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

This guide describes how to install FedEx Ship Manager® Server (FSMS) and perform the initial configuration required to enable FSMS to communicate with FedEx so that you can begin shipping. It includes detailed procedures on how to set up the server environment for FSMS, install the software, register a meter, configure the software for initial use, and uninstall FSMS.

Organization

To help you understand the shipping services provided by FSMS to automate your shipping operations, the following sections are provided as part of this guide.

- Installation of FedEx Ship Manager Server - see Chapter 1
- Configuration of FedEx Ship Manager Server - see Chapter 2
- FedEx Rate and Data Downloads - see Chapter 3
- Backing Up and Restoring Local FedEx Data - see Chapter 4

Audience

This guide is intended for people who will install and configure FSMS. You must have a basic understanding of how to set up network connectivity and administer Microsoft Windows.

Note: Some tasks in the guide require field level access privileges to the FSMS Configuration Utility. For Field Level access, type the password provided by your FedEx account executive.

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.”
- Task instructions, software user interface elements, and information you need to enter in a field or transaction are formatted in bold.
- Document titles are shown in italics and links are included where possible. For example, FedEx Service Guide.
- Names of FSMS 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.

Resources

- FedEx Ship Manager®Server Developer Guide
- FedEx Ship Manager®Server Installation and Configuration Guide
- FedEx Ship Manager®Server Technical What’s New Guide
- FedEx Ship Manager®Server Transaction Coding Reference Guide

Support

<table>
<thead>
<tr>
<th>Support Type</th>
<th>Access</th>
<th>Prompt</th>
<th>Support Topics</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web</td>
<td>FedEx.com</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</table>
| FedEx Technical Support | 1.877.339.2774 | FedEx Ship Manager Server | • fedex.com  
                           |                          |                           | • FedEx Ship Manager  
<pre><code>                       |                          |                           | • FedEx Web             | Monday to Friday CST 7 a.m. – 9 p.m. |
</code></pre>
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<tr>
<th>Services</th>
<th>Saturday CST 9 a.m. – 3 p.m.</th>
<th>Saturday CST 10 a.m. – 2 p.m.</th>
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<tr>
<td>FedEx Customer Service</td>
<td>1.800.463.3339</td>
<td>24 hours a day, 7 days a week</td>
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<td>· Schedule a pick-up</td>
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<td>· I need shipping rates</td>
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<td>· Track a package</td>
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<td>· Find a FedEx location</td>
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<td>· More options</td>
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<tr>
<td>FedEx Dangerous Goods...</td>
<td>1.800.463.3339</td>
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<tr>
<td>· Schedule a dangerous goods or HazMat pick-up, ship alcohol or firearms, get rates or order supplies</td>
<td>Monday to Friday CST 7 a.m. – 7 p.m.</td>
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<tr>
<td>· Technical Support</td>
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<td>Saturday CST 10 a.m. – 2 p.m.</td>
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<td>· International Dangerous Goods questions</td>
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<td>· Speak with a Dangerous Goods Representative</td>
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<tr>
<td>FedEx Service Guide</td>
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</table>

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

FedEx Electronic Export Information Filing Options (United States 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, SED) go to http://www.fedex.com/us/electronic-export-information/filing.html for more information.
1. Installation of FedEx Ship Manager Server

FedEx Ship Manager® Server (FSMS) is a network shipping solution for customers who want to integrate FedEx® shipping capabilities into their shipping operation.

FedEx Ship Manager Server is for technologically advanced shippers who need to process, label and ship large numbers of packages. FedEx Ship Manager Server software allows full integration of the FedEx service modules — tracking, rating and routing — with a company’s existing computer systems. FedEx Ship Manager Server provides the following shipping functions:

- Ship to and from any FedEx service location
- Track any package shipped using FSMS, or shipped using any other FedEx automated solution, or shipped using manual or pre-printed air waybills
- Route using Universal Routing and Sorting Aid (URSA) for FedEx Express® shipments and ZIP/postal codes for FedEx Ground® shipping
- Rating for any U.S. or Canada-based account number

FedEx Ship Manager Server is a transaction-based shipping solution. FedEx provides all the transactions needed to streamline your shipping operations. You can even build your own user interface that is customized to your business needs. See the FedEx Service Guide for more information about shipping and the FedEx services available to meet all your shipping needs.

Note: To integrate FSMS software with your business information technology solutions, you need dedicated IT resources to program shipping transactions and establish network connections. For more information, go to the Developer Resource Center at fedex.com or fedex.com/developer.

This chapter describes how to install FSMS software on your system. FedEx Ship Manager uses the InstallShield Wizard to guide you through the program setup process. To get started with installing FSMS, review System Requirements.

1.1 System Requirements

Before you begin installing FSMS, be sure you have reviewed the guidelines that describe computer system requirements and supported printers, servers and scales. See Table 1 for minimum software and hardware requirements.

1.1.1 Minimum Software and Hardware Requirements

<table>
<thead>
<tr>
<th>Table 1. FedEx Ship Manager Server Minimum Software and Hardware Requirements</th>
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<tbody>
<tr>
<td>Minimum Software Requirements</td>
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<tr>
<td>Operating System</td>
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Note: Any updates to Microsoft’s Windows® 8, Windows® 8.1, Windows® 8 Pro, Windows® 8.1 Pro, Windows® 8 Enterprise, and Windows® 8.1 Enterprise environments are also supported.

| | Windows® Server 2012 Standard |
| | Windows® Server 2012 R2 Standard |
This version of FedEx Ship Manager® Server is designed to work best on Windows 2008R2 and higher. Microsoft ended support for Windows XP on April 8, 2014. FedEx recommends that you upgrade to ensure your systems are not at risk. See the Microsoft website: https://www.microsoft.com/en-us/windows/enterprise/end-of-support.aspx

- Before installing FSMS, the installer verifies if the applicable .Net Framework version is installed on the system. If the .Net Framework version is not present, then the installer aborts the installation of FSMS and a parameterized error message "FedEx Ship Manager® Server requires that your system has the .Net Framework version <Net version> installed," is displayed before the installer is closed. This behavior is the same for new installs or CD upgrades.

### Minimum Hardware Requirements

<table>
<thead>
<tr>
<th>Processor</th>
<th>Quad Core Xeon E3 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>8 GB RAM</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>300 GB</td>
</tr>
<tr>
<td>Network adapter</td>
<td>10/100/1000 Mbps</td>
</tr>
<tr>
<td>CD ROM drive</td>
<td>Windows-compatible</td>
</tr>
<tr>
<td>Modem</td>
<td>Hayes compatible 56k</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>50 to 90 degrees Fahrenheit</td>
</tr>
</tbody>
</table>

1.1.2 High Volume & Performance Hardware

High volume and performance hardware is recommended for shippers shipping between 40K and 100K shipments a day. The hardware is based on the exiting warehouse distributed platform with the below noted upgrades.

