Legal and Copyright Notices

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 guarantees. FedEx may suspend any applicable money-back guarantees 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.

© 2010 FedEx. FedEx and the FedEx logo are registered service marks. All rights reserved. Unpublished.

Disclaimer
All Improper Transaction scenarios are for example only. They do not reflect all error condition scenarios.
## ABOUT THIS DOCUMENT

<table>
<thead>
<tr>
<th>Audience</th>
<th>xi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conventions</td>
<td>xi</td>
</tr>
<tr>
<td>Resources</td>
<td>xii</td>
</tr>
<tr>
<td>FedEx Website</td>
<td>xii</td>
</tr>
<tr>
<td>FedEx Service Guide</td>
<td>xii</td>
</tr>
<tr>
<td>FedEx EEI Filing Options (U.S. only)</td>
<td>xii</td>
</tr>
</tbody>
</table>

## CHAPTER 1: FEDEX HAZARDOUS MATERIALS COMMODITIES ENHANCEMENTS

<table>
<thead>
<tr>
<th>Hazardous Materials</th>
<th>1-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight Limit Changes</td>
<td>1-2</td>
</tr>
<tr>
<td>Package Commodity Limit Changes</td>
<td>1-2</td>
</tr>
<tr>
<td>Commodity Package Mixture Rules</td>
<td>1-2</td>
</tr>
<tr>
<td>Form Enhancements</td>
<td>1-2</td>
</tr>
<tr>
<td>Reports</td>
<td>1-5</td>
</tr>
<tr>
<td>Label Enhancements</td>
<td>1-7</td>
</tr>
<tr>
<td>Automation Changes</td>
<td>1-8</td>
</tr>
<tr>
<td>Improper Transaction Scenarios</td>
<td>1-8</td>
</tr>
<tr>
<td>Other Regulated Materials-Domestic</td>
<td>1-9</td>
</tr>
<tr>
<td>Weight Limit Changes</td>
<td>1-10</td>
</tr>
<tr>
<td>Package Commodity Limit Changes</td>
<td>1-10</td>
</tr>
<tr>
<td>Commodity Package Mixture Rules</td>
<td>1-10</td>
</tr>
<tr>
<td>Label Enhancements</td>
<td>1-10</td>
</tr>
<tr>
<td>Improper Transaction Scenarios</td>
<td>1-11</td>
</tr>
<tr>
<td>Dry Ice</td>
<td>1-11</td>
</tr>
<tr>
<td>Expanded Special Service</td>
<td>1-11</td>
</tr>
<tr>
<td>Package Commodity Limit Changes</td>
<td>1-11</td>
</tr>
<tr>
<td>Commodity Package Mixture Rules</td>
<td>1-11</td>
</tr>
<tr>
<td>Label Enhancements</td>
<td>1-11</td>
</tr>
<tr>
<td>Weight Maximums</td>
<td>1-11</td>
</tr>
<tr>
<td>Improper Transaction Scenarios</td>
<td>1-12</td>
</tr>
<tr>
<td>Small Quantity Exception</td>
<td>1-12</td>
</tr>
<tr>
<td>Expanded Special Service</td>
<td>1-12</td>
</tr>
<tr>
<td>Package Commodity Limit Changes</td>
<td>1-12</td>
</tr>
<tr>
<td>Commodity Package Mixture Rules</td>
<td>1-12</td>
</tr>
<tr>
<td>Label Enhancements</td>
<td>1-12</td>
</tr>
<tr>
<td>Improper Transaction Scenario</td>
<td>1-12</td>
</tr>
<tr>
<td>Non-hazardous Lithium Battery</td>
<td>1-13</td>
</tr>
<tr>
<td>Expanded Special Service</td>
<td>1-13</td>
</tr>
<tr>
<td>Package Commodity Limit Changes</td>
<td>1-13</td>
</tr>
<tr>
<td>Commodity Package Mixture Rules</td>
<td>1-13</td>
</tr>
<tr>
<td>Label Enhancements</td>
<td>1-13</td>
</tr>
</tbody>
</table>
Contents

Improper Transaction Scenarios ................................................................. 1-13
New Commodity Rules and Affected Transactions........................................ 1-14
  Commodity Package Mixture Rules .......................................................... 1-14
  Commodity Hierarchy .............................................................................. 1-15
  Commodity Package Mixture Improper Transaction Scenarios ................. 1-16
Affected Transactions ................................................................................ 1-16
  New Fields ............................................................................................... 1-16
  Modified Fields ..................................................................................... 1-18
Transaction Samples .................................................................................. 1-20

CHAPTER 2: FEDEX DANGEROUS GOODS ENHANCEMENTS
  UN ID Limit Changes ................................................................................ 2-1
  FedEx 1421C Form Changes .................................................................. 2-1
  Q Value Printing ..................................................................................... 2-1
  Removal of Outdated Error Messages .................................................. 2-4

CHAPTER 3: FEDEX SMARTPOST ENHANCEMENTS
  Outbound Service Enhancements ............................................................ 3-2
  FedEx SmartPost Shipping to Military Destinations ................................ 3-2
  FedEx SmartPost Returns Service .......................................................... 3-2
    How it Works ....................................................................................... 3-3
    Features ............................................................................................... 3-3
  Configuration Enhancements ................................................................. 3-4
  Meter Registration Utility ....................................................................... 3-6
  Print-As-You-Go Labels for FedEx SmartPost ......................................... 3-6
  Earned Discounts ................................................................................... 3-6
  Future Day Shipping ................................................................................ 3-7
  Ancillary Endorsements Edit ................................................................. 3-8
  Delivery Confirmation Changes .............................................................. 3-8
  Shipment and Delivery E-Mail Notifications .......................................... 3-8
  FedEx SmartPost Reports ...................................................................... 3-9
    Report Viewer Utility ........................................................................... 3-10
  Doc-Tab Settings ................................................................................... 3-10
  Handling Charges .................................................................................. 3-10
  Affected Transactions ........................................................................... 3-12
    New Fields .......................................................................................... 3-13
    Modified Fields ................................................................................. 3-14

CHAPTER 4: FEDEX ELECTRONIC TRADE DOCUMENTS
  Features .................................................................................................. 4-1
  Enabling Electronic Trade Documents .................................................... 4-2
  049/149 Pre-Shipment Document Upload Request/Reply Transaction .......... 4-5
    049 Pre-Shipment Document Upload Request Fields .......................... 4-5
    149 Pre-Shipment Document Upload Reply Fields ......................... 4-8
  Reprinting FedEx Generated Documentation ........................................ 4-9

CHAPTER 5: INTERNATIONAL FEDEX EXPRESS EXPANSION

Rates and Shipment Value ........................................................................................................... 5-1
Delivery Area Surcharges ........................................................................................................ 5-1
020/120 Global Ship Transaction .......................................................................................... 5-1
025/125 Rate Available Services Transaction .................................................................... 5-3
Mexican Impuesto de Valor Agregado Tax ........................................................................... 5-3
020/120 Global Ship Transaction .......................................................................................... 5-3
Reports .................................................................................................................................. 5-3
Special Services ....................................................................................................................... 5-3
Restrictions ............................................................................................................................... 5-4
Label Configuration Settings .................................................................................................. 5-4
Transaction Sample .................................................................................................................. 5-6
020 Global Shipment Request ............................................................................................... 5-6
Field Updates ........................................................................................................................... 5-6
New Fields ............................................................................................................................... 5-6
Modified Fields ......................................................................................................................... 5-7

CHAPTER 6: RATING ENHANCEMENTS

Delivery Surcharge Tier Changes .......................................................................................... 6-1
020/120 Global Ship Transaction .......................................................................................... 6-1
025/125 Rate Available Service ............................................................................................ 6-2
Field Modifications and Additions ......................................................................................... 6-2
Discounted Fuel Surcharge Change for Ground .................................................................. 6-4

CHAPTER 7: FEDEX SHIP MANAGER SERVER SYSTEM UPGRADES

Virtualization and Clustering ................................................................................................. 7-1
International Services Expansion .......................................................................................... 7-1
Postal Aware Countries ........................................................................................................... 7-1
Product Keys ............................................................................................................................ 7-2
Expired Product Key ............................................................................................................... 7-2
Product Key User Interface Updates ....................................................................................... 7-2
Product Key Validation ........................................................................................................... 7-3
Microsoft Windows Server 2008 Supported ................................................................. 7-3
Report Viewer Enhancements ...................................................................................... 7-4
Zebra ZM400 Bar Code Printer Supported ................................................................. 7-6
  Customer Migration ................................................................................................. 7-6
  Graphical User Interface Modifications ................................................................. 7-6

INDEX ...................................................................................................................... Index-1
# List of Figures

## CHAPTER 1: FEDEX HAZARDOUS MATERIALS COMMODITIES ENHANCEMENTS
- Figure 1-1: OP-900LG Form ................................................................. 1-3
- Figure 1-2: OP-900 Form ........................................................................ 1-4
- Figure 1-3: OP-900B Form ...................................................................... 1-4
- Figure 1-4: OP-900LL Form ................................................................. 1-5
- Figure 1-5: OP-950 Hazardous Materials Certification Report ............... 1-6
- Figure 1-6: Outdated Ground HazMat Label ......................................... 1-7
- Figure 1-7: New Ground HazMat Label .................................................. 1-8
- Figure 1-8: FedEx Ground ORM-D Label .............................................. 1-10

## CHAPTER 2: FEDEX DANGEROUS GOODS ENHANCEMENTS
- Figure 2-1: Shipper's Declaration for Dangerous Goods Form (FedEx 1421C) 2-2
- Figure 2-2: Shipper’s Declaration for Dangerous Goods Form (LZR DG DEC FORM) 2-3

## CHAPTER 3: FEDEX SMARTPOST ENHANCEMENTS
- Figure 3-1: New SmartPost Settings Tab on FedEx Configuration Utility 3-5
- Figure 3-2: Demand Download Utility ................................................... 3-7
- Figure 3-3: Report Viewer Utility - SmartPost Returns ............................ 3-10
- Figure 3-4: Handling Charges Dialog for SmartPost Service Type ........... 3-12

## CHAPTER 4: FEDEX ELECTRONIC TRADE DOCUMENTS
- Figure 4-1: Meter Settings Tab ............................................................... 4-2
- Figure 4-2: Terms and Conditions Screen ............................................. 4-3
- Figure 4-3: Digital Letterhead Logo and Digital Signature Image .............. 4-3
- Figure 4-4: FedEx International Ground ETD Shipping Label .................. 4-21
- Figure 4-5: FedEx Express International Priority ETD Label ................... 4-22
- Figure 4-6: Report Settings Tab with Customer Generated and FedEx Generated Radio Buttons 4-23

## CHAPTER 5: INTERNATIONAL FEDEX EXPRESS EXPANSION
- Figure 5-1: System Settings Tab, Dynamic Surcharging ...................... 5-2
- Figure 5-2: Doc-Tab Settings Tab ......................................................... 5-5

## CHAPTER 6: RATING ENHANCEMENTS

## CHAPTER 7: FEDEX SHIP MANAGER SERVER SYSTEM UPGRADES
- Figure 7-1: Product Key Screen ............................................................. 7-2
- Figure 7-2: System Information Screen .................................................. 7-3
List of Figures

Figure 7-3: Report Viewer ...................................................................................................... 7-5
Figure 7-4: Report Viewer Printer Options ............................................................................. 7-6
List of Tables

CHAPTER 1: FEDEX HAZARDOUS MATERIALS COMMODITIES ENHANCEMENTS

Table 1-1: Hazardous Materials Package Mixtures .............................................................. 1-15
Table 1-2: New Fields Used in 020/120 Global Ship Request ............................................. 1-16
Table 1-3: Modified Fields Used in 020/120 Global Ship Request ....................................... 1-18

CHAPTER 2: FEDEX DANGEROUS GOODS ENHANCEMENTS

CHAPTER 3: FEDEX SMARTPOST ENHANCEMENTS

Table 3-1: APO, FPO, and DPO Military State Codes ............................................................ 3-2
Table 3-2: Future Day Ship Date Field ................................................................................... 3-8
Table 3-3: Handling Charges Fields ..................................................................................... 3-11
Table 3-4: FedEx SmartPost New Fields .............................................................................. 3-13
Table 3-5: FedEx SmartPost Modified Fields ....................................................................... 3-14

CHAPTER 4: FEDEX ELECTRONIC TRADE DOCUMENTS

Table 4-1: 049 Pre-Shipment Document Upload Request Fields ........................................... 4-5
Table 4-2: 049 Pre-Shipment Document Upload Reply Fields ............................................... 4-8
Table 4-3: 020 Global Ship Transaction Request Fields for Electronic Trade Documents Upload and Shipping (in Addition to Basic 020 Global Ship Transaction Fields) ...................... 4-11
Table 4-4: ETD New Fields ................................................................................................... 4-17
Table 4-5: ETD Modified Fields ............................................................................................ 4-19
Table 4-6: FedEx Ground Batch Failure System Delivery Shipment Report Data - Part 1... 4-24
Table 4-7: FedEx Ground Batch Failure System Delivery Shipment Report Data - Part 2... 4-25
Table 4-8: FedEx Express Batch Failure Delivery Shipment Report Data - Part 1 ............. 4-25
Table 4-9: FedEx Express Batch Failure Delivery Shipment Report Data - Part 2 ............. 4-25

CHAPTER 5: INTERNATIONAL FEDEX EXPRESS EXPANSION

Table 5-1: New Fields .......................................................................................................... 5-6
Table 5-2: Modified Fields ................................................................................................. 5-7

CHAPTER 6: RATING ENHANCEMENTS

Table 6-1: Delivery Area Surcharge Field Additions and Modifications ......................... 6-2
Table 6-2: Discounted Fuel Surcharge Field ..................................................................... 6-4

CHAPTER 7: FEDEX SHIP MANAGER SERVER SYSTEM UPGRADES
ABOUT THIS DOCUMENT

Technical What’s New provides information about the upcoming FedEx Ship Manager® Server (FSMS) features in Release v 10.6.1. 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 10.6.1 purposes only. This data is subject to change before the production release of FedEx Ship Manager Server v 10.6.1.

Major enhancements have been implemented in Release v 10.6.1 of FedEx Ship Manager® Server to improve its ability to manage these services:

• FedEx SmartPost®
• FedEx® Electronic Trade Documents
• Hazardous Materials
• Dangerous Goods
• FedEx International Economy® services expansion
• Fraud protection
• Additional miscellaneous changes to the FedEx Ship Manager Server 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 10.6.0
• 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

The following sources of information may be useful for application developers using FedEx Ship Manager Server:

- FedEx website: fedex.com
- Developer Resource Center: fedex.com/us/developer

<table>
<thead>
<tr>
<th>Table 1: Ship Manager Server Documentation Set</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Document</strong></td>
</tr>
<tr>
<td>Technical What’s New</td>
</tr>
<tr>
<td>Installation and Configuration Guide</td>
</tr>
<tr>
<td>Services and Shipping Guide</td>
</tr>
<tr>
<td>Developer Guide</td>
</tr>
<tr>
<td>Transaction Coding Reference Guide</td>
</tr>
</tbody>
</table>

For FedEx Ship Manager Server 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.

For international customer support, call 1.800.GoFedEx 1.800.463.3339.

You can also contact FedEx on the Web at fedex.com.

FedEx Website

For the latest 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 latest features and news from FedEx.

FedEx Service Guide

Within this guide, you may be asked to refer to the FedEx Service Guide at fedex.com for details about FedEx services, packaging, and other information. To view or download the guide, go to fedex.com, enter FedEx Service Guide in the Search box at the top of the page, and then click Go.

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.
CHAPTER 1: FEDEX HAZARDOUS MATERIALS COMMODITIES ENHANCEMENTS

Hazardous Materials is the term used for regulated goods shipped using FedEx Ground® delivery services. Hazardous Materials are substances regulated by the U.S. Department of Transportation (DOT). When shipping hazardous materials with FedEx Ground, there is a requirement to include a hazardous materials shipping paper/form (OP-900) and hazardous materials certification report (OP-950), along with specific marking, labeling and packaging information. The hazardous materials (HazMat) and Other Regulated Materials-Domestic (ORM-D) enhancements ensure that the FedEx Ship Manager® Server (FSMS) platform complies with the latest Department of Transportation (DOT) regulations and is using the most current rules and edits associated with these types of shipments.

Other Regulated Materials-Domestic are an exception to the packaging and shipping paper/forms requirements by the DOT, because HazMat is in consumer packaging and because of the size of the inner containers. However, these shipments still require markings on the outer container. Examples include: aerosol cans, perfumes, small arms ammunition, and drain openers. The Code of Federal Regulations (CFR) defines which consumer commodities of limited quantity can be shipped with an ORM-D label.

Dry Ice refers to a package containing dry ice. It is not considered a hazardous material by the DOT. No special forms or papers are required with this type of shipment.

A Small Quantity Exception (SQE) is given to shippers who ship hazardous materials with an inner container less than 30 ml or 1 oz. The total package weight cannot be over 64 lbs. (29.02 kgs) and the package exterior must be marked according to Section 173.4 Small Quantity Exception. No special forms or papers are required with SQE shipments.

Note: Non-hazardous Lithium Batteries that have watt hours equal to or less than 5 by themselves or as part of the item being shipped. Examples include cell phone or lap top batteries.

Note: It is the shipper’s or offeror’s responsibility to provide the correct emergency response information. Shipments that clearly do not comply with the Emergency Response Information (ERI) provider requirements by the effective date will not be transported through the FedEx system and will be returned to the shipper. If a shipper fails to comply with the ERI requirements, any of the following could issue customer fines: the Federal Aviation Administration, the Federal Motor Carrier Safety Administration, or the Pipeline and Hazardous Materials Safety Administration, all of which are part of the U.S. Department of Transportation (DOT). The DOT is the final authority responsible for governing the transportation of dangerous goods and hazardous materials in the U.S.

Enhancements include:

- **Hazardous Materials**:
  - Maximum weight limit is lowered to 70 pounds (see “Weight Limit Changes” on page 1-2)
  - Number of commodities per package increased (see “Package Commodity Limit Changes” on page 1-2)
  - New rules and affected transactions (see “New Commodity Rules and Affected Transactions” on page 1-14)
  - Updated forms (see “Form Enhancements” on page 1-2)
  - Updated labels (see “Label Enhancements” on page 1-7)
  - FedEx Ship Manager Server automation coding enhancements (see “Automation Changes” on page 1-8)

- **Other Regulated Materials-Domestic**:
  - Maximum weight limit change (see “Weight Limit Changes” on page 1-10)
  - Unlimited number of ORM-D commodities allowed in shipment is lowered to 66 pounds (see “Package Commodity Limit Changes” on page 1-10)
  - New rules and affected transactions (see “New Commodity Rules and Affected Transactions” on page 1-14)
  - Updated shipping label (see “Label Enhancements” on page 1-10)

- **Dry Ice**:
  - Dry ice can now be shipped by FedEx Ground and FedEx Home Delivery (see “Expanded Special Service” on page 1-11)
  - Unlimited number of dry ice commodities allowed in shipment (see “Package Commodity Limit Changes” on page 1-11)
  - New rules and affected transactions (see “New Commodity Rules and Affected Transactions” on page 1-14)
Chapter 1: FedEx Hazardous Materials Commodities Enhancements

--Shipping label updates (see “Label Enhancements” on page 1-11)

- Small Quantity Exception:
  --SQE can now be shipped by FedEx Ground and FedEx Home Delivery (see “Expanded Special Service” on page 1-12)
  --Unlimited number of SQE commodities allowed in shipment (see “Package Commodity Limit Changes” on page 1-12)
  --New multiple-piece shipment commodity mixture rules (see “New Commodity Rules and Affected Transactions” on page 1-14)
  --Updated shipping labels (see “Label Enhancements” on page 1-12)

- Non-hazardous Lithium Battery
  --New support of shipping Non-hazardous Lithium Batteries to all 50 states (see “Expanded Special Service” on page 1-13)
  --Unlimited number of Non-hazardous Lithium Battery commodities allowed in shipment (see “Package Commodity Limit Changes” on page 1-13)
  --New rules for mixing commodities within shipments (see “New Commodity Rules and Affected Transactions” on page 1-14)
  --Affected transactions including new and modified Fields (see “Affected Transactions” on page 1-16)

--- Hazardous Materials

Weight Limit Changes
The maximum weight for HazMat shipping is lowered to 70 lbs. (31.75 kgs).

