in the selected GRDHAL file, and the HAL Location Address Details have been downloaded for the LocId in the selected HALDTL file, then FSMS will return Error Message 5051, “This location may no longer be valid for Ground HAL,” and the FedEx Ground Hold at FedEx Location address will default to that in the expired data files.

Express HAL Provided
Note: “Express HAL Provided” means that at least one of the HAL address elements — Field 44 (HAL Address Line 1), Field 3148 (HAL Address Line 2), Field 46 (HAL City), Field 47 (HAL State), or Field 48 (HAL Postal Code) — has been provided by the client.

Express HAL Not Provided
Note: “Express HAL Not Provided” means that NONE of the HAL address elements — Field 44 (HAL Address Line 1), Field 3148 (HAL Address Line 2), Field 46 (HAL City), Field 47 (HAL State), or Field 48 (HAL Postal Code) — has been provided by the client.
from that file, then FSMS will obtain the HAL LocId and extract the HAL detailed information from the selected HALDTL file. If the shipment cannot pass validation, Error Message 5052, “The address of the Express HAL Location could not be obtained” is returned.

If you pass in a 020 Global Ship Request or the 037 Email Label Request, and the HALDTL data file exists, and the Default Location data can be extracted from that file, then FSMS will obtain the HAL LocId and extract the HAL detailed information from the selected HALDTL file. If the shipment cannot pass validation, Error Message 5052, “The address of the Express HAL Location could not be obtained” is returned.

If you pass in a 020 Global Ship Request or the 037 Email Label Request, and the HALDTL data file exists but location details have not been downloaded for that LocId in the HALDTL file, Error Message 5052, “The address of the Express HAL Location could not be obtained” is returned, and the Hold at FedEx Location address for FedEx Express defaults to the recipient address.

**FedEx Ground Hold at FedEx Location Address Not Provided**

If you pass in a 020 Global Ship Request or the 037 Email Label Request, and the GRDHAL and HALDTL data files exist, and the Default Location data can be extracted from those files, but either a Default HAL for Ground has not been set up for the recipient ZIP in the selected GRDHAL file or the HAL Location Address Details have not been downloaded for the LocId in the selected HALDTL file, then FSMS will return Error Message 2740, “No default Ground HAL Location exists for this destination postal code,” and the FedEx Ground Hold at FedEx Location address will default to the recipient address.

If you pass in a 020 Global Ship Request or the 037 Email Label Request, and no GRDHAL and HALDTL data files exist from which to extract the Default Location, then FSMS will return Error Message 2740, “No default Ground HAL Location exists for this destination postal code,” and the FedEx Ground Hold at FedEx Location address will default to the recipient address.

If you pass in a 020 Global Ship Request or the 037 Email Label Request and only expired GRDHAL and HALDTL data files exist, and a Default HAL for Ground has been set up for the recipient ZIP in the selected GRDHAL file, and the HAL Location Address Details have been downloaded for the LocId in the selected HALDTL file, then FSMS will return Error Message 5051, “This location may no longer be valid for Ground HAL,” and the FedEx Ground Hold at FedEx Location address will default to that in the expired data files.
3 FedEx Freight Automation Enhancements

FedEx Freight Priority
FedEx Freight Economy
FedEx Freight Service Upgrades
Transaction Rules and Restrictions for FedEx Freight
Affected Transactions
060/160 Freight Create BOL Request/Reply Transaction
FedEx Freight® combines FedEx Freight® Priority, formerly named FedEx Freight, and FedEx Freight® Economy, formerly named FedEx National LTL, into one nationwide, all-points coverage FedEx Freight service to provide choice, simplicity, and reliability from a single carrier.

The change in LTL (less-than-truckload) services allows FedEx to offer you two levels of service — priority or economy freight — in one fully integrated, nationwide pickup and delivery network.

FedEx Freight is for shippers with high-value or time-critical shipments who need to arrange fast delivery on a specific day, or even by a specific time. With FedEx Ship Manager® Server (FSMS) you can access FedEx Freight U.S. package and freight services for ground shipments of both large and small packages within the U.S. Choose from several optional services to pick the delivery time that fits your degree of urgency.

See Chapter 14 “FedEx Freight” in the FedEx Ship Manager® Server Services and Shipping Guide for detailed information on FedEx Freight services.


You can count on FedEx Freight for your fast transit and basic LTL shipping needs. Whether you need value-added FedEx Freight solutions, such as our no-fee money-back guarantee* and FedEx Freight Advance Notice®, or an economical freight solution, you can count on us to take care of you and your customers

• FedEx Freight Priority focuses on regional next-day and second-day services that provide the benefit of fast-cycle logistics. Delivery is typically in 1 or 2 business days by 5 p.m. for U.S. shipments. Use this service when speed is critical to meet your supply chain needs.

• FedEx Freight Economy provides long-haul service for planned inventory replenishment, with multiple service options to meet your needs. Delivery is typically in 3 to 5 business days for U.S. shipments. Use this service for less time-sensitive shipping to meet your budget.

FedEx Ship Manager® Server (FSMS) automates Freight shipping operations in the 060/160 Freight Create BOL Request/Reply transaction.

FedEx Freight Priority

With industry-leading on-time performance and fast transit times, FedEx Freight® Priority delivers your shipments quickly and reliably. Regional service provides extensive next-day and second-day delivery to your customers, all backed by a no-fee money-back guarantee.*

FedEx Freight Priority service features include:

• Fast transit times with next-day service up to 600 miles and second-day service up to 1,600 miles.
• Direct delivery to virtually every ZIP code in the continental U.S.
• Consistent, on-time reliability.
• A no-fee money-back guarantee.*
• State-of-the-art information technology with end-to-end shipment visibility.
• A dedicated team of LTL professionals to assist with all of your regional freight needs.

For more information, contact your account executive, or call our customer service team at 1.866.393.4585.

*All services are subject to the terms and conditions of the FXFR 100 Series Rules Tariff.
FedEx Freight Economy

FedEx Freight Economy provides economical LTL (less-than-truckload) delivery, focused on your basic freight shipping needs. FedEx takes care of you and your customers with on-time reliability and careful handling.

FedEx Freight Economy delivers:

- Economical freight solutions.
- Consistent, on-time reliability.
- Direct delivery to virtually every ZIP code in the contiguous U.S.
- State-of-the-art information technology with end-to-end shipment visibility.
- A dedicated team of professionals to assist with all of your freight needs.

For more information, contact your account executive, or call our customer service team at 1.866.393.4585.

*All services are subject to the terms and conditions of the FXFR 100 Series Rules Tariff.

FedEx Freight Service Upgrades

Use the required 060/160 Freight Create BOL (Bill of Lading) transaction fields (refer to “060/160 Transaction Fields” on page 31) to create the base transaction shipments. To specify FedEx Freight Priority enter code 112 as the service type in Field 1274 (Service Type), for example, 1274, "112". For FedEx Freight Economy enter code 113.

You can customize delivery to suit your recipient by choosing from two premium service upgrades:

- Close of Business Delivery
- A.M. Delivery

Use Field 6155 (Guaranteed Service Upgrade) to select the upgrade. Valid values for this field are:

- 1 — Close of Business Delivery
  - Delivers on the published delivery day or you’ll automatically receive a zero dollar invoice. Simply write “Close of Business Delivery” on your Bill of Lading.
  - Offers convenient rates — 20% up charge to your contracted rates.
- 2 — A.M. Delivery
  - Delivers by 10:30 a.m. on the standard delivery date.
  - Provides on-time delivery backed by our money-back guarantee.*
  - Includes more efficient planning options.
  - Offers competitive rates — a $75 up charge.

Transaction Rules and Restrictions for FedEx Freight

FedEx Freight Economy and FedEx Freight Priority customers using the existing 020/120 Global Ship transaction with the existing service type code for FedEx Freight (Service Code 111) are still supported.

The new 060/160 Freight Create BOL transaction is used for either FedEx Freight Priority (Service Code 112) or FedEx Freight Economy (Service Code 113) and includes the creation of the Bill of Lading (BOL), freight label, and freight tracking number (PRO number or “progressive number”). Although not considered one of the typical FSMS transaction shipping methods, it is similar to Single Shot where you can use multiple occurrence fields.

FedEx Ship Manager Server transaction rules are dependent on the type of FedEx service you have selected and the shipping rules and options specific to that service.

The following rules apply to FedEx Freight shipping transactions:
Chapter 3

FedEx Freight Automation Enhancements

- The FSMS software must have an online connection to FedEx to create a BOL, schedule a pickup or request a rate.
- If the FSMS software cannot connect to FedEx, the current Uniform or Voluntary Interindustry Commerce Solutions (VICS) FXFR BOL report template will print the BOL locally and display the message "Server could not connect to FedEx, will retry until the next day." However, unless the customer assigned a PRO number (tracking number) upon entering the shipment, one will not print on the BOL. Nor will there be a rate returned. There will also be an error message indicating the FedEx telephone number to call for technical support in case of no connection to FSMS. Note: The same printer configuration can be used to print either Uniform or VICS BOLs.

- The BOL cannot be printed on a thermal label.
- The Freight Shipping Label can be reprinted for up to three days.
- To process an LTL (less-than-truckload) shipment, a Freight account number is required.
- Once the shipment has been processed through the system, no cancellations or edits to the shipment can be made.
- PDF reader software is required to print the BOL or the Freight Shipping Label.
  Note: If the user does not have a PDF reader installed, but does have a printer configured, a local version of the BOL can print using Crystal Reports. The BOL will look different and may have print limitations as a result of the printer configuration.
- FedEx Ship Manager Server supports systematically generated PRO numbers if:
  - The PRO number is returned in Field 29 (Tracking Number) of the reply transaction of a 060 Freight Create BOL Request. An FXFR PRO number will only be returned in the transaction if the field was blank when the 060 Freight Create BOL Request was submitted. The PRO number is stored in the FSMS database with the BOL record.

Note: BOL processing will not fail if a PRO number is not returned in the reply.
- The user preassigns an FXFR PRO number as optional data in Field 1222, Preassigned Tracking Number, along with Field 1221, Preassign Flag, within the 060 Freight Create BOL Request..
  - If the PRO number could not be returned, then an FSMS generated shipment number will be assigned and returned to the user in Field 6264 (LTL Freight Shipment Index). The user would send back the 060 Freight Create BOL Request with Field 6264 populated with the FSMS generated shipment number and Field 29, Tracking Number, set with the value of the PRO number that was manually assigned to the BOL by the driver. The final PRO number would then be updated in the local FSMS database.
- Only discounted (account) rates are returned in the 160 Freight Create BOL Reply.
- When shipping FedEx Freight Priority and FedEx Freight Economy, you must enter a valid shipping address within the 48 contiguous U.S. states.
- Do not enter a USPS post office box number as an address for delivery.

Affected Transactions

Existing transactions affected by the FedEx Freight changes include:
- 007/107 End-of-Day Close Request/Reply Transaction
- 023/123 Global Shipping Delete Request/Reply Transaction
- 050/150 Versioning Request/Reply Transaction
- 060/160 Freight Create BOL Transaction (see “060/160 Freight Create BOL Request/Reply Transaction” on page 30 for more information)
- 070/170 Meter Query or Configuration Request/Reply Transaction
- 095/195 Label Reprint Request/Reply Transaction
007/107 End-of-Day Close Request/Reply
If Field 3025 (Carrier Code) is passed in with the value of FXFR and all other required/optional data is passed in, FSMS closes both FedEx Freight Priority and FedEx Freight Economy. The data is moved to history once the carrier has been closed.

023/123 Global Delete Request/Reply
To delete BOL Local History, FSMS allows Field 29 (Tracker Number) to be passed in with the PRO number, or Field 6264 (LTL Freight Shipment Index) with the unique FSMS generated shipment number, and Field 3025 (Carrier Code) set to a value of FXFR, and all other required/optional data to be passed in.

The length of time the request to delete the BOL is valid is driven by the specified history retention interval and purge time on the Systems Settings tab in the FedEx Configuration utility.

050/150 Versioning Request/Reply
FedEx Ship Manager Server allows Field 1989 (Transaction Function) to be passed in with a value of either 01 (Service Type), 02 (Special Service/Accessorial Name), or 03 (Service and Packaging Type), Field 1274 (Service Type) to be passed in with a new value of either 112 (FedEx Freight Priority) or 113 (FedEx Freight Economy), and any other required/optional fields to be passed in, to return the requested data based on the input value for the Transaction Function Field ID for FedEx Freight Priority and FedEx Freight Economy. New Field 6166 (LTL Packaging) is supported as an optional input field.

Field 1993 (Shipping Type Indicator) and Field 1997 (Contractual Service Indicator) are not applicable to FedEx Freight Priority or FedEx Freight Economy service types.

070/170 Meter Query or Configuration Request/Reply
Number of Label Copies
FedEx Ship Manager Server allows new Field 6117 (LTL Freight Label Number of Copies) to be passed in with a maximum value of 9, along with all other required data, to update the Label Copies field in the new LTL Freight section on the Labels Setting tab.

Note: This field indicates how many initial labels, not additional labels, should be printed.

Update BOL Format
FedEx Ship Manager Server allows Field 6167 (BOL Format) to be passed in with the value of VICS or Uniform, along with all other required or optional data, to update the BOL Format field on the Report Settings tab.

Doc-Tab Fields
FedEx Ship Manager Server allows Field 1619 (Doc-Tab Type) to be passed in with the new value of LTL Freight, and Field 3121 (Doc-Tab Value) with a new Freight valid value, and all other required or optional data, to configure the Doc-Tab for LTL Freight on the Doc-Tab Settings tab.