- Processor (minimum):
  - Dual, modern (fastest and most cores available) Xeon
- Memory (minimum):
  - 16 GB ECC
- Disk:
  - Recommended SSD (solid state)
  - Space determined by shipping needs of client but not less than 1 TB.

1.1.3 Recommended Software and Hardware Requirements

Table 2 lists recommended software and hardware requirements.

**Table 2. FedEx Ship Manager Server Recommended Software and Hardware**

<table>
<thead>
<tr>
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<td>Operating System</td>
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</tbody>
</table>

Note: Any updates to Microsoft’s Windows® 8, Windows® 8.1, Windows® 8 Pro, Windows® 8.1 Pro, Windows® 8 Enterprise, and Windows® 8.1 Enterprise environments are also supported.

Compatible Hypervisors that FedEx Ship Manager® Server supports (Virtualization lets you replicate multiple servers on a single machine, requiring less hardware):
### 1.1.4 Supported Servers

- **HP Server Tower**
  - HP Proliant ML 310 G5
  - HP Proliant ML 310 G6
  - HP Proliant ML 310e Gen8
- **HP Server Rack**
  - HP Proliant DL 360 G5
  - HP Proliant DL 360 G6
  - HP Proliant DL 320e Gen8
  - HP Proliant DL 360 G7
- **Non HP Servers**
  - Dell PowerEdge SC 440 (Tower)
  - Dell PowerEdge 1950 (Server Rack)

*Note: FedEx does not support any other server models.*

### 1.1.5 Supported Thermal Printers

- **EPL printers**
  - Zebra 2348 Plus
  - Zebra 2844
- **ZPL printers**
  - ZM 400 Printers
  - Zebra Z4 M Plus
  - Zebra ZP 500
  - Zebra ZP 500 Plus
  - Zebra ZP 505
  - ZT410

### 1.1.6 Supported Dot Matrix Printers

- Lexmark 2480
- Lexmark 2580
- Lexmark 2580 Plus
1.1.7 Supported Laser Printers
- HP LaserJet P 2015
- HP LaserJet P 2035
- HP LaserJet 1160
- HP LaserJet 1300
- HP LaserJet Pro 400 M401n

1.1.8 Supported Scales
- Serial/USB
  - Mettler Toledo PS60
  - Mettler Toledo PS90
  - Mettler Toledo BC 60

1.1.9 Network and Internet Connectivity Requirements
The server must have a network connection that provides Internet connectivity. The following items are required for connectivity:
- Server running the software application must be configured for the TCP/IP protocol.
- Server must have a network connection.
Your local network security policies might require you to perform special configurations on the server where you install FSMS. For example, if you use a proxy server to access the Internet, you must make sure that the proxy server settings are configured on your FSMS server.

1.2 Before You Begin Installation
Although the installation program takes only a few minutes to complete, there are some important steps you must take before you begin installing FSMS. Be sure to review the information in these topics:
- About Your FedEx Account
- Creating a Windows Administrator Account
- Setting Windows Administrator User Rights
- System and Password Security

Note: Verify that the devices you plan to use to access FedEx shipping services and to print labels meet the recommended FSMS software and hardware requirements.

1.2.1 Installation Recommendations
- Always select Yes if the installation script asks if a file should be overwritten at the Read Only File Detected prompt.
- Close all applications including Windows Explorer before you install or uninstall FSMS.
- Restart your computer when prompted and follow the instructions.

1.2.2 Pre-Installation Checklist
Complete the pre-installation checklist in Table 3 before you begin installing the FSMS software.

<table>
<thead>
<tr>
<th>Action</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td>FedEx Account If you are a new FedEx shipper, sign up for a FedEx account at <a href="http://fedex.com">fedex.com</a> or contact a FedEx representative for assistance at 1.800.GoFedEx 1.800.463.3339. You need an account number to register for a FedEx Ship Manager® Server (FSMS) meter number and to use FedEx shipping services.</td>
<td>Windows Admin</td>
</tr>
<tr>
<td>Windows Administrator Account If your server is currently on a domain, remove it from the domain prior to the install process. After installation, you can add it back to the domain. While you can successfully install FSMS on a domain that is configured properly, it is best to remove it in order for the installation to go smoothly. This also eliminates other variables that could cause</td>
<td></td>
</tr>
</tbody>
</table>
Issues during the install.

Verify that the devices you plan to use to access FedEx shipping services and print labels meet the FSMS software and hardware requirements. Windows Admin

Verify that the computer you plan to use to run the FSMS application has a local Windows Administrator account for installing and running the FSMS software. Windows Admin

Verify that the Windows Administrator account that you use to install and run FSMS has the Log on as a service user right. This enables the User Level - View access level. Windows Admin

FTP and Network Connections

If you plan to use File Transfer Protocol (FTP) to transfer data between FedEx Ship Manager clients and your FSMS application, install an FTP server such as Internet Information Server (IIS) before you install FSMS. Contact your FedEx Customer Service representative if you need assistance. Make sure each server is configured with a static IP address. Instructions for setting up an IP address are provided as part of Microsoft Help and Support. If you need additional assistance, access the Microsoft website at microsoft.com. Windows Admin

FedEx Compatible Installation and Solution Type

The FedEx® Compatible Program integrates FedEx shipping capability with many popular business software systems. The FedEx Compatible Solution Type code is a three-digit number that corresponds to the specific FedEx Compatible software you are using. This code is required to be entered during installation when FSMS is used with FedEx Compatible software. You must also accept an End User’s License Agreement (EULA). If you do not have a FedEx Compatible Solutions Type, contact your FedEx Compatible software provider to request the code. FedEx Compatible Providers: Please contact the FedEx Compatible team at compatible.help@fedex.com to get the code for your solution type. Windows Admin

1.2.3 Post-Installation Checklist

Complete the post-installation checklist in Table 4 after you install the FSMS software.