Package Commodity Limit Changes
The number of HazMat commodities allowable per package is increased from one per package to three per package. This only applies to hazardous materials commodities, not to ORM-D, Dry Ice, SQE, and Non-hazardous Lithium Batteries.

A new form, OP-900LG, accommodates the three commodities per package. See “OP-900LG” on page 1-2 for more information.

Note: The OP-900 and OP-900B do not support the new three commodities per package function.

Commodity Package Mixture Rules
See “New Commodity Rules and Affected Transactions” on page 1-14.

Form Enhancements
A recent Department of Transportation regulatory change requires that the Offeror Name (Shipper Name) print on the HazMat forms. The offeror name is the entity or person to be contacted during shipping in case of emergency. For more information about the Department of Transportation regulatory changes, go to fedex.com/hazmat.

OP-900LG
The new DOT regulated OP-900LG form, which can contain up to three commodities per form, is shown in Figure 1-1. The OP-900LG report option is
  --A meter level setting.

--Available with all access levels on the Report Settings Tab under the DG Branch for meters configured for FedEx Ground® shipping.

The OP-900LG form has been modified to change the “PACKAGE REFERENCE” area to “SHIPPER NAME.” FedEx Ground will accept Offeror Name (entity or person) or Shipper Company Name data printed in the PACKAGE REFERENCE section until old form supplies are exhausted.
If the Offeror Name (SHIPPER NAME on Figure 1-1) is not provided in the transaction, the package will be defaulted to the Shipper Company Name. If the Shipper Company Name is not provided in the transaction, then the package will be defaulted to the default Shipper Company Name in the FedEx configuration.

![Image of OP-900LG Form]

**OP-900 and OP-900B**

A recent Department of Transportation regulatory change requires that the Offeror Name (entity or person) (FedEx Ground Shipper Number on Figure 1-2 and Figure 1-3) print on the HazMat forms. The Offeror Name is the entity or person to be contacted during shipping in case of emergency.

While the OP-900 and OP-900B forms have not been modified, FSMS allows the Offeror Name (entity or person) to be passed in the 020/120 Global Ship Request/Reply using Field ID 4939.

The Offeror Name (entity or person) will print in the “FedEx GROUND SHIPPER NUMBER” area on the OP-900 and OP-900B Forms. See Figure 1-2 and Figure 1-3. If the Offeror Name (entity or person) is not provided in the transaction, the package will be defaulted to the Shipper Company Name. If the Shipper Company Name is not provided in the transaction, then the package will be defaulted to the default Shipper Company Name in the FedEx configuration.

The Offeror Name (entity or person) will print in the “FedEx GROUND SHIPPER NUMBER” area of the OP-900 and OP-900B Forms. See Figure 1-2 and Figure 1-3. To configure the OP-900 form as shown, use the Report Settings tab on the FSMS Configuration Utility. See the Developer Guide section “Designating a Printer Path for OP-900 Forms” in Chapter 3.
Figure 1-2: OP-900 Form

Figure 1-3: OP-900B Form
**OP-900LL**

The OP-900LL form has been modified to add a "SHIPPER NAME" area in the upper right corner. When printing, FSMS shall add the Offeror Name or the Shipper Company Name in the new area, whichever data is used/defaulted in the 020/120 Global Ship Request/Reply Transaction. See Figure 1-4. If the Offeror Name is not provided in the transaction, the package shall be defaulted to the Shipper Company Name. If the Shipper Company Name is not provided in the transaction, then the package shall be defaulted to the default Shipper Company Name in the FedEx configuration.

![Figure 1-4: OP-900LL Form](image)

Note: The image for the OP-900LL Form shows a subsection of an 8 1/2" by 11" inch form.

**Reports**

**OP-950 Hazardous Materials Certification Report**

Emergency Response Information (ERI) provider, weight, and signature are now required on the OP-950 report. The report, as shown in Figure 1-5, has new layout that includes updated disclaimer information and a new position for the page numbering. In addition, the "Emergency Contact Number" header and data that was previously located in the top right corner has been removed. The "TRACKING NUMBER" column has been re-labeled "TRACK #, SHIPPER NAME, EMERGENCY CONTACT NUMBER."

And the "Emergency Contact Number" header and data has been moved to the revised Tracking number column.

Note: The first occurrence of the Offeror Name (entity or person) and Emergency Contact Number should print on the OP-900 forms and the OP-950 Report (This is at the package level.)
Each populated row of the OP-950 that denotes a Hazardous Materials shipment (from 1 to 3 commodities) shall print the following required data, in the following order and format:

- Tracking Number (all on one line, no text wrapping)
- Offeror Name (entity or person) / Shipper Company Name (all on one line, no text wrapping)
- Emergency Contact Number (all on one line, no text wrapping)
- Emergency Contact Number “x” extension (if extension provided)

Figure 1-5: OP-950 Hazardous Materials Certification Report
**Label Enhancements**

The FedEx Ground Shipper number to the right of the existing reverse-print human readable “H” was removed for all HazMat shipping labels, as shown in Figure 1-6 and Figure 1-7.

![Figure 1-6: Outdated Ground HazMat Label](image)
Chapter 1: FedEx Hazardous Materials Commodities Enhancements

Automation Changes

UN ID Number Validations
A new UN ID table and Segregation Loading Chart are provided for automated validation of HazMat information when shipping a FedEx Ground HazMat shipment. Both tables can be manually downloaded by selecting the existing “Shipping Tables” checkbox option located on the Demand Download Utility. This data is downloaded for the Master Meter and used for all enabled meters on the FedEx Ship Manager Server system. System-level data is only available for the Master Meter via download.

Improper Transaction Scenarios
The following transaction messages are examples of improper transaction scenarios.

Proper Shipping Name
If the customer is attempting to ship a FedEx Ground hazardous materials package, and has not passed in Field 1903 (DOT Shipping Name of Material/Proper Shipping Name), and the UN ID has multiple entries in the UN ID table, such as Paint UN ID 1263, then the customer receives Error Message 3036, “The Proper Shipping Name could not be found.”
Chapter 1: FedEx Hazardous Materials Commodities Enhancements

Invalid HazMat Commodity Count
The number of hazardous materials (HazMat) commodities in one piece cannot exceed three commodities. If the customer attempts to ship a FedEx Ground HazMat shipment using the 020 Global Ship Transaction, and Field 1274 (Service Type) is set to 92 (FedEx Ground), Field 1331 (Dangerous Goods/HazMat Flag) is set to Y, and Field 451 (Dangerous Goods UN Number/Identification Number) is used in more than three occurrences with valid HazMat UN IDs, then the customer receives Error Message 4027, “Dangerous Goods commodity count invalid,” and the transaction fails.

Missing Hazard Class
If the customer is attempting to ship a FedEx Ground hazardous materials package with the hazardous materials Field 1331 (Dangerous Goods/HazMat Flag) set to Y with a valid UN ID number, but does not pass in the Hazard Class Field 492 (DOT Hazard Class or Division Number), then the customer receives Error Message 0799, “The Dangerous Goods Class cannot be left blank.”

Packing Group
If the customer is attempting to ship a FedEx Ground hazardous materials package with Field 1331 (Dangerous Goods/HazMat Flag) set to Y with a valid UN ID number, and the UN ID number has multiple entries, and a valid Packing Group is not specified, then the customer receives Error Message 3034, “The Packing Group is required.”

Required Emergency Phone Number
If a customer attempts to ship a Ground HazMat shipment, and Field 1274 (Service Type) is set to 92 (FedEx Ground), and Field 1331 (Dangerous Goods/HazMat Flag) is set to Y with a valid UN ID number in Field 451, but does not pass in Field 484 (Emergency Contact Number), then the customer receives Error Message 3001, “The Emergency Phone Number is required,” and the transaction fails.

Weight Limit Exceeded
If the customer attempts to ship a FedEx Ground HazMat package via the 020 Global Ship Transaction and Field 1670 (Package Weight) = 71 lbs (correct format for 71 lbs. for Field 1670 is 7100 because there are two implied decimals) with Field 75 (Weight Units) set to LBS, or Field 1670 = 32 kgs (correct format for 32 kgs for Field 1670 is 3200 because there are two implied decimals) with Field 75 set to KGS, then the customer receives Error Message 0270, “The weight limit for this service type has been exceeded,” and the transaction fails.

Offeror Name (Entity or Person)
If the customer attempts to ship a FedEx Ground HazMat package via the 020 Global Ship Transaction and Field 4939 (Offeror Name - entity or person) is not passed in or is passed in blank, FSMS defaults Field 4939 to the value passed in Field 4 (Shipper Company Name) or the Sender/Shipper Company Name associated with the meter at ship time. The customer receives Error Message 3101, “This type of regulated shipment requires the Offeror Name (entity or person) that is registered with the Emergency Response Information provider. Because Offeror Name, Field 4939, was not provided, the Shipper Company Name shall be used,” and the transaction is processed.
If the customer attempts to ship any other type of package that is not a FedEx Ground HazMat package and passes in Field 4939 and all other shipping data is valid, the Offeror Name (entity or person) is ignored, and the transaction is processed.

Other Regulated Materials-Domestic
FedEx Ground and FedEx Home Delivery shipments to Alaska and Hawaii require airplane transportation, therefore FedEx Other Regulated Materials-Domestic (ORM-D) shipments cannot be shipped to these destinations. If you need to ship to Alaska and Hawaii, please refer to FedEx Express Dangerous Goods information in the Developer Guide.
- ORM-D is allowed for FedEx Ground® and FedEx Home Delivery®.
- Multi-Piece Shipments (MPS) can have a mixture of ORM-D and non-ORM-D pieces in a single shipment.
Chapter 1: FedEx Hazardous Materials Commodities Enhancements

Weight Limit Changes
For ORM-D shipments, the weight limit is lowered to 66 lbs. (29.93 kgs).

Package Commodity Limit Changes
There is no limit on the number of ORM-D commodities within a shipment.

Commodity Package Mixture Rules
See “New Commodity Rules and Affected Transactions” on page 1-14.

Label Enhancements
The reverse-print human readable text, “NOAIR” is new for an ORM-D shipment, as shown in Figure 1-8.

---

Figure 1-8: FedEx Ground ORM-D Label
**Improper Transaction Scenarios**

The following transaction messages are examples of improper transaction scenarios.

**Commodities in Package Cannot be Combined**

If the customer attempts to ship a FedEx Ground HazMat shipment via the 020 Global Ship Transaction, and Field 1274 (Service Type) is set to 92, Field 1331 (Dangerous Goods/HazMat Flag) is set to Y, Field 451 (UN ID) is set with a valid HazMat UN ID, and Field 1900 (Dangerous Goods Regulations Indicator) is set to O for ORM-D, then the customer receives Error Message 3100, "Commodities in package cannot be combined," and the transaction fails.

**Excessive Weight**

If the customer attempts to ship a FedEx Ground or FedEx Home Delivery ORM-D package via the 020 Global Ship Transaction, and Field 1670 (Package Weight/Shipment Weight) = 67 lbs. (correct format for 67 lbs. for Field 1670 is 6700 because there are two implied decimals) with Field 75 (Weight Units) set to LBS, or Field 1670 = 30 kgs (correct format for 30 kgs for Field 1670 is 3000 because there are two implied decimals) with Field 75 set to KGS, then the customer receives Error Message 0270, "The weight limit for this service type has been exceeded," and the transaction fails.

**Dry Ice**

**Expanded Special Service**

Dry Ice can now be shipped via FedEx Ground and FedEx Home Delivery within the 48 contiguous United States. Shipment weight maximums must follow the existing standards for the selected service.

**Package Commodity Limit Changes**

There is no limit on the number of Dry Ice commodities within a shipment.

**Commodity Package Mixture Rules**

See "New Commodity Rules and Affected Transactions" on page 1-14.

**Label Enhancements**

The label enhancements for Dry Ice are the same as those for ORM-D. See "Label Enhancements" on page 1-10.

**Weight Maximums**

If FedEx Ground is the selected service, then the weight of the Dry Ice, along with the weight of the remaining contents of package, or the packaging itself, must comply with the FedEx Ground maximum weight limit of 150 lbs. (68.04 kgs). If the shipment is a FedEx Home Delivery shipment, then the maximum weight limit must comply with the standard FedEx Home Delivery maximum weight limit of 70 lbs. (31.75 kgs).
**Improper Transaction Scenarios**

The following transaction messages are examples of improper transaction scenarios.

**Excessive Weight - FedEx Ground**

If the customer attempts to ship a package via the 020 Global Ship Transaction, and the Dry Ice Flag (Field 1268) is set to Y, and Field 1670 (Package Weight/Shipmnet Weight) = 151 lbs. (correct format for 151 lbs. for Field 75 is 15100 because there are two implied decimals) with Field 75 (Weight Units) set to LBS, or Field 1670 = 69 kgs (correct format for 69 kgs for Field 1670 is 6900 because there are two implied decimals) with Field 75 set to KGS, then the customer receives Error Message 0270, “The weight limit for this service type has been exceeded,” and the transaction fails.

**Excessive Weight - FedEx Home Delivery**

If the customer attempts to ship a package via the 020 Global Ship Transaction, and the Dry Ice Flag (Field 1268) is set to Y, and Field 1670 (Package Weight/Shipmnet Weight) = 71 lbs. (correct format for 71 lbs. for Field 1670 is 7100 because there are two implied decimals) with Field 75 (Weight Units) set to LBS, or Field 1670 = 32 kgs (correct format for 32 kgs for Field 75 is 3200 because there are two implied decimals) with Field 75 set to KGS, then the customer receives Error Message 0270, “The weight limit for this service type has been exceeded,” and the transaction fails.

**Small Quantity Exception**

**Expanded Special Service**

Small Quantity Exception (SQE) can now be shipped via FedEx Ground and FedEx Home Delivery within the 48 contiguous United States. The weight maximum for FedEx Ground and FedEx Home Delivery Small Quantity Exception shipments is 64 lbs. (29.09 kgs).

**Package Commodity Limit Changes**

There is no limit on the number of SQE commodities within a shipment.

**Commodity Package Mixture Rules**

See “New Commodity Rules and Affected Transactions” on page 1-14.

**Label Enhancements**

The label enhancements for SQE are the same as those for ORM-D and Dry Ice. See “Label Enhancements” on page 1-10.

**Improper Transaction Scenario**

The following transaction message is an example of an improper transaction scenario.

**Excessive Weight**

If the customer attempts to ship a FedEx Ground SQE or FedEx Home Delivery SQE package, and Field 4937 (SQE Indicator) is set to 1 for Yes, and Field 1670 (Package Weight/Shipmnet Weight) = 65 lbs. (correct format for 65 lbs. for Field 1670 is 6500 because there are two implied decimals) with Field 75 (Weight Units) set to KBS, or Field 1670 = 30 kgs (correct format for 30 kgs for Field 75 is 3000 because there are two implied decimals) with Field 75 set to KGS, then the customer receives Error Message 0270, “The weight limit for this service type has been exceeded,” and the transaction fails.
Non-hazardous Lithium Battery

(Battery Shipment Not Requiring HazMat Shipping Papers)

Expanded Special Service

Non-hazardous Lithium Batteries can now be shipped via FedEx Ground and FedEx Home Delivery within all 50 States. If FedEx Ground is the selected service, then the weight of the Non-hazardous Lithium Battery, along with the weight of the remaining contents of the package, or the packaging itself, must comply with the FedEx Ground maximum weight limit of 150 lbs. (68.04 kgs). If FedEx Home Delivery is the selected service, then the weight of the Non-hazardous Lithium Battery, along with the weight of the remaining contents of the package, or the packaging itself, must comply with the standard FedEx Home maximum weight limit of 70 lbs. (31.75 kgs).

Note: Non-hazardous Lithium Batteries that have watt hours equal to or less than 5 by themselves or as part of the item being shipped. Examples include cell phone or lap top batteries.

Package Commodity Limit Changes

There is no limit on the number of Non-hazardous Lithium Battery commodities within a shipment.

Commodity Package Mixture Rules

See “New Commodity Rules and Affected Transactions” on page 1-14.

Label Enhancements

There is no new reverse-print human readable bolded information required on shipping labels for Non-hazardous Lithium Batteries when shipped by themselves.

Improper Transaction Scenarios

The following transaction messages are examples of improper transaction scenarios.

Excessive Weight - FedEx Ground

If the customer attempts to ship a FedEx Ground package via the 020 Global Ship Transaction with Field 4938 (Non-hazardous Lithium Battery Indicator) set to 1 for Yes, and Field 1670 (Package Weight) = 151 lbs. (correct format for 150 lbs. for Field 75 is 15000 because there are two implied decimals) with Field 75 (Weight Units) set to LBS, or Field 1670 = 69 kgs (correct format for 69 kgs for Field 1670 is 6900 because there are two implied decimals) with Field 75 set to KGS, then the customer receives Error Message 0270, “The weight limit for this service type has been exceeded,” and the transaction fails.

Excessive Weight - FedEx Home Delivery

If the customer attempts to ship a FedEx Home Delivery package via the 020 Global Ship Transaction with Field 4938 (Non-hazardous Lithium Battery Indicator) set to 1 for Yes, and Field 1670 (Package Weight) = 71 lbs. (correct format for 71 lbs. for Field 1670 is 7100 because there are two implied decimals) with Field 75 (Weight Units) set to LBS, or Field 1670 = 32 kgs (correct format for 32 kgs for Field 1670 is 3200 because there are two implied decimals) with Field 75 set to KGS, then the customer receives Error Message 0270, “The weight limit for this service type has been exceeded,” and the transaction fails.
New Commodity Rules and Affected Transactions

**Commodity Package Mixture Rules**

The commodity mixtures allowed for the five different commodity types within a single package are shown in Table 1-1 and are explained in detail. The five commodity types for hazardous materials are:

- Hazardous Materials
- ORM-D
- Dry Ice
- Small Quantity Exception
- Non-hazardous Lithium Battery (less than 5 watts)

Combinations specific to hazardous materials are as follows:

- HazMat* and hazardous materials are allowed within the same piece.
- Hazardous materials* and ORM-D are not allowed within the same piece.
- Hazardous materials* and Dry Ice are allowed within the same piece.
- Hazardous materials* and Small Quantity Exception are not allowed within the same piece.
- Hazardous materials* and Non-hazardous Lithium Batteries are allowed within the same piece.

Note: *The maximum number of multiple hazardous materials commodities allowed are three per piece. All five commodity types are allowed as a mixture across an entire shipment.

Note: Existing Signature Service business rules shall take precedence over Dry Ice, SQE, and Non-hazardous Lithium Batteries (5 watts or less) for shipping.

**Other Regulated Materials-Domestic**

The commodities rules for ORM-D in a mixture are as follows:

- Multiple ORM-D types, Dry Ice, and Non-hazardous Lithium Batteries are allowed within the same piece in an unlimited number placed in one box/package, but are constrained by the size of the box/package, as well as by the weight restriction for the higher-precedence special service.
- ORM-D is not allowed within the same piece with hazardous materials or Small Quantity Exception.
- All are allowed as a mixture across an entire shipment.

**Dry Ice**

The commodities rules for Dry Ice in a mixture are as follows:

- Dry Ice and hazardous materials, ORM-D, SQE, and Non-Hazardous Lithium Batteries are allowed within the same piece.
- Dry Ice is supported in an unlimited number placed in one box/package, but is constrained by the size of the box/package, as well as by the weight restriction for the higher-precedence special service.
- All are allowed as a mixture across an entire shipment.