095/195 Label Reprint Request/Reply
Bill of Lading
FedEx Ship Manager Server allows Field 1935 (Reprint Type), with a value of S, and Field 1373 (Report Code), with a value of "066" (VICS BOL) or "055" (Straight [Uniform] BOL), to be passed in, along with all other required or optional data, to request reprinting a VICS or Uniform BOL label.
Freight Shipping Label

FedEx Ship Manager Server allows Field 1935 (Reprint Type), with a value of L, Field 29 (Tracking Number) with the PRO Number, and Field 187 (Label Format Value/Printer Type Indicator) to be passed in, along with all other required or optional data, to request reprinting the Freight Shipping label.

Note: The Freight Shipping label (thermal label, thermal label image on plain paper, and customizable labels) can be reprinted for up to three days after ship time through the label re-print utility.

060/160 Freight Create BOL Request/Reply Transaction

Bill of Lading Sub-Functions

Print BOL at Ship Time

If the BOL request is successful, then the completed BOL image is returned in PDF format. The PDF can be printed, if you have your own PDF Reader software installed at the time of shipment or at a later time.

Note: If you do not have a PDF Reader installed, but do have a printer configured, then FSMS can print a local version of the BOL. The BOL cannot be printed on a Thermal Label.

If you send the PDF to a file and indicate on the System Settings tab where and for how long to save the file, then FSMS stores the PDF in the designated location.

The Report Viewer Utility is modified to allow a FedEx Freight Priority and/or FedEx Freight Economy BOL to be re-printed.

FedEx Ship Manager Server supports the following BOL format types:

- Uniform
- VICS (Voluntary Interindustry Commerce Standards) Note:

The same printer configuration can be used to print either format.

Hazardous Materials (HazMat) documentation is not supported, you can manually mark “HazMat” on the BOL or set Field 1331 (Dangerous Goods/HazMat Flag) to Y to indicate that the shipment contains hazardous materials, and the FedEx driver will assist with appropriate documentation when the shipment is picked up.

With the exception of the PRO Number, BOL updates are not allowed.

System Generated PRO Number

FedEx Ship Manager Server supports a FedEx Freight system generated PRO number if returned in Field 29 (Tracking Number) of the 160 Freight Create BOL Reply transaction of a 060 Freight Create BOL Request. A FedEx Freight PRO number is returned only in the transaction if the Field ID was blank when the create BOL request was submitted. The PRO Number is stored in the FSMS database with the BOL record.

Note: BOL processing does not fail if a PRO number is not returned in the reply.

Preassigned PRO Number

In the 060/160 Freight Create BOL Request/Reply Transaction, you can preassign a FedEx Freight Priority or FedEx Freight Economy PRO number as optional data in Field 1222 (Preassigned Tracking Number) along with Field 1221 (Preassign Flag).

Shipping Labels

FedEx Ship Manager Server lets the customer indicate within the transaction one of the following formats for a thermal label:

- 4” × 6” without Doc-Tab
- 4” × 6” with Doc-Tab
- 4” × 8”
- 4” × 9”

Labels can be re-printed for up to three days.
The thermal image can also be printed on plain paper and saved as either a PNG, DIB, or PDF file.  

*Note: Plain paper image (8” x 11") is not supported.*

If the customer has indicated PDF or PNG in Field 187, then the freight label is stored in the respective format in a user-designated file. These files remain indefinitely or until the customer removes them. If the customer indicates a DIB (Device Independent Bitmap) format, then the freight label is printed either to the printer that is designated in Field 537 or to a configured printer.

**Email Options**

The customer can request that the BOL and/or the Freight Shipping Label (thermal image on plain paper) be emailed to the specified addresses designated within a create BOL request.  

*Note: Thermal Freight Shipping labels cannot be emailed.*

**Communication Failure**

If you cannot connect to FedEx, then FSMS will notify you that the connection cannot be made and continues the attempt to upload the BOL until the ship date rolls over to the next day. At that time, if the upload is still unsuccessful, then it is flagged in the FSMS database as not uploaded. If the upload is successful at a later time, and the error message, “Server could not connect to FedEx, will retry until the next day” is returned, then FSMS logs the error in the database.

*Note: In addition to the FSMS transactions, you can use FedEx Web Services for real-time response from FedEx. Web Services transactions can be used to perform the following Web Services functions: Address Validation, Tracking and Visibility. For more information about Web Services, see the Developer Resource Center at fedex.com/developer.*

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**060/160 Transaction Fields**

**Minimum Required Fields**

The following are the minimum required fields used in the 060/160 Freight Create BOL Request/Reply Transaction. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 0 — Transaction Code
- 4 — Sender Company
- 5 — Sender Address Line 1
- 7 — Sender City
- 8 — Sender State/Province
- 9 — Sender Postal Code
- 11 — Recipient Company
- 12 — Recipient Contact Name
- 13 — Recipient Address Line 1
- 15 — Recipient City
- 16 — Recipient State/Province
- 17 — Recipient Postal Code
- 18 — Recipient Phone Number
- 32 — Sender Contact Name
- 50 — Recipient Country
- 53 — C.O.D. Collect Amount
- 79 — Description of Contents
- 117 — Sender Country Code
- 183 — Sender Phone Number
FedEx Freight Automation Enhancements

Optional Fields

The following are the optional fields used in the 060/160 Freight Create BOL Request/Reply Transaction. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 6 — Sender Address Line 2
- 14 — Recipient Address Line 2
- 27 — C.O.D. Flag
- 53 — C.O.D. Collect Amount
- 69 — Declared Value/Carriage Value
- 187 — Label Format Value/Printer Type Indicator
- 439 — C.O.D. Remit Payor Name
- 537 — Thermal Printer Identifier/Label Buffer File Path
- 1201 — Sender’s Email Address
- 541 — Open Ship Flags
- 542 — Open Ship Index
- 581 — Custom Doc-Tab Field 1
- 582 — Custom Doc-Tab Field 2
- 583 — Custom Doc-Tab Field 3
- 584 — Custom Doc-Tab Field 4
- 585 — Custom Doc-Tab Field 5
- 586 — Custom Doc-Tab Field 6
- 587 — Custom Doc-Tab Field 7
- 588 — Custom Doc-Tab Field 8
- 589 — Custom Doc-Tab Field 9
- 590 — Custom Doc-Tab Field 10

- 1274 — Service Type
- 1670 — Package Weight/Shipement Weight
- 2931 — Number of Packages
- 6105 — NMFC Class
- 6107 — Shipment Terms
- 6116 — Freight Payor Role/Type
- 6118 — FXNL Billing Country Code
- 6119 — FXNL Billing Company Name
- 6120 — FXNL Billing Address Line 1
- 6122 — FXNL Billing City
- 6123 — FXNL Billing State/Province
- 6124 — FXNL BillingZip/Postal Code
- 6128 — FXF Billing Country Code
- 6129 — FXF Billing Company Name
- 6130 — FXF Billing Address Line 1
- 6132 — FXF Billing City
- 6133 — FXF Billing State/Province
- 6134 — FXF Billing ZIP/Postal Code
- 6138 — FXNL Account Number (Required if 6139 blank)
- 6139 — FXF Account Number (Required if 6138 blank)
- 6142 — Total Handling Units
- 6166-# — LTL Packing
- 6167 — BOL Format
- 99 — End of Record Indicator
### FedEx Freight Automation Enhancements

- 591 — Custom Doc-Tab Field 11
- 592 — Custom Doc-Tab Field 12
- 1201 — Sender’s Email Address
- 1202 — Recipient’s Email Address
- 1203 — Personal Message
- 1204 — Other Email Notification Addresses
- 1206 — Other ShipAlert Notification Flag
- 1221 — Preassign Flag
- 1222 — Preassigned Tracking Number/ProNumber
- 1237 — C.O.D. Return Phone Number
- 1238 — C.O.D. Return Company Name
- 1240 — C.O.D. Return Address Line 1
- 1241 — C.O.D. Return Address Line 12
- 1242 — C.O.D. Return City
- 1243 — C.O.D. Return State
- 1244 — C.O.D. Return Postal Code
- 1271 — Shipper’s Load And Count (SLAC)/Number of Pallets
- 1277 — Recipient Telephone Extension
- 1298 — Sender Phone Extension
- 1331—# — Dangerous Goods/HazMat Flag
- 1370 — Label Orientation
- 1375—# — Label Stock Orientation
- 1551 — Other Delivery Notification Flag (POD)
- 1552—# — Other Language Code
- 1553 — Shipper Delivery Notification Flag (POD)
- 1554 — Shipper ShipAlert Flag
- 1555 — Shipper Language Code
- 1556 — Recipient Delivery Notification Flag (POD)
- 1557 — Recipient ShipAlert Flag
- 1558 — Recipient Language Code
- 1621 — Doc-Tab Bar Code
- 1959 — Doc-Tab Header
- 1960 — Exception Notification Flag
- 1961 — Shipper Exception Notification Flag
- 1962 — Recipient Exception Notification Flag
- 1964 — Email Notification Format
- 1965 — Shipper Email Notification Format
- 1967 — Recipient Email Notification Format
- 3000 — C.O.D. Collection Type
- 3021 — Special Instructions/FedEx Home Delivery Instructions
- 3056—# — Package Purchase Order Number
- 3075 — HazMat Emergency Phone Number
- 4683 — Bill of Lading Number
- 6101—# — Shipment Volume
- 6103 — C.O.D. Remit Payor
- 6104 — C.O.D. Fee Payor
- 6106 — NMFC Item #
- 6108 — Shipper Number 1
- 6109 — Shipper Number 2
- 6110 — LTL Special Services
FedEx Freight Automation Enhancements

- 6131 — FXF Billing Address Line 2
- 6135 — FXF Billing Telephone Number
- 6136 — FXF Telephone Extension
- 6137 — FXF Billing Email ID
- 6140 — COD Remit to Phone Extension
- 6141 — COD Remit to Country
- 6151 — Liftgate at Pickup Term
- 6152 — Liftgate at Delivery Term
- 6153 — Inside Pickup Term
- 6154 — Inside Delivery Term
- 6155— # — Guaranteed Services Upgrade
- 6157 — Custom Delivery Indicator
- 6158 — Custom Delivery Time
- 6159 — Custom Delivery Start Date
- 6160 — Custom Delivery End Date
- 6161 — Custom Delivery On/Before/After Date
- 6162 — Email Documents Indicator
- 6163 — Email Documents To
- 6168 — LTL Freight Pickup Requested Flag
- 6169 — Requested Pickup Date
- 6170 — Dock Ready Time
- 6171 — Dock Close Time
- 6172 — LTL Pickup Submitted by Contact
- 6173 — LTL Pickup Submitted by Telephone
- 6174 — LTL Pickup Submitted by Email
- 6175 — At Dock Contact (Required if different than 6172 or 6210)
- 6176 — At Dock Telephone (Required if different than 6173)
- 6177 — At Dock Email (Required if different than 6174)
- 6210 — LTL Pickup Submitted by Company (Required if 6172 blank)
- 6211 — LTL Declared Value Units
- 6219 — Article Type
- 6220 — Excess Liability Amount
- 6264 — LTL Freight Shipment Index

Reply Fields
The following are included in the reply of the 060/160 Freight Create BOL Request/Reply Transaction. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 0 — Transaction Code
- 1 — Customer Transaction ID
- 2 — Error Code
- 3 — Error Message
- 29 — Tracking Number
- 34— # — Base Charge
- 35— # — Total Surcharge Amount
- 36— # — Total Discount Amount
- 37— # — Net Charge
- 60— # — Billed Weight
- 557— # — Message Type Code
- 558— # — Message Code
- 559— # — Message Text
FedEx Freight Automation Enhancements

- 560 — Rate Message Text
- 1133 — Service Availability Service Count
- 1274 — Service Type
- 3025 — Carrier Code
- 6138 — FXNL Account Number (if 6139 not returned)
- 6139 — FXF Account Number (if 6138 not returned)
- 6155— Guaranteed Services Upgrade
- 6204— LTL Rate Quote Number
- 6205— LTL Rate Scale
- 6207— LTL Fuel Surcharge Percent
- 6208 — BOL Image File Path
- 6209 — Address Label Image File Path
- 6217— LTL Surcharge Type
- 6218— LTL Surcharge Amount
4 Alcohol Shipping

Alcohol Shipment Identification
Adult Signature Default
Alcohol Shipper Configuration
Affected Transactions
FedEx customers must sign an agreement with FedEx to become an approved alcohol shipper. FedEx Ship Manager® Server (FSMS) automation will prevent alcohol shipping if a signed agreement is not in place.

**Alcohol Shipment Identification**

In FSMS v 11.0.1, there is a new alcohol flag (Field 1332) available that should be used to identify U.S. domestic alcohol shipments. This field is used to perform certain validations and defaults for alcohol shipments.

**Adult Signature Default**

When a U.S. domestic shipment is identified as containing alcohol using Field 1332 (Alcohol Flag), the shipment will be defaulted with adult signature service: Field 2339 (Signature Required Type) will be set to 4 (Adult), and a signature service surcharge is applied to the shipment.

*Note: The Customer reference field will also have "$AW" text added in the beginning.*

U.S. Domestic outbound and return multiple-piece shipments (MPS) are required to have the same Signature Service Option for all packages in the shipment.

**Alcohol Shipper Configuration**

The new Alcohol Shipper checkbox, shown in [Meter Settings Tab Showing New Alcohol Shipper Checkbox](#), is added on the Meter Settings tab. This checkbox is downloaded from the FedEx central system based on the customer eligibility to ship alcohol. Alcohol shipping functionality is available for the meter only when this checkbox is enabled.

The Alcohol Shipper checkbox is available on U.S. origin meters only. For a U.S. Domestic FedEx Home Delivery® or FedEx Ground shipment, if the meter is enabled for alcohol shipping, then the Alcohol special service option may be combined with other special services available for the shipment.