<table>
<thead>
<tr>
<th>√</th>
<th>Action</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Meter Number Registration</td>
<td>FSMS Admin</td>
</tr>
<tr>
<td></td>
<td>If you do not choose to launch the Meter Registration Utility (MRU) at the end of your installation, launch it at any time afterwards using the icon in the FedEx Ship Manager® Server (FSMS) folder on your desktop. You cannot use the FSMS shipping services without a meter number.</td>
<td>FSMS Admin</td>
</tr>
<tr>
<td></td>
<td>FedEx Ship Manager Server Application Services</td>
<td>FSMS Admin</td>
</tr>
<tr>
<td></td>
<td>The FSMS application services start automatically. To verify that these server processes are starting, select Start &gt; Control Panel &gt; Administrative Tools &gt; Services. <strong>Note: These steps are Operating System dependent.</strong></td>
<td>FSMS Admin</td>
</tr>
<tr>
<td></td>
<td>FedEx Ship Manager Server Configuration</td>
<td>FSMS Admin</td>
</tr>
<tr>
<td></td>
<td>Configure FSMS by specifying options and services specific to your installation, as described in this chapter.</td>
<td>FSMS Admin</td>
</tr>
<tr>
<td></td>
<td>Verify that the server that runs the FSMS application is connected to a network and can access the FedEx shipping server over the Internet. See Verifying Communications Using the CommSetup Utility for more information.</td>
<td>Windows Admin</td>
</tr>
</tbody>
</table>

1.2.4 About Your FedEx Account

A FedEx account number is required for all FedEx shipping. If you are a new FedEx shipper, it is convenient to sign up for your FedEx account before you install the FSMS software. After you complete your installation, register for a meter number as part of the installation process, then you can use FedEx shipping services immediately.

If you are a new FedEx shipper, sign up for a FedEx account at fedex.com or contact a FedEx representative for assistance at 1.800.GoFedEx 1.800.463.3339.

1.2.5 Creating a Windows Administrator Account

You must create a local Windows Administrator account to install and run the FSMS software. The procedures for creating an account on a Windows system vary slightly between different versions of Windows.

1.2.5.1 To Create a Windows 2008 Server Administrator Account

1) Log into your server using an account that has administrator privileges.
2) Create a new user account:
   a) Click Start > Control Panel.
   b) Click on the Add or Remove user accounts under the User Accounts section.
   c) Click the Create a new account link.
   d) Specify an account name; for example FedEx Admin.
   e) Select the Administrator radio button.
   f) Click Create Account button.

3) Reboot your computer and logon using the account you just created. You must use this account to install and to configure FSMS.

1.2.6 Setting Windows Administrator User Rights
When you create the local Windows Administrator account for FSMS, the account will have the privileges needed to run the FedEx services. If you need any assistance to create an Administrator account on your server, access the Microsoft Help and Support service at Start > Help and Support or go to microsoft.com.

1.2.7 System and Password Security
During the installation process you are asked to provide a password for your FSMS Services account. Store this login information in a secure location. FedEx support cannot recover this login information for you. You use this Administrator account to log into Windows when you configure FSMS. The FSMS server process also uses this account to interact with Windows. If the password for this account is changed, the password must be updated on all FSMS services to continue using the application. Note that if the password is changed and the server is rebooted, then the multiple attempts by the services to start will lock out the user account that is running the FedEx services.

1.3 How to Install FedEx Ship Manager Server
This section describes how to install the FSMS.

Note: To avoid installation errors caused by insufficient account permissions, remove the server from the domain prior to installing the FSMS software.

1.3.1 Installing FedEx Ship Manager Server
Before you begin, complete all appropriate tasks in the pre-installation checklists.

Pre-Installation Checklist.
1) If you are installing FSMS for the first time, the program prompts you to select a language. Select the language in which to view the installation instructions and click OK to continue.
2) The FSMS setup prepares the InstallShield Wizard for the FSMS software installation.
3) If necessary, the Setup program installs the Microsoft Visual C++ Redistributable software. This step requires no intervention.
4) The Welcome message appears.
   Click Next to continue.
5) Enter the product key and press next.

For the Product Key, refer to the most recent version of the FedEx Ship Manager® Server Release Notes.
Note: The product key is valid for three years from general release date of FedEx Ship Manager Server 14.0.0. However, if software is upgraded via a delta, then the product key is automatically built into the delta. If the product key is used beyond the expiration date, then the following error message displays: 'The product key has expired. Enter a valid product key. If the problem persists, contact your software provider.'

6) Select the Installation Type: Proprietary - Hardware, Proprietary - Software Only, or FedEx Compatible Provider.

Figure 4. Preparing to Install

Figure 5. Choose Installation Type
Note: In the ‘Choose Installation Type’ screen, ‘Certified’ in the option ‘Certified Solution Provider (CSP)’ has been replaced with ‘Compatible’.

Figure 6. End-User License Agreement (EULA)

7) Select CSP option from ‘Choose Installation Type’ screen to get a display of the ‘Compatible Solution Provider Information’ screen.
Figure 7. Compatible Solution Provider Information screen

Note:
- Only numeric entries are allowed in the Compatible Solution Type field. When non-numeric (alpha or special characters) are entered, a standard ‘numeric entry required’ message is displayed.
- The ‘Next’ button will not become active until three numeric digits are entered.
- If more than three digits are entered, then the data is ignored and not displayed in the entry field.

8) Select the directory location where you want to install FSMS.
To accept the default location, C:\FedEx click Next. To select a new directory location, click Browse, then select the destination directory and click Next.

Figure 8. Choose Destination Folder
9) Before installing the FSMS files the password screen appears. The information you enter here is used to configure the startup permissions for the FSMS server processes. Enter the password for the server for the user that you logged in.

   Note: If someone else logs in with a different password then the FedEx services will not start after the installation is complete.

Click Next to continue.

Figure 9. Configuring Microsoft Visual C++ 2005

Figure 10. Password Screen
10) The wizard displays the Start Copying Files window. After a few moments, the network connection dialog appears. Verify that the information is correct. If you need to change or review any settings, click Back. If the settings are correct, click Next to continue.
11) The wizard displays the Setup Status window and shows the status of the FSMS installation.

Figure 12. Setup Status Screen Displays During Installation

![Setup Status Window](image)

12) The network options screen lets you specify how the setup program should communicate with FedEx.
   
a) Choose FedEx Dialup to connect through a modem.
   
   - Specify a Dial Prefix, such as dialing 9 to get an outside line, if that is required for your site.
   
   - Specify a Dial Suffix, such as an account number, if necessary.

b) Choose Network to connect through your site's existing network (preferred option).

c) Choose Private to connect through an existing VPN connection to FedEx.

Figure 13. Use Network Dialog Box to Specify Network Connection

![Network Dialog Box](image)
13) If you selected Network in the previous dialog box, the next screen enables you to configure your local network configuration settings.