**Small Quantity Exception**

The commodities rules for Small Quantity in a mixture are as follows:

- Small Quantity Exception is not allowed within the same piece with hazardous materials or ORM-D. Small Quantity Exception is supported in an unlimited number placed in one box/package, but is constrained by the size of the box/package, as well as by the weight restriction for the higher-precedence special service. Small Quantity Exception is allowed within the same piece as another Small...
Quantity Exception, Dry Ice, or Non-hazardous Lithium Batteries in an unlimited number placed in one box/package, but are constrained by the size of the box/package, as well as by the weight restriction for the higher-precedence special service.

- All are allowed as a mixture across an entire shipment.

**Non-hazardous Lithium Battery**

The commodities rules for Non-hazardous Lithium Batteries in a mixture are as follows:

- Non-hazardous Lithium Batteries are allowed within the same piece as hazardous materials, ORM-D, Dry Ice, or Small Quantity Exceptions are allowed within the same piece in an unlimited number placed in one box/package, but are constrained by the size of the box/package, as well as by the weight restriction for the higher-precedence special service.
- All are allowed as a mixture across an entire shipment.

<table>
<thead>
<tr>
<th>Table 1-1: Hazardous Materials Package Mixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td>HazMat Commodity</td>
</tr>
<tr>
<td>HazMat Commodity</td>
</tr>
<tr>
<td>ORM-D Commodity</td>
</tr>
<tr>
<td>Dry Ice Commodity</td>
</tr>
<tr>
<td>Small Quantity Exception Commodity</td>
</tr>
<tr>
<td>Non-hazardous Lithium Battery Commodity</td>
</tr>
</tbody>
</table>

Note: If a package contains two commodities that cannot be mixed together per the table, then the transaction will not process.

**Commodity Hierarchy**

Where multiple commodities are contained in a package, the business rules and edits applicable to the package follow this priority hierarchy based on the most restrictive to the least restrictive commodity, where 1 equals Most Restrictive and 5 equals Least Restrictive):

1. HazMat - Hazardous materials
2. ORM-D - Other Regulatory Materials-Domestic
3. Dry Ice
4. SQE - Small Quantity Exception
5. Non-hazardous Lithium Battery

Note: The presence of a Non-hazardous Lithium Battery must be identified by the customer.

**Commodity Precedence**

A shipment containing at least one HazMat commodity is considered a HazMat shipment, taking precedence over other types of commodities, impacts the following:

- Shipping Label — HazMat Service Code and bolded information prints on the label.
- OP-900 Form — Produced for a hazardous materials commodity.
- OP-950 Report — Contains information about the hazardous materials commodities in the piece.
- Signature Service — Hazardous Materials Signature Service rules are applied to the package.
Commodity Package Mixture Improper Transaction Scenarios

The following transaction messages are examples of improper transaction scenarios.

HazMat Mixed with an ORM-D Commodity
FedEx Ship Manager Server does not allow the mixture of a hazardous materials commodity in one piece with an ORM-D commodity in the same piece. If the customer attempts to ship a FedEx Ground HazMat shipment via the 020 Global Ship Transaction, and Field 1274 (Service Type) is set to 92, Field 1331 (Dangerous Goods/HazMat Flag) is set to Y, Field 451 (UN ID) is set with a valid HazMat UN ID, and Field 1900 (Dangerous Goods Regulations Indicator) is set to O for ORM-D, then the customer receives Error Message 3100, “Commodities in package cannot be combined,” and the transaction fails.

HazMat Mixed with a SQE Commodity
A SQE commodity may not be combined with a hazardous materials commodity in one shipment. If a customer attempts to ship a FedEx Ground HazMat shipment via the 020 Global Ship Transaction, and Field 1274 (Service Type) is set to 92, Field 1331 (Dangerous Goods/HazMat Flag) is set to Y, Field 451 (UN ID) is set with a valid HazMat UN ID, and Field 4937 (SQE Indicator) is set to 1 for Yes, then the customer receives Error Message 3100, “Commodities in package cannot be combined,” and the transaction fails.

Affected Transactions

- 020/120 Global Ship Request/Reply Transaction (Shipping)
- 035/135 Child Meter Registration Request/Reply Transaction (Update based on Field 1053)
- 057/157 Demand Download Request/Reply Transaction (Update based on Field 1053)

New Fields
New 020/120 Global Ship Request/Reply Field IDs are shown in Table 1-2.

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQE Indicator</td>
<td>4937-#</td>
<td>Max=1</td>
<td>N</td>
<td>I/O</td>
<td>FDXG FDH</td>
</tr>
<tr>
<td>Field ID</td>
<td>Field Length</td>
<td>Data Type</td>
<td>Input/Output</td>
<td>FedEx Shipping Services</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>--------------</td>
<td>-----------</td>
<td>--------------</td>
<td>-------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>4939-#</td>
<td>Min=1 Max=35</td>
<td>AKE</td>
<td>I/O</td>
<td>FDXG US</td>
<td>Field Level: Package Optional&lt;br&gt;Designates an Offeror Name (entity or person) or Shipper Contact Name to be used by FedEx Ground Operations and the U.S. DOT as a contact in case of an emergency situation with a Hazardous Materials Package. Note: Failure to provide the accurate information for the Offeror/Shipper Name, whether passed in the transaction or defaulted along with the Emergency Contact Number, may result in fines being incurred by the customer from the Department of Transportation. If this field is not passed in a HazMat transaction or is passed in blank, FSMS shall use Field 32 (Sender Contact Name) associated with the meter at ship time and customers will receive Message 3101, “This type of regulated shipment requires the Offeror Name (entity or person) that is registered with the Emergency Response Information provider, because Offeror Name (entity or person), Field 4939, was not provided, the Shipper Name shall be used,” and the shipment will be successful.</td>
</tr>
</tbody>
</table>
## Modified Fields

Modified 020/120 Global Ship Request/Reply Field IDs are shown in Table 1-3. These fields are now required or conditionally required for HazMat shipments.

### Table 1-3: Modified Fields Used in 020/120 Global Ship Request

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>446-#</td>
<td>Min=1 Max=255</td>
<td>A/N</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>US INTL</td>
<td>Field Level: Shipment REQUIRED* Technical name of the hazardous materials (HazMat) or dangerous goods (DG) being shipped. <em>Required if the proper shipping name ends in &quot;</em>&quot; in the International Air Transport Association (IATA) Dangerous Goods (DG) Regulations manual. Otherwise, the field is optional and not required for shipping. *Not required if DG class is radioactive. *Required if a customer attempts to ship a FedEx Ground HazMat shipment with Field 1274 set to 92, Field 1331 (Dangerous Goods/HazMat Flag) set to Y with a valid UN ID number in Field 451 that contains the symbol &quot;G&quot; (i.e., UN3098). See Section 4.1.2 of the IATA DG Regulations. For U.S. dangerous goods shipments, use this field in a Single Shot or Open Ship transaction. For international dangerous goods shipments, use this field in a Single Piece transaction only. For hazardous materials shipments, use only in Single Piece transactions. Refer to the FedEx Service Guide, available at fedex.com, for transaction rules and restrictions to understand service limitations.</td>
</tr>
<tr>
<td>484</td>
<td>Max=15</td>
<td>A</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>US INTL</td>
<td>Field Level: Shipment REQUIRED* Specify the emergency telephone number to be contacted for the shipment unless the packing instruction has a Y prefix or has one of the following UN #'s: 1845, 2807, 2857, 2969, 3166, 3171, 3358, 8000. *Required for dangerous goods shipments if Field 1900 = I — IATA. See Table 4-2 column A of the IATA DG Regulations for non-radioactive DG and Section 10.4.1 for radioactive DG. The IATA regulations limit the EPRRQ designation to a small subset of UN numbers. For U.S. dangerous goods shipments, use this field in a Single Shot or Open Ship transaction. For international dangerous goods shipments, use this field in a Single Piece transaction only. For hazardous materials shipments, use only in Single Piece transactions.</td>
</tr>
</tbody>
</table>

---

*Required if the proper shipping name ends in "*" in the International Air Transport Association (IATA) Dangerous Goods (DG) Regulations manual. Otherwise, the field is optional and not required for shipping.

*Not required if DG class is radioactive.

*Required if a customer attempts to ship a FedEx Ground HazMat shipment with Field 1274 set to 92, Field 1331 (Dangerous Goods/HazMat Flag) set to Y with a valid UN ID number in Field 451 that contains the symbol "G" (i.e., UN3098). See Section 4.1.2 of the IATA DG Regulations.

For U.S. dangerous goods shipments, use this field in a Single Shot or Open Ship transaction. For international dangerous goods shipments, use this field in a Single Piece transaction only. For hazardous materials shipments, use only in Single Piece transactions. Refer to the FedEx Service Guide, available at fedex.com, for transaction rules and restrictions to understand service limitations.
### Chapter 1: FedEx Hazardous Materials Commodities Enhancements

#### Dangerous Goods/HazMat Packing Group

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>489</td>
<td>Max=3</td>
<td>A</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>US INTL</td>
</tr>
</tbody>
</table>

Field Level: Shipment

**REQUIRED**

Specify the appropriate packing group for the dangerous goods (DG) being shipped.

*Required if a customer sends in a ship request when the UN ID has multiple entries (i.e. UN ID 1263, paint). The customer receives Error Message 3034, “The Packing Group is required.”

*Required if 1493 (DG/HazMat Form Print Flag) is set to Y, and you are printing the FedEx Ground Hazardous Materials Shipping Paper, OP-900.

*Not required if DG class is radioactive.

Valid values are:
- I — Packing Group I
- II — Packing Group II
- III — Packing Group III

This field can be entered as one blank (spacebar) for dangerous goods that do not have a packing group. Entries must be made as Roman Numerals.

For U.S. dangerous goods shipments, use the Single Shot or Open Ship transaction method. For international dangerous goods shipments, use a Single Piece transaction. For a hazardous materials shipment, only use the Single Piece transaction.

#### Dangerous Goods Class/DOT Hazard Class or Division Number

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>492</td>
<td>Max=5</td>
<td>A</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>US INTL</td>
</tr>
</tbody>
</table>

**REQUIRED**

Government classification of the dangerous goods (DG) item. This class/division determines whether the DG is categorized as accessible or inaccessible.

*Required for radioactive materials.

*Required if Field 1493 (DG/HazMat Form Print Flag) is set to Y, and you are printing the FedEx Ground Hazardous Materials Shipping Paper, OP-900.

#### Dry Ice Flag

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1268</td>
<td>Max=1</td>
<td>A</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>FHD</td>
</tr>
</tbody>
</table>

**REQUIRED**

Indicates whether the shipment contains dry ice.

*Required if shipment contains dry ice.

Valid values are:
- Y — Shipment contains dry ice
- N — Shipment does not contain dry ice
### Chapter 1: FedEx Hazardous Materials Commodities Enhancements

#### Table 1-3: Modified Fields Used in 020/120 Global Ship Request (Continued)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1903</td>
<td>Max=180</td>
<td>A/N I/O</td>
<td>FDXE:US</td>
<td>FDXE: INTL</td>
<td>Field Level: Shipment Required*</td>
</tr>
</tbody>
</table>

Specify the proper shipping name from the IATA DG Regulations for the dangerous goods shipment being shipped. This name cannot have "waste" included in it.

*Required for dangerous goods shipments if Field 1900 is set to I—IATA.

*Required if Field 451 (Dangerous Goods UN Number/Identification Number) has multiple names (i.e. UN1263, Paint). If Field 451 has multiple entries and Field 1903 is not passed in, Error Message 3036, "The Proper Shipping name could not be found," is returned.

### Transaction Samples

**FedEx Ground HazMat Shipment that Prints the Shipper Offeror Name (Entity or Person) on the OP-900LG Form for Single Piece Shipment**

```plaintext
0, "020", "Ground HazMat, Print OP-900"5,"1234 Dallas Pkwy"7,"Dallas"8,"TX"9,"75201"11,
"Recipient Company"13,"10 FedEx Parkway"15,"Collierville"16,"TN"17,"38107"18,
```

**FedEx Home Delivery Shipment with ORM-D for Single Piece**

```plaintext
```

**FedEx Ground HazMat Shipment that Prints the Shipper Offeror Name (Entity or Person) on the OP-900LG Form for Single Piece Shipment**

```plaintext
0, "020", "Ground HazMat, Print OP-900"5,"1234 Dallas Pkwy"7,"Dallas"8,"TX"9,"75201"11,
"Recipient Company"13,"10 FedEx Parkway"15,"Collierville"16,"TN"17,"38107"18,
```

**FedEx Home Delivery Shipment with ORM-D for Single Piece**

```plaintext
```

**Dangerous Goods Proper Shipping Name/Department of Transportation (DOT) Shipping Name of Material**

Max=180

A/N I/O

FDXE FDXG

FDXE: US

INTL

FDXG: US

Field Level: Shipment

Required*

Specify the proper shipping name from the IATA DG Regulations for the dangerous goods shipment being shipped. This name cannot have "waste" included in it.

*Required for dangerous goods shipments if Field 1900 is set to I—IATA.

*Required if Field 451 (Dangerous Goods UN Number/Identification Number) has multiple names (i.e. UN1263, Paint). If Field 451 has multiple entries and Field 1903 is not passed in, Error Message 3036, "The Proper Shipping name could not be found," is returned.
Chapter 1: FedEx Hazardous Materials Commodities Enhancements

FedEx Ground shipment with Dry ice for Single Piece


FedEx Ground Shipment with SQE for Single Piece Shipment


CHAPTER 2: FEDEX DANGEROUS GOODS ENHANCEMENTS

Dangerous Goods is the term used for regulated goods shipped using FedEx Express® delivery services. Enhancements include:

- UN ID number of commodities limit changed from 5 to 999 commodities (see “UN ID Limit Changes” on page 2-1 below)
- Changes to form 1421C (see “FedEx 1421C Form Changes” on page 2-1 below)
- Error Message Changes (see “Removal of Outdated Error Messages” on page 2-4)

UN ID Limit Changes

There is no longer a limit of five UN IDs commodities for “All Packed in One” or “Overpack” shipments. The limit has been changed to 999 for each type of packaging. If that limit is exceeded, then FedEx Ship Manager® Server (FSMS) returns the Error Message 4027, “Dangerous Goods commodity count invalid,” and the transaction fails.

FedEx 1421C Form Changes

To enhance the overall customer experience and to accommodate an IATA preference, the printing order of the Dangerous Goods Radioactive Label Type (Field 1910) on FedEx Express Shipper’s Declaration for Dangerous Goods (1421C form) has changed to I White, II Yellow, or III Yellow. See Figure 2-1.

Q Value Printing

To improve the customer shipping experience, when different dangerous goods are shipped in one package (“All Packed in One”), the optional Q values will no longer print on Shipper's Declaration for Dangerous Goods Form (FedEx 1421C or FedEx LZR DG DEC FORM), as shown in Figure 2-1 and Figure 2-1.

The Q Value calculations are optional if:

- One of the commodities is Dry Ice (UN 1845).
- Columns H, J, and L of the List of Dangerous Goods indicate “No limit”.
- Only one commodity qualifies for performing a Q-value calculation.

FedEx Ship Manager Server refrains from performing a Q-value calculation when only one commodity qualifies for the calculation, after Dry Ice and “no limit” commodities are eliminated.

Note: One of the conditions above must be true for Q value to not print on the form.
Figure 2-1: Shipper's Declaration for Dangerous Goods Form (FedEx 1421C)
Figure 2-2: Shipper’s Declaration for Dangerous Goods Form (LZR DG DEC FORM)
Removal of Outdated Error Messages

Plutonium is now an accepted Dangerous Goods Commodity. Error Message 3044, “Labeled plutonium will not be accepted for carriage,” has been removed. In addition, Error Message 3045 has been modified to remove the text excluding shipment of plutonium. It now reads “You must obtain FedEx pre-approval for carriage outside the U.S. Call FedEx Express Freight Services at 1.800.332.0807 to obtain pre-approval.”
CHAPTER 3: FEDEX SMARTPOST ENHANCEMENTS

FedEx SmartPost® is a contract-only service that helps you consolidate and deliver low-weight, less time-sensitive business-to-consumer packages to residences. FedEx® picks up, sorts, line hauls, tracks and delivers your packages to the United States Postal Service® (USPS) post office closest to you. The USPS makes final delivery to the residence.

FedEx SmartPost services include:

- FedEx SmartPost® Standard Mail
- FedEx SmartPost® Parcel Select
- FedEx SmartPost® Bound Printed Matter
- FedEx SmartPost® Media
- FedEx SmartPost® Returns

FedEx has expanded FedEx SmartPost by leveraging the FedEx Ground® network to provide cost-effective pickup and origin processing services to reach customers with lower volumes (less than 499 package average daily volume) of residential shipments. This service is available to all FedEx SmartPost customers who originate shipments in the 48 contiguous United States. Return Service is available to the 48 contiguous U.S. states and from all 50 states, U.S. territories, P.O. Boxes, and APO/FPO/DPO locations. The U.S. territories include American Samoa (AS), Micronesia (FM), Guam (GU), Marshall Islands (MH), Northern Mariana Islands (MP), Republic of Palau (PW), and U.S Virgin Islands (VI). The US territories and Puerto Rico while currently considered International destinations by FedEx, will be treated as domestic locations for FedEx SmartPost Returns shipments.

Enhancements include:

- “Outbound Service Enhancements” on page 3-2
- “FedEx SmartPost Shipping to Military Destinations” on page 3-2
- “FedEx SmartPost Returns Service” on page 3-2
- “Configuration Enhancements” on page 3-4
- “Print-As-You-Go Labels for FedEx SmartPost” on page 3-6
- “Earned Discounts” on page 3-6
- “Future Day Shipping” on page 3-7
- “Ancillary Endorsements Edit” on page 3-8
- “Delivery Confirmation Changes” on page 3-8
- “Shipment and Delivery E-Mail Notifications” on page 3-8
- “FedEx SmartPost Reports” on page 3-9
- “Doc-Tab Settings” on page 3-10
- “Handling Charges” on page 3-10
- “Affected Transactions” on page 3-12
  - “New Fields” on page 3-13; and “Modified Fields” on page 3-14. For more information go to page 3-39 of the Developer Guide.
Outbound Service Enhancements

FedEx Ship Manager® Server (FSMS) now validates package size limitations. When a customer enters package dimensions for a Bound Printed Matter, Standard Mail, or Media package, FSMS validates the sum of the length plus girth (2 x height + 2 x width) does not exceed 84 inches. If the size is outside the limits, the customer receives Error Message 0421, “Length+girth combined cannot be greater than the maximum allowed,” and the transaction fails.

The same conditions apply to Parcel Select, except with the limit of 130 inches.

FedEx SmartPost Shipping to Military Destinations

For FedEx SmartPost shipments, you can ship to the following military locations:

- Army/Air Force Post Office (APO)
- Fleet Post Office (FPO)
- Diplomatic/Defense Post Office (DPO)

FSMS now validates the Recipient City and State Fields as follows for shipments to these locations.

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Name</th>
<th>Allowed Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Recipient City</td>
<td>FSMS shall allow Field 15 (Recipient City) to be passed in the 020 Global Ship Request transaction with a value of *PO (ex: APO, FPO, or DPO) if one of the APO/FPO/DPO state codes are passed in for SmartPost shipments.</td>
</tr>
</tbody>
</table>
| 16    | Recipient State/Province | AA — Armed Forces Americas  
AE — Armed Forces Europe  
AP — Armed Forces Pacific |

Because packages shipped to the APO/FPO/DPO locations are potentially dutiable, the USPS is requiring ALL customers to use the appropriate form when shipping APO/FPO/DPO packages, regardless of weight. To learn more about the customs/USPS requirements and to complete/print the forms online, go to the USPS website: http://webapps.usps.com/customsforms.

FedEx SmartPost Returns Service

FedEx SmartPost® Returns service provides your customers with the convenience of U.S. Postal Service® access points for returns, as well as free package pickup from their home or business address.