Alcohol shippers using the Future Day special service option should implement a solution based on instructions at [fedex.com/us/wine](http://fedex.com/us/wine).

**Affected Transactions**

The following transactions are affected by these Alcohol shipping enhancements:

- 020/120 Global Ship Request/Reply Transaction
- 025/125 Rate All Services Request/Reply Transaction
– For FedEx Ground services, if Field 1332 (Alcohol Indicator) = Y, then Field 2400 (Signature Option Fee) is included in a 025/125 Rate Available Services Request/Reply and in a 020/120 Global Ship Request/Reply rate quote transaction.

• 037/137 Email Label Request/Reply Transaction
• 050/150 Service Types and Special Services Request/Reply Transaction
• 070/170 Meter Query/Configuration Update Request/Reply Transaction
5 Regulatory Changes

DG Activity and Activity Measurement for EPRRO Shipments
Excepted Package Value for DG Radioactive Package Type
Criticality Safety Index for Radioactive Shipments
Shipping Radionuclides at the Package Level
Shipper’s Declaration for Dangerous Goods Form
New regulatory changes for Dangerous Goods (DG) that includes Excepted Package Radioactive Reportable Quantity (EPRRQ), Other Regulated Materials Domestic (ORM-D), and radioactive shipments apply to the following FedEx Express services. Failure to comply with these regulation changes may subject the shipper and carrier to fines and penalties from the U.S. Department of Transportation.

<table>
<thead>
<tr>
<th>Service</th>
<th>EPRRQ</th>
<th>ORMD</th>
<th>Radioactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>FedEx Express Intra U.S.</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>FedEx Express Intra Switzerland</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>FedEx Express Intra UAE</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>FedEx Express International</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>FedEx Express IPD</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>FedEx Express IDF</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>FedEx Express TD, Canada Only</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
</tr>
</tbody>
</table>

**DG Activity and Activity Measurement for EPRRQ Shipments**

The Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) now requires activity for all radioactive material, excepted package shipments that have reportable quantities (RQ). Activity or amount is the UN Identification number followed by the becquerel (Bq) units or the other multiples thereof. Field 1906 (Dangerous Goods Activity) and Field 1907 (Dangerous Goods Activity Measurement) are now required for the following UN identification numbers: UN 2909, UN 2910, UN 2911. These reportable quantities had previously not been allowed.

Currently, these are not Required - pending the effective date of the regulation change. Customers will be notified before the regulation goes into effect. However, when the regulation takes affect, a fine will be imposed if they are not provided.

Therefore, for all 020 Global Ship transactions, if Field 1331 (Dangerous Goods/HazMat Flag) = Q or q for EPRRQ shipping, then FSMS allows the values of Field 1906 (Dangerous Goods Activity) and Field 1907 (Dangerous Goods Activity Measurement) if included in the transaction, but they will not be required when a transaction contains a radioactive UN ID. See “Excepted Package Value for DG Radioactive Package Type” when a transaction contains one of the UN identification numbers.

Excepted package radioactives are not considered a fully regulated DG shipment as they do not contain a FedEx Handling code and there is no surcharge, although they still require a 1421C form to be printed. Therefore, if these two fields are included in a 020 Global Ship Request, then they are printed on the Shipper’s Declaration for Dangerous Goods form (FedEx 1421C or LZR DG DEC FORM).

**Excepted Package Value for DG Radioactive Package Type**

Field 1908 (Dangerous Goods Radioactive Packaging) has a new Excepted Pkg value for the UN 2909, UN 2910, and UN 2911 identification numbers for 020 Global Ship Request EPRRQ shipments.

**Criticality Safety Index for Radioactive Shipments**

The Criticality Safety Index is a dimensionless number (rounded up to the next tenth) assigned to and placed on the label of a fissile material package to designate the degree of control of accumulation of packages containing fissile material during transportation.
Field 4950 (Criticality Safety Index) is new for dangerous goods radioactive shipments. See “New Print Format for DG Package Dimensions” on page 42 when the Criticality Safety Index (CSI) has been indicated for a radioactive dangerous good in a 020 Global shipment.

Invalid Transaction Scenarios

Exceeded Value

If you are processing a 020 Global Ship Request containing express dangerous goods radioactive data, and the value of Field 4950 (Criticality Safety Index) is greater than 50.0, such as 51.0, and all other shipping data is valid, then Error Message 3106, “Criticality Safety Index must be a numeric value from 0 to 50” is returned and the transaction fails.

Invalid Value

If you are processing a 020 Global Ship Request containing express dangerous goods radioactive data, and the value of Field 4950 (Criticality Safety Index) is not blank, and the value is anything other than a numeric value between 0.0 and 50.0, such as A, a, or $, and all other shipping data is valid, then Error Message 3106, “Criticality Safety Index must be a numeric value from 0 to 50” is returned and the transaction fails.

Note: If the value of Field 4950 (Criticality Safety Index) is blank, and all shipping data is valid, then Field 4950 is ignored, and the transaction is successful.

Shipping Radionuclides at the Package Level

For radioactive packages, FSMS now supports radioactive packages for specific fields at the package level, as well as the commodity level. Previously, when Express Dangerous Goods packages were shipped, a single radionuclide commodity or multiple radionuclides commodities could exist within a package, and certain data elements were required to be entered for each radionuclide commodity. However, this rule is now relaxed for fields that are only captured once on the Shipper’s Declaration for Dangerous Goods form (FedEx 1421C or LZR DG DEC FORM).

Therefore, for all 020 Global transactions, if Field 1331 (Dangerous Goods/HazMat Flag) = Q or q for EPRRQ shipping, then FSMS now allows the values of Field 1906 (Dangerous Goods Activity) and Field 1907 (Dangerous Goods Activity Measurement) to be included in the transaction, but they are not required.

Note: Field 1905 (Dangerous Goods Radioactive), Field 1906 (Dangerous Goods Activity), and Field 1907 (Dangerous Goods Transport Index) will remain at the FedEx Express DG commodity level.

Furthermore, for all 020 Global Ship Request transactions, if Field 1331 (Dangerous Goods/HazMat Flag) = Q or q for EPRRQ shipping, and Field 1923 (Dangerous Goods All Packed in One Flag) or Field 1924 (Dangerous Goods Overpack Flag) = Y, then the following fields are captured once for the package, instead of the commodity level.

- Field 1908 — Dangerous Goods Radioactive Packaging Type
- Field 1909 — Dangerous Goods Transport Index
- Field 1910 — Dangerous Goods Radioactive Label Type
- Field 1911 — Dangerous Goods Surface Reading
- Field 1912 — Dangerous Goods Package Dim Length
- Field 1913 — Dangerous Goods Package Dim Width
- Field 1914 — Dangerous Goods Package Dim Height
- Field 1915 — Dangerous Goods Dim Units
- Field 4950 — Criticality Safety Index

When processing a 020 Global Ship Request, if Field 1331 (Dangerous Goods/HazMat Flag) = Q or q for EPRRQ shipping, then FSMS ignores the following fields, and they are not used in printing the Shipper’s Declaration forany more.
Dangerous Goods form (FedEx 1421C or LZR DG DEC FORM), but they will be stored.

- Field 1905 — Dangerous Goods Radionuclide
- Field 1908 — Dangerous Goods Radioactive Packaging Type
- Field 1909 — Dangerous Goods Transport Index
- Field 1910 — Dangerous Goods Radioactive Label Type
- Field 1911 — Dangerous Goods Surface Reading
- Field 1912 — Dangerous Goods Package Dim Length
- Field 1913 — Dangerous Goods Package Dim Width
- Field 1914 — Dangerous Goods Package Dim Height
- Field 1915 — Dangerous Goods Dim Units
- Field 1916 — Dangerous Goods Physical Form
- Field 1917 — Dangerous Goods Chemical Formula

**Shipper’s Declaration for Dangerous Goods Form**

EPRRQ shipments require a printed Shipper’s Declaration for Dangerous Goods form (FedEx 1421C or LZR DG DEC FORM).

**New Print Format for DG Package Dimensions**

When printing the Shipper’s Declaration for Dangerous Goods form (FedEx 1421C or LZR DG DEC FORM), if Field 4950 (Criticality Safety Index) has been indicated for a radioactive dangerous good in a 020 Global shipment, and neither Field 1923 (Dangerous Goods All Packed in One Flag) or Field 1924 (Dangerous Goods Overpack Flag) = Y for the shipment, then FSMS prints the Criticality Safety Index (CSI) value between the Transport Index (TI) value and the dimension values. FSMS also adds an (L) before the length in the first dimension, a (W) before the width in the second dimension, and an (H) before the height in the third dimension, as shown in the following example.

TI 2.0, CSI 1.0, dims (L) 20 x (W) 20 x (H) 20 cm

**Print Typed Signature for Express ORM-D Shipments**

When printing the Shipper’s Declaration for Dangerous Goods form (FedEx 1421C or LZR DG DEC FORM) for Express ORM-D shipments the Name of the Signatory will print under the signature section for U.S. and Puerto Rico shipments. For shipments with multiple ORM-D commodities that have multiple signatory names, FSMS prints the last instance of Name of Signatory under the Signature section at the bottom of the form.
6 Business Rules Updates

Maximum Declared Value Increase
Maximum Declared Value Increase
FedEx Ground and FedEx Home Delivery

- For a Print Return Label, the maximum Declared Value limit for FedEx Ground and FedEx Home Delivery® packages increased to $1000 from $100.
- For an Email Return Label, the maximum Declared Value limit for FedEx Ground and FedEx Home Delivery packages increased to $1000 from $100.

Affected Transactions

When processing a Print Return Label via a 020/120 Global Ship transaction for Single Piece, Single Shot, and Open Ship, or when processing an Email Return label via a 037/137 Email Label Request/Reply transaction, when Field 1274 (Service Type) is set to 90 (FedEx Home Delivery) or 92 (FedEx Ground), then Field 26 (Declared Value/Carriage Value) can be passed with a value of 1000, or Field 69 (Declared Value/Carriage Value) can be passed with a value of 100000.

Invalid Transactions

Print Return Label Declared Value Limit Exceeded
If you process a Ground Print Returns shipment via the 020 Global Ship transaction, and Field 69 (Declared Value/Carriage Value) = 100100 or greater, or Field 26 (Declared Value/Carriage Value) = 1001 or greater, and all other shipping data is valid, then Error Message 2253, “The limit for Declared Value has been exceeded” is returned, and the transaction fails.

Print Return Label Declared Value Limit Exceeded
If you process a Ground Email Returns shipment via the 037/137 Email Label Request/Reply transaction, and Field 69 (Declared Value/Carriage Value) = 100100 or greater, or Field 26 (Declared Value/Carriage Value) = 1001 or greater, and all other shipping data is valid, then Error Message 2253, “The limit for Declared Value has been exceeded” is returned, and the transaction fails.
Software Configuration

Backing Up and Restoring Data
Rating
A new Backup & Restore Utility allows ease of use in backing up and restoring data. Enhancements to rating include the ability to turn off rating when it is not needed during shipping.

**Backing Up and Restoring Data**

You can now use the Backup & Restore Utility to backup and restore data. The following lists the data that you can backup or restore:

- Configuration files (.ini)
- Windows registry or configmanager.xml values
- SHIP.DB and SHIP.LOG
- URSA file
- Rate files
- Close and Hourly Upload files
- Customer Configuration tables
- Shipment tables
- BackupVersion.txt

**Restrictions**

- Back up and restore local FedEx data for FedEx Ship Manager® Server (FSMS) software versions 11.0.1 and above.

*Note: For older software versions below FSMS v 11.0.1, the utility must be manually loaded. Contact FedEx Technical Support at 1-877-330-2774 for assistance.*

- Ensure that the file location selected to restore a previously backed up file is the most current backup data.
- To restore Rate Data and Demand Download of rates data, back up the data from a specific version and restore the rate data to the same version. Rate Data and Demand Download of rates data that is backed up from one version of FSMS software cannot be restored to a different version of FSMS software.
- Restore backed up data only to a clean FSMS database. Perform a clean install before attempting to restore backed up data. If the database contains existing shipping data, then the restore function will fail. Contact FedEx Technical Support at 1-877-330-2774 if you need assistance.

**Backup & Restore Utility**

Select the R3 Backup & Restore Utility from the FedEx Ship Manager® folder.

FedEx Ship Manager Folder

The initial view of the FSMS Backup & Restore Utility is shown in Backup & Restore Utility Initial Screen.
Backup & Restore Utility Initial Screen

Back Up Data

1. Click the Access Privileges button to open the Access Privileges dialog box for the Support Level, as shown in Access Privileges - Enter Password for Backup & Restore Utility.

Access Privileges - Enter Password for Backup & Restore Utility

2. Enter the appropriate password to select additional options. If an invalid password is entered, then an error message is displayed. Access Privileges include the following:

   - **User Level** (Default) — User Level access privileges for the Backup & Restore Utility are the same as the FSMS Configuration Utility access and privileges. This level is the default and does not require a password.

   - **Support Level** (Password Access) — Support Level password for the Backup & Restore Utility is not the same as the Support Level password used with the FSMS Configuration Utility.

3. Select the Backup radio button to enable the options under Select Data available for backup, as shown in Backup Radio Button Enables Select Data Options. You may un-check any of the data options. However, if you un-check all the options, then an error message is displayed. See "Invalid Transaction Scenarios" on page 51.
Successful Backup Message

4. Click the **OK** button and a window displays a list of the data that was backed up, as shown in Components Successfully Backed Up.

Components Successfully Backed Up

5. Click the **OK** button to return to the Backup & Restore Utility.

6. Click the **Help** button, as shown in Backup Radio Button Enables Select Data Options, to display the Help Window.

7. Click the **Exit** button to close the Backup & Restore Utility.

If the Exit button is clicked before the backup process is complete, then an error message is displayed.