If you do not know what to enter in this dialog box, see your local network administrator.

   a) Select Connect through a Proxy Server if you are connecting to FedEx through a proxy server.
   b) Be sure to click the Set Proxy Password button at the bottom of the window to specify the proxy user and password.
   c) Specify whether you want to establish the connection manually or automatically by using a proxy configuration script.

14) To set up an automatic connection, select Set Automatic Proxy Configuration Location (URL) for Tunnel Client and specify the automatic configuration script URL.

15) To set up a manual connection, select Set Manual Proxy Settings for Tunnel Client and specify the address (iPort number) for the Tunnel Server.

16) Click Test Internet Connection to FedEx to test the round-trip network path from your FSMS software to the FedEx server. A message box displays your connection status. Click OK to close the message box, and then click Finish to complete the FSMS installation.

17) Best Practice: If your connection fails, check your network settings. It may be that you need to input your proxy settings.

Figure 14. Configure Direct Access
18) The Meter Registration Utility opens and displays the information for your account. If you selected I would like to launch the Meter Registration Utility as part of the installation process in step 9, provide the following information:

- FedEx Account Number
- Country
- Postal Code
- Meter Number

Figure 15. Meter Registration Utility
Note: The country code ‘AN = Netherlands Antilles’ is no longer available in the ‘Country’ drop down list.

If you have additional meters you would like to add, then enable the checkbox labeled This meter has also been assigned Child meters and enter the information, as shown.

Figure 16. Adding Additional Meters
Note: The country code ‘AN = Netherlands Antilles’ is no longer available in the ‘Country’ drop down list.

19) Click Next to proceed.
20) Click Finish to exit the installation process.

Figure 17. Installation Successful

21) Click Yes to restart your system so that the configuration changes you made take effect.
22) After the reboot, if you enabled the Meter Registration Utility checkbox, then the Meter Registration Utility opens and displays an activity window that tracks the downloads received from FedEx as part of the meter registration process.

Note: The activity window is dynamic. Markers indicate the status for each component:

- **Yellow dot**: A request for a component download is in progress.
- **Checkmark**: The component downloaded successfully.
- **Red X**: The component download failed.

Figure 19. Meter Registration Activity Window Showing Master Meter Component Status
If you did not enable the Meter Registration Utility checkbox, or immediately after you finish using the Meter Registration Utility, then the reboot screen appears. You must reboot your computer before you can begin using the FSMS software.

1.3.2 Creating a New FedEx Meter Number

A Meter Number is tied to your shipping location and your account number. You must have a FedEx Express account number and a master meter before you can begin using FSMS. You can start the Meter Registration Utility (MRU) as part of the FSMS installation process if you have an existing meter(s) or you can run it manually at any time to acquire additional meters. When you acquire a meter through the Meter Registration Utility, it appears in the rest of the FedEx programs, such as the FSMS Configuration Utility and the Demand Download Utility.

1) To register a new FedEx meter:
   a) Start the FedEx Meter Registration Utility by double-clicking the Meter Registration icon in the FedEx Ship Manager folder on your desktop.
b) In the Meter Registration Utility window, enter the detailed information about your shipper location, then click Next.

Figure 20. Entering Shipper Location Information

Note: The country code ‘AN = Netherlands Antilles’ is no longer available in the ‘Country’ drop down list within the ‘Meter Registration Utility’ screen when requesting a child meter via this utility.

c) When a new meter number is successfully created, the new number displays an activity window, as shown, that tracks the downloads received from FedEx as part of the meter registration progress.

Figure 21. Meter Registration Activity Window
When finished, click Finish and the FSMS Configuration Utility will be automatically populated with the downloaded information.

1.3.3 Adding an Existing FedEx Meter Number from the FSMS Configuration Utility

To add an existing FedEx meter number after the initial install:
1) Start the FedEx Configuration Utility by double-clicking the FSMS Configuration Utility icon in the FedEx Ship Manager folder on your desktop.
2) Select Access Privileges.
3) Enter your password.
4) Select Add New.
5) Enter in the Meter Number, Account Number, Country and Postal Code.
6) Click OK.
7) Click Apply & Exit.

1.3.3.1 Downloading Components

After adding a FedEx meter number from the FSMS Configuration Utility, you can download components.
1) Open the FedEx Demand Download Utility by double-clicking the FSMS Demand Download Utility icon in the FedEx Ship Manager folder on your desktop.

2) Select the meter number in the Meter / Account field.

3) Select the components you want to download and click Start.

4) After all the selected components have been downloaded, click Exit.

### 1.4 Uninstalling the FedEx Ship Manager Server

This section describes how to uninstall a previous version of FSMS software.

1) Click Start > Control Panel to open the Windows Control Panel.

2) On the Windows Control Panel double-click Add or Remove Programs.

3) After the Currently Installed Programs list is populated, click FSMS to highlight it, then click Remove.

4) Click Yes when asked, Do you want to completely remove the selected application?

5) When the uninstall process finishes, you are asked to restart your computer. Click Yes, I want to restart my computer now.

#### 1.4.1 Hourly Upload File (HUF) Verification

Before un-installing the software, the installation verifies if any non-uploaded Hourly Upload Files (HUF) are present. If yes, then the un-installation process stops and the following message appears.

![Hourly Upload File (HUF) Verification message](image)

Before upgrading the software from a CD or delta, the installation verifies if any non-uploaded Hourly Upload Files (HUF) are present. If such files are present, then the installation process backs up all non-uploaded files, upgrades the software, and restores backed up HUF files.
2. Configuration of FedEx Ship Manager Server

The FedEx Ship Manager® Server Configuration Utility is the interface for the FedEx Ship Manager Server (FSMS) application and provides security for critical system settings, such as meter numbers and FedEx service authorizations. Because settings in the FSMS Configuration Utility are critical to each shipping transaction, if you attempt to use the FSMS Configuration Utility while processing a shipment or executing a transaction, an error may be generated by the FSMS application. Follow these guidelines for entering or saving configuration data:

- A text field that appears in red contains an invalid field value. Correct the field before exiting the window.
- Hold the mouse cursor over a field to display a tip that describes the valid data for the field, as well as the access level required to edit the field.
- If you click the Exit or the Close button (X) to close the FSMS Configuration Utility, the data you entered will not be saved. Be sure to click Apply or Apply & Exit to save your entries.

2.1 Privileges and Access

Before you can use the FSMS for shipping, you must configure your initial settings. Your FedEx Customer Service representative or FedEx account executive can assist you to properly set up and configure your system.