FedEx SmartPost Returns is contract-only service and is ideal for customers with high-volume returns (100 average daily volume) and provides your customers with a convenient returns method for low-weight residential packages. It’s a cost-effective, reliable solution that utilizes the strength of the FedEx® network and all public access points of the U.S. Postal Service® (USPS). In addition, FedEx SmartPost Returns provides visibility throughout the returns process to your customer service and operations departments, as well as to the return shipper.
How it Works

When FedEx SmartPost Returns service is chosen, you will include a prepaid Print Returns Label in your original shipment, or E-mail the link to the Returns Label along with return instructions. The customer puts the label on the package and drops off the package at USPS access points. Once your customers’ returns packages are picked up by the USPS, they’ll be consolidated into larger shipments at local post offices and picked up by FedEx for shipment to you.

Features

- A prepaid USPS® integrated return shipping label. This means your customers don’t have to stand in line at a shipping location to obtain the proper documentation and they don’t incur any out-of-pocket expenses.
- USPS daily pickup options of Monday through Saturday. This means your customer can drop off their package at a local post office, a postal collection box or their own mailbox; or they can go to www.usps.gov/pickup to request a free USPS package pickup at their home or business address.
- Coverage to every residential address in the U.S., including APO and FPO destinations.
- Transit times of 2 to 7 business days. This means you can quickly and efficiently cycle returned products back into inventory for faster redeployment into the market — generating revenue and reducing the effects of product depreciation.
- Maximum package weight of 70 lbs.
- No residential or Saturday pickup surcharges.
- Inbound shipment visibility via FedEx InSight®. FedEx InSight e-mail notifications provide timely and automatic status information about your incoming FedEx SmartPost return packages and include an estimated delivery date — assigned when the FedEx SmartPost origin hub receives the package — enabling you to plan accordingly. Visibility via FedEx InSight also provides your customers with an up-to-the-minute view of their return, so they’re not spending time calling your customer service department for shipment-status updates.
- Customer reports via FedEx® Reporting Online.
- Limit of liability is $100.

To use the returns service, set the SmartPost Service Type / Postal Indicia (Field 2417) to value 7 (FedEx SmartPost Returns).

The following services do not apply for FedEx SmartPost Returns shipments:

- Delivery Confirmation
- Ancillary Endorsements

For FedEx SmartPost Returns, FedEx Ship Manager Server:

- Supports both FedEx SmartPost® Print Return and FedEx SmartPost® E-Mail Return labels. Use Field 2417 (FedEx SmartPost Service Type/Postal Indicia) in the 020/120 Global Shipping Transaction. For more information, see Basic Coding Transaction section at whatever table is given in this chapter for each scenario.

Note: Field 2417 is also used in the 020 Reply/Request transactions

- Provides the ability to request Delivery and Shipment E-mail Notifications.

A FedEx SmartPost Returns shipment (print return) may be deleted prior to close via the 023/123 Delete Transaction Request/Reply. To delete a FedEx SmartPost Returns shipment (E-mail Label), set Field 3025 (Carrier Code) to FDXS in the 033/133 Delete E-Mail Label Request/Reply Transaction.

Note: Field 2417 is also used in the 020 Request/Reply transactions.
Chapter 3: FedEx SmartPost Enhancements

Configuration Enhancements

In prior releases, FedEx Authorized Technical Contacts were required to manually configure the devices to set up the pickup carrier, to enable FedEx SmartPost services, and to load the FedEx SmartPost rate and ZIP-to-zone files.

With this release, all the configuration and rate information is maintained on the FedEx central system/server and information is automatically downloaded to customer devices.

A new tab has been added to the configuration manager to consolidate all FedEx SmartPost related settings. This tab is called the SmartPost Settings tab, see Figure 3-2.

Note: This is accomplished with the Demand Download Utility. You must download FedEx Express Domestic Rates and SmartPost Rates. This initiates the data download within the SmartPost settings tab. If you do not download FedEx Express Domestic rates, a manual configuration of FedEx SmartPost settings will be required.

Note: Another option to download rates is to run the 057 Demand Download Request transaction.

If a customer account is enabled for SmartPost Returns Service, there are options to configure SmartPost returns locations at the bottom portion of the SmartPost Settings tab. See the Developer Guide section “Configuring FedEx SmartPost” for more information.

Note: If a customer is shipping both SmartPost and SmartPost Returns you MUST have 2 account numbers, 2 Mailer IDs, and 2 meters for the outbound SmartPost shipment and the Return.
Figure 3-1: New SmartPost Settings Tab on FedEx Configuration Utility
Chapter 3: FedEx SmartPost Enhancements

Meter Registration Utility

FedEx SmartPost is now part of the Meter Registration Utility. Please see the Developer Guide section “Meter Registration Utility” in Chapter 14 for more info.

Print-As-You-Go Labels for FedEx SmartPost

FedEx SmartPost customers can now generate shipping labels using both the FSMS Open Ship and Print-As-You-Go (PAYG) features. However, when using the FSMS Open Ship and PAYG FedEx SmartPost features, Print-As-You-Go Labels can only be non-associated; that is, there can be no association between the individual package number and the total number of packages, such as 1 of 3, 2 of 3, 3 of 3. The following examples show how to print labels as you process packages in 020 Global Ship Request transactions, rather than waiting for the final confirmation.

This example shows how to create and print a label:

```
```

This example shows how to add a package and print a label:

```
```

This example shows how to add another package and print a label:

```
```

This example confirms a Print-As-You-Go FedEx SmartPost shipment transaction:

```
```

Earned Discounts

FedEx SmartPost customers can now earn discounts through the use of other eligible FedEx services. Discounts are earned through the use of FedEx Express® and FedEx Freight® services, but can only be applied to FedEx Ground® or FedEx SmartPost shipments. The FSMS Demand Download Utility has been enhanced to support downloading Earned Discounts (where available) for FedEx SmartPost customers. See the FedEx Ship Manager® Server Transaction Coding Reference Guide for details on using Field 1053 (Download Flag) for requesting an Earned Discount within a ship or rate transaction.
Future Day Shipping

Future Day Shipping is now available for all FedEx SmartPost shipments. If a ship date has been provided for any FedEx SmartPost shipment, regardless of the pickup carrier, then the ship date is validated using FedEx Ground business rules.

See the Developer Guide, Chapter 7: Coding Transactions for FedEx SmartPost, section “FedEx Ground Future Day” for more information on Future Day shipping.
Chapter 3: FedEx SmartPost Enhancements

### Ancillary Endorsements Edit

The following business rule is now enforced for FedEx SmartPost shipments (Standard Mail weighing less than 1 lb.) to support compliance with the U.S. Postal Service requirement for ancillary endorsements. Only one of the following ancillary endorsements is permitted when delivery confirmation is requested:

- Return Service Requested
- Address Service Requested

### Delivery Confirmation Changes

The customer will not be able to turn Delivery Confirmation ON or OFF at the shipment level. Delivery confirmation is defaulted to “Y” for all FedEx SmartPost Shipments. Delivery Confirmation exceptions are requested and set up at the account level.

### Shipment and Delivery E-Mail Notifications

Delivery and shipment e-mail notifications for U.S. outbound shipments are now available. Fields may be passed in the 020 Global Ship Request for a U.S. outbound shipment. However, exception notifications are not available for FedEx SmartPost shipments.

Note: See the Developer Guide, Table 7-7: E-Mail Notification Fields for FedEx SmartPost Shipment” for information about E-Mail Notification fields for FedEx SmartPost shipments.

---

### Table 3-2: Future Day Ship Date Field

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship Date</td>
<td>Max=8</td>
<td>N</td>
<td>I</td>
<td>FDXS</td>
<td>All</td>
</tr>
</tbody>
</table>

---

-[36x38]3-8 FedEx Ship Manager® Server Technical What’s New Guide v 10.6.1
FedEx SmartPost Reports

Three reports are now available with FedEx SmartPost shipping:

- Detail Report
- Manifest Report
- Returns Report

The Detail and Manifest reports can be run with the 007 End of Day Close Request by passing in Field 3025, Carrier Code, set to FDXS. Additionally, all three reports can also be run with either the 070/170 Meter Query/Configuration Transaction or the 095/195 Label Reprint Transaction. For all three reports, Field 1373, Report Code, should be set to 69 for the Manifest Report, 67 for the Detail Report, and 68 for the Returns Report.

The Returns Report is printed on demand via the Report Viewer Utility. A FedEx SmartPost option has been added to the Report Viewer Utility which allows the new reports to be reprinted.

An option for FedEx SmartPost has been added to the Report Settings tab. It expands out to show the Detail and Manifest Reports.

Note: See “Coding Transactions for FedEx SmartPost” and “Generating FedEx Shipping Forms and Reports” in the Developer Guide for more information.

Note: The Manifest Report is only available when Ground is the pickup carrier.
Chapter 3: FedEx SmartPost Enhancements

Report Viewer Utility

![Figure 3-3: Report Viewer Utility - SmartPost Returns](image)

Doc-Tab Settings

Labels are now available with or without doc-tabs in all U.S. FedEx SmartPost shipments. The default doc-tab can be used or it can be customized with the available field tags.

FedEx Ship Manager Server allows Field 1619 (Doc-Tab Type) to be passed in the 070/170 Meter Query Request/Reply Transaction with the new value of "SP" to configure a Doc-Tab for FedEx SmartPost shipments. See the Installation and Configuration Guide, Chapter 2, SmartPost section of “Configuring Doc-Tab Settings.”

Handling Charges

Handling Charges are fixed and/or variable amounts and are a percentage of the shipping charges and/or surcharges. The Meter Settings tab has been updated to include a new drop-down choice for handling charges for FedEx SmartPost shipments. See Figure 3-4. For more information on configuring handling charges see Chapter 7 of the Developer Guide, "Configuring Handling Charges in the Meter Settings Tab”.

For U.S. outbound shipments, the handling charges will be returned in the 120 Global Ship Reply Transaction. Use the following fields in the transaction. See table below.
### Table 3-3: Handling Charges Fields

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Handling Charges Fields Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling Charge Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1588-#</td>
<td>Max=1</td>
<td>N</td>
<td>I</td>
<td>FDXE FDXG FDXS</td>
<td>All Optional Indicates the type of handling charge to be added to the net charge of the shipment. Valid values are: 0 — No handling charge 1 — Fixed handling charge amount 2 — Variable handling charge based on percentage of gross transportation charge 3 — Variable handling charge based on percentage of net charge 4 — Variable handling charge based on percentage of net charge minus Canada taxes (CA origin only) Note: For FedEx Ground multiple-piece shipments (MPS), a value of 1, 2, 3, or 4 must be on the first package to enable variable handling charge on any subsequent package of the MPS. For shipping, use Single Shot, Single Piece, Open Ship, or MPS. Note: You may also choose to configure a recurring handling charge type in the FSMS Configuration Utility for your Transaction Distribution shipments.</td>
</tr>
<tr>
<td>Handling Charge Amount or Percentage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1595-#</td>
<td>Max=7.2</td>
<td>N</td>
<td>I</td>
<td>FDXE FDXG FDXS</td>
<td>All Optional Handling charge as dollar amount or percentage. If Field 1588 (Handling Charge Type) is set to 1 (Fixed handling charge amount), Field 1595 contains a currency amount. For example, a value of 500 means $5.00. If Field 1588 is set to 2, 3 or 4, Field 1595 contains a percentage. For example, a value of 500 means 5%. Field allows up to seven (7) numeric characters, two of which are implied decimal entries. For shipping, use Single Shot, Single Piece, Open Ship, or MPS.</td>
</tr>
<tr>
<td>Handling Charge Application Point</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1606-#</td>
<td>Max=1</td>
<td>N</td>
<td>I</td>
<td>FDXE FDXG FDXS</td>
<td>All Optional Specifies at which level (package or shipment) FedEx handling charges apply. Valid values are: 0 or blank — Handling charge applied at the package level 1 — Handling charge applied at the shipment level Only repeat if used at the package level. For shipping, use Single Shot, Single Piece, Open Ship, or MPS.</td>
</tr>
</tbody>
</table>
Chapter 3: FedEx SmartPost Enhancements

### Affected Transactions

- 007/107 End of Day Close Request/Reply Transaction
- 020/120 Global Ship Request/Reply Transaction
- 023/123 Delete Request/Reply Transaction
- 033/133 E-Mail Label Delete Request/Reply Transaction
- 035/135 Child Meter Registration Request/Reply Transaction
- 057/157 Demand Download Request/Reply Transaction

---

**Table 3-3: Handling Charges Fields (Continued)**

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Handling Charges Fields Valid For</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1596</td>
<td>Max=11.2</td>
<td>N</td>
<td>O</td>
<td>FDXE, FDXG, FDXS</td>
<td>All</td>
<td>Charge applied by customer to the shipment. It may be either a fixed or variable charge. Format: 99999999.99 Decimal place is implicit.</td>
</tr>
</tbody>
</table>

---

**Handling Charges Dialog**

- **Meter**: 126775
- **Service Type**: Smartpost

**Handling Charge Calculation**

- None
- Fixed Amount
- Percent of Freight Charge
- Percent of Net Charge
- Percent of Net Charge - Taxes

**Handling Charge Level**

- Package
- Shipment

**Handling Charge Amount**: 0

---

Figure 3-4: Handling Charges Dialog for SmartPost Service Type
• 070/170 Meter Query Request/Reply Transaction
• 095/195 Reprint (Reports and/or Labels) Request/Reply Transaction

### New Fields

New FedEx SmartPost fields for the 020/120 Global Ship Request/Reply are shown in Table 3-4.

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hub ID</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2801</td>
<td>Max=4</td>
<td>N</td>
<td>I/O</td>
<td>FDXS</td>
<td>REQUIRED*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>*Required if user is allowed to use multiple hubs and wants to use a different HUB ID other than the default HUB ID. If the customer sets this field with a value other than the value in their list of allowed HUB IDs, then Error Message 2647, “Invalid Hub ID entered for FedEx SmartPost shipment,” is returned, and the transaction fails.</td>
</tr>
<tr>
<td>Non-Machinable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2802</td>
<td>Max=1</td>
<td>A</td>
<td>I/O</td>
<td>FDXS</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Identifies a non-machinable package. Valid values: Y = Yes N = No</td>
</tr>
<tr>
<td>Non-Machinable Surcharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2803</td>
<td>Min=1, Max=11.2</td>
<td>N</td>
<td>O</td>
<td>FDXS</td>
<td>The surcharge amount for the non-machinable package. The non-machinable surcharge applies if the package size or shape exceeds the limits allowed for automated sorting of the package. If a customer passes in package dimensions that indicate it is non-machinable, then Field 2803 will be returned with the surcharge amount. If Field 1234 (Rate/Route/Time in Transit) is set to value 1 (Rate), or if Field 541 (Open Ship) is set to value 3 (Rate) and Field 2802 is set, or if the package dimensions indicate non-machinable, then the correct non-machinable surcharge will be returned.</td>
</tr>
<tr>
<td>Delivery Confirmation Service Surcharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2804</td>
<td>Min=1, Max=11.2</td>
<td>N</td>
<td>O</td>
<td>FDXS</td>
<td>The surcharge amount for Delivery. The delivery confirmation surcharge applies if the package has been marked for delivery confirmation. If a customer checks the Delivery Confirmation option on the Meter Settings tab, then Field 2804 (Delivery Confirmation Service Surcharge) will be returned with the surcharge amount.</td>
</tr>
<tr>
<td>Billing Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3135</td>
<td>Min=1, Max=10</td>
<td>A/N</td>
<td>I/O</td>
<td>FDXG FDXS</td>
<td>Obsolete field. Billing number.</td>
</tr>
</tbody>
</table>

*Required if user is allowed to use multiple hubs and wants to use a different HUB ID other than the default HUB ID. If the customer sets this field with a value other than the value in their list of allowed HUB IDs, then Error Message 2647, “Invalid Hub ID entered for FedEx SmartPost shipment,” is returned, and the transaction fails.
Modified Fields

Modified FedEx SmartPost fields are shown in Table 3-5.

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pay Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Field Level: Shipment REQUIRED</td>
</tr>
</tbody>
</table>
| 23       | Max=1        | N         | I/O          | FDXE, FDXG, FDXS        | All       | Code for payment type. Codes are different for FedEx Express and FedEx Ground shipments. FedEx SmartPost® payment types are: 1 — Bill Sender (default) 6 — Bill Associated Account (For FedEx SmartPost Returns only) For shipping, use Single Shot, Single Piece, Open Ship, or MPS. When a customer is processing an 020 Global Ship Request for a FedEx SmartPost Returns shipment, if Field 2417 (Smart Post Service Type/Postal Indicia) is set to value 7, and the shipper account number is the same as the return account number, Field 23 (Pay Type) will be set to value 1 (Bill Shipper). If a customer is processing an 020 Global Ship Request for a FedEx SmartPost Returns shipment with Field 2417 (SmartPost Service Type/Postal Indicia) set to value 7, and the shipper account is not the same as the return account number, Field 23 (Pay Type) will be set to 6 (Bill Associated Account). Field 23 has been modified to add value 1 for FedEx SmartPost Returns shipments. If a customer is processing an 020 Global Ship Request for a FedEx SmartPost Returns shipment with Field 2417 set to value 7, and Field 23 has been modified to add value 6 for FedEx SmartPost Returns shipments. If a customer is processing an 020 Global Ship Request for a FedEx SmartPost Returns shipment with Field 2417 set to value 7, and the shipper account is not the same as the return account number, Field23 will be set to 6 (Bill Associated Account).
### Reference Information/Package Customer Reference Number

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
</table>
| 25-#     | Max=39       | A/N       | I            | FDXE FDXG FDXS           | US INTL   | **Field Level:** Package for all services except for FedEx Express international MPS which is shipment level. Optional
Use this field for optional notes (FedEx Express) and customer reference number CRN (FedEx Ground).
For all other services, this field is a package-level field and must not be used if a shipment-level customer reference number (CRN) has been assigned in Field 3003 (Shipment Customer Reference Information).
If this field is used simultaneously with Field 3003, then Field 3003 is ignored. Package-level fields take precedence.
This field prints on the FedEx Express shipping label, various reports, and the FedEx Express Shipper’s Declaration for Dangerous Goods 1421C form (FedEx Express 1421C or LZR DG DEC FORM). This value also displays in the Customer Reference field on the FedEx Ground invoice.
For shipping, use Single Shot, Single Piece, Open Ship, or MPS.

### Download Flag

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1053     | Max=25       | A         | I            | FDXE FDXG FHD FDXS       | All       | 21 — FedEx Ground List Rates
22 — FedEx SmartPost Rates
23 — FedEx SmartPost Delivery Confirmation Numbers
25 — FedEx SmartPost Earned Discount Rates

### Dynamic Surcharge Code

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1947-#   | Min=3        | Max=5     | N            | FDXE FDXG FDXS           | All       | 700 — Delivery Confirmation Service Surcharge
720 — Non-Machinable Surcharge
Field 1947-# and Field 1945 (List Dynamic Surcharge) are returned in the 120 Global Ship Reply or the 125 Rate Available Services Reply transaction when the List Rates checkbox on the Meter Settings tab is selected.

### RMA Number

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
</table>
| 2210     | Max=20       | A         | I            | FDXE FDXG FDXS           | Optional  | Specify the Return Materials Authorization (RMA) number.
If used, the RMA number is printed on the label and uploaded to FedEx systems. It is then available for tracking and will be included on the customer invoice.
Ancillary Endorsements

2416  Max=2  N  I  FDXS  US  Optional

Special endorsements or delivery options specific to FedEx SmartPost. Valid values are:
1 — Carrier Leave If No Response
2 — Address Service Requested
3 — Forwarding Service Requested
4 — Return Service Requested
5 — Change Service Requested

For shipping, use Open Ship or MPS.