Restoring Data

1. Click the **Access Privileges** button to open the Access Privileges dialog box for the Support Level, as shown in Access Privileges - Enter Password for Backup & Restore Utility.

When the backup process has completed, a message shown in Successful Backup Message is displayed.
Access Privileges - Enter Password for Backup & Restore Utility

2. Enter the appropriate password to select additional options. If an invalid password is entered, then an error message is displayed.

Access Privileges include the following:

- **User Level** (Default) — User Level access privileges for the Backup & Restore Utility are the same as the FSMS Configuration Utility access and privileges. This level is the default and does not require a password.

- **Support Level** (Password Access) — Support Level password for the Backup & Restore Utility is not the same as the Support Level password used with the FSMS Configuration Utility.

3. Click the **Restore** radio button to enable the **Select Data** options available for restore. All of the options under **Select Data** are automatically checked if the backup data is from the same software version as the backed up file being restored. User level cannot select which data is restored.

*Note:* **Rate Data** and **Demand Download** of rates data that is backed up from one version of FSMS software cannot be restored to a different version of FSMS software. See “Invalid Transaction Scenarios” on page 51.

When the restore process has completed, a message similar to **Successful Restore Message** is displayed:

Successful Restore Message

4. Click the **OK** button and a window displays a list of the data that was restored, as shown in **Components Successfully Restored**.

**Components Successfully Restored**

5. If you have not selected the **Demand Download** of rates option, then the message shown in **Perform a Download of Rates Message** is displayed.

**Perform a Download of Rates Message**

6. Click the **OK** button to return to the Backup & Restore Utility.
7. Click the folder icon next to the **Directory** text box to specify the directory file to backup or restore.
   Default location: *(FedExUser)*\Application\Data\FedEx\R3Backup
   Use the default location or select a folder from the **Browse For Folder** window, as shown in **Select a Folder for Backup or Restore**. You can also type a path location. To create a new folder, select **Make New Folder**, type the folder name, then click **OK**.

   **Select a Folder for Backup or Restore**

   ![Browse For Folder Window](image)

   - If the specified backup directory is not valid, then all the options under **Select Data** are disabled and an error message is displayed.
   - If the backup data already exists in the default folder location or the selected folder location, then an error message is displayed.
   
   See “Invalid Transaction Scenarios” on page 51 for details.

   The **Select Data** options are disabled for the User Level, because this level cannot select what gets restored.

   - If the restore process is across the same version family, then all the **Select Data** options are automatically checked and enabled for selection for the Support Level user; for example, Backup data is from software v 11.0.1 and is being restored on software v 11.0.2.
   - If restore is across different version families, then only the following **Select Data** options are automatically checked and enabled for selection for the Support Level user: **Configuration Data**, **Database**, **Registry Data**, **Rate Data** and **Demand Download** data cannot be restored across version families. Therefore, these options will not be automatically checked if you are attempting to restore data across version families. You can only restore **Rate Data** backed up from a specific version and restore it to the exact same version.

8. Click the **Start** button to initiate either the backup or the restore process.
   The status bar located at the bottom of the Backup & Restore Utility displays the progress of the backup/restore process.

9. Click the **Help** button to display the Help Window.

10. Click the **Exit** button to close the Backup & Restore Utility.
   If the Exit button is clicked before the backup/restore process is complete, then an error message is displayed.

**Backup & Restore Utility Log File**

A new log file is created each time the Backup & Restore Utility is run.
Log File Name
The Backup & Restore Utility log file name is BR_MMDDYYYYHHMMSS.log, where:
B = Backup
R = Restore

Log File Location
The storage location for the Backup & Restore Utility log file is C:\Windows located in the following directory:
\FedExUser\Application\Data\FedEx\R3Backup

Invalid Transaction Scenarios
Invalid Backup Transaction Scenarios
Existing Unclosed Shipment Data
The system must be closed before running a backup or the following error message displays (Backup Error Message for Existing Unclosed Shipment Data), and the backup process is cancelled.

Backup Error Message for Existing Unclosed Shipment Data

Existing Data in Backup Folder Location
If existing backup data is in the default folder location or the selected folder location, then the following error message displays (Backup Error Message for Existing Data in Backup Folder Location).

Backup Error Message for Existing Data in Backup Folder Location

Backup Data Failure
If one or more items cannot be backed up, then FSMS displays the Utility Log File created in Notepad that lists the backup failure, as shown in Backup & Restore Utility Log File - Example Backup Data Failure Error.

Note: After viewing the log file, you can either keep the errored backup data or navigate to the selected backup folder and remove the file.
Chapter 7
Software Configuration

Backup & Restore Utility Log File - Example Backup Data Failure Error

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Connected to database</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully retrieved software path (C:) from registry</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Backup folders /documents and settings/fedex/my documents</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Connected to database</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully read version info from registry</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Backup up FedEx version 1506</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
<tr>
<td>03-12-2016 13:45:00</td>
<td>Successfully copied file from C:\FedEx\FedEx.cfg to C:\documents and settings\FedEx</td>
</tr>
</tbody>
</table>

Backup Error Message for Data Options Not Checke

Exit Button Selected Before Backup Complete

If the Exit button is selected while the backup is in progress, then the following error message is displayed (Backup Error Message for Exit Button Selected Before Backup Complete).

Invalid Restore Transaction Scenarios

Existing Unclosed Shipment Data

If unclosed system shipment data exists, then the following error message is displayed, and the restore process is cancelled (Restore Error Message for Existing Unclosed Shipment Data).
Restore Error Message for Existing Unclosed Shipment Data

Backup & Restore

Shipping data exists on the system! Please perform a clean install prior to attempting to restore backed up data. For assistance contact FedEx Technical Support at 1-877-339-2774 for clean database.

OK

Existing Data in Shipping Database

If the FSMS system shipping database contains data before starting the restore process, then the following error message is displayed (Restore Error Message for Existing Data in Shipping Database).

Restore Error Message for Existing Data in Shipping Database

Backup & Restore

Database contains data. Restore may only be performed on a clean database. Restore process is cancelled.

OK

Backup Data Not Found

If the default directory location or a specified directory location in the Directory field does not contain any backup files to restore, then the following error message is displayed (Restore Error Message for Backup Data Not Found).

Restore Error Message for Backup Data Not Found

Backup & Restore

Backup Data needed for Restore is not located in directory selected. Would you like to choose another location?

Yes  No

Restore Data Failure

If one or more items cannot be restored, then FSMS displays the Utility Log File created in Notepad that lists the restore failure, as shown in Backup & Restore Utility Log File - Example Restore Data Failure Error.
Backup & Restore Utility Log File - Example Restore Data Failure Error

![Backup & Restore Log File](image)

Data Options Not Checked
If all the Select Data options are not selected, then the following error message is displayed (Error Message for Data Options Not Checked).

![Error Message for Data Options Not Checked](image)

Rating
To enhance the customer experience and increase performance, rating has been enhanced to allow shippers to turn off rating when it is not needed during shipping.

The Meter Settings tab has been updated to include a No Shiptime Rates checkbox, which provides the ability to turn off rating when shipping. This improves performance at the time of shipping when rating is not required.

The default position of the No Shiptime Rates checkbox is unchecked (turned off). If you upgrade to FSMS v 11.0.1, the No Shiptime Rates checkbox is unchecked and the Rating Options drop-down menus are set to List & Discount. User View, Field, Support, and Development access privileges can turn on or off the No Shiptime Rates button on the Meter Settings tab.

When No Shiptime Rates is enabled, no rate reply fields are returned in the 120 Global Ship Reply and no rates will be stored in the database. Also, the doc-tab reference field rate data will be blank when printed.

The Meter Settings tab has been further enhanced under the Options sections for Express, Ground, LTL Freight, and SmartPost. Specifically, the List Rates checkbox has been modified to a drop-down menu called Rating Options. Refer to Meter Settings Tab with Rating Options and No Shiptime Rates.
Checkbox to see the enhanced Meter Settings tab. The Rating Options drop-down menu has three selections: **None** (no rates will be returned), **Discount** (only discount rates will be returned), and **List & Discount** (both discount and list rates will be returned).

Note: If rating is turned off on the Meter Settings tab under the **Rating Options** drop-down menu (**None** is selected), rate quotes can still be obtained by passing in Field 1234 (Rate/Route/Time-in-Transit Flag) with a value of 1 (Rate Quote) or 3 (Rate Quote and Route).

Additionally, rating can be turned on or off, either on the Meter Settings tab or at the transaction level. To turn rating on or off at the transaction level, use the **020 Global Ship Request** transaction with the following fields:

- Field 3062 — Rate Quote Type, set to position 3 (No Shiptime Rates)
- Field 1234 — Rate/Route/Time-in-Transit Flag, set to position 1 (Rate Quote) or position 3 (Rate Quote and Route)

The new Alternate Rates feature offers you package and shipment-level incentives. See “Bonus Discounts” and “New and Modified Alternate Rate Fields” for more information.
Reports

If the **No Shiptime Rates** checkbox is selected on the Meter Settings tab, various reports will print without rates. Those are:

- **FedEx Domestic Reports**
  - Domestic Courier Report
  - Domestic Invoice Report
  - Domestic Shipment Report
  - Domestic EOD TransOut Report
- **FedEx International Reports**
  - International Courier Report
  - International Invoice Report
  - International Shipment Detail Report
  - International Visa Manifest
  - International Invoice Combined Invoice
  - International EOD TransOut Report
- **FedEx Ground Reports**
  - Ground Pickup Manifest
  - Ground Multiweight Delivery Detail
  - Ground Multiweight Package Detail
  - Ground Multiweight Shipment Detail by Postal Code
  - Ground Multiweight Shipment Detail by Zone
  - Ground Multiweight Shipment C.O.D. Detail
  - Ground Multiweight Shipment Declared Value Detail
  - Ground Hazardous Material Certification Report
  - Ground C.O.D. Report
  - Ground Shipment Detail Report
  - Ground Domestic EOD
  - Ground International EOD
- **Common Reports**
  - Freight Bill of Lading
  - Shipment Summary

Transaction Scenarios

**Rating Conflicts on Meter Settings tab versus Transactions**

If you attempt to ship via the *020 Global Ship Request* transaction and pass in Field 3062 (Rate Quote Type) with a value of either 1 (Discount Rates Only) or 2 (List Rates and Discount Rates), but the Meter Settings tab has the No Shiptime Rates checkbox selected, then Error Message 2733, “Rating has been disabled in the FedEx Configuration Utility” is returned, and the transaction fails to return a rate but ships successfully.

If you attempt to rate all services using the *025 Rate Available Services Request* transaction and pass in Field 3062 (Rate Quote Type) set to position 3 (No Shiptime Rates), then Error Message 2733, “Rating has been disabled in the FedEx Configuration Utility” is returned, and rates are not returned in the transaction.

Field Updates

The following lists the new field used for *020 Global Ship Request* and *025 Rate Available Services Request* rating transactions. Refer to the *FedEx Ship Manager® Server Transaction Coding Reference Guide* for more information.

- 2028 (No Shiptime Rates)
This Field ID takes precedence over the No Ship-time Rates checkbox on the Meter Settings tab in the FSMS Configuration Utility.

The following lists the new values added to existing fields used for the 020 Global Ship Request and 025 Rate Available Services Request rating transactions. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- **3062** (Rate Quote Type)
  - **3** — No Ship-time Rates
  - **4** — Discount Rate, List Rate, and Alternative Rate
  - **5** — Discount Rate and Alternative Rate

- **1053** (Download Flag)
  - **16** — FedEx Express Earned/Bonus Discount Rates
  - **17** — FedEx International List Rates Flag
  - **18** — Intra-Canada List Rates Flag
  - **19** — ODA/OPA Surcharge

- **20** — Ground List Rates
- **21** — SmartPost Rates
- **22** — SmartPost Delivery Confirmation Numbers
- **23** — HazMat Files
- **24** — SmartPost Earned Discount Rates
- **25** — Update Features
8 Labels

VAT/EIN/EORI Number Added to Printed Documentation
Standard Shipping Label
This chapter describes changes to the labels on high-value international FedEx Express shipment labels and changes to the standard shipping label for FedEx Express, FedEx Ground and FedEx SmartPost® shipments.

### VAT/EIN/EORI Number Added to Printed Documentation

For shipments processed to, from or between a European country, FedEx Ship Manager Server (FSMS) now allows you to display the Economic Operators Registration and Identification Number (EORI), as well as the Value Added Tax (VAT) number and Employer Identification Number (EIN) on printed documentation, which is a requirement for high-valued shipments. This feature applies to the following International FedEx Express services:

- FedEx International First Overnight
- FedEx International Priority Overnight
- FedEx International Economy®
- FedEx Europe First®
- FedEx International Priority® Freight
- FedEx International Economy® Freight
- FedEx International Priority DirectDistribution® (IPD)
- FedEx International Economy DirectDistribution™ Service (IED)
- FedEx International Priority DirectDistribution® Freight (IDF)

### Printed Labels

The following field changes ensure that the EORI or the EIN/VAT numbers are added to printed labels. (See “Field Updates” on page 60).

- Field 118, Field 180, and Field 1139 now have EORI added to their names.
- Field 1352 has a new O - EORI value.

- Field 2448 (Recipient Identification Type) is new for FedEx Express shipments.

FedEx Ship Manager Server allows up to 18 valid characters, but truncates the entry after 17 characters for Field 1139 (Sender IRS/EIN/EORI Number) and Field 1352 (Sender Identification Number) set to the new O - EORI value and/or Field 118 (Recipient IRS/EIN/VAT/EORI Number) and new Field 2448 (Recipient Identification Number) to request that the EORI number be printed on the thermal label, plain paper, or thermal image on plain paper label.