There are two types of access privileges assigned:

- User Level: Privileges assigned to FedEx customers.
- User Level - View: Privileges assigned to allow a user to view, but not edit, field level settings.
- Field Level: Password protected privileges accessible by FedEx account executives and customer integration consultants (CICs).

Table 5 shows how privileges are assigned for each configuration category managed by the FSMS Configuration Utility.

<table>
<thead>
<tr>
<th>Configuration Tab</th>
<th>Description</th>
<th>User Level</th>
<th>Field Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipper Settings</td>
<td>FedEx shipper record data, including sender contact and address information.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Report Settings</td>
<td>Report set-up data, including selection of report types to print, report document format and printer to use.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Label Settings</td>
<td>FedEx shipping label data.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Doc-Tab Settings</td>
<td>Information for the doc-tab section of a FedEx label.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>System Settings</td>
<td>Critical system data, such as reconcile time periods, connection port numbers, back-up intervals, Future Day service extensions and discount rate authorization.</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
| IPD / IED / IDF   | Setup FedEx optional contract services:  
- FedEx International Priority DirectDistribution® (IPD)  
- FedEx International Priority DirectDistribution® Freight (IDF)  
- FedEx International Economy DirectDistribution℠ Service (IED) | X           |             |
| Tracking Numbers  | FedEx Express® and FedEx Ground® tracking numbers and management. FedEx SmartPost® delivery confirmation numbers and management.  
Note: It is not required to get tracking number ranges from the Meter Settings tab. Use the Demand Download Utility instead. | X           |             |
| Meter Settings    | FedEx account meter number with additional fields for authorizing and configuring FedEx Express and FedEx Ground services. | X           |             |
| SmartPost Settings| FedEx SmartPost® Customer ID, Mailer ID, Customer Distribution | X           |             |
2.2 Before You Begin Configuration

Before configuring your FSMS software, you should understand the types of shipping operations you will be performing. For example, if you will be shipping internationally, then you will need printers to print labels and international reports documents. If you will be shipping from multiple locations, then you will need a series of meter numbers to properly track and identify the operations at each location.

Work with your FedEx Customer Service representative or FedEx account executive to design a FedEx shipping solution to meet your individual needs. Here are some basic questions to consider before deciding what services you need.

- Where Do You Ship? Are your shipments intra-U.S. or international? Do you ship to local destinations, cross-country, or a combination of these types of destinations? Do your packages need to be there quickly? Do you ship freight or documents?
- Are Your Shipments Identical or Different? Do you ship items that have the same weight? Do you ship to fixed locations?
- Do You Ship Single or Multiple Packages Per Shipment? If you ship multiple packages to a single location, then FedEx can consolidate your shipments.
- What Services Do You Need? For more information about services offered by FedEx, see your FedEx Customer Service representative, read the FedEx Ship Manager® Server Services and Shipping Guide or go to fedex.com/us/services.

2.3 About Managing Meters

A meter number is a method of tracking shipping activities for a particular FedEx account number. A meter number is used for many FSMS functions, such as meter level report generation, revenue data upload and tracking number assignment. Meter numbers let you manage your shipments and provide accounting and reporting according to a number of different scenarios, such as geographical location of shipping areas, distribution systems, and internal setup of departments and invoicing.

FedEx Ship Manager Server can handle more than one account number, but each meter is assigned to a single account number. Each FedEx Ship Manager Server will have a master meter and each master meter can have many child meters. Meter numbers are unique to FedEx account numbers and cannot be used with any account number other than the one to which it has been assigned.

The Shipper Settings tab is used to enter information about the shipping origin location. Shipper settings should be configured before any other configuration information is added. The first meter added to this configuration will be the master meter; all subsequent meters to be added are child meters that are associated with the master meter. The child meters may have the same or different Express and Ground account numbers as the master meter.

**Note:** Meter numbers should only be on one server at a time. If the same meter is on multiple FSMS servers then a rating, routing, or tracking number outage can occur.

2.3.1 How Many Meters Do You Need?

Every FSMS installation needs a master meter which is tied to your FedEx account number. You can configure additional meters (child meters of your master meter) to suit the needs of your business. For example, if your business has many locations, you will have the master meter associated with your primary location, and then use a child meter for each additional location where you perform shipping services. FedEx Ship Manager Server functions, such as rates, tracking, and reports are tied to the location specified for each meter. Another way to use child meters is to associate a child meter with each department within your organization so that the shipping activities of each department can be accounted for and tracked.

**Note:** FedEx recommends, for the best system performance and backup/maintenance, using no more than 50 meters on a server if possible, depending on the hardware specifications and operating system.

2.3.2 Getting a Meter Number

The Meter Registration Utility is installed as part of the FSMS installation process. Use it to acquire a master meter initially as part of the installation process then acquire additional meters (child meters) of your master meter.

**Note:** The Shipper Settings tab in the FSMS Configuration Utility has a checkbox labeled Do not allow Multiple Meters per Account Number. If this checkbox is enabled, then you can only have one meter for your account number. If you want more than one meter with the same Express account number, then you must first disable this checkbox. You must have Field Level access to edit this setting.

The following procedure assumes that you have already entered your account number and registered a master meter as part of the installation process. If you already have a master meter, then any additional meters will be child meters.

2.3.2.1 To Start the FedEx Meter Registration Utility

1) Double-click the Meter Registration icon in the FedEx Ship Manager folder on your desktop.
2) The Meter Registration Utility opens and your FedEx Acct. Number and existing Master Meter number are already filled in.

3) The meter you acquire will be a child meter of the specified Master Meter.

   Note: If you are not enabled for ground shipping, you will receive Error Message 5061, “Your FedEx account is not FedEx Ground enabled. Please call FedEx Customer Support via your normal support channel to request FedEx Ground enablement.”

4) Specify the contact and location information that you want to associate with the child meter, and then click Next.

5) The Meter Registration Utility displays an activity window that tracks the downloads received from FedEx as part of the meter registration progress.

   Note: The activity window is dynamic. Markers indicate status for each component:
   - Yellow dot: A request for a component download is in progress.
   - Checkmark: The component downloaded successfully.
   - Red X: The component failed to download.

2.4 Using the FedEx Configuration Utility

Before using FSMS, the application must be properly configured using the FSMS Configuration Utility, which allows you to enter and store user-specific and system-specific data.