If FSMS has defaulted the value in Field 2416 to the value of 2 (based on the conditions described for Field 2417), the following informational message (Message Code 5042) will be returned to the customer, “Your ancillary endorsement has been changed to 2 (Address Service Requested). Please note that ancillary endorsement can only be 2 (Address Service Requested) or 4 (Return Service Requested) for FedEx SmartPost Standard Mail shipments with Delivery Confirmation.”

If a customer processes a 020 Shipping transaction with Field 2417 (Service Type) set to 1 (FedEx SmartPost Standard Mail) with Delivery Confirmation, and Field 2416 (Ancillary Endorsement) is not sent in, blank, or set to any value other than 2 (Address Service Requested) or 4 (Return Service Requested), then FSMS defaults the value for Field 2416 to 2 (Address Service Requested).

If Field 2417 (SmartPost Service Type) is passed in the 020 Shipping transaction and set to 1 (FedEx SmartPost), 3 (Bound Printed Matter) or 5 (FedEx SmartPost Media), and if Delivery Confirmation exception is not set in CHEERS (internal system), then Delivery Confirmation will be ‘Y’. The customer will not be able to turn Delivery Confirmation on or off at the shipment level. Delivery Confirmation must be read from CHEERS at the account-level.

If a customer is processing an 020 Shipping transaction and passes in Field 2417 (Service Type) set to 1 (Standard Mail), Field 3204 (Delivery Confirmation) set to Y, and either does not pass Field 2416 (Ancillary Endorsement) or passes it in blank or with a value of 1 (Carrier Leave if no Response), 3 (Forwarding Service Requested), or 5 (Change Service Requested), then Field 2416 will be automatically reset to value 2 (Address Service Requested). The shipment will be successful and the customer will receive Message 5042, “Your ancillary endorsement has been changed to 2 (Address Service Requested). Please note that the ancillary endorsement can only be 2 (Address Service Requested) or 4 (Return Service Requested) for FedEx SmartPost Standard Mail shipments with Delivery Confirmation.”

Table 3-5: FedEx SmartPost Modified Fields (Continued)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ancillary Endorsements</td>
<td>2416</td>
<td>Max=2</td>
<td>N</td>
<td>I</td>
<td>FDXS</td>
</tr>
</tbody>
</table>

Special endorsements or delivery options specific to FedEx SmartPost. Valid values are:
1 — Carrier Leave If No Response
2 — Address Service Requested
3 — Forwarding Service Requested
4 — Return Service Requested
5 — Change Service Requested

For shipping, use Open Ship or MPS.

If FSMS has defaulted the value in Field 2416 to the value of 2 (based on the conditions described for Field 2417), the following informational message (Message Code 5042) will be returned to the customer, “Your ancillary endorsement has been changed to 2 (Address Service Requested). Please note that ancillary endorsement can only be 2 (Address Service Requested) or 4 (Return Service Requested) for FedEx SmartPost Standard Mail shipments with Delivery Confirmation.”

If a customer processes a 020 Shipping transaction with Field 2417 (Service Type) set to 1 (FedEx SmartPost Standard Mail) with Delivery Confirmation, and Field 2416 (Ancillary Endorsement) is not sent in, blank, or set to any value other than 2 (Address Service Requested) or 4 (Return Service Requested), then FSMS defaults the value for Field 2416 to 2 (Address Service Requested).

If Field 2417 (SmartPost Service Type) is passed in the 020 Shipping transaction and set to 1 (FedEx SmartPost), 3 (Bound Printed Matter) or 5 (FedEx SmartPost Media), and if Delivery Confirmation exception is not set in CHEERS (internal system), then Delivery Confirmation will be ‘Y’. The customer will not be able to turn Delivery Confirmation on or off at the shipment level. Delivery Confirmation must be read from CHEERS at the account-level.

If a customer is processing an 020 Shipping transaction and passes in Field 2417 (Service Type) set to 1 (Standard Mail), Field 3204 (Delivery Confirmation) set to Y, and either does not pass Field 2416 (Ancillary Endorsement) or passes it in blank or with a value of 1 (Carrier Leave if no Response), 3 (Forwarding Service Requested), or 5 (Change Service Requested), then Field 2416 will be automatically reset to value 2 (Address Service Requested). The shipment will be successful and the customer will receive Message 5042, “Your ancillary endorsement has been changed to 2 (Address Service Requested). Please note that the ancillary endorsement can only be 2 (Address Service Requested) or 4 (Return Service Requested) for FedEx SmartPost Standard Mail shipments with Delivery Confirmation.”
### Chapter 3: FedEx SmartPost Enhancements

#### SmartPost Service Type/Postal Indicia

Transactions: 020 Global Ship Request

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
</table>
| 2417     | Max=2        | N         | I            | FDXS US                 | 04 — Obsolete value 07 — FedEx SmartPost Returns  
If customer ships a FedEx SmartPost shipment with Field 2417 (Service Type) set to 1 (Standard Mail) and Field 2416 (Ancillary Endorsements) set either to value 1, 3, 5, or left blank, then the value of Field 2416 will default to 4 (Return Service Requested). The customer will then receive the Message 5042, “Your ancillary endorsement has been changed per USPS regulation.”  
If a customer is processing an 020 Global Ship Request for a FedEx SmartPost Returns shipment, and passes in Field 2417 (SmartPost Service Type/Postal Indicia) set to 7 (Returns) and has greater than 999 pieces, then Error Message 0216, “Total package count cannot exceed 999,” is returned, and the transaction fails. |

#### FedEx Ground Oversize Indicator

Transactions: 020/120 Global Ship Request/Reply

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3124</td>
<td>Max=1</td>
<td>N</td>
<td>I/O</td>
<td>FDXG FHD FDXS US CA</td>
<td>4 — Balloon Package - if length+girth is &gt; 84&quot; but £ to 108&quot; and weight is &lt; 20 lbs.</td>
</tr>
</tbody>
</table>

#### Package Purchase Order Number

Transactions: 020 Global Ship Request

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
</table>
| 3056-#   | Max=30       | AKE       | I            | FDXE FDXG FDXS US CA INTL | Field Level: Package  
Optional  
When used to create or print a Bill of Lading (BOL), this prints in the Purchase Order # section of the BOL. Each additional BOL order number prints directly below each article description. Field 3056 is the only field that supplies the full set for the BOL.  
For Domestic FedEx Ground and International: this field prints the package purchase order number to a thermal label.  
For intra-U.S. and intra-CA, this displays on the FedEx Express laser and image labels. It displays in the Ref. #2 field on the FedEx Express invoice and P.O. # field on the FedEx Ground invoice.  
This field is a package level field and should not be used if a shipment level purchase order number has been assigned in Field 3001 (Shipment Purchase Order Number). If this field is used simultaneously with Field 3001, then Field 3001 is ignored. Package level fields take precedence.  
For shipping, use Single Shot, Single Piece, Open Ship, or MPS. |
### Package Invoice Number

Transaction: 020 Global Ship Request

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
</table>
| 3057-#   | Max=30       | A/N       | I            | FDXE, FDXG, FDXS         | US, CA, INTL | **Package Level**: Package  
Optional  
Prints the package invoice number on the thermal label.  
For intra-U.S. and intra-CA, this displays on the FedEx Express laser and image labels. It displays in the Ref. #3 field on the FedEx Express invoice.  
Field 3057 is a package level field and must not be used if a shipment level invoice number has been assigned in Field ID 3002 (Shipment Invoice Number). If this field is used simultaneously with Field 3002, then Field 3002 is ignored. Package level fields take precedence.  
For shipping, use Single Shot, Single Piece, Open Ship, or MPS. |
CHAPTER 4: FEDEX ELECTRONIC TRADE DOCUMENTS

FedEx® Electronic Trade Documents (ETD) allows customers to submit their trade documents electronically, thus alleviating the need to manually print and attach them to the shipment. This streamlines the process for clearing customs. This feature is not available for dangerous goods or dry ice.

ETD support is provided for:

- FedEx International Ground® (IG)
  - Brokerage Inclusive (BI)
  - Broker Select Option (BSO)
- FedEx International Priority® (IP)
- FedEx International Economy® (IE)
- FedEx International First® (IF)
- FedEx International Priority® Freight (IPF)
- FedEx International Economy® Freight (IEF)
  - Third Party Consignee (TPC) options

Features include:

- "Features" on page 4-1
- "Enabling Electronic Trade Documents" on page 4-2
- "049/149 Pre-Shipment Document Upload Request/Reply Transaction" on page 4-5
- "020/120 Global Ship Request/Reply Transaction" on page 4-10
- "070/170 Meter Query or Configuration Request/Reply Transaction" on page 4-16
- "Field Enhancements" on page 4-17
- "Label Enhancements" on page 4-20
- "Report Enhancements" on page 4-23

Features

- Create and upload customs documents generated by FedEx, or your own trade documents, as files or images created on your own system in your preferred software format, such as DOC (MS Word), XLS (MS Excel), TXT (plain text), RTF (Rich Text), JPG, GIF, BMP, PNG, TIF and PDF (Adobe Acrobat). (This does not include Microsoft Word 2007 DOCX or Microsoft Excel XLSX.)
- Process trade documents to and from countries that allow shipping electronic trade documents. For a list of current countries, go to this site: images.fedex.com/international/pdf/FedExElectronicTradeDocuments_Coverage_Final.pdf.
- Add a company letterhead and signature image to the Commercial Invoice (CI), Proforma Invoice (PI), or Certificate of Origin (COO) to facilitate customs clearance without printing paper copies.
- Gain additional time to resolve any difficulties with trade documents before the shipment arrives.
Enabling Electronic Trade Documents

The **ETD Allowed** checkbox, shown in Figure 4-1 is found on the **Meter Settings** tab. The checkbox is visible under, Field and Support Privilege Levels for sender countries allowed to use Electronic Trade Documents. User Level access does not have permission to enable Electronic Trade Documents.

1. Select the **ETD Allowed** checkbox.

   Note: This checkbox will only be visible when the sender country allows Electronic Trade Documents for a given meter.

2. The **Electronic Trade Documents - Terms and Conditions Language Selection** pop-up window appears, as shown in Figure 4-2.

3. Select the language preference and choose **I accept Terms and Conditions** and select **OK**.

   Note: Accepting the terms and conditions must only be done once.

---

Figure 4-1: Meter Settings Tab
Chapter 4: FedEx Electronic Trade Documents

Figure 4-2: Terms and Conditions Screen

Note: The date and meter number will be captured and retained in a log file after the terms and conditions are accepted. The log file is stored in C:\FedEx\FedEx_Cfg.

4. The **Informational Message** for digital letterhead logo and digital signature image appears, as shown in Figure 4-3.

Figure 4-3: Digital Letterhead Logo and Digital Signature Image

Note: Many countries require the letterhead and signature for electronic documents, so it is important to upload them prior to processing shipments.

Note: The maximum letterhead image cannot exceed 7.75” x 3” for letter-size paper with a 3” offset.

Note: The maximum signature image dimensions cannot exceed 2” x 1”.

Note: The maximum letterhead image cannot exceed 7.75” x 3” for letter-size paper with a 3” offset.

Note: The maximum signature image dimensions cannot exceed 2” x 1”.

Figure 4-3: Digital Letterhead Logo and Digital Signature Image

Note: Many countries require the letterhead and signature for electronic documents, so it is important to upload them prior to processing shipments.

Note: The maximum letterhead image cannot exceed 7.75” x 3” for letter-size paper with a 3” offset.

Note: The maximum signature image dimensions cannot exceed 2” x 1”.

Figure 4-3: Digital Letterhead Logo and Digital Signature Image

Note: Many countries require the letterhead and signature for electronic documents, so it is important to upload them prior to processing shipments.

Note: The maximum letterhead image cannot exceed 7.75” x 3” for letter-size paper with a 3” offset.

Note: The maximum signature image dimensions cannot exceed 2” x 1”.
5. The **Meter Settings** tab reappears with the **ETD Default Options** shown in Figure 4-1.

6. The Electronic Trade Documents feature automatically defaults to **Use ETD**, as shown in Figure 4-1, under **ETD Default Options**. So when the shipping destination allows Electronic Trade Documents, it will automatically be functional.

Note: Electronic Trade Documents can be temporarily de-activated on a transaction by transaction basis. Passing in Field 2805 (ETD Indicator) set to **N** will not allow Electronic Trade Documents for that particular transaction.

Note: Electronic Trade Documents default functionality can be turned off for all transactions by unchecking the **Use ETD** checkbox.

7. Under **Upload Confirmation**, select **Not Required** or **Required**, depending upon preferences.
   - **Not Required** allows all additional transaction processing to continue irrelevant of a successful confirmation from FSMS Common Document Upload Service (CDUS).
   - **Required** halts all subsequent transaction processing until a successful confirmation is received back by CDUS. FedEx Ship Manager Server will default to No Wait for Confirmation. If you select Wait for Confirmation Required, you will NOT be able to process ANY transactions while you wait for the confirmation.

Note: In the Upload Confirmation settings, either setting can be temporarily de-activated on a transactional basis by passing Field 2820 (ETD Wait for Confirmation) set to either “Y” or “N”.

Note: FedEx Ship Manager® Server times out after two minutes if a successful confirmation is not received. FedEx Ship Manager Server then returns a hard error and the document upload transaction must be re-submitted.

**Best Practice:** If you would like confirmation of your document upload, it is recommended to pass in any Customer Generated documents in the **049 Pre-Shipment Upload Transaction** with Field 2820 set to “Y” for Electronic Trade Documents upload confirmation in order to optimize shipping speed within the **020 Global Ship Transaction**.

Note: Customers can upload the Commercial Invoice, Certificate of Origin, Proforma Invoice, and other documents of the following file types: DOC (MS Word), XLS (MS Excel), TXT (plain text), RTF (Rich Text), JPG, GIF, BMP, PNG, TIF and PDF (Adobe Acrobat) (this does not include Microsoft Word 2007 DOCX or Microsoft Excel XLSX) in any local language. The maximum file size per document is 1 MB and you can upload 5 documents at a time.

Note: Adjust the size of the document before uploading the document, and you can upload up to five documents at a time.

**Best Practice:** When processing an **Open Ship transaction for MPS shipments using Electronic Trade Documents** please ensure you provide commodity level detail for both Master and Child pieces.

Note: If you would like to setup Electronic Trade Document report setting, including your default Digital Letterhead and Digital Signature Image, click the report setting tab. Go to “Report Settings” on page 4-23 for detailed information.

8. Select **Apply and Exit**.

See the **FedEx Ship Manager® Server Installation and Configuration Guide** for further configuration details.

**Methods for Uploading Electronic Trade Documents Shipping Document:**

Method 1: After uploading the Customer Generated shipping documents with the **049/149 Pre-Shipment Document Upload**, the **020/120 Global Ship Transaction** must process the shipment. The field that links the 049/149 to the 020/120 is Field 2817.

Note: Please ensure that you clearly specify what customs documentation you are uploading, e.g. Commercial Invoice. Failure to do so will result in no upload and can potentially lead to delayed shipments.

Method 2: Upload Customer and FedEx Generated shipping documents and ship at the same time via the **020/120 Global Ship Transaction**.
049/149 Pre-Shipment Document Upload Request/Reply Transaction

Upload Customer Generated shipping documents in a 049 Pre-Shipment Document Upload Request Transaction before shipping the shipment using the 020 Global Ship Request Transaction.

Note: Please ensure that Electronic Trade Documents has been enabled prior to using the 049 transaction. This transaction will not upload your documents unless you have enabled Electronic Trade Documents in your meter settings tab.

Note: More details about the 020 Global Ship Request Transaction can be found on page 4-10.

Note: The Pre-Shipment Document Upload for Customer Generated documents should be performed prior to shipping and should clearly specify what type of customs documentation is being uploaded.

049 Pre-Shipment Document Upload Request Fields

Table 4-1 lists the fields allowed by the 049 Pre-Shipment Document Upload Request transaction.

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transaction Code</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Max=3</td>
<td>N</td>
<td>I/O</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Recipient Country</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Max=2</td>
<td>A</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Meter Number</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>498</td>
<td>Min=1 Max=9</td>
<td>N</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Open Ship Index</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>542</td>
<td>Max=9</td>
<td>A/N</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td>All</td>
</tr>
</tbody>
</table>
| | | | | | | Set to the unique number passed in the CREATE transaction. The value is a unique number per Open Ship shipment per meter and represents the Open Ship Index. *Required for Open Ship. Note: Field 542 is not required if you are simultaneously performing a CREATE or ADD transaction. Simultaneous Field 541 (required for Open Ship) transactions examples:
| | | | | | | - YYNNNNNNNN, which performs a shipment level CREATE and Route/Time-in-Transit transaction.
| | | | | | | - NVNYNNNNNN, which performs a package level ADD and shipment level Route/Time-in-Transit together in the same transaction.
### ETD Indicator

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Length</th>
<th>Date</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipmen Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2805</td>
<td>Max=1</td>
<td>A</td>
<td>I/O</td>
<td>FDXE</td>
<td>Optional ETD Indicator used to override the ETD flag on the Meter Settings tab. This Field ID takes precedence over the configuration when passed in a transaction. Valid values are: Y — Yes N — No Note: If Field ID is not sent, blank, or invalid, then the value on the configuration screen applies.</td>
</tr>
</tbody>
</table>

### Document Reference ID

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Length</th>
<th>Date</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipmen Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2817-#</td>
<td>Min=1</td>
<td>Max=40</td>
<td>AKE</td>
<td>I/O</td>
<td>REQUIRED* Used by customers to indicate a unique ID for each given Electronic Trade Document being uploaded in the transaction. *FXRS auto-populates if not passed in the transaction. Note: If you create your own Document Reference ID in 049/149 Pre-Shipment Document Upload, it is simpler to link, but if you let FedEx create the link, it will be 40 characters long.</td>
</tr>
</tbody>
</table>

### ETD Document Type

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Length</th>
<th>Date</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipmen Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2818-#</td>
<td>Max=1</td>
<td>N</td>
<td>I/O</td>
<td>FDXE</td>
<td>REQUIRED - in 020/120 Global Ship and 049/149 Pre-Shipment Upload Transactions, if Field 2819 is present in the 049 Request Transaction. If Field 2818 is not found, then an error will be returned. This field is required to determine what type of document(s) are being electronically uploaded. It is used with the Field 2819 (ETD Document Filename) for Customer Generated documents (Field 2821). Valid values are: 1 — Commercial Invoice 2 — Certificate of Origin 3 — Proforma 4 — Other For multiple documents being uploaded in this transaction, each occurrence of Field 2819 must have a corresponding occurrence of Field 2818 with the valid value set. For example: If the first occurrence of 2819 (such as 2819-1) has the following filename, C:\Folder\CommercialInvoice.txt, then Field 2818 and its first occurrence (2818-1) should be set to 1 (Commercial Invoice) for the document type. It is the customer’s responsibility to ensure that the uploaded document matches the valid value set for this Field ID.</td>
</tr>
</tbody>
</table>

*Table 4-1: 049 Pre-Shipment Document Upload Request Fields (Continued)*
### Table 4-1: 049 Pre-Shipment Document Upload Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ETD Document Filename</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2819-#</td>
<td>Min=1 Max=255</td>
<td>AKE</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td>REQUIRED in 049/149 Pre-Shipment Upload Optional in 020/120 Global Ship Transaction This field contains the fully qualified filename of the document to be uploaded, including the valid path where this document is located. Note: The maximum length for an Electronic Trade Documents filename is 30 characters.</td>
</tr>
<tr>
<td><strong>ETD Wait for Confirmation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2820</td>
<td>Max=1</td>
<td>A</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>Optional Flag to indicate if customer wants to wait for a confirmation from the back-end system that a customs document was uploaded successfully. This Field ID takes precedence over the configuration when passed in a transaction if there is a conflict between the transaction and the configuration settings. Valid values: Y — Wait for Confirmation (equates to “Required” in the configuration) N — Do Not Wait for Confirmation (equates to “Not Required” in the configuration)</td>
</tr>
<tr>
<td><strong>ETD Document Generation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2821-#</td>
<td>Max=1</td>
<td>A</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>REQUIRED* Flag to indicate if customer wants to override the configuration setting between Customer Generated documents. This Field ID takes precedence over the configuration when passed in a transaction. Valid values are: C — Customer Generated F — FedEx Generated Note: FedEx Generated not available with 049/149 Pre-Shipment Document Upload. Note: This field must be used in conjunction with Fields 2818 and 2819 for all 049/149 Pre-Shipment Document Upload transactions.</td>
</tr>
<tr>
<td><strong>End of Record Indicator</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>Max=0</td>
<td>NULL</td>
<td>I/O</td>
<td>All</td>
<td>All</td>
</tr>
</tbody>
</table>
## 149 Pre-Shipment Document Upload Reply Fields

Table 4-2 lists the fields returned by the 149 Pre-Shipment Document Upload Reply Transaction.