*Note: In Field 118, the Internal Revenue Service (IRS) Number is an Obsolete value.*

### Reports

#### Commercial Invoice

FedEx Ship Manager Server modified the field names in the Shipper and Consignee sections of the Commercial Invoice (CI) as follows. Bolded text indicates the change: IRS/EIN/EORI

#### Consolidated Commercial Invoice

You have the option to pass in the Importer EORI number so that it will appear on the Consolidated Commercial Invoice (CCI) in the “Importer” section of the report. The name of Field 180 (Importer of Record IRS/EIN/SSN/VAT/EORI) is modified to accommodate this. The actual field name on the document will not be modified.

### Affected Transactions

#### 020/120 Global Ship Transaction

- If Field 118 (Recipient IRS/EIN/VAT/EORI Number) is set in an 020 Global Ship Request shipment, then Field 2448 specifies whether the data entered in Field 118 is an Employer Identification Number (EIN), Value
Added Tax (VAT) Number, or an Economic Operators Registration and Identification (EORI) number.

- If Field 118 (Recipient IRS/EIN/VAT/EORI Number) is sent in an 020 Global Ship Request with a valid value and Field 2448 (Recipient ID Type) is either blank or missing but all other required/optional shipping data is present and valid, then error message 5064 "Please specify the recipient tax ID type in tag 2448" is returned and the shipment is processed.

- In an 020/120 Global Ship Request/Reply transaction, FSMS will allow Field 1274 (Service Type) to be passed in with a valid International Express Service type and Field 1139 (Sender IRS/EIN/EORI Number) and/or Field 118 (Recipient IRS/EIN/VAT/EORI Number) set with a valid EORI number up to 18 alphanumeric characters and/or Field 1352 (Sender Identification Type) with a new value of O, and/or new Field 2448 (Recipient Identification Type) with a value of O, and all other required/optional shipping data to process a shipment to, from, or between a European Union country.

- If Field 1139 (Sender IRS/EIN/EORI Number) is sent in an 020 Global Ship Request with a valid value but Field 1352 (Sender ID Type) is either blank or missing from the transaction, but all other required/optional shipping data is present and valid, then error message 5065 "Please specify the sender tax ID type in tag 1352" is returned and the shipment is processed.

024/124 Shipment Query Transaction

In a 024/124 Shipment Query Request/Reply transaction, FSMS will allow Field 29 (Tracking Number) to be passed in with a valid International Express tracking number and all other required/optional data to request shipping information to be returned in the 124 Shipment Query Reply, including existing Field 1139 (Sender IRS/EIN/EORI Number) and/or existing Field 180 (Importer of Record IRS/EIN/VAT/EORI Number) for a shipment that was processed to, from or between a European Union country.

Note: Field 118 (Recipient IRS/EIN/VAT/EORI Number) is already returned in a 124 Shipment Query Reply.

FedEx Configuration Utility

The following Values are added to the drop-down menu in the Doc-Tab Field section of the Doc-Tab Settings tab. Bolded text indicates the change.

- Sender IRS/EIN/EORI Number (Field 1139)
- Recipient IRS/EIN/VAT/EORI Number (Field 118)
- Importer of Record IRS/EIN/VAT/EORI Number (Field 180)

Note: New bubble help is added to the word Headings in the Doc-Tab Fields section of the Doc-Tab Settings tab. When the cursor is placed over the word Headings, the help reads as follows: "This field allows customization of the heading name with a limitation of 15 characters."

Field Updates

The following lists the new fields, and changes to existing fields to ensure that the EORI or the EIN/VAT numbers are added to printed labels for 020 Global Ship Request and 024/124 Shipment Query Request/Reply transactions. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 118 — Recipient IRS/EIN/VAT/EORI/Number
  - Name changed to include EORI
  - Max Field length changed from 15 to 17
  - New value: Economy Operator Registration Identification (EORI)
  - Internal Revenue Service (IRS) Number value obsoleted

- 180 — Importer of Record - IRS/EIN/SSN/VAT/EORI Number
  - Name changed to include EORI
  - Max Field length changed from 15 to 17
Standard Shipping Label

To improve the customer experience and simplify the label process, and at the same time reduce the burden on IT development, a new standard shipping label is being introduced for FedEx Express, FedEx Ground and FedEx SmartPost® (Small Shipper producing Ground labels). This shipping label is being integrated in phases over several years and will implement:

- A 34-digit FEDEX 1D barcode with modified human readable content for domestic U.S. shipments
- A 14-digit Tracking Number (also known as an enterprise tracking number)
- An expanded Shipper Number field
- A Product Index dictionary common for both FedEx Express and FedEx Ground

This improvement provides a common barcode specification and standard human readable content. It also addresses saturation of product/service and handling code in current FedEx Express labels, and it simplifies handling and reduces re-labeling of shipments through the use of a common label as shipments move through FedEx services. A sample FedEx Express Label is shown in Standard Shipping Label for FedEx Express, and a sample FedEx Ground label is shown in Standard Shipping Label for FedEx Ground.

- **1139 — Sender IRS/EIN/EORI Number**
  - Max Field length changed from 17 to 18
  
  *Note: This will truncate anything beyond 17 characters.*

- **1352 — Sender Identification Type**
  - New valid value of O - EORI (Economy Operator Registration Identification)

- **2448 — Recipient Identification Type**
  - New field - Required*
  - Specifies whether the data entered in Field 118 (Recipient IRS/EIN/VAT/EORI Number) is an Employer Identification Number (EIN), Value Added Tax (VAT) Number, or an Economic Operators Registration and Identification Number (EORI).
  - Valid values are:
    - S — SSN/IRS - Obsolete value
    - E — EIN
    - V — VAT
    - O — EORI
  - * Required if Field 118 (Recipient IRS/EIN/VAT/EORI Number) is set.
  - For shipping, use Single Piece.
Several new fields allow for the tracking number type to be set, as well as to identify a master or secondary tracking number. If a ground account number is greater than seven digits, then along with Field 29 (Tracking Number), Field 671 (Tracking ID Type) will be returned with valid values of either 1 (Express), 2 (FEDEX), 3 (Ground (Legacy Barcode/Tracking Number)), or 5 (USPS). Field 672 (Secondary Tracking ID Type) will also be returned with the same valid values as Field 671.

The following transaction samples show a request and reply with the Tracking ID Type and the Secondary Tracking ID Type set.
020/120 Global Shipping Request/Reply

Depending upon the Meter Tab settings, FSMS will retrieve the next tracking number from the appropriate path (either the FEDEX 1D or legacy Ground 15-digit range), or the shipper will provide a valid pre-assigned tracking number, if the option to do so is applicable to the shipment.

The FedEx Ground shipping label will be generated with the appropriate shipping label, either the FEDEX 1D or the legacy Ground 15-digit tracking number with the Ground Shipper Number embedded.

Transaction Scenarios

If you have a Ground Account/Shipper Number greater than 7 digits and attempt to ship via the 020 Global Ship Request transaction, via FedEx Ground (including print return) or FedEx Home Delivery® and pass in Field 1274 set to 90 or 92, then FSMS returns Error Message 2756, “FedEx Ground, and/or FedEx Home Delivery, and/or FedEx SmartPost Small Shipper, and/or FedEx SmartPost Returns Services are currently unavailable. Please contact FedEx Technical Support via your normal support channel” is returned, and the transaction fails.

If you have a Ground Account/Shipper Number greater than 7 digits and attempt to request a pre-assigned tracking number via the 004 Tracking Number Request transaction for a FedEx Ground, FedEx Home Delivery, FedEx SmartPost Small Shipper, or FedEx SmartPost Returns, then FSMS returns Error Message 2757, “FedEx Ground, and/or FedEx Home Delivery, and/or FedEx SmartPost Small Shipper, and/or FedEx SmartPost Returns Tracking Number is currently unavailable. Please contact FedEx Technical Support via your normal support channel,” and the transaction fails.

135 Child Meter Registration Reply

The Child Meter Registration transaction allows the new Barcode Type settings on the Meter Settings tab to be carried over to child meters.

137 Email Label Reply

Depending upon the Meter Tab settings, FSMS will retrieve the next tracking number from the appropriate path (either the FEDEX 1D or the legacy Ground 15-digit range), or the shipper will provide a valid pre-assigned tracking number, if the option to do so is applicable to the shipment.

FEDEX 1D Barcode

The FEDEX 1D linear barcode, which is being introduced only for FedEx Express® shipments, will consist of three parts:

- Product Index (8 digits)
- Application Data (12 digits)
- Tracking Number (14 digits)

The product index is a key to a lookup table that holds operation-specific information (package type, form ID, special handling code, service code, multicode identifier, and the content of application data).

The application data may or may not contain additional information. The application data may be general to an operating company, specific to a subset of products, customer specific, or some other application.

The tracking number will no longer have an affiliation with any particular operating company. It is only at time of shipment creation that the Enterprise Tracking Number will be assigned to a particular package being shipped with a particular operating company. The Ground Shipper Number is no longer part of the tracking number.

You can set which barcode type you want to print, either the FEDEX 1D or the legacy barcode. This selection is made on the Meter Settings tab in the
new drop-down menu for **Barcode Type**. However, a mix of labels may be printed in certain scenarios.

**Mixed Labels**

For FedEx Express shipments, if the Barcode Type is set to ASTRA (legacy barcode) and the origin/destination pair does not support the new FEDEX 1D barcode, or if the Barcode Type setting is switched to FEDEX 1D in the midst of creation of either an MPS shipment (multiple request/multiple reply structure) or future day shipment, then different labels (FEDEX 1D vs legacy) may be created.

For FedEx Ground shipments, if the Barcode Type is set to GROUND (legacy barcode) and the origin/destination pair does not support the new FEDEX 1D barcode, or if the Barcode Type setting is switched to FEDEX 1D in the midst of creation of either an MPS shipment (multiple request/multiple reply structure) or future day shipment, then different labels (FEDEX 1D vs legacy) may be created. Also, since different types of pre-assigned tracking numbers (15-digit, 12-digit) could be provided for a given FedEx Ground shipment, it is possible to have a mix of FEDEX 1D and legacy labels provided.

**14-Digit Tracking Number**

A new standardized 14-digit tracking number, also called the enterprise tracking number, is being gradually phased in. Current tracking numbers are 12 digits for FedEx Express and 15 digits for FedEx Ground. The new enterprise tracking number will be independent of the operating company originating the shipment. The Ground Shipper Number as part of the tracking number is being phased out.

*Note: If you have a Ground Shipper Number less than 8 digits, then FSMS will continue to maintain the existing Ground tracking number range. FedEx account representatives will determine utilization of Ground tracking numbers.*

---

**Pre-Assigned Tracking Numbers**

**FEDEX 1D Enabled**

If the FEDEX 1D barcode is enabled via the Barcode Type drop-down menu on the Meter Settings tab, and you are attempting to process a **004 Tracking Number Request** transaction and pass in Field 499 (Tracking Number Type) with a value for a FedEx Express shipment, then Field 671 (Tracking ID Type) will be returned in the **104 Tracking Number Reply** transaction with a value set to 2, FEDEX, which is FEDEX 1D. Field 671 will correspond to the primary tracking number returned, which is Field 29 (Tracking Number). Then, if applicable, Field 672 (Secondary Tracking ID Type) will be returned in the **104 Tracking Number Reply** transaction set to 2, FEDEX, which is FEDEX 1D. Field 672 will correspond to what is viewed as the secondary tracking number returned, which is existing Field 28 (C.O.D. Return Tracking Number).

*Note: Contact technical support to enable or disable the FEDEX 1D barcode, as the settings on the Meter Settings tab are only temporary.*

If the FEDEX 1D barcode is enabled via the Barcode Type drop-down menu on the Meter Settings tab, and the **020 Global Ship Request** transaction contains Field 1222 (Preassigned Tracking Number/ProNumber), then Field 671 (Tracking ID Type) will be returned in the **104 Tracking Number Reply** transaction with a value set to 2, FEDEX, which is FEDEX 1D. Field 671 will correspond to the primary tracking number returned, which is Field 29 (Tracking Number). Then, if applicable, Field 672 (Secondary Tracking ID Type) will be returned in the **104 Tracking Number Reply** transaction set to 2, FEDEX, which is FEDEX 1D. Field 672 will correspond to what is viewed as the secondary tracking number returned, which is Field 28 (C.O.D. Return Tracking Number).

Field 28 (C.O.D. Return Tracking Number) is the only condition that can produce a secondary tracking number with pre-assigned functionality for FedEx Express. This is accomplished by setting Field 499 (Tracking Number Type) to value 4 (Master C.O.D.).
Legacy

Ground Account/Shipper Number - 7 Digits or Less
If the GROUND barcode is enabled via the Barcode Type drop-down menu on the Meter Settings tab, and you have a FedEx Ground Account Number of 7 digits or less, and you are attempting to process a 004 Tracking Number Request transaction, then Field 671 (Tracking ID Type) will be returned in the 104 Tracking Number Reply set to a value of 3 (Ground, which is Legacy Barcode/Tracking Number). The tracking number will be 15 digits, and the Ground Account/Shipper Number will be embedded within the tracking number. For SmartPost shipments, along with the tracking number returned in Field ID 4927 (Delivery Confirmation Tracking Number), the new Secondary Tracking ID Type (Field ID 672) will be returned in the 104 Tracking Number Reply set to value 5 - USPS. The existing USPS Tracking Number returned will be the existing length and the Ground Account/Shipper Number is embedded within the Ground Tracking Number.