The FSMS Configuration Utility displays four tabs when set for User Level access:
- Shipper Settings
- Report Settings
- Label Settings
- Doc-Tab Settings

The FSMS Configuration Utility displays additional tabs when the FSMS Configuration Utility is set for Field Level access:
- System Settings
- Meter Settings
- Advanced Settings
- SmartPost Settings
- IPD / IED / IDF Settings (International Priority Distribution Configuration) This tab is present only if you have contracted with FedEx for these premium services.
- Tracking Numbers

When using the FedEx Configuration Utility, if a text field appears in red, it contains an invalid field value. Correct the field before exiting the window. Hold the mouse cursor over a field to display a tip that describes the valid data for the field, as well as the access level required to edit the field.

If you click the Close button or the Exit button to close the FSMS Configuration Utility, the data you entered will not be saved. You must first click Apply or Apply & Exit to save your entries before you close the Configuration Utility.

2.4.1 Opening the Configuration Utility

When the FSMS Configuration Utility screen opens, it displays only the tabs you are allowed to edit based on your access privilege level. Complete the following steps to open the FSMS Configuration Utility and change the access level if needed.

1) Double-click the FedEx Ship Manager Server folder on your desktop to display the FSMS shortcuts.

2) Double-click the FedEx Ship Manager Server Configuration icon.

3) If you need to change the access level, click Access Privileges.

   The Access Privileges dialog box appears.
4) Enter your password.
   a) For User Level access, leave the Password field blank.
   b) When you click OK, the Configuration screen displays the default User Level access view and disregards any previous access level you may have used.
   c) For User Level View access, type View as the password.
      (Be sure to type a capital “V”. The password field is case-sensitive.) User Level View access shows the same tabs as Field Level access, but you cannot edit Field Level items except on the IPD / IED / IDF Settings tab.
   d) For Field Level access, type the password provided by your FedEx account executive.

5) Click OK to continue.

   Note: The following figure shows the Field Level View of the FSMS Configuration Utility with the tabs that appear when you have User Level access. To view additional tabs, you must change your access privileges.

   Figure 33. Shipper Settings Tab - Field Level View with User Level Access

   Note: The IPD / IED/ IDF Settings tab does not display if the shipper has not contracted for those optional services.
2.5 Configuring Shipper Settings

Configure shipper settings, as shown in the Shipper Settings Tab, before entering any other configuration information. The first meter added to this configuration is the master meter. All subsequent meters are child meters associated with the master meter.

1) To configure Shipper Settings, click the Shipper Settings tab.

Figure 35. Shipper Settings Tab
2) All bold fields on the Shipper Settings tab are required to configure a meter.

Items that have an asterisk (*) will be printed on the shipping label. To edit the items that are grayed, you must have Field Level access privileges. When you are finished, click Apply or Apply & Exit to save your selections. Table 6 describes Shipper Settings.

### Table 6. Shipper Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Meter Number (physical location of hardware)</td>
<td>Allows you to select meter you want to configure. When a master meter is selected, the label displays Master Meter Number. When a child meter is selected, label displays Meter Number with Master grayed out.</td>
</tr>
<tr>
<td>Account Number</td>
<td>The customer’s FedEx account number.</td>
</tr>
<tr>
<td>Master Meter</td>
<td>When this checkbox is enabled, it indicates that this meter number is the master meter. You cannot disable this checkbox after you create a master meter because an FSMS installation must have a master meter. If a meter number is not specified in a transaction, the server defaults to the master meter.</td>
</tr>
<tr>
<td>Do Not Allow Multiple Meters per Account Number</td>
<td>Check this box to prevent multiple meters from using the same 9-digit FedEx account number. This will allow a Close Request transaction using the account number only.</td>
</tr>
<tr>
<td>Contact Name*</td>
<td>Enter the contact name. This can be a company name.</td>
</tr>
<tr>
<td>Company Name*</td>
<td>Enter the company name.</td>
</tr>
<tr>
<td>Department*</td>
<td>Enter the name of the department shipping from the assigned meter. This entry will print in the Sender section of the label. The Department field value can be overridden by using Field 38 in the shipping transaction.</td>
</tr>
<tr>
<td>Address Line 1*</td>
<td>Enter the primary address for your location, typically the street name and number.</td>
</tr>
<tr>
<td>Address Line 2*</td>
<td>Enter any secondary address information, such as Suite #, on Address Line 2.</td>
</tr>
<tr>
<td>City*</td>
<td>Enter the city name from which shipping will originate.</td>
</tr>
</tbody>
</table>
FedEx Ship Manager Server defaults to U.S. To select another country, click the drop-down menu and highlight the appropriate choice. If your country is postal aware (which means that your address is supported in the FedEx URSA file), you must supply a verifiable postal/ZIP code as part of your shipper record. The verification is supplied by FSMS after you select the country from which you are shipping. If shipping from a country that is not postal aware, the postal code you enter is not validated and any routing information supplied on your package label is determined from the FedEx location designated for your country.

Note: ‘AN = Netherlands Antilles’ is no longer available in the ‘Country’ drop-down list.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country*</td>
<td>FedEx Ship Manager Server defaults to U.S. To select another country, click the drop-down menu and highlight the appropriate choice. If your country is postal aware (which means that your address is supported in the FedEx URSA file), you must supply a verifiable postal/ZIP code as part of your shipper record. The verification is supplied by FSMS after you select the country from which you are shipping. If shipping from a country that is not postal aware, the postal code you enter is not validated and any routing information supplied on your package label is determined from the FedEx location designated for your country.</td>
</tr>
<tr>
<td>State/Province*</td>
<td>If you are located in U.S., Canada or Puerto Rico, select your state or province from the drop-down menu.</td>
</tr>
<tr>
<td>Postal Code*</td>
<td>Enter the postal code for your shipping origin location.</td>
</tr>
<tr>
<td>Cleaned Postal</td>
<td>When you enter your shipper address, including your postal code, FSMS checks the URSA file to ensure that the postal code is correct and displays the matched postal code found. If you want to revert to your original entry, click the Revert button. FSMS will change the postal code back to your original entry.</td>
</tr>
<tr>
<td>Phone Number*</td>
<td>Enter your company phone number. No special characters, such as dashes, are allowed.</td>
</tr>
<tr>
<td>Origin Loc ID</td>
<td>FedEx location identification (if your shipper address is postal aware, which means that your address is supported in the FedEx URSA file) of your shipping origin location. This information is not entered but comes from the URSA file located on your server. The Origin Loc ID may be overridden with FedEx assistance.</td>
</tr>
<tr>
<td>Meter Time Zone</td>
<td>FSMS lets you select a time zone for each meter (both master and child) configured on your server. This functionality lets you designate Close Times and other elements for each meter by its specific time zone.</td>
</tr>
<tr>
<td>Force Close Time</td>
<td>Enter the most convenient time for FSMS to close your shipping day. Force Close is activated only if you have not closed your shipping day 24 hours before the Force Close Time entered.</td>
</tr>
<tr>
<td></td>
<td>- The Force Close Time is entered in military time (for example, 1:00 p.m. = 1300).</td>
</tr>
<tr>
<td></td>
<td>- Force Close Time is a meter level setting.</td>
</tr>
<tr>
<td></td>
<td>- Force Close Time defaults to the nearest hour at the time the master meter is added. For example, if a meter is added at 3:37 p.m., the Force Close Time will default to 1500.</td>
</tr>
<tr>
<td></td>
<td>- Child meters default to the same time as the master meter.</td>
</tr>
<tr>
<td>Email Address</td>
<td>Enter the email address for the shipping contact in your company.</td>
</tr>
<tr>
<td>Pager Number</td>
<td>Enter the pager number for the shipping contact in your company.</td>
</tr>
</tbody>
</table>