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transaction Code</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Max=3</td>
<td>N</td>
<td>O</td>
<td>All</td>
<td>All Indicates the start of a transaction. For example, 0,”049” or 0,”49” signifies the start of the 049 Pre-Shipment Document Upload Reply Transaction.</td>
</tr>
<tr>
<td><strong>Recipient Country</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Max=2</td>
<td>A</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>Two-digit code indicating the country of the Recipient address.</td>
</tr>
<tr>
<td><strong>Meter Number</strong></td>
<td>Min=1 Max=9</td>
<td>N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>The meter number from the input request returned in the reply.</td>
</tr>
<tr>
<td><strong>Open Ship Index</strong></td>
<td></td>
<td>A/N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>Set to the unique number passed in the CREATE transaction. The value is a unique number per Open Ship shipment per meter and represents the Open Ship Index. *Required for Open Ship. Field 542 is not required if you are simultaneously performing a CREATE or ADD transaction. Simultaneous transactions example: YYNNNNNNNN, which performs a shipment level CREATE and Route/Time-in-Transit transaction. NYNYNNNNNN, which performs a package level ADD and shipment level Route/Time-in-Transit together in the same transaction.</td>
</tr>
<tr>
<td>542</td>
<td>Max=9</td>
<td>A/N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td></td>
</tr>
<tr>
<td><strong>ETD Indicator</strong></td>
<td></td>
<td>I/O</td>
<td></td>
<td>FDXE FDXG</td>
<td>Indicator used to override the ETD flag on the Meter Settings tab. This Field ID takes precedence over the configuration when passed in a transaction. Valid values are: Y — Yes N — Yes Note: If Field ID is not sent, blank, or invalid, then the value on the configuration screen applies.</td>
</tr>
<tr>
<td>2805</td>
<td>Max=1</td>
<td>A</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td></td>
</tr>
<tr>
<td><strong>Document Reference ID</strong></td>
<td>Min=1 Max=40</td>
<td>AKE</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>The unique ID for each Electronic Trade Document from the input request returned in the reply. If the Document Reference ID was not passed in the request, then FXRS will auto-populate this field in the reply. Note: If you create your own Document Reference ID in 049/149 Pre-Shipment Document Upload, it is simpler to link, but if you let FedEx create the link, it will be 40 characters long.</td>
</tr>
</tbody>
</table>
Chapter 4: FedEx Electronic Trade Documents

Reprinting FedEx Generated Documentation

If customers attempt to upload Electronic Trade Documents and they receive a warning message that these documents could not be uploaded, then they must reprint the FedEx Generated documentation for the required reports using one of the following reprint functions:

- 095/195 Label Reprint Request/Reply Transaction

Note: See the FedEx Ship Manager® Server Transaction Coding Reference Guide for detailed information.

- Label Reprint Utility
- Report Viewer Utility

See the “FedEx Ship Manager Server Utilities” chapter in the FedEx Ship Manager® Server Developer Guide for a complete description of FSMS utilities.

---

Table 4-2: 049 Pre-Shipment Document Upload Reply Fields  (Continued)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2818-#</td>
<td>Max=1</td>
<td>N</td>
<td>O</td>
<td>FDXE,FDXG</td>
<td>The type of Electronic Trade Documents from the input request returned in the reply. This field is required to determine what type of document(s) are being electronically uploaded. It is used with the Field 2819 (ETD Document Filename) for Customer Generated documents (Field 2821).</td>
</tr>
<tr>
<td>2819-#</td>
<td>Min=1, Max=255</td>
<td>AKE</td>
<td>O</td>
<td>FDXE,FDXG</td>
<td>The Electronic Trade Documents filename from the input request returned in the reply. Note: The maximum length for an Electronic Trade Documents filename is 30 characters.</td>
</tr>
<tr>
<td>2822-#</td>
<td>Max=2</td>
<td>N</td>
<td>O</td>
<td>FDXE,FDXG</td>
<td>Indicates the status of a document within an Electronic Trade Documents shipment when returned in the Reply transaction for Shipping (120), Pre-Shipment (149) or Shipment Query (124). Valid values are: 01 — Successfully Uploaded 02 — Upload Pending 03 — Upload Unsuccessful 04 — Virus Detected 05 — File too Large 06 — Invalid File Format 07 — Invalid Document Type 08 — Invalid Filename 09 — System Error 10 — Duplicate File</td>
</tr>
<tr>
<td>99</td>
<td>Max=0</td>
<td>NULL</td>
<td>O</td>
<td>All</td>
<td>Indicates the end of a transaction. The format is 99,&quot;&quot; (99 followed by a comma and two quotation marks). All FedEx Ship Manager® Server transactions must end with 99,&quot;&quot;.</td>
</tr>
</tbody>
</table>
020/120 Global Ship Request/Reply Transaction

There are two methods of using the 020/120 Global Ship Transaction:

Method 1: After uploading the Customer Generated shipping documents with the 049/149 Pre-Shipment Document Upload, the 020/120 Global Ship Transaction must process the shipment. The field that links the 049/149 to the 020/120 is Field 2817.

Method 2: Upload Customer and FedEx Generated shipping documents and ship at the same time via the 020/120 Global Ship Transaction.

Note: Please ensure that you clearly specify what customs documentation you are uploading, e.g. Commercial Invoice. Failure to do so will result in no upload and can potentially lead to delayed shipments.

New Fields

Fields for uploading Electronic Trade Documents while shipping are also described in “Field Enhancements” on page 4-17.

- Field 2817 (Document Reference ID); this field is REQUIRED for all 049/149 and 020/120 transactions.
  
  Note: If this field is not used in the transaction, then this will be auto-generated by FSMS. If documentation was previously uploaded with the 049/149 Pre-Shipment Document Upload Request/Reply Transaction, then the document reference ID from that transaction should be passed in the 020 Global Ship Request Transaction. If you create your own Document Reference ID in a 049/149 Pre-Shipment Document Upload, it is simpler to link, but if you let FedEx create the link, it will be 40 characters long.

- Field 2818 (ETD Document Type); this field is REQUIRED for all 049/149 and 020/120 transactions.

- Field 2819 (ETD Document Filename); this field is REQUIRED for all 049/149 and 020/120 transactions for Customer Generated documents.
  
  Note: Fields 2818 and 2819 are required for the 020/120 transaction when uploading Customer Generated documents via the 020/120. They are not required when uploading FedEx Generated documents via the 020/120.
  
  The following optional fields override the configuration settings:

- Field 2820 (ETD Wait for Confirmation)
- Filed 2805 (ETD Indicator)
- Field 2821 (ETD Document Generation)

  Note: The new Field 2821 ETD Document Generation will be used in the 020/120 Global Ship Request/Reply Transactions so customers can identify Customer Generated as the ETD Document Type in case of Multiple Customer Invoices (FedEx Express and FedEx Ground) or Multiple Proforma Invoices (Express). See “Field Enhancements” on page 4-17 for more information.

  Note: The label image will be uploaded at ship time. For Single Piece, Single Shot, Total Piece/Total Weight and Open Ship, the image will be uploaded at Confirm. See “Label Enhancements” on page 4-20 for further information.
### Table 4-3: 020 Global Ship Transaction Request Fields for Electronic Trade Documents Upload and Shipping (in Addition to Basic 020 Global Ship Transaction Fields)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETD Indicator</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2805</td>
<td>Max=1</td>
<td>A</td>
<td>I/O</td>
<td>FDXE FDXG IP IE IF IPF IE IGF</td>
<td>Optional ETD Indicator used to override the ETD flag on the Meter Settings tab. This Field ID takes precedence over the configuration when passed in a transaction. Valid values are: Y — Yes N — No If Field ID is not sent, blank, or invalid, then the value on the configuration screen applies.</td>
</tr>
<tr>
<td>Document Reference ID</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2817-#</td>
<td>Min=1 Max=40</td>
<td>AKE</td>
<td>I/O</td>
<td>FDXE FDXG IP IE IF IPF IEF IG</td>
<td>REQUIRED* Used by customers to indicate a unique ID for each given Electronic Trade Document being uploaded in the transaction. *FXRS auto-populates if not passed in the transaction. Note: If you create your own Document Reference ID in 049/149 Pre-Shipment Document Upload, it is simpler to link, but if you let FedEx create the link, it will be 40 characters long.</td>
</tr>
<tr>
<td>ETD Document Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2818-#</td>
<td>Max=1</td>
<td>N</td>
<td>I/O</td>
<td>FDXE FDXG IP IE IF IPF IEF IG</td>
<td>REQUIRED - in 020/120 Global Ship and 049/149 Pre-Shipment Upload Transactions, if Field 2819 is present in the 049 request transaction. If Field 2818 is not found, then an error will be returned. This field is required to determine what type of document(s) are being electronically uploaded. It is used with the Field 2819 (ETD Document Filename) for Customer Generated documents (Field 2821). Valid values are: 1 — Commercial Invoice 2 — Certificate of Origin 3 — Proforma 4 — Other For multiple documents being uploaded in this transaction, each occurrence of Field 2819 must have a corresponding occurrence of Field 2818 with the valid value set. For example: If the first occurrence of 2819 (such as 2819-1) has the following filename, C:\Folder\CommercialInvoice.txt, then Field 2818 and its first occurrence (2818-1) should be set to 1 (Commercial Invoice) for the document type. It is the customer’s responsibility to ensure that the uploaded document matches the valid value set for this Field ID.</td>
</tr>
</tbody>
</table>
### Table 4-3: 020 Global Ship Transaction Request Fields for Electronic Trade Documents Upload and Shipping (in Addition to Basic 020 Global Ship Transaction Fields) (Continued)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ETD Document Filename</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2819-#</td>
<td>Min=1 Max=255</td>
<td>AKE</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td>IP IE IF IPF IEF IG</td>
<td>REQUIRED in 049/149 Pre-Shipment Upload Optional in 020/120 Global Ship Transaction This field contains the fully qualified filename of the document to be uploaded, including the valid path where this document is located. The maximum length for an Electronic Trade Documents filename is 30 characters.</td>
</tr>
<tr>
<td><strong>ETD Wait for Confirmation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2820</td>
<td>Max=1</td>
<td>A</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>IP IE IF IPF IEF IG</td>
<td>Optional Flag to indicate if customer wants to wait for a confirmation from the backend system that a customs document was uploaded successfully. This Field ID takes precedence over the configuration when passed in a transaction if there is a conflict between the transaction and the configuration settings. Valid values: Y — Wait for Confirmation (equates to “Required” in the configuration) N — Do Not Wait for Confirmation (equates to “Not Required” in the configuration)</td>
</tr>
<tr>
<td><strong>ETD Document Generation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2821-#</td>
<td>Max=1</td>
<td>A</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>IP IE IF IPF IEF IG</td>
<td>REQUIRED* Flag to indicate if customer wants to override the configuration setting between Customer Generated documents. This Field ID takes precedence over the configuration when passed in a transaction. Valid values are: C — Customer Generated F — FedEx Generated Note: FedEx Generated not available with 049/149 Pre-Shipment Document Upload. Note: This field must be used in conjunction with Fields 2818 and 2819 for all 049/149 Pre-Shipment Document Upload transactions.</td>
</tr>
<tr>
<td><strong>End of Record Indicator</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>Max=0</td>
<td>NULL</td>
<td>I/O</td>
<td>All</td>
<td>All</td>
<td>REQUIRED Indicates the end of a transaction. The format is 99,”” (99 followed by a comma and two quotation marks). All FedEx Ship Manager® Server transactions must end with 99,””</td>
</tr>
</tbody>
</table>
Chapter 4: FedEx Electronic Trade Documents

Transaction Samples


020 Shipping Transaction with Upload of FedEx Generated Commercial Invoice / ETD Doc type (Field 2818) = Commercial Invoice / ETD Document Generation (Field 2821) = FedEx Generated / ETD Wait for Confirmation (Field 2820) = Yes / FedEx provides Document Reference ID (Field 2817) in Reply


020 Shipping Transaction for 3 piece MPS shipment with Upload of Customer Generated Commercial Invoice / ETD Doc type (Field 2818) = Commercial Invoice / FedEx provides Document Reference ID (Field 2819) = C:\1061 UAT DOCS\ETD Wait for Confirmation (Field 2820) = Yes


020 Shipping Transaction for Single Shot shipment with Upload of FedEx Generated Commercial Invoice / ETD doc type (Field 2818) = Commercial Invoice / FedEx provides Document Reference ID (Field 2817) in Reply / ETD Documentation Generation (Field 2821) = FedEx Generated / ETD Wait for Confirmation (Field 2820) = Yes


020 Shipping Transaction for Single Shot shipment with Customer Generated Commercial Invoice / ETD doc type (Field 2818) = Commercial Invoice / FedEx provides Document Reference ID (Field 2817) in Reply / ETD Documentation Generation (Field 2821) = Customer Generated / ETD Wait for Confirmation (Field 2820) = Yes


Invalid Transactions

Invalid Service Types

If the customer attempts to ship an International Express or International FedEx Ground Shipment via the 020 Global Ship Request Transaction, and an invalid service type is set in Field 1274 that does not support ETD, and has already pre-uploaded documents via the 049/149 Pre-Shipment Document Upload Transactions, or attempts to upload a document in the shipping transaction, and all International Express or International FedEx Ground Shipping data provided in the transaction is valid, then Error Message 2648, “Electronic Trade Document Upload is not available for the service selected” is returned, and the transaction is successful; however, ETD functionality is ignored.
ETD Upload Not Allowed from Origin or to Destination Country

If the customer is attempting to upload shipping documents using the 020 Global Ship Request Transaction, and either the Use ETD checkbox is selected on the Meter Settings tab, or the ETD Indicator Field 2805 is passed in the transaction, and the recipient country is not allowed for ETD Document Upload (the country is set to N in the Import column of the country.dat file), and all other transaction inputs are valid for international shipping, then Error Message 2649, “Electronic Trade Document Upload is not available from origin or to destination. Please print shipping documents and attach to shipment,” is returned, and the transaction fails.

If the customer is attempting to upload shipping documents using the 020 Global Ship Request Transaction, and the Use ETD checkbox is not selected on the Meter Settings tab, and all other transaction inputs are valid for international shipping, then Error Message 2649, “Electronic Trade Document Upload is not available from origin or to destination. Please print shipping documents and attach to shipment,” is returned, and the transaction fails.

Special Services Dangerous Goods and Dry Ice Not Allowed

If the customer attempts to process an International Express or International FedEx Ground Electronic Trade Document shipment using the 020 Global Ship Request Transaction, and either the Use ETD checkbox is selected on the Meter Settings tab or Field 2805 (ETD Indicator) is passed in the transaction, and passes in any field related to Dangerous Goods (DG) or Dry Ice, and all other transaction inputs are valid for international shipping, then Error Message 2652, “Electronic Trade Document Upload cannot be processed with DG or Dry Ice. Please print shipping documents and attach to shipment,” is returned. Hazardous Materials are not supported for ETD shipments.

Maximum Filename Size Exceeded

If the customer attempts to upload shipping documents using the 049/149 Pre-Shipment Document Upload Transaction, and Field 2819 is sent with a filename greater than 30 characters, and all other Pre-Shipment Document Upload transaction data is valid, then the error message, “Electronic Trade Document Upload cannot be processed. Filename exceeds maximum character length allowed,” is returned, and the transaction fails.

Maximum Document File Size Exceeded

If the customer attempts to process an International Express or International FedEx Ground ETD shipment using the 020 Global Ship Request Transaction, and the customer has passed in the filename and path of a document file that exceeds the 1 MB file limit, or multiple files where each one exceeds the 1 MB file limit, or multiple files where each one exceeds the 1 MB file limit, and all other transaction inputs are valid for international shipping, then the transaction is successful but the customer receives Message 2659, "The Document File Size of 1 or more documents uploaded exceeds the file size limit. Please print shipping documents and attach to shipment."

Invalid File Path

If the customer attempts to upload shipping documents using the 049/149 Pre-Shipment Document Upload Transaction, and either the Use ETD checkbox is checked on the Meter Settings Tab or Field 2808 is set to ETD Indicator, and Field 2819 is sent with an invalid path or is blank, and all other Pre-Shipment Document Upload transaction data is valid, then the error message, “Electronic Trade Document Upload cannot be processed without a valid file path. Please print shipping documents and attach to shipment,” is returned.

Exceeding Maximum Filename Size

If the customer attempts to upload shipping documents using the 049/149 Pre-Shipment Document Upload Transaction, and Field 2819 is sent with a filename greater than 30 characters, and all other Pre-Shipment Document Upload transaction data is valid, then the error message, “Electronic Trade Document Upload cannot be processed. Filename exceeds maximum character length allowed,” is returned, and the transaction fails.

FedEx Express - Document vs. Commodity Shipments

FedEx Electronic Trade Documents are not supported for document shipments with no commercial value for FedEx Express International shipments and FedEx Ground shipments.
Chapter 4: FedEx Electronic Trade Documents

Exceeding Maximum Document Size
The maximum document size is 1 MB. If the document exceeds the established maximum document size, then the customer is notified and the document is not uploaded.

ETD Upload Not Allowed from Origin or to Destination Country
If the customer attempts to upload either a FedEx Generated or Customer Generated Commercial Invoice, Certificate of Origin (COO), Proforma, or other document using the 049/149 Pre-Shipment Document Upload Request/Reply or the 020/120 Global Ship Request/Reply Transaction, and the origin meter country is set to N and/or the destination country is set to N in the country.dat file, and all transaction data is valid, then Error Message 2649, “Electronic Trade Document Upload is not available from origin or to destination. Please print shipping documents and attach to shipment,” is returned, and the transaction fails.

Future Day Shipment
• The number of days in which a customer can plan Future Day shipping is limited to 10 days. Extended Future Day functionality is not supported for ETD shipping. If the customer attempts to upload ETD documents in a 020 Global Ship Request Transaction, and either the Use ETD checkbox is checked on the Meter Settings tab, or Field 2805 (ETD Indicator) is set to Y, and Field 24 (Ship Date) is set for a Future day greater than 10 days from the current system date, and all other transaction inputs are valid, then Error Message 2661, “Electronic Trade Document Upload for Future Day Shipping is only allowed 10 days in advance. Please print shipping documents and attach to shipment,” is returned.

070/170 Meter Query or Configuration Request/Reply Transaction

New Optional Fields
This section describes how to use the new optional fields:
• 2805 ETD Indicator
• 2820 ETD Wait for Confirmation
• 2821 ETD Document Generation

Note: New fields related to the 070/170 Meter Query or Configuration Request/Reply Transaction for ETD are described in “Field Enhancements” on page 4-17.

In an 070 Meter Query or Configuration Request, if Field 556 (Process Request Code) is set to 2 - List Meter Information for a meter number, then the 170 Meter Query or Configuration Reply returns the new Field 2805 (ETD Indicator) set to Y if the ETD Allowed checkbox is checked on the Meter Settings tab.
In an 070 Meter Query or Configuration Request, use the new Field 2821 (ETD Document Generation) with Field 1373 (Report Code) to update the Customer Generated or FedEx Generated option. Update the configuration of each of the following reports with the report code needed for Field 1373 (Report Code):

- 006 — U.S. International Commercial Invoice
- 050 — FedEx Express Proforma Invoice
- 051 — FedEx Express Certificate of Origin

In an 070 Meter Query or Configuration Request, you can update the Use ETD indicator and the Wait for Confirmation options on the Meter Settings tab.