Ground Account/Shipper Number - Greater Than 7 Digits
If the GROUND barcode is enabled via the Barcode Type drop-down menu on the Meter Settings tab, and you have a FedEx Ground Account Number greater than 7 digits, and you are attempting to process a 004 Tracking Number Request transaction, then Field 671 (Tracking ID Type) will be returned in the 104 Tracking Number Reply set to a value of 2, FEDEX, which is FEDEX 1D. The tracking number will be 12 digits, and the Ground Account/Shipper Number will not be embedded in the tracking number.

Express
If the Express barcode type drop-down menu is not set for FEDEX 1D (Legacy barcodes), then Field 671 (Tracking ID Type), will be returned in the 104 Tracking Number Reply transaction set to a value of 1 (Express Legacy). Field 672 (Secondary Tracking ID Type) will then be returned in the 120 Global Ship Reply transaction set to a value of 1 (Express). Field 672 corresponds to what is viewed as the secondary tracking number returned, which is Field 28 (COD Return Tracking Number).

Tracking Numbers Tab
The Tracking Numbers tab is being enhanced to support the new 14-digit enterprise tracking number. FedEx Tracking Numbers replaces the former Express Tracking Numbers and FedEx Future Tracking Numbers replaces the former Express Future Tracking Numbers areas on the Tracking Numbers tab (see Tracking Numbers Tab with New 14-Digit FedEx Tracking Numbers).
Demand Download Utility

The Demand Download Utility has been slightly modified in support of the new standardized 14-digit tracking number. The checkbox under Tracking Numbers, which was formerly labeled Express Tracking Numbers is now named **FEDEX Tracking Numbers**. See FedEx Tracking Numbers Options on the Demand Download Utility.
FedEx Tracking Numbers Options on the Demand Download Utility

Meter Settings Tab - Barcode Types

The Meter Settings tab has been enhanced to include two Barcode Type drop-down menus.

Under **Express Options**, the **Barcode Type** drop-down menu is populated with two options: FEDEX 1D or ASTRA (See Express Barcode Type on the Meter Settings Tab). This lets you use either the new 34-digit barcode or to continue to use the legacy barcode.

Express Barcode Type on the Meter Settings Tab

Under **Ground Options**, the barcode type is selected under the IGDD Hub Code drop-down menu (See Ground IGDD Hub Code and Barcode Type Options on the Meter Settings Tab). Two options are included: Ground or FEDEX 1D. The FEDEX 1D barcode choice is only displayed if FedEx has enabled the new 34-digit barcode for your account. The GROUND option will produce the legacy barcode, which includes the 15-digit tracking number with the Ground Shipper Number embedded within it.
Ground IGDD Hub Code and Barcode Type Options on the Meter Settings Tab

Further enhancements include changes to the Meter Settings tab of the SCNC (Serial Container Numeric Code) drop-down menu to SCNC/Secondary Barcode. See Meter Settings Tab Showing Ground SCNC/Secondary Barcode Options. The values in the drop-down menu have been revised as follows:

- 9611 is now 9611/None - for custom labels
- 9612 is now split into two values:
  - 9612/2D Custom - for custom labels
  - 9612/2D FSMS - for FSMS label generation
- 9613 is now 9613/SSCC18 - for custom labels
- In addition, there are four new values:
  - 9621/None - for custom labels
  - 9622/2D Custom - for custom labels
  - 9622/2D FSMS - for FSMS labels
  - 9623/SSCC18 - for custom labels

Table 1. SCNC/Secondary Barcode Values

<table>
<thead>
<tr>
<th>For FSMS Generated Labels</th>
<th>For Custom Labels</th>
</tr>
</thead>
<tbody>
<tr>
<td>9612/2D FSMS</td>
<td>9611/None</td>
</tr>
<tr>
<td>9622/2D FSMS</td>
<td>9612/2D Custom</td>
</tr>
<tr>
<td></td>
<td>9622/2D</td>
</tr>
<tr>
<td></td>
<td>9613/SSCC18</td>
</tr>
<tr>
<td></td>
<td>9623/SSCC18</td>
</tr>
</tbody>
</table>
The values that are displayed in the drop-down menu are dependant upon the settings in the **Barcode Type** box under the **Express Options** and the **IGDD Hub Code** drop-down menu in the **Ground Options** areas.

**Note:** In customer accounts where the Ground Shipper Number is greater than 7 digits, the drop-down menu will only display the new values listed above, regardless of the settings in

**Barcode Type** and **IGDD Hub Code.** Also, if FEDEX 1D is not enabled in either drop-down menu, then the revised 9612/2D FSMS value will not be shown in the drop-down menu. Use the new 9622/2D FSMS value instead. The revised 9612/2D Custom value remains in the drop-down menu so that you can produce a custom generated label where FSMS has no control over the label content.

Anytime a SCNC/Secondary Barcode value for custom labels is selected, a warning message is displayed, notifying you that custom labels may not be used with FSMS generated labels. See **SCNC/Secondary Barcode Warning Message**.

**Note:** All eight SCNC/Secondary Barcode values will not ever be populated in the drop-down menus.

### SCNC/Secondary Barcode Warning Message

When a new meter is added for FEDEX 1D, the default SCNC/Secondary Barcode value is 9622/2D FSMS. When a new meter is added with Ground Legacy set up, the default SCNC/Secondary Barcode value is 9612/2D FSMS. The Barcode Type drop-down menu for Express is available to Field, Support, and Development access levels.

The Barcode Type drop-down menu for Ground is available to Field and Support access levels, if the Ground Shipper/Account Number associated with the meter is 7 digits or less and initiative control is on.
The User View access level will display the option, but it will be disabled (grayed out).

**Field Updates**

The following list shows the new fields used for creating standard shipping labels for 020 Global Ship Request and 024/124 Shipment Query Request/Reply transactions. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

The following lists the enhancements to existing fields used for creating standard shipping labels for 020 Global Ship Request and 024/124 transactions.

- **499** — Tracking Number Request Type
  Name changed to include “Request”
  New value added: 26 - Ground FedEx 15-Digit Tracking Number

- **650** — Operational Element No. 2
  Name changed to include “Operational”

- **651** — Operational Element No. 3
  Name changed to include “Operational”

- **652** — Operational Element No. 4
  Name changed to include “Operational”

- **653** — Operational Element No. 5
  Name changed to include “Operational”

- **654** — Operational Element No. 6
  Name changed to include “Operational”

- **655** — Operational Element No. 9
  Name changed to include “Operational”

- **656** — Operational Element No. 10
  Name changed to include “Operational”

- **657** — Operational Element No. 11
  Name changed to include “Operational”

- **658** — Operational Element No. 12
  Name changed to include “Operational”

- **659** — Operational Element No. 13
  Name changed to include “Operational”

- **660** — Operational Element No. 14
  Name changed to include “Operational”

- **661** — Operational Element No. 15
  Name changed to include “Operational”

- **662** — Operational Element No. 16
  Name changed to include “Operational”

- **663** — Operational Element No. 17
  Name changed to include “Operational”

- **664-#** — FEDEX 1D Barcode
  New field - Output only
  Used at the package level to use the new FEDEX 1D Barcode

- **665** — Operational Element No. 8
  Name changed to include “Operational”

- **667-#** — FEDEX 1D Barcode for COD
  New field - Output only
  The FEDEX 1D Barcode returned for Express C.O.D. shipments (if supported for the shipment).

- **668-#** — Operational Instructions Element #18
  New field - Output only
  Contains Ground Information, but content will be populated on a given area of the FedEx Shipping label and not as specific business content.
• 669 - Operational Instructions Element #19
  New field - Output only
  Contains the COD Amount Tag (FXE COD Return Label), but content will be
  populated on a given area of the FedEx Shipping label and not as specific
  business content. Provided by URSA/UVSDK in addition to other existing
  operational instructions data elements that may be applicable from an
  Express context.

• 670 - Operational Instructions Element #20
  New field - Output only
  Contains the SECURED or UNSECURED Tag (FXE COD Return Label), but
  content will be populated on a given area of the FedEx Shipping label and
  not as specific business content. Provided by URSA/UVSDK in addition to
  other existing operational instructions data elements that may be applicable
  from an Express context.

• 671 - Tracking ID Type
  New field - Optionality N/A
  Identifies the type of tracking number that was requested or returned. If
  more than one type of tracking number exists for a given piece (for
  example, SmartPost Small Shipper or SmartPost Returns supports two
  different tracking numbers), then this field will correspond with Field 29
  (Tracking Number).
  Valid values are:
  0 — Reserved for Future Use
  1 — Express (Legacy Barcode)
  2 — FEDEX
  3 — Ground (Legacy Barcode/Tracking Number)
  4 — INTERNAL
  5 — USPS
  6 thru 99 — Reserved for Future Use

• 672 — Secondary Tracking ID Type
  New field - Optionality N/A
  Identifies the type of tracking number that was requested or returned. If
  more than one type of tracking number exists for a given piece (for
  example, SmartPost Small Shipper or SmartPost Returns supports two
  different tracking numbers), then this field will correspond with Field 29
  (Tracking Number).
  Valid values are:
  0 — Reserved for Future Use
  1 — Express (Legacy Barcode)
  2 — FEDEX
  3 — Ground (Legacy Barcode/Tracking Number)
  4 — INTERNAL
  5 — USPS
  6 thru 99 — Reserved for Future Use

• 673 — Master Tracking ID Type
  New field - Optionality N/A
  Identifies the type of master tracking number requested or returned. Valid
  values are:
  0 — Reserved for Future Use
  1 — Express (Legacy Barcode)
  2 — FEDEX
  3 — Ground (Legacy Barcode/Tracking Number)
  4 — INTERNAL
  5 — USPS
  6 thru 99 — Reserved for Future Use

• 1053 — Download Flag
  Valid value 1 changed to FedEx Tracking Number; “Express” removed
New valid value **26** - Update Features

- **2028** — No Shiptime Rates
  
  New field - Optional
  
  This is the transaction tag that takes precedence over the No Shiptime Rates check box on the Meter Settings tab in the FSMS Configuration Utility.

  Valid values are:
  
  **Y** — Yes
  
  **N** — No

- **3062** — Rate Quote Type
  
  New valid value **3** - No Ship-time Rates

- **4926** — Preassigned Secondary Tracking Number
  
  Name change to include “Secondary”

Refer to the *FedEx Ship Manager® Server Transaction Coding Reference Guide* for more information.
9 Rating Enhancements

- Residential Delivery Surcharges
- Additional Handling Surcharges for U.S. Export
- Express Weight Rounding Rule Enhancement
- Bonus Discounts
FedEx has updated the methods used to calculate the dimensional weight of a package effective in January 2011, which simplifies the weight rounding rules for FedEx Express® packages and shipments across regions. Also, Additional Handling Charges (AHS) are now available for U.S. Export. For more details on these upcoming changes, go to fedex.com/us/2011rates for the most recent information.

Residential Delivery Surcharges
A residential delivery surcharge will apply for all shipments delivered to residential locations in Canada and the U.S., including intra-Canada shipments.

020/120 Global Ship Transaction
For the following transaction scenarios:
- If List Rates are not on the device or have not been implemented, then List Rates will not be returned.
- If No Shiptime Rates is configured on the Meter Setting tab or Field 3062 (Rate Quote Type) = 3 (No Ship-time Rates), then no rates will be returned. This option is only available is FSMS1080 and above.

Residential Delivery
If you are attempting to ship an Express/International with Residential Delivery shipment via the 020 Global Ship transaction, and Field 440 (Residential Delivery Flag) = Y, and the List Rates checkbox on the Meter Settings tab in the Express section is checked, or Field 3062 (Rate Quote Type) = 2 (List Rates and Discount Rates), and list rates have been successfully downloaded or implemented on the system, then:
- If Dynamic Surcharging is not configured (configuration is unchecked), the 120 Global Ship Reply returns both Field 429 (Residential Surcharge) and Field 1510 (List Residential Surcharge) with a surcharge amount.
- If Dynamic Surcharging is configured (configuration is checked), the 120 Global Ship Reply returns the following Fields and surcharge codes/rates:
  - Field 1947 (Dynamic Surcharge Code) returns 140 — Residential surcharge code
  - Field 1948 (Surcharge Value) returns a surcharge value
  - Field 1945 (List Dynamic Surcharge Code) returns 140 — Residential surcharge code
  - Field 1946 (List Surcharge Value) returns the surcharge list rate

Rate/Route/Time-in-Transit
If you are attempting to rate an Express/International shipment via the 020 Global Ship transaction, and Field 440 (Residential Delivery Flag) = Y, and Field 1234 (Rate/Route/Time-in-Transit Flag) = 1 (Rate Quote) or 3 (Rate Quote and Route), and the List Rates checkbox on the Meter Settings tab in the Express section is checked, or Field 3062 (Rate Quote Type) = 2 (List Rates and Discount Rates), and list rates have been successfully downloaded or implemented on the system, then:
- If Dynamic Surcharging is not configured (configuration is unchecked), the 120 Global Ship Reply returns both Field 429 (Residential Surcharge) and Field 1510 (List Residential Surcharge) with a surcharge amount.
- If Dynamic Surcharging is configured (configuration is checked), the 120 Global Ship Reply returns the following Fields and surcharge codes/rates:
  - Field 1947 (Dynamic Surcharge Code) returns 140 — Residential surcharge code
  - Field 1948 (Surcharge Value) returns a surcharge value
  - Field 1945 (List Dynamic Surcharge Code) returns 140 — Residential surcharge code
  - Field 1946 (List Surcharge Value) returns the surcharge list rate

Open Ship Rate Quote
If you are attempting to rate an Express/International shipment via the 020 Global Ship transaction, and Field 440 (Residential Delivery Flag) = Y, and Field 541 (Open Ship Flag) = 3 (RATE), and the List Rates checkbox on the Meter Settings tab in the Express section is checked, or Field 3062 (Rate Quote Type) = 2 (List Rates and Discount Rates), and list rates have been successfully downloaded or implemented on the system, then:

- If Dynamic Surcharging is not configured (configuration is unchecked), the 120 Global Ship Reply returns both Field 429 (Residential Surcharge) and Field 1510 (List Residential Surcharge) with a surcharge amount.
- If Dynamic Surcharging is configured (configuration is checked), the 120 Global Ship Reply returns the following Fields and surcharge codes/rates:
  - Field 1947 (Dynamic Surcharge Code) returns 140 — Residential surcharge code
  - Field 1948 (Surcharge Value) returns a surcharge value
  - Field 1945 (List Dynamic Surcharge Code) returns 140 — Residential surcharge code
  - Field 1946 (List Surcharge Value) returns the surcharge list rate

**025/125 Rate Available Services Transaction**

Dynamic Surcharging is not supported in the 025/125 Rate Available Services Request/Reply transaction. For the following transaction scenarios:

- If List Rates are not on the device or have not been implemented, then List Rates will not be returned.
- If No Ship-time Rates is configured on the Meter Setting tab or Field 3062 (Rate Quote Type) = 3 (No Ship-time Rates), then no rates will be returned. This option is only available is FSMS v 10.8.0 and above.