### 2.5.1 Close Options

A new button called “Close Options” is added to the Shipper Settings Tab to allow you to configure the Auto Close time for Express, Ground, SmartPost and Freight shipments. The access privileges for the new button will be at “User View” Level. When clicked, a pop up window will appear that could contain any combination of Express, Ground, SmartPost or Freight based on the origin country of the meter.

**Figure 36. Close Option button**
2.5.1.1 Close Option Dialog

The following new Close Option Dialog box appears on clicking the “Close Options” button. The Meter drop down list contains all meters installed on the box. If the meter selected is the actual Master meter, the word “Master” displays in red.

- The OpCo’s that are visible are based on the origin country of that meter. This is the existing general behavior within the configuration utility.
- The Auto Close time field and checkbox continue to function as they do on the Meter tab for Express and Ground. The access privileges are at the “User View” Level.
- The “OK” and “Cancel” buttons function as they do currently on existing tabs.

Note: The "Copy to All Meters" functionality is not applicable.

Figure 37. Close Options Dialog
Table 7. LTL Freight and Smartpost will have the following access privileges

<table>
<thead>
<tr>
<th>Level</th>
<th>Read Only Access</th>
<th>Write</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Level</td>
<td>×</td>
<td>×</td>
</tr>
<tr>
<td>User View Level</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Field Level</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Support Level</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Development Level</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

2.5.1.2 Auto Close Time Box

The following close related configurable option is removed from the Express, Ground and LTL Freight Options combo boxes on the Meter Settings tab and relocated to the Shipper Settings tab.

Note: There are no checkboxes following the Express and Ground Auto Close Time Box.

The following close related configurable option is removed from the SmartPost Options combo box on the SmartPost Settings tab and relocated to the Shipper Settings tab:

2.6 Configuring Report Settings

Open the Report Settings tab, as shown in Configuring Report Settings, to configure output settings for FSMS reports. Reports are categorized by type in the left pane of the tab screen.

Note: The administrator account used to install FSMS must have permission to access networked printers.

After you make your selections for a selected report, you can easily duplicate those settings to all meters or to all reports by clicking Copy to All Meters or Copy to All Reports.

1) To configure Report Settings, click the Report Settings tab.

Figure 38. Configuring Report Settings
Note:

- In the 'Reports' tree, under the 'DG' branch, 'Ground OP900' is renamed as 'Ground OP900LL' and 'Ground OP900B' is removed.
- The 'Form Type' field is defaulted to 'Laser' and grayed out/disabled when the 'Ground OP900LL' form is selected.
- Upon upgrade, if the user has the Ground OP900 form configured under the DG branch on the Report Settings Tab in the FedEx Configuration Utility, FSMS grays out/disables the 'Form Type' drop down defaulted to 'Laser'.

2) The Report Format will apply to reports on all meters.

Choose one of the following formats:
- RTF: Rich Text Format, compatible with all versions of Microsoft® Word
- TXT: ASCII text format, raw text with no formatting
- DOC: Microsoft Word format
- PDF: Portable Document Format, which can be viewed with the free Adobe Reader application

3) Expand the Reports list and click a report to select it.

The reports that appear in the list depend on the services you have enabled. This table shows samples of available reports.

<table>
<thead>
<tr>
<th>Reports</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. origin, FedEx Express®, and FedEx Freight®. The Freight folder has the Bill of Lading report for FedEx Freight</td>
<td></td>
</tr>
</tbody>
</table>
### Reports

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
<th>DG</th>
<th>Freight</th>
<th>Shipment Summary</th>
</tr>
</thead>
</table>

Service. The Shipment Summary report provides a summary of all shipping.

### Reports

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
<th>Ground</th>
<th>DG</th>
<th>Freight</th>
<th>Shipment Summary</th>
</tr>
</thead>
</table>

U.S. origin, FedEx Express and FedEx Ground®

### Reports

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
<th>Ground</th>
<th>DG</th>
<th>Freight</th>
<th>Shipment Summary</th>
</tr>
</thead>
</table>

U.S. origin, FedEx SmartPost® enabled
- FedEx SmartPost Detail Manifest, and Returns reports will be enabled when SmartPost is enabled on the SmartPost Settings tab on the FSMS Configuration Utility.
- FedEx SmartPost Manifest report shows SmartPost shipments in which FedEx Ground only is the pickup carrier, and it only includes the SmartPost Delivery Confirmation Numbers.

See the *FedEx Ship Manager® Server Developer Guide* for details on SmartPost reports.

### Reports

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
<th>IPD Distribution/IPD/ED</th>
<th>IDF</th>
<th>ID</th>
<th>Ground</th>
<th>DG</th>
<th>Freight</th>
<th>Shipment Summary</th>
</tr>
</thead>
</table>

U.S. origin, all services enabled
- FedEx Ground reports will be enabled when the FedEx Ground checkbox on the Meter Settings tab is selected. After enabling FedEx Ground, click the Apply & Exit button, and then re-launch the FSMS Configuration Utility to configure FedEx Ground reports.
- The IPD and IDF reports will be enabled when IPD is manually configured or after a download of the rate file if the account is a valid IPD or IDF account.