- To update the Use ETD Indicator, set Field 556 (Process Request Code) to 3 - Update Vendor / SSP Data Capture information for statistical information and set the new Field 2805 (ETD Indicator) set to Y.
- To update the Wait for Confirmation option, set Field 556 (Process Request Code) to 3 - Update Vendor / SSP Data Capture information for statistical information and set the new Field 2820 (ETD Wait for Confirmation) to either Y or N.

### Field Enhancements

**New Transaction Fields**

New ETD fields are described in Table 4-3.

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ETD Indicator</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Transactions: 020/120 Global Ship, 049/149 Pre-Shipment Document Upload, 070/170 Meter Query</strong></td>
</tr>
<tr>
<td>2805</td>
<td>Max=1</td>
<td>A</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td>IP IE IF IPF IEF IG</td>
</tr>
<tr>
<td><strong>Document Reference ID</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Transactions: 020/021 Global Ship Request, 024/124 Shipment Query, 049/149 Pre-Shipment Document Upload</strong></td>
</tr>
<tr>
<td>2817-#</td>
<td>Min=1 Max=40</td>
<td>AKE</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td>IP IE IF IPF IEF IG</td>
</tr>
</tbody>
</table>
### Table 4-4: ETD New Fields (Continued)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETD Document Type</td>
<td>Transactions: 049/149 Pre-Shipment Document Upload</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2819-#</td>
<td>Max=1</td>
<td>N</td>
<td>I/O</td>
<td>FDXE FDXG</td>
<td>IP IE IF IPF IEF IG</td>
</tr>
<tr>
<td>ETD Document Filename</td>
<td>Transactions: 020/120 Global Ship, 049/149 Pre-Shipment Document Upload</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2819-#</td>
<td>Min=1 Max=255</td>
<td>AKE</td>
<td>I/O</td>
<td>FDXE</td>
<td>FDXG</td>
</tr>
<tr>
<td>ETD Wait for Confirmation</td>
<td>Transactions: 020/120 Global Ship, 049/149 Pre-Shipment Document Upload, 070/170 Meter Query</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2820</td>
<td>Max=1</td>
<td>A</td>
<td>I</td>
<td>FDXE</td>
<td>FDXG</td>
</tr>
</tbody>
</table>
Modified Transaction Fields

Modified ETD fields are shown in Table 4-4.

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipmen...</th>
</tr>
</thead>
<tbody>
<tr>
<td>2821-#</td>
<td>Max=1</td>
<td>A</td>
<td>I</td>
<td>IP FDXE FDXG</td>
<td>REQUIRED*</td>
</tr>
<tr>
<td>2822-#</td>
<td>Max=2</td>
<td>N</td>
<td>O</td>
<td>IP FDXE FDXG</td>
<td></td>
</tr>
</tbody>
</table>

Table 4-5: ETD Modified Fields

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipmen...</th>
</tr>
</thead>
<tbody>
<tr>
<td>499</td>
<td>Max=2</td>
<td>N</td>
<td>I</td>
<td>All FDXE FDXG</td>
<td>REQUIRED</td>
</tr>
</tbody>
</table>

Note: FedEx Generated not available with 049/149 Pre-Shipment Document Upload.

Note: This field must be used in conjunction with Fields 2818 and 2819 for all 049/149 Pre-Shipment Document Upload transactions.
Chapter 4: FedEx Electronic Trade Documents

Label Enhancements

Note: The number of labels processed per second may be fewer when ETD is selected.

- The ASTRA Shipping label is printed for all shipment label types supported within FSMS. This label is affixed to the package for routing.
- The Air Waybill (AWB for FedEx Express only) label (for Thermal only) is printed for all ETD shipments.
- The new folder storage location for ETD labels is `Fedex\Fedex_ETDLabels`.
- The PDF filename includes the tracking number. FedEx Ship Manager Server supports the following new Form IDs for ETD:
  - International ETD Master = 0488
  - TPC Consignee and ETD = 0489
- FedEx Ship Manager Server generates PDF label buffers for the file image, regardless of the label type the customer has specified to use for shipping/printing (thermal, thermal image on plain paper, plain paper, or custom).

Note: Asia and Asia Pacific origin shipments shall have the label image uploaded for ETD shipments. This control of enabling label image upload is managed at the country level.

---

**Table 4-5: ETD Modified Fields (Continued)**

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Date Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Pre-Shipment Document Upload Request Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracking Form ID</td>
<td>Transactions: 104 Tracking Number Reply, 120 Global Ship Reply</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>526</td>
<td>Max=4</td>
<td>N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>All</td>
</tr>
<tr>
<td>Special Service Accessorial Name</td>
<td>Transactions: 150 Service Types and Special Services Reply, 049/149 Pre-Shipment Document Upload</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1990</td>
<td>Max=75</td>
<td>A</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>----</td>
</tr>
</tbody>
</table>

Note: Asia and Asia Pacific origin shipments shall have the label image uploaded for ETD shipments. This control of enabling label image upload is managed at the country level.
• The human-readable ETD shipment type displays on the FedEx Ground shipping labels and FedEx Express shipping labels, as shown in Figure 4-4 and Figure 4-5 for ETD shipments. Labels types supports for International FedEx Ground shipments are as follows:
  – Thermal Labels
  – Thermal Image on Plain Paper
  – Plain Paper

![FedEx International Ground ETD Shipping Label](image)

Figure 4-4: FedEx International Ground ETD Shipping Label

• Support for a flag/indicator within the FedEx Ground 2D bar code provides visibility and ease of downstream recognition of FedEx Electronic Trade Documents shipments by contractors and operations. This applies to all the label types supported for International Ground shipments. See Figure 4-5.
Chapter 4: FedEx Electronic Trade Documents

Figure 4-5: FedEx Express International Priority ETD Label

LEGAL TERMS AND CONDITIONS OF FEDEX SHIPPING DOCUMENTS: On FedEx Waybill, "YOU" and "YOUR" refer to the shipper, its employees, principals and agents. If your shipment originates outside the United States, your contract of carriage is with the FedEx subsidiary, branch or independent contractor who originally accepts the shipment from you. The term "package" means any container or envelope that is accepted by you for delivery, including any such items tendered to you unaccompanied systems, meters, mailboxes or mailbags. The term "shipper" means all packages which are addressed to and accepted by you as a single Air Waybill. Air Waybill is issued or issued. This is the contract of carriage. The contract of carriage is subject to the terms and conditions of the Air Waybill and the rating and shipping documents you have completed and returned to FedEx. Any clothing, suit or other personal items, including but not limited to clothing, personal effects or jewelry are excluded. If any insurance coverage is required, the shipper is required to provide insurance information in connection with the air waybill along with the air waybill. The insurance coverage is at the option of the shipper and is at the sole expense of the shipper. The shipper is solely responsible for any insurance claims. The insurance coverage is at the sole expense of the shipper. The insurance coverage is at the sole expense of the shipper. The insurance coverage is at the sole expense of the shipper. The insurance coverage is at the sole expense of the shipper. The insurance coverage is at the sole expense of the shipper. The insurance coverage is at the sole expense of the shipper.
Report Enhancements

Report Settings

FedEx Ship Manager Server added new **Customer Generated** and **FedEx Generated** radio buttons, as shown in Figure 4-6, on the Report Settings tab for affected FedEx Ground Reports, FedEx Ground Commercial Invoices, and FedEx Ground NAFTA Commercial Invoices.

Note: In order to include your letterhead image and signature image, enter the paths and select default images. The letterhead image and digital signature can be overridden by Fields 6113 and 6114. For International Commercial Invoice, Proforma Invoice and International Certificate of Origin reports, you can specify a custom letterhead and a digital signature by choosing graphics files (PNG, TIF, JPEG, JPG).

![Figure 4-6: Report Settings Tab with Customer Generated and FedEx Generated Radio Buttons](image-url)
Chapter 4: FedEx Electronic Trade Documents

Note: You will not see the FedEx® Electronic Trade Document options unless you have selected **Electronic Trade Document Enabled** on the **Meter Settings** tab.

Note: Only Customer Generated documents are an option for the 049/149 Pre-Shipment Document Upload Transaction.

- **Customer Generated** - lets customers configure the FSMS device for using their own Customer Generated report instead of using FedEx Generated reports.

- **FedEx Generated** - lets customers configure the FSMS device for using a FedEx Generated report, instead of using their own Customer Generated reports. The **FedEx Generated** radio button can be selected to enable the following fields:
  - Report Format
  - Paper Type
  - Copies
  - Commercial Invoice Company Letterhead Header
  - Digital Letterhead Image Path
  - Digital Letterhead Image
  - Digital Signature Image Path
  - Digital Signature Image

- The **Copy to All Meters** button applies to meters only when the **ETD Allowed** checkbox on the **Meter Settings** tab is selected.

- The **Copy to All Reports** button applies only when the **ETD Allowed** checkbox is selected and a valid report type is selected.

**FedEx Ground Batch Upload Failure Report**

FedEx Ship Manager Server has added support for printing an offline FedEx Ground Batch Failure System Delivery Shipment report for Ground and identifying shipments in which the electronic document upload failed when batch uploading, as shown in **Table 4-6**.

Note: FedEx Ship Manager Server customers print this report for their own use.

Note: FedEx Ship Manager Server produces these reports at the end of the day after the close.

<table>
<thead>
<tr>
<th>Header Detail Data Elements</th>
<th>Data to Display</th>
<th>Comments/Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report Name</td>
<td>FedEx Ground Batch Upload Failure Report</td>
<td>The report name is displayed centered on each page in the report header.</td>
</tr>
<tr>
<td>Date Range</td>
<td>MM/DD/YYYY - MM/DD/YYYY</td>
<td>The date range is displayed to the far left on each page in the report header.</td>
</tr>
<tr>
<td>Software Version</td>
<td>FXRSXXXX</td>
<td>XXXX = software version number</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The software version is displayed to the right of the report name on each page in the report header.</td>
</tr>
<tr>
<td>Page Number</td>
<td>Page x</td>
<td>x = page number</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The page number is displayed to the far right of the report name on each page in the report header.</td>
</tr>
</tbody>
</table>

The data listed in **Table 4-6** is printed on the report with a single space between each column.
FedEx Express Batch Upload Failure Report

FedEx Ship Manager Server has added support for printing an offline FedEx Express Batch Failure System Delivery Shipment report, identifying shipments in which the electronic document upload failed when batch uploading, as shown in Table 4-8.

Note: FedEx Ship Server Manager customers print this report and give it to the courier.
Note: FedEx Ship Manager Server produces these reports at the end of the day after the close.

Table 4-7: FedEx Ground Batch Failure System Delivery Shipment Report Data - Part 2

<table>
<thead>
<tr>
<th>Data Elements (Body of Report)</th>
<th>Column Name on Report</th>
<th>Field Length/Type</th>
<th>Comments/Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Tracking #</td>
<td>TRACKING #</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Sender Contact</td>
<td>SENDER CONTACT</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Sender Company</td>
<td>SENDER COMPANY</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Sender Phone #</td>
<td>PHONE</td>
<td>10</td>
<td>No formatting on the phone number; this is the sender phone number.</td>
</tr>
<tr>
<td>Department</td>
<td>DEPT</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Document Type</td>
<td>DOC TYPE</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Table 4-8: FedEx Express Batch Failure Delivery Shipment Report Data - Part 1

<table>
<thead>
<tr>
<th>Header Detail Data Elements</th>
<th>Data to Display</th>
<th>Comments/Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report Name</td>
<td>FedEx Ground Batch Upload Failure Report</td>
<td>The report name is displayed centered on each page in the report header.</td>
</tr>
<tr>
<td>Date Range</td>
<td>MM/DD/YYYY - MM/DD/YYYY</td>
<td>The date range is displayed to the far left on each page in the report header.</td>
</tr>
<tr>
<td>Software Version</td>
<td>FXRSXXXX</td>
<td>XXXX = software version number</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The software version is displayed to the right of the report name on each page in the report header.</td>
</tr>
<tr>
<td>Page Number</td>
<td>Page x</td>
<td>x = page number</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The page number is displayed to the far right of the report name on each page in the report header.</td>
</tr>
</tbody>
</table>

The data listed in Table 4-9 is printed on the report with a single space between each column.

Table 4-9: FedEx Express Batch Failure Delivery Shipment Report Data - Part 2

<table>
<thead>
<tr>
<th>Data Elements (Body of Report)</th>
<th>Column Name on Report</th>
<th>Field Length/Type</th>
<th>Comments/Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Tracking #</td>
<td>TRACKING #</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Sender Contact</td>
<td>SENDER CONTACT</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Sender Company</td>
<td>SENDER COMPANY</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>
FedEx Ship Manager Server produces these reports at the end of day when the close function runs.

<table>
<thead>
<tr>
<th>Data Elements (Body of Report)</th>
<th>Column Name on Report</th>
<th>Field Length/Type</th>
<th>Comments/Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sender Phone #</td>
<td>PHONE</td>
<td>10</td>
<td>No formatting on the phone number; this is the sender phone number.</td>
</tr>
<tr>
<td>Department</td>
<td>DEPT</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Document Type</td>
<td>DOC TYPE</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>
CHAPTER 5: INTERNATIONAL FEDEX EXPRESS EXPANSION

FedEx Express® services previously available only in the United States are now available in Mexico for domestic service, and includes FedEx First Overnight®, FedEx Priority Overnight®, and FedEx Standard Overnight®. Enhancements include:

- “Rates and Shipment Value” on page 5-1
- “Delivery Area Surcharges” on page 5-1
- “Mexican Impuesto de Valor Agregado Tax” on page 5-3
- “Reports” on page 5-3
- “Special Services” on page 5-3
- “Restrictions” on page 5-4
- “Label Configuration Settings” on page 5-4
- “Transaction Sample” on page 5-6
- “Field Updates” on page 5-6

In addition, to support the automation functionality, a new `country.dat` file with the Intra Country Route flag turned on for Mexico (column 15) has been implemented.

Rates and Shipment Value

The default currency is the New Mexican Peso (NMP). If a customer attempts to ship within the 020 Global Ship Request Transaction with Field 68 (Customs Currency Type) or Field 1090 (Declared Value/Rate Currency Type) blank or set to something other than NMP, then the default value of New Mexican Peso is used.

The maximum declared value of a shipment must not exceed 550,000 NMP, and the maximum declared value of an envelope must not exceed 5,500 NMP.

If a customer attempts to ship within the 020 Global Ship Request Transaction with Field 1274 (Service Type) set to either 06 (First Overnight), 01 (Priority Overnight), or 05 (Standard Overnight) and with Field 69 (Declared Value/Carriage Value) set to a value greater than 550,000 NMP, then Error Message 0318, “The declared value limit for this service type has been exceeded,” is returned in the 120 Reply, and the transaction fails.

Delivery Area Surcharges

FedEx Ship Manager Server applies residential Delivery Area Surcharges (DAS).

020/120 Global Ship Transaction

An 020 Global Ship Request may be made with either Dynamic Surcharging turned on or off. Turn Dynamic Surcharging on by checking the Use Dynamic Surcharging checkbox on the System Settings tab, as shown in Figure 5-1. Output replies differ, depending upon whether Dynamic Surcharging is configured or not.

Note: All examples assume that the origin and/or destination are within a Delivery Area Surcharge (DAS) tier.

If a customer is attempting to ship a Domestic Mexico shipment via the 020 Global Ship Request, then Field 1947 (Dynamic Surcharge Code) and Field 1945 (List Dynamic Surcharge Code) are both returned with the code 740.
If a customer is attempting to ship a Domestic Mexico shipment via the 020 Global Ship Request and passes in Field 1234 (Rate Route/Time in Transit Flag) set to position 1 (Rate Quote) or 3 (Rate/Route), then Field 1947 (Dynamic Surcharge Code) and Field 1945 (List Dynamic Surcharge Code) are both returned with the code 740.

If a customer is attempting to rate a Domestic Mexico shipment via the 020 Global Ship Request and passes in Field 541 (Open Ship Flags) with position 3 (Rate) set to “Y”, then Field 1947 (Dynamic Surcharge Code) and Field 1945 (List Dynamic Surcharge Code) are both returned with the code 740.

Figure 5-1: System Settings Tab, Dynamic Surcharging
**025/125 Rate Available Services Transaction**

Note: Dynamic Surcharging is not available in the 025/125 Rate Available Services Transaction.

If a customer is attempting to rate a Domestic Mexico shipment via the 025 Rate Available Services Request Transaction and passes in Field 1234 (Rate/Route/Time-in-Transit Flag) set to position 1 (Rate Quote) or 3 (Rate/Route), then Fields 1758 (Mexico IVA Tax) and 1757 (List Mexico IVA Tax) are returned.

**Mexican Impuesto de Valor Agregado Tax**

FedEx Ship Manager Server applies the Mexican Impuesto de Valor Agregado (IVA) tax. The amount varies depending upon whether the destination is a border or non-border state.

**020/120 Global Ship Transaction**

If a customer is attempting to ship a Domestic Mexico shipment via the 020 Global Ship Request, then Fields 1758 (Mexico IVA Tax) and 1757 (List Mexico IVA Tax) are returned.

If a customer is attempting to ship a Domestic Mexico shipment via the 020 Global Ship Request and passes in Field 1234 (Rate Route/Time in Transit Flag) set to position 1 (Rate Quote) or 3 (Rate/Route), then Fields 1758 (Mexico IVA Tax) and 1757 (List Mexico IVA Tax) are returned.

If a customer is attempting to rate a Domestic Mexico shipment via the 020 Global Ship Request and passes in Field 541 (Open Ship Flags) with position 3 (Rate) set to Y, then Fields 1758 (Mexico IVA Tax) and 1757 (List Mexico IVA Tax) are returned.

**Reports**

The following report codes are now being used for Mexico.

- 024 — Domestic Shipment Report
- 025 — Domestic Courier Report
- 049 — Domestic EOD Transout

Use these report codes with Field 1373 (Report Code) in an 070 Meter Query Configuration Request or, if available, configure the reports manually under the Report Settings tab.

**Special Services**

Many services are the same as exist with FedEx Express service:

- Only Saturday Pickup and Hold at Location (HAL) are supported in Mexico.
- Hold at Location
- Billing options: Bill to Sender account, Bill to Recipient and Third Party account
- Multi Piece Shipments can include up to 9,999 pieces
- Future Day shipments are limited to 10 days in advance, unless the Extended Future Day feature is enabled
- E-Mail notifications
Chapter 5: International FedEx Express Expansion

Restrictions

These special services are not allowed:

- Signature release is not available. If a customer passes in Field 2399 (Signature Required Type) set to any position other than 0 (Not Present), then the value defaults back to position 0 (Not Present).
- Some Packaging types are not supported: 02 (FedEx® Pak), 03 (FedEx Box) and 04 (FedEx® Tube).
- FedEx® Envelopes are not supported as a packaging type in Multiple Piece Shipments.
- Dangerous goods, alcohol, dry ice, and cut flower shipments are not allowed.
- Broker Select and C.O.D. and options are not available.

Label Configuration Settings

To enable FedEx Express domestic Mexico shipping labels, select the Express (Intra MX) button on the Doc-Tab Settings tab. This option will only be displayed on Mexico enabled meters. See Figure 5-2.

The default currency is the New Mexican Peso (NMP) and all rates are returned in NMP only.

The date format/preferences and the decimal formats remain as currently established for Mexico origins.