**Rate/Route/Time-in-Transit**

If you are attempting to rate an Express/International shipment via the 025 Rate Available Services Request transaction, and Field 440 (Residential Delivery Flag) = Y, and Field 1234 (Rate/Route/Time-in-Transit Flag) is not passed allowing it to be defaulted, or Field 1234 = 1 (Rate Quote) or 3 (Rate Quote and Route), and the List Rates checkbox on the Meter Settings tab in the Express section is checked, or Field 3062 (Rate Quote Type) = 2 (List Rates and Discount Rates), and list rates have been successfully downloaded or implemented on the system, then:

- If Dynamic Surcharging is not configured (configuration is unchecked), the 025 Rate Available Services Reply returns the following Fields and surcharge codes/rates:
  - Field 429 (Residential Surcharge) returns a surcharge amount
  - Field 1510 (List Residential Surcharge) returns a surcharge amount
- If Dynamic Surcharging is configured (configuration is checked), individual surcharges will not be returned.

**Additional Handling Surcharges for U.S. Export**

**Additional Handling Surcharge Applicable Services**

- For U.S. Export Express Packages, the Additional Handling Surcharge (AHS), defined in Field 4912 (Additional Handling Surcharge Type) with valid values of 1 (AHS Packaging), 2 (AHS Weight), and 3 (AHS Dimension), applies to the following services:
  - International First (IF)
  - International Priority (IP)
  - International Economy (IE)
• For U.S. Domestic and Transborder (TD) Express Freight, AHS Freight applies to the following services:
  – FedEx First Overnight (FO) Freight
  – FedEx 1Day Freight (F1)
  – FedEx 2Day Freight (F2)
  – FedEx 3Day Freight (F3)
• For U.S. Export Express Freight, AHS Freight is applicable to the following services:
  – International Priority Freight (IPF)
  – International Economy Freight (IEF)
• For U.S. Domestic and Transborder (TD) Express Packages, AHS (Weight, Dimensions and Packaging) surcharge is applicable to the following service:
  – FedEx First Overnight (FO)

Note: FedEx FO applies to U.S. origin meters only, including Alaska, Hawaii, and Puerto Rico. All current U.S. Domestic AHS rules will apply.

Additional Handling Surcharge Criteria

Note: Values for dimension, weight, packaging, surcharge, and so on are for reference only. Go to fedex.com/us/2011rates for information on finalized values.

FedEx will
• Assess a per shipment Additional Handling Surcharge (AHS) for U.S. Export packages based on similar criteria for U.S. Domestic package services for Packaging, Weight, and Dimension:
  – Measures greater than 60 inches in length
  – Measures greater than 30 inches in length along its second-longest side
• Has an actual weight greater than 70 lbs.
• Is not fully encased in an outer shipping container
• Is encased in an outer shipping container made of metal, wood, hard plastic or foam material, such as polystyrene packaging materials
• Is cylindrical, including (without limitation) cans, buckets, barrels, drums or pails that are not fully encased in a shipping container made of corrugated cardboard
• Is cylindrical, whether or not encased in corrugated cardboard, and exceeds 18 inches in length or 3 inches in diameter or has a diameter greater than its height
• Is bound with metal, plastic or cloth banding, including packages where the outer surface area is loosely wrapped or creased, or where the contents protrude outside the surface area
• If it would become entangled in, or cause damage to, other packages in the FedEx conveyance system

• Assess a per shipment Additional Handling Surcharge — Freight for U.S. Export Express Freight shipments with any dimension greater than 60 inches, which equals to $TBD/shipment charge.
• Assess a per package Additional Handling Surcharge — Freight for U.S. Domestic Express Freight shipments with any dimension greater than 60 inches, which equals to $TBD/pkg charge.
• Assess Additional Handling Surcharge (Weight, Dimensions, Packaging) for U.S. Express Package shipments to Puerto-Rico, PR-U.S., and intra-PR.
• Assess Additional Handling Surcharge (Weight, Dimensions, Packaging) for U.S. Domestic First Overnight (FO) shipments, which are currently exempt from an AHS surcharge.
Rating Enhancements

Differential Additional Handling Surcharge Discounting

FedEx will assess an Additional Handling Surcharge (AHS) for U.S. Export package discounting based on three separate categories, which is currently the same as U.S. Domestic packages:

1. AHS Dimensions: Measures greater than 60 inches in length, or where the second longest side exceeds 30 inches
2. AHS Weight: Actual weight is greater than 70 lbs.
3. AHS Packaging: Falls under any other criteria, such as cylindrical, banded, and so on.

For example, you could have a 10% AHS discount for packages that exceed 60 inches in length (category 1), a 20% discount for packages that weighs greater than 70lbs (category 2), but no AHS discount for packages that fall under any other criteria (category 3).

U.S. Domestic and U.S. Export Express Freight discounting will be based on two separate categories:

1. AHS - Freight U.S. Domestic discount: Shipments having any dimension greater than 60 inches will be charged an AHS surcharge equal to $TBD/package charge.
2. AHS - Freight U.S. Export discount: Shipments having any dimension greater than 60 inches will be charged an AHS surcharge equal to $TBD/shipment charge.

For example, you could have a 10% AHS-Freight discount for U.S. Domestic Express Freight shipments that exceed 60 inches in length (category 1) and a 20% discount for U.S. Export Express Freight shipments that exceed 60 inches in length (category 2).

Doc-Tab Configuration

The following values will be added in the Values drop-down menus used for the Doc-Tab Fields located on the Doc-Tab Settings tab, shown in Values Drop-down Menus Used for the Doc-Tab Fields, for these shipping types.

U.S. Export:

- AHS Surcharge Type
- List AHS Surcharge Type

The numeric representation of each of the following AHS Surcharge Type will print when the Doc-Tab Fields and Reference is configured:

- 1 – AHS Package
- 2 – AHS Dimension
- 3 – AHS Weight
- 4 – AHS Freight

The following existing values will be modified in the Value drop-down menus used for the Doc-Tab Fields and Reference sections located on the Doc-Tab Settings tab for these shipping types.

Express, Express Export, TD options:

- Non Standard Container/AHS Surcharge
- List Non Standard Container/AHS Surcharge
Values Drop-down Menus Used for the Doc-Tab Fields

Refer to the FedEx Ship Manager® Server Developer Guide for more information on configuring Doc-Tabs.

Additional Handling Surcharge Field Updates

New values are added to the following fields to support the Additional Handling Surcharge (AHS) feature.

- **1945-#** — List Dynamic Surcharge Code
  - **223** — AHS Freight
  - **700** — Delivery confirmation service surcharge
  - **720** — Non-machinable surcharge

- **1947-#** — Dynamic Surcharge Code
  - **223** — AHS Freight

- **3121-#** — Doc-Tab Values
  See the “Doc-Tab Data Elements” table in the FedEx Ship Manager® Server Transaction Coding Reference Guide for a list of the new AHS values.

- **4912-#** — Additional Handling Surcharge Type
  - **4** — AHS Freight

- **4913-#** — List Additional Handling Surcharge Type
  - **4** — AHS Freight

Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

020/120 Global Ship Transaction

For the following transaction scenarios:

- If List Rates are not on the device or have not been implemented, then List Rates will not be returned.

Doc-Tab Configuration Field Update

New values are added to the following field and are listed in the “Doc-Tab Data Elements” table in the FedEx Ship Manager® Server Transaction Coding Reference Guide.

- **3121-#** — Doc-Tab Values
• If **No Shiptime Rates** is configured on the Meter Setting tab or Field 3062 (Rate Quote Type) = 3 (No Shiptime Rates, then no rates will be returned. This option is only available in FSMS1080 and above.

**Additional Handling Surcharge (AHS) for Customer Packaging**

If you are attempting to ship a U.S. Export Shipment via the 020 Global Ship Request that applies to an Additional Handling Surcharge (AHS) and Field 1273 (Packaging Type) = 01 (Customer Packaging), and the **List Rates** checkbox on the Meter Settings tab in the Express section is checked, or Field 3062 (Rate Quote Type) = 2 (List Rates and Discount Rates), and list rates have been successfully downloaded or implemented on the system, then:

• If Dynamic Surcharging is not configured (configuration is unchecked), the 120 Global Ship Reply returns the following surcharges:
  - Field 3013 (Nonstandard Container Surcharge) returns a surcharge amount
  - Field 3076 (List Nonstandard Container Surcharge) returns a surcharge amount
  - Field 4912 (Additional Handling Surcharge Type) returns one of the follow new values, depending upon the AHS that applies for that shipment:
    - 1 — AHS Packaging
    - 2 — AHS Weight
    - 3 — AHS Dimension
    - 4 — AHS Freight

• If Dynamic Surcharging is configured (configuration is checked), the 120 Global Ship Reply returns:
  - Field 1947 (Dynamic Surcharge Code) with one of the following surcharge types:
    - 220 — AHS Package
    - 221 — AHS Weight
    - 222 — AHS Dimension
    - 223 — AHS Freight

  – Field 1945 (List Dynamic Surcharge Code) returns with one of the following surcharge types, along with Field 1946 (List Surcharge Value), as you must associate the Field 1946 occurrence number with the occurrence number for Field 1945-#:
    - 220 — AHS Package or
    - 221 — AHS Weight or
    - 222 — AHS Dimension or
    - 223 — AHS Freight

**Additional Handling Surcharge (AHS) for Rate/Route/Time-in-Transit**

If you are attempting to ship a U.S. Export Shipment via the 020 Global Ship Request that applies to an Additional Handling Surcharge (AHS) and Field 1273 (Packaging Type) = 01 — (Customer Packaging), and Field 1234 (Rate/Route/Time-in-Transit Flag) = 1 (Rate Quote) or 3 (Rate Quote and Route), and the **List Rates** checkbox on the Meter Settings tab in the Express section is checked, or Field 3062 (Rate Quote Type) = 2 (List Rates and Discount Rates), and list rates have been successfully downloaded or implemented on the system, then:

• If Dynamic Surcharging is not configured (configuration is unchecked), the 120 Global Ship Reply returns the following surcharges:
  - Field 3013 (Nonstandard container Surcharge) returns a surcharge amount
  - Field 3076 (List Nonstandard Container Surcharge) returns a surcharge amount
Field 4912 (Additional Handling Surcharge Type) returns one of the following values, depending upon the AHS that applies for that shipment:

- 1 — AHS Packaging
- 2 — AHS Weight
- 3 — AHS Dimension
- 4 — AHS Freight

Field 4913 (List Additional Handling Surcharge Type) returns with one of the following values applicable for the shipment:

- 1 — AHS Packaging
- 2 — AHS Weight
- 3 — AHS Dimension
- 4 — AHS Freight

If Dynamic Surcharging is configured (configuration is checked), the 120 Global Ship Reply returns:

- Field 1947 (Dynamic Surcharge Code) with one of the following surcharges, along with Field 1948 (Surcharge Value) as you must associate the Field 1948 occurrence number with the occurrence number for Field 1947:
  - 220 — AHS Package
  - 221 — AHS Weight
  - 222 — AHS Dimension
  - 223 — AHS Freight

- Field 1945 (List Dynamic Surcharge Code) returns one of the following surcharge codes, along with Field 1946 (List Surcharge Value), as you must associate the Field 1946 occurrence number with the occurrence number for Field 1945-#.

Additional Handling Surcharge (AHS) for Open Ship Rate Quote

If you are attempting to ship a U.S. Export Shipment via the 020 Global Ship Request that applies to an Additional Handling Surcharge (AHS), and Field 1273 (Packaging Type) = 01 (Customer Packaging), and Field 541 (Open Ship Flag) = 3 (RATE), and the List Rates checkbox on the Meter Settings tab in the Express section is checked, or Field 3062 (Rate Quote Type) = 2 (List Rates and Discount Rates), and list rates have been successfully downloaded or implemented on the system, then:

- If Dynamic Surcharging is not configured (configuration is unchecked), the 120 Global Ship Reply returns the following surcharges:
  - Field 3013 (Nonstandard container Surcharge) returns a surcharge amount
  - Field 3076 (List Nonstandard Container Surcharge) returns a surcharge amount
  - Field 4912 (Additional Handling Surcharge Type) returns with a value of 4 (AHS Freight), depending on the AHS that applies for that shipment

- If Dynamic Surcharging is configured (configuration is checked), the 120 Global Ship Reply returns the following surcharges:
– Field 1947 (Dynamic Surcharge Code) returns 223 (AHS Freight), along with Field 1948 (Surcharge Value), as you must associate the Field 1948 occurrence number with the occurrence number for Field 1947.
– Field 1945 (List Dynamic Surcharge Code) returns 223 (AHS Freight), along with Field 1946 (List Surcharge Value), as you must associate the Field 1946 occurrence number with the occurrence number for Field 1945.