The state is an optional field in the delivery and sender addresses when shipping within Mexico. The Postal code is required however.
Figure 5-2: Doc-Tab Settings Tab
**Transaction Sample**

**020 Global Shipment Request**

Intra-Mexico shipment for FedEx Priority Overnight

```
```

```
```

**Field Updates**

**New Fields**

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1758</td>
<td>Max=11.2</td>
<td>N</td>
<td>O</td>
<td></td>
<td></td>
<td>Returns the Mexico IVA tax when applicable. Valid values: Positive amounts only. The Field length is an explicit two decimal places.</td>
</tr>
<tr>
<td>1757</td>
<td>Max=11.2</td>
<td>N</td>
<td>O</td>
<td></td>
<td></td>
<td>Returns the List Mexico IVA tax when applicable. Valid values: Positive amounts only The Field length is an explicit two decimal places.</td>
</tr>
</tbody>
</table>
## Modified Fields

### Table 5-2: Modified Fields

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Transactions: 020 Global Ship Request, 070 Meter Query Configuration Request, 095 Label Reprint Request</td>
</tr>
<tr>
<td>1373</td>
<td>Max=3</td>
<td>N</td>
<td>I</td>
<td>FDXE FDXG FDXS</td>
<td>INTL</td>
<td>INTL 24 — CA and MX Domestic Shipment Report INTL 25 — CA and MX Domestic Courier Report INTL 49 — CA and MX Domestic EOD Transout (to file only)</td>
</tr>
<tr>
<td>List Dynamic Surcharge Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Transactions: 120 Global Ship Reply</td>
</tr>
<tr>
<td>1945-#</td>
<td>Min=3 Max=5</td>
<td>N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>All</td>
<td>740 — Mexico IVA Tax 740 — List Mexico IVA Tax This field and Field 1947 (Dynamic Surcharge) are returned in the 120 Reply or the 125 Reply when the List Rates checkbox on the Meter Settings tab is selected.</td>
</tr>
<tr>
<td>Dynamic Surcharge Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Transactions: 120 Global Ship Reply</td>
</tr>
<tr>
<td>1947-#</td>
<td>Min=3 Max=5</td>
<td>N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>All</td>
<td>740 — Mexico IVA Tax 740 — List Mexico IVA Tax This field and Field 1945 (List Dynamic Surcharge) are returned in the 120 Reply or the 125 Reply when the List Rates checkbox on the Meter Settings tab is selected.</td>
</tr>
<tr>
<td>Doc-Tab Values</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Transactions: 070 Meter Query or Configuration Request</td>
</tr>
<tr>
<td>3121</td>
<td>Max=4</td>
<td>N</td>
<td>I</td>
<td>FDXE FDXG</td>
<td>All</td>
<td>Optional 740 — Mexico IVA Tax 740 — List Mexico IVA Tax</td>
</tr>
</tbody>
</table>
CHAPTER 6:  RATING ENHANCEMENTS

To provide customers with the most competitively priced shipping options, FedEx® has updated the methods used to calculate pricing. FedEx announced rates and pricing changes, effective in January 2010. For details on these upcoming changes, go to: dmz.fedex.com/us/rates2010. Included is the change from one flat delivery surcharge tier to five graduated tiers for calculating delivery area surcharges.

Enhancements include:
- “Delivery Surcharge Tier Changes” on page 6-1
- “Discounted Fuel Surcharge Change for Ground” on page 6-4

Delivery Surcharge Tier Changes

The delivery area surcharge (DAS) for FedEx Express® U.S., FedEx Ground® and FedEx Home Delivery® to remote, sparsely populated, or geographically difficult to access locations is changed to five tiered levels of delivery surcharge. Each tier works the same as the previous DAS functionality, except that each tier has its own independent price points, multweight transaction caps, discounts, and ZIP codes. The new DAS tiers fall into commercial and residential categories. Commercial has five tiers, as does residential.

The existing 020/120 Global Ship Transaction and the 025/125 Rate Available Service Transaction are affected by this change.

020/120 Global Ship Transaction

An 020 Global Ship Request may be made with either Dynamic Surcharging turned on or off. Dynamic Surcharging is configured (turned on) if the List Rates checkbox on the Meter Settings tab under the Express Section is selected. Output replies will differ depending upon whether Dynamic Surcharging is configured or not.

Dynamic Surcharge Configured Examples
Note: All examples assume that the origin and/or destination are within a DAS tier.

If a customer is attempting to rate a FedEx Express U.S., FedEx Ground U.S. or FedEx Ground® International shipment via the 020 Global Ship Request and they pass in Field 1234 (Rate Route/Time in Transit Flag) set to position 1 (Rate Quote) or 3 (Rate/Route) or Field 3062 (Rate Quote Type) set to position 2 (List Rates and Discount Rates), then Field 1947 (Dynamic Surcharge Code) and Field 1945 (List Dynamic Surcharge Code) will be returned with the appropriate code for the Delivery Surcharge Area tier.

If a customer is attempting to rate a FedEx Express U.S., FedEx Ground U.S. or FedEx Ground International shipment via the 020 Global Ship Request and passes in Field 541 (Open Ship Flags) with position 3 (Rate) set to Y or Field 3062 (Rate Quote Type) set to position 2 (List Rates and Discount Rates), then Field 1947 (Dynamic Surcharge Code) and Field 1945 (List Dynamic Surcharge Code) will be returned with the appropriate code for the Delivery Surcharge Area tier.

Dynamic Surcharge Not Configured Examples
Note: All examples assume that the origin and/or destination are within a DAS tier.

If a customer is attempting to ship an FedEx Express U.S., FedEx Ground U.S. or FedEx Ground International request in the 020 Global Ship Request and passes in Field 3062 (Rate Quote Type) set to position 2 (List Rates and Discount Rates) or Field 1234 (Rate Route/Time in Transit Flag) set to position 1 (Rate Quote) or 3 (Rate/Route), then Field 554 (Delivery Area Surcharge) and Field 1522 (List Delivery Area Surcharge) will be returned with an amount. Field 1998 (Delivery Area Surcharge Description) will also be returned.

If a customer is attempting to rate an FedEx Express U.S., FedEx Ground U.S. or FedEx Ground International shipment via the 020 Global Ship Request and passes in Field 541 (Open Ship Flags) with position 3 (Rate) set to Y or Field 3062 (Rate Quote Type) set to position 2 (List Rates and Discount Rates), then Field 554 (Delivery Area Surcharge) and Field 1522 (List Delivery Area Surcharge) will be returned with an amount. The type of Delivery Area Surcharge, Field 1998 (Delivery Area Surcharge Description) will also be returned.
025/125 Rate Available Service

Note: Dynamic surcharging is not supported in the 125 Rate Available Service Reply.

Customers can obtain rating information including Delivery Area Surcharge within the 025 Rate Available Service Request.

If a customer is attempting to rate an FedEx Express U.S., FedEx Ground U.S. or FedEx Ground International shipment via the 025 Rate All Services Transaction and passes in Field 1234 (Rate Route/Time in Transit Flag) set to position 1 (Rate Quote) or 3 (Rate/Route) or Field 3062 (Rate Quote Type) set to position 2 (List Rates and Discount Rates), then Field 554 (Delivery Area Surcharge) and Field 1522 (List Delivery Area Surcharge) will be returned with an amount. Field 1998 (Delivery Area Surcharge Description) will also be returned.

Field Modifications and Additions

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska Surcharge</td>
<td>Transactions: 120 Global Ship Reply</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>424</td>
<td>Max=11.2</td>
<td>N</td>
<td>O</td>
<td>FDXG</td>
<td>All</td>
<td>Obsolete field Surcharge for shipping to Alaska. FedEx Ground ®only.</td>
</tr>
<tr>
<td>Hawaii Surcharge</td>
<td>Transactions: 120 Global Ship Reply</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>425</td>
<td>Max=11.2</td>
<td>N</td>
<td>O</td>
<td>FDXG</td>
<td>All</td>
<td>Obsolete field Surcharge for shipping to Hawaii. FedEx Ground only.</td>
</tr>
<tr>
<td>List Alaska Surcharge</td>
<td>Transactions: 020/120 Global Ship Request/Reply</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1521</td>
<td>Max=11.2</td>
<td>N</td>
<td>I/O</td>
<td>FDXG</td>
<td>US</td>
<td>Obsolete field Surcharge for Alaska shipping based on courtesy list rates. Two implied decimal places; for example, &quot;100&quot;=$1.00. Only applicable if FedEx Ship Manager® Server (FSMS) client is configured to use list rates.</td>
</tr>
<tr>
<td>List Hawaii Surcharge</td>
<td>Transactions: 120 Global Ship Reply</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1524</td>
<td>Max=11.2</td>
<td>N</td>
<td>O</td>
<td>FDXG</td>
<td>US</td>
<td>Obsolete field Surcharge for Hawaii shipping based on courtesy list rates. Two implied decimal places; for example, &quot;100&quot;=$1.00. Only applicable if FSMS client is configured to use list rates.</td>
</tr>
</tbody>
</table>
### Table 6-1: Delivery Area Surcharge Field Additions and Modifications (Continued)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1945-#</td>
<td>Min=3</td>
<td>N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>All</td>
</tr>
</tbody>
</table>

The following surcharge codes are returned in the 120 Global Ship Reply transaction when applicable:

- **180** — Alaska - Obsolete value
- **200** — Hawaii - Obsolete value
- **501** — Delivery Area Surcharge Commercial
- **502** — Delivery Area Surcharge Extended Commercial
- **503** — Delivery Area Surcharge Alaska Commercial
- **504** — Delivery Area Surcharge Hawaii Commercial
- **505** — Delivery Area Surcharge Intra-Hawaii Commercial
- **506** — Delivery Area Surcharge Residential
- **507** — Delivery Area Surcharge Extended Residential
- **508** — Delivery Area Surcharge Alaska Residential
- **509** — Delivery Area Surcharge Hawaii Residential
- **510** — Delivery Area Surcharge Intra-Hawaii Residential

Note: Field 1947-# and Field 1945 (List Dynamic Surcharge) are returned in the 120 Reply or the 125 Reply when the List Rates checkbox on the **Meter Settings** tab is selected.

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1947-#</td>
<td>Min=3</td>
<td>N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>All</td>
</tr>
</tbody>
</table>

The following surcharge codes may be returned in 120 Global Ship Reply transactions:

- **180** — Alaska - Obsolete value
- **200** — Hawaii - Obsolete value
- **500** — Delivery Area
- **501** — Delivery Area Surcharge Commercial
- **502** — Delivery Area Surcharge Extended Commercial
- **503** — Delivery Area Surcharge Alaska Commercial
- **504** — Delivery Area Surcharge Hawaii Commercial
- **505** — Delivery Area Surcharge Intra-Hawaii Commercial
- **506** — Delivery Area Surcharge Residential
- **507** — Delivery Area Surcharge Extended Residential
- **508** — Delivery Area Surcharge Alaska Residential
- **509** — Delivery Area Surcharge Hawaii Residential
- **510** — Delivery Area Surcharge Intra-Hawaii Residential
Chapter 6: Rating Enhancements

Discounted Fuel Surcharge Change for Ground

Ground rate quotes can now receive the discounted fuel surcharge percent, if applicable.

### Table 6-1: Delivery Area Surcharge Field Additions and Modifications (Continued)

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1998     | Min=30 Max=50 | N         | O            | FDXE FDXG                | All       | Field Level: Shipment  
Delivery area surcharge description.  
Valid values:  
• Delivery Area Surcharge Commercial  
• Delivery Area Surcharge Extended Commercial  
• Delivery Area Surcharge Alaska Commercial  
• Delivery Area Surcharge Hawaii Commercial  
• Delivery Area Surcharge Intra-Hawaii Commercial  
• Delivery Area Surcharge Residential  
• Delivery Area Surcharge Extended Residential  
• Delivery Area Surcharge Alaska Residential  
• Delivery Area Surcharge Hawaii Residential  
• Delivery Area Surcharge Intra-Hawaii Residential  
Note: This Field ID only applied to version 10.6.0 and above.  
Note: Field 1998 is returned in the 120 or 125 Reply when the List Rates checkbox on the Meter Settings tab is not selected. In addition, Field 554 (Delivery Area Surcharge) and Field 1522 (List Delivery Area Surcharge) will also be returned with amounts. |

### Table 6-2: Discounted Fuel Surcharge Field

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Length</th>
<th>Data Type</th>
<th>Input/Output</th>
<th>FedEx Shipping Services</th>
<th>Valid For</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1393</td>
<td>Max=11.2</td>
<td>N</td>
<td>O</td>
<td>FDXE FDXG</td>
<td>All</td>
<td>Fuel surcharge levied for variable fuel costs.</td>
</tr>
</tbody>
</table>
CHAPTER 7: FEDEX SHIP MANAGER SERVER SYSTEM UPGRADES

The chapter provides information about system configuration-related upgrades and changes to the FedEx Ship Manager® Server (FSMS). Enhancements include:

- Virtualization and Clustering (see “Virtualization and Clustering” on page 7-1)
- The addition and expansion of international shipping lanes (see “International Services Expansion” on page 7-1)
- Details on a new product key to promote software efficiency (see “Product Keys” on page 7-2 below)
- Support for a new server (see “Microsoft Windows Server 2008 Supported” on page 7-4)
- Changes in support of reporting software (see “Report Viewer Enhancements” on page 7-4)
- Support for a new printer (see “Zebra ZM400 Bar Code Printer Supported” on page 7-6)

Virtualization and Clustering

Virtualization and Clustering prevent interruptions and improve reliability. Cluster compatibility means redundant servers, so a single point of failure won’t bring your operations to a halt. Virtualization lets you replicate multiple servers on a single machine, requiring less hardware.

Note: A customer must have a pre-configured Cluster installed and configured prior to setting up FedEx Ship Manager Server in their environment.

For more information see the Installation and Configuration Guide section on setting up a Cluster environment.

International Services Expansion

The International Expansion Services enhancements significantly expand the shipping routes available in the FedEx international economy services. Automation changes have been made to allow FSMS to support the processing of new Origin/Destination (O/D) country pairs for the following service types:

- FedEx International Economy® (IE) expanded
- FedEx International Economy Freight (IEF) expanded
- FedEx International Economy DirectDistribution℠ (IED) Service (contract only) expanded

Postal Aware Countries

FedEx Ship Manager Server 10.6.1 now supports the following Postal Aware Countries:

- South Africa (ZA)
- South Korea (KR)
- Russia (RU)
- Turkey (TR)

For a list of Postal Aware Countries and associated format, see “Appendix C” in the Transaction Coding Reference Guide.
Product Keys

Customers either installing the current FSMS release for the first time or upgrading to a new FSMS release will enter a new product key. The product key is HYBTY53MKUH8GMTB. Upon successful validation of the product key, the update proceeds and the product key is stored in FSMS in a designated location and then uploaded to the Web server.

Expired Product Key

If customers attempt to use a product key beyond the encoded expiration date of the key, then the following error message is returned, advising customers that the key is invalid and that they must call customer support to obtain a new key:

“The product key has expired. Enter a valid product key. If the problem persists, contact your software provider.”

There is no limit to the number of failed attempts if the customer continues to try to enter the incorrect key.

Product Key User Interface Updates

During a new installation, upgrade, or clean load of the software from the CD, the customer is prompted for a product key on the modified Password screen. The Product Key screen is shown in Figure 7-1.

![Figure 7-1: Product Key Screen](image-url)
Product Key Validation

Product key validation is initiated when the product key is entered during the software installation. Installation is managed by the Install Shield and the Password screen.

The Password screen includes a new field that prompts for the product key. Once the product key validates, the installation process continues. The product key for FedEx Ship Manager Server 10.6.1 is HYBTY53MKUH8GMTB.

During installation, the System Information screen includes the updates shown in Figure 7-2. For more information, please see the Installation and Configuration Guide.

The product key is valid for three years from general release date of FedEx Ship Manager® Server 10.6.1.

![FedEx Ship Manager Server Console](image)

Figure 7-2: System Information Screen

For more information about how this change affects the FSMS installation procedure, see the FedEx Ship Manager® Server Installation and Configuration Guide.

Microsoft Windows Server 2008 Supported

FedEx Ship Manager Server has added support for the:

- Microsoft Windows Server 2008 Enterprise, 32-bit version

  Note: The FedEx Ship Manager Server v 10.6.1 will be compiled into 32-bit directory to run on a 64-bit machine. FedEx Ship Manager Server installs 32 bits into a directory.
Chapter 7: FedEx Ship Manager Server System Upgrades

- Windows® 2008 Server (32 bit)
- Windows® 2008 Server (64 bit)
- Windows® 7 Business (32 bit)
- Windows® 7 Business (64 bit)
- Windows® 2008 R2 Server (64 bit)

For more information about these changes, see the FedEx Ship Manager® Server Installation and Configuration Guide.

Note: This version of FedEx Ship Manager Server is designed to work best on Windows 2003 and higher. Microsoft ends support for Windows 2000 on July 13, 2010. FedEx recommends that you upgrade to ensure your systems are not at risk. See Microsoft’s website: www.support.microsoft.com/ph/1131.

---

Report Viewer Enhancements

The internal reporting tool in FSMS is now Crystal Reports® 11. All existing reporting capabilities continue their functionality and layout formats.

The report viewer has two new control buttons: PrintSetup and Search, as shown in Figure 7-3.
Figure 7-3: Report Viewer
1. To enable the printer button, click the **PrintSetup** button. The Page Setup window appears, as shown in Figure 7-4.

![Page Setup Window](image)

**Figure 7-4: Report Viewer Printer Options**

2. Uncheck the **No Printer** option under the Printer Options section. This enables the printer.

   Note: Other options such as paper size, orientation, and so on can also be set.

---

**Zebra ZM400 Bar Code Printer Supported**

FedEx Ship Manager Server has made the Zebra ZM400 high-speed label printer the new standard printer.

**Customer Migration**

The Zebra ZM400 high-speed label printer facilitates the migration of customers off the extinct EPL format and onto the ZPL printer format by allowing the customer to test both language formats on the same printer.

**Graphical User Interface Modifications**

The Unimark U550 printer has been removed from the Thermal Type drop-down list on the **Label Settings** tab because FSMS no longer supports that printer model.

For more information about this change, see the *FedEx Ship Manager® Server Installation and Configuration Guide*. 
INDEX

A
Alaska Surcharge 6-2
Ancillary Endorsements 3-16

B
Billing Number 3-13

D
Dangerous Goods
Class/DOT Hazard Class or Division Number 1-19
HazMat Packing Group 1-19
Proper Shipping Name/Department of Transportation (DOT) Shipping Name of Material 1-20
Technical Name 1-18
Dangerous Goods Emergency Phone Number 1-18
Delivery Area Surcharge Description 6-4
Doc-Tab Values 5-7
Download Flag 3-15
Dry Ice Flag 1-19
Dynamic Surcharge Code 3-15, 5-7, 6-3

F
Fuel Surcharge Amount 6-4

H
Handling Charge 3-12
Handling Charge Amount or Percentage 3-11
Handling Charge Application Point 3-11
Handling Charge Type 3-11
Hawaii Surcharge 6-2
Hazardous Materials
020/120 Global Ship Request Field IDs 1-16–1-18
commodity mixtures 1-14
Department of Transportation (DOT) regulations 1-1
forms 1-2
hazardous materials enhancements 2-1
Heading_2
Doc-Tab Settings 3-10

L
List Alaska Surcharge 6-2
List Dynamic Surcharge Code 5-7, 6-3
List Hawaii Surcharge 6-2
List Mexico IVA Tax 5-6

M
Mexico IVA Tax 5-6

N
New License Key 7-2
Non Hazardous Lithium Battery Indicator 1-17

O
Offeror Name (Entity or Person) 1-9, 1-17
ORM-D enhancements 2-1
Other Regulated Materials-Domestic 1-1

P
Package Invoice Number 3-18
Package Purchase Order Number 3-17
Pay Type 3-14

Q
Q Value Printing 2-1

R
Reference Information 3-15
Report Code 5-7
RMA Number 3-15
Index

S

Ship Date 3-8
SmartPost
  Delivery Confirmation Service Surcharge 3-13
  Enhancements 3-1
  FedEx Ground Oversize Indicator 3-17
  Hub ID 3-13
  Non-Machinable 3-13
  Non-Machinable Surcharge 3-13
  Service Type/Postal Indicia 3-17
SQE Indicator 1-16