025/125 Rate Available Services Transaction

For the following transaction scenarios:

- If List Rates are not on the device or have not been implemented, then List Rates will not be returned.
- If No Ship-time Rates is configured on the Meter Setting tab or Field 3062 (Rate Quote Type) = 3 (No Ship-time Rates), then no rates will be returned. This option is only available is FSMS1080 and above.

Additional Handling Surcharge (AHS) for Rate/Route/Time-in-Transit

If you are attempting to ship a U.S. Export Shipment via the 025 Rate Available Services Request transaction, that applies to an Additional Handling Surcharge (AHS), and only Field 1273 (Packaging Type) = 01 (Customer Packaging), and Field 1234 (Rate/Route/Time-in-Transit Flag) has not been set, allowing it to be defaulted, or Field 1234 = 1 (Rate Quote) or 3 (Rate Quote and Route), and the List Rates checkbox on the Meter Settings tab in the Express section is checked, or Field 3062 (Rate Quote Type) = 2 (List Rates and Discount Rates), and list rates have been successfully downloaded or implemented on the system, then:

If Dynamic Surfacing is not configured (configuration is unchecked), the 025 Rate Available Services Reply returns the following surcharges:

- Field 3013 (Nonstandard container Surcharge) returns a surcharge amount
- Field 3076 (List Nonstandard Container Surcharge) returns a surcharge amount
- Field 4912 (Additional Handling Surcharge Type) returns with a value of 4 — AHS Freight, depending on the AHS that applies for that shipment
- Field 4913 (List Additional Handling Surcharge Type) returns with a value of 4 — AHS Freight, depending on the AHS that applies for that shipment

Note: Dynamic Surfacing is not supported in the 025/125 Rate Available Services Request/Reply transaction.

Express Weight Rounding Rule Enhancement

Fractional customer/DIM weight (including 1/100th of a lb or Kg) of all express packages and freight shipments will be rounded up to the next whole pound or 0.5 kilogram. The pound will be rounded up in 1 pound increments and the kilo will be rounded up in 0.5 kilo increments.

When using Field 1670 (Package Weight/Shipment Weight), FSMS accepts two decimals places and rounds to the next pound. For example, Field 1670 = 1002 LBS, and the 120 Global Ship Reply transaction returns Field 60 (Billed Weight) = 11 LBS and prints 11 LBS on the label. This behavior is the same for Domestic Express and Domestic Ground.

Note: These rules already apply for Ground Shipments and for Domestic Express shipments, so to make the customer experience consistent, Express services will consistently apply this rule for all International Services.

Bonus Discounts

Bonus Discounts (BD) are a “behavior” discount that offers you package/shipment-level incentives when specific conditions are met.

This feature, which is available beginning with the 11.0.0 release, allows offline shipping clients to show Bonus discounts (alternate rates) in their
courtesy rate quote. Offline devices need the ability to rate shipments with bonus discounts to be closer to the fedex.com rating experience.

Note: Field 2853 (Bonus Discount) can be returned blank, zero or not at all when a bonus discount is zero.

Reports
The following reports will have the Bonus Discount Amount added to them:
- CA Domestic Shipment Report
- FedEx International Shipment Report (CA)
- FedEx International Shipment Report (U.S.)
- FedEx International Shipping Summary (U.S.)
- U.S. Domestic Shipment Report

Bonus Discount will only be on Express Reports and will be placed under Earned Discount Amount.

Note: No reports are produced for Alternate Rates.

Affected Transactions
020/120 Global Ship Transaction
When a bonus discount applies to your account, Field 2853 (Bonus Discount Amount) will be returned in the 120 Global Ship Reply transaction if the option is not turned off.

When an alternate rate applies to your account, the alternate rate field tags will be returned in the 120 Global Ship Reply transaction if the option is configured and if rating is successful.

025/125 Rate Available Services Transaction
When a bonus discount applies to your account, Field 2853 (Bonus Discount Amount) will be returned in the 125 Rate Available Services Reply transaction if the option is not turned off.

When an alternate rate applies to your account, the alternate rate field tags will be returned in the 125 Rate Available Services Reply transaction if the option is configured and if rating is successful.

070/170 Meter Query or Configuration Transaction
In the 070 Meter Query or Configuration Request transaction, Field 3121 (Doc-Tab Values) will accept a new serial number for the Bonus Discount Amount;

223 — Bonus Discount
Field 3121(Doc-Tab Values) supports Alternate Rate Fields with corresponding serial numbers in support of the 070/170 Meter Query or Configuration Request/Reply transaction for Doc-Tabs. New Field 2850-# (Discount Option Settings) will allow the position of the Rate Reply Box/es for Express/Ground/SmartPost.

Use the 070/170 Meter Query or Configuration Request/Reply transaction for:
- “Configuring Discount Options”
- “Configuring Rating Options” on page 83

Configuring Discount Options
Configure discount options via the 070/170 Meter Query or Configuration Request/Reply transaction. Configuring FedEx Express Discount Options shows the Rate Reply Content Options screen for Express Discount Options on the Meter Setting tab.
Configuring FedEx Express Discount Options

Configuring Rating Options

Within the Configuration, Meter Setting Tab, you now can select Rating Options and Discount Options. You can turn Earned Discounts (ED) on or off for FedEx Express, FedEx Ground and FedEx SmartPost. You can turn Bonus Discounts (BD) on or off for FedEx Express. Some customers want to see the ED and/or BD in their reply BUT they DO NOT want to pass this discount along to the end customer. The customer can use the ALTERNATE RATES to make that determination as to what to pass along to the end customer based on the rating options and discount setting. See “New and Modified Alternate Rate Fields” for more information on “New and Modified Alternate Rate Fields”.

In the 070 Meter Query or Configuration Request transaction, Field 3025 (Carrier Code) and Field 3062 (Rate Quote Type), are enhanced to configure the rating option settings for Express, Ground, and SmartPost. The two new additions are:

- Discount Rate, List Rate, and Alternative Rate
- Discount Rate and Alternative Rate

These new Rating Options values will be added for Express, Ground, and SmartPost on the Meter Settings tab, as shown in New Rating Options on the Meter Settings Tab. Express Options will also include a Discount Option.
New Rating Options on the Meter Settings Tab

When the **Discount Option** is selected, a new window opens. **Discount Options for Express** shows the Discount Options screen for Express.

**Discount Options for Express**

- **Exclude Earned Discounts**
- **Exclude Bonus Discounts**
- **Use Discount Options with the Standard Rate Reply tags (34, 35, 36, 37 etc.)**
- **Use Discount Options with the Standard Rate Reply tags (2954, 2955, 2966, 2957 etc.)**

Ground Discount Options will only have an Earned checkbox.

**New Rating Options on the SmartPost Settings Tab** shows the Discount Options for the SmartPost Setting tab.
New Rating Options on the SmartPost Settings Tab

See the FedEx Ship Manager® Server Services and Shipping Guide for information on configuring the Rating Options on the Meter Setting tab.

FedEx Demand Download Utility

FedEx Ship Manager Server downloads the Bonus Discounts via DLL (Downline Load) at reconcile time.

Bonus and Earned Discount Option on the FedEx Demand Download Utility shows the FedEx Demand Download Utility for Express Bonus/Earned Discounts.
New and Modified Alternate Rate Fields

A customer could use the alternate rates for when they want to customize the rating options and what gets returned in the 120 reply thus deciding what to pass along to the end customer based on the rating options and discount settings. The new and updated alternate rate fields (for bonus discounts) are now available and are not supported in legacy FSMS versions 8.5.5, 10.0.6, and 10.6.2. The following new fields support the Alternate Rates feature. Refer to the FedEx Ship Manager® Server Transaction Coding Reference Guide for more information.

- 2848 — Alternate Dynamic Surcharge Code
- 2849 — Alternate Dynamic Surcharge Code
- 2850 — Discount Option Settings
- 2851 — Alternate Bonus Discount Amount
- 2852 — Alternate Earned Discount Amount
- 2853 — Bonus Discount Amount
- 2854 — Alternate Base Charge
- 2855 — Alternate Discount Amount
- 2856 — Alternate Total Surcharge
- 2857 — Alternate Net Charge Amount
- 2858 — Alternate Fuel Surcharge
- 2859 — Alternate Declared Value Surcharge
- 2860 — Alternate Minimum Package Charge
- 2861 — Alternate Out of Delivery Surcharge
- 2862 — Alternate Saturday Pickup Surcharge
- 2863 — Alternate Saturday Delivery Surcharge
- 2864 — Alternate Dangerous Goods/HazMat Surcharge
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- 2865 — Alternate Residential Surcharge
- 2866 — Alternate C.O.D. Surcharge
- 2867 — Alternate Outside Pickup Area (OPA) Surcharge
- 2868 — Alternate Inside Pickup Area Surcharge
- 2869 — Alternate Inside Delivery Surcharge
- 2870 — Alternate Delivery Area Surcharge
- 2871 — Alternate Priority Alert Surcharge
- 2872 — Alternate Rate Return Code
- 2873 — Alternate Rate Currency Type
- 2874 — Alternate Handling Charge
- 2875 — Alternate Total Customer Handling Charge
- 2876 — Alternate Oversize Surcharge
- 2877 — Alternate Nonstandard Container Surcharge
- 2878 — Alternate Offshore Surcharge Amount
- 2879 — Alternate Additional Handling Surcharge
- 2880 — Alternate Dry Ice Surcharge
- 2881 — Alternate Email Label Surcharge
- 2882 — Alternate Print Return Label Surcharge
- 2883 — Alternate Third Party Consignee Surcharge (TPC)
- 2884 — Alternate Europe First Surcharge
- 2885 — Alternate Residential Rural Surcharge
- 2886 — Alternate Date Certain Delivery Surcharge
- 2887 — Alternate Appointment Delivery Surcharge
- 2888 — Alternate Evening Delivery Surcharge
- 2889 — Alternate Goods and Services Sales Tax (GST)
- 2890 — Alternate Quebec Sales Tax (QST)
- 2891 — Alternate Harmonized Sales Tax (HST)
- 2892 — Alternate Net Freight Charge Before CA Taxes
- 2893 — Alternate Total Surcharge Before CA Taxes
- 2894 — Alternate Total Customer Handling Before CA Taxes
- 2895 — Alternate Mexico IVA Tax
- 2896 — Alternate Non-Machinable Surcharge
- 2897 — Alternate Delivery Confirmation Service Surcharge
- 2898 — Alternate Signature Option Fee

New values are added to following fields to support the Alternate Rates feature.

- 1053 — Download Flag
  - 16 — FedEx Express Earned/Bonus Discount Rates
  - 17 — FedEx International List Rates Flag
  - 18 — Intra-Canada List Rates Flag
  - 19 — ODA/OPA Surcharge
  - 20 — Ground List Rates
  - 21 — SmartPost Rates
  - 22 — SmartPost Delivery Confirmation Numbers
  - 23 — HazMat Files
  - 24 — SmartPost Earned Discount Rates
  - 25 — Update Features
  - 3062 — Rate Quote Type
  - 3 — No Ship-time Rates
  - 4 — Discount Rate, List Rate, and Alternative Rate
– 5 — Discount Rate and Alternative Rate
• 3121-# — Doc-Tab Values

See the new Bonus Discount and Alternate Rate valid values listed in the “Doc-Tab Data Elements” table in the FedEx Ship Manager® Server Transaction Coding Reference Guide.
10 FedEx Configuration Settings
Changes

Label Settings Tab - LTL Freight Options
Report Settings Tab - Freight Bill of Lading Options
Meter Settings Tab - LTL Freight Options
Doc-Tab Settings Tab - LTL Freight Options
System Settings Tab - Bill of Lading Ship History Options
Shipper Settings Tab - Brazil State Code Options
Label Settings Tab - LTL Freight Options

LTL Freight has been added to the Label Settings tab, just below the Additional Laser and Thermal Copies section, to let you indicate up to nine Freight label copies to print, as shown in Label Settings Tab with LTL Freight Options. It includes a drop-down menu to select the number of copies to print. Specify "0" if no labels are to be printed.

Note: The Freight Report Printer ID button has been removed.
Report Settings Tab - Freight Bill of Lading Options

A BOL Format drop-down menu that contains the new values of Uniform and VICS has been added to the Report Settings tab. It is enabled when Bill of Lading is selected within the Freight folder in the Reports Groupbox, as shown.

Meter Settings Tab - LTL Freight Options

A new LTL Freight Options Groupbox has been added just below the Ground Options Groupbox in the Meter Settings tab. It includes a drop-
down menu for selecting Rating Options, a text box labeled Auto Close Time to enter the desired close time, and a checkbox to the right of the new text box to enable Auto Close Time, as shown.

**Doc-Tab Settings Tab - LTL Freight Options**

A new LTL Freight radio button and label have been added to the Shipping Type group box, as shown in Doc-Tab Settings Tab with LTL Freight Shipping Type. All new Freight fields are available to configure. The Reference box is disabled for Freight. All other existing fields are applicable to Freight.
System Settings Tab - Bill of Lading Ship History Options

Purge Time and Export Time, under Ship History in the Settings Tab as shown in System Settings Tab with Bill of Lading Ship History Options, have been modified to include BOL history data so you can include your own report from the BOL history.
System Settings Tab with Bill of Lading Ship History Options

Shipper Settings Tab - Brazil State Code Options

The Brazil states codes are added to the Shipper Settings tab in the State drop-down menu, as shown.
Shipper Settings Tab

For a list of the Brazil state codes see the "Country Code Tables" in the FedEx Ship Manager® Server, Transaction Coding Reference Guide.
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