### Reports

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
<th>Ground</th>
<th>DG</th>
<th>Freight</th>
<th>Shipment Summary</th>
</tr>
</thead>
</table>

CA origin, MX origin, FedEx Express only

### Reports

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
<th>Ground</th>
<th>DG</th>
<th>Freight</th>
<th>Shipment Summary</th>
</tr>
</thead>
</table>

CA origin, FedEx Express and FedEx Ground
- FedEx Ground reports will be enabled when the FedEx Ground checkbox on the Meter Settings tab is selected. After enabling FedEx Ground, click the Apply & Exit button and then re-launch the FSMS Configuration Utility to configure FedEx Ground reports.
- The IPD and IDF reports will be enabled when IPD is manually configured or after a download of the rate file if the account is a valid IPD or IDF account.

<table>
<thead>
<tr>
<th>Reports</th>
<th>Non-U.S. or CA origin, FedEx Express only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td></td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>IPD Distribution</td>
<td></td>
</tr>
<tr>
<td>IDF</td>
<td></td>
</tr>
<tr>
<td>Ground</td>
<td></td>
</tr>
<tr>
<td>DG</td>
<td></td>
</tr>
<tr>
<td>Freight</td>
<td></td>
</tr>
<tr>
<td>Shipment Summary</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reports</th>
<th>Non-U.S. or CA origin, all services enabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td></td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>IPD Distribution</td>
<td></td>
</tr>
<tr>
<td>IDF</td>
<td></td>
</tr>
<tr>
<td>Ground</td>
<td></td>
</tr>
<tr>
<td>DG</td>
<td></td>
</tr>
<tr>
<td>Freight</td>
<td></td>
</tr>
<tr>
<td>Shipment Summary</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reports</th>
<th>Close Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>The FedEx SmartPost Detail, Manifest, and Return Reports can be enabled here.</td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>Ground</td>
<td></td>
</tr>
<tr>
<td>DG</td>
<td></td>
</tr>
<tr>
<td>Freight</td>
<td></td>
</tr>
<tr>
<td>Shipment Summary</td>
<td></td>
</tr>
<tr>
<td>SmartPost</td>
<td></td>
</tr>
<tr>
<td>Detail</td>
<td></td>
</tr>
<tr>
<td>Manifest</td>
<td></td>
</tr>
<tr>
<td>Returns</td>
<td></td>
</tr>
</tbody>
</table>

4) Specify a Printer and a Directory.
   a) Choose from the printers that have been configured on your computer.
   b) End-of-Day (EOD) reports cannot be printed and can only be saved to a directory.

5) Some reports have extra configuration selections:
   a) You can print multiple copies for selected International, Shipment Summary and Bill of Lading reports.
   b) For all International reports, choose either 8-1/2" x 11" or A4 paper.
   c) The FedEx Express Dangerous Goods report, Express 1421C, can be printed on multi-ply forms or on plain paper.
   d) To print close by reference reports for domestic and international FedEx Ground and FedEx Express shipments, check the either the Reference Confirmation or the End of Day Close checkbox under Report Print Options. These options will indicate if the report is to print when processing an 017/117 Reference Confirmation Request, an 007/107 End-of-Day Request, or both.

6) For International Commercial Invoice, Pro forma Invoice and International Certificate of Origin reports, you can specify a custom letterhead and a digital signature by choosing graphics files (PNG, TIF, JPEG or JPG).

7) After you make your graphics selection for one report, enable the Default Letterhead Image and Default Signature Image.
checkboxes to make your selections the default for all reports that accept graphics elements.

a) See Selecting Default Report Images.

8) Click Apply or Apply & Exit to save your selections.

Figure 39. Selecting Default Report Images

Note: If the No Shiptime Rates checkbox is selected on the Meter Settings tab, the following reports print without rates:

- Domestic Courier Report Close
- Domestic EOD TransOut Report
- Domestic Invoice Report
- Domestic Shipments Report
- Freight Bill of Lading
- Ground C.O.D. Report
- Ground Domestic EOD
- Ground Hazardous Material Certification Report
- Ground Hazardous Material Certification Report
- Ground Multiweight Delivery Detail
- Ground Multiweight Shipment C.O.D. Detail
- Ground Multiweight Shipment Declared Value Detail
- Ground Multiweight Package Detail
- Ground Multiweight Shipment Detail by Postal Code
- Ground Multiweight Shipment Detail by Zone
- Ground Pickup Manifest
- Ground Shipment Detail Report
- International Courier Report
- International EOD TransOut Report
2.6.1 Configuring Laser and Thermal Label Defaults

Before you configure a laser and/or thermal printer, make sure you first install the printer and verify that you can connect to it from the server that runs the FSMS application. Then use the Laser and Thermal Label Defaults groupbox, shown in Laser and Thermal Label Default Settings Groupbox and Additional Laser and Thermal Copies Groupbox to configure these settings. The whole Label Settings tab is not shown.

1) To designate printers to print laser and/or thermal air waybills, click the Label Settings tab.

2) Under Laser and Thermal Label Defaults, click the printer icon next to the label type you want to configure, or click the folder icon and specify the directory to which you want the thermal label buffers saved.

Figure 40. Laser and Thermal Label Default Settings Groupbox

3) The Printer Selection screen appears and shows the printer you set as the default. Click OK to accept the configuration or go to Step a to change your selection.
   a) To change the printer selection, click Properties to display a list of available printers.
   b) Select a printer and click OK. The printer you selected appears in either the Laser Printer ID or Thermal Printer ID field, depending on your selection.

4) If you selected a thermal printer:
   a) In Thermal Type, use the drop-down menu to select a thermal type.
   b) In Label Stock, use the drop-down menu to select the air waybill label type to use.

5) To include the Ground C.O.D. Return Reference Indicator on labels, choose an option from the list. The following describes the
6) To designate additional laser and thermal label copies, click the Label Settings tab and perform the following steps.

a) Under International, enter the number of labels to print for FedEx International services. You may print up to three (3) copies per category.
   - In Shipper, enter the number of additional labels to print for the person or company sending the shipment.
   - In Customs, enter the number of additional labels to print to fulfill international customs regulations.
   - In Manifest, enter the number of additional labels to print with manifest documents.

7) To select an air waybill multi-ply pin-feed printer, click the Label Settings tab and perform the following steps.

a) Under Multi-Ply Printer Defaults, click the Printer icon ( ) to select the pin-feed printer for multi-ply forms.

b) In the Printer Selection screen, select the printer type.

c) If you choose to print multi-ply air waybills, use the drop-down menu in Form Type to select the form associated with the label stock. This table describes the form types.

<table>
<thead>
<tr>
<th>Form Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form 306</td>
<td>FedEx® International Air Waybill with a preprinted tracking number</td>
</tr>
<tr>
<td>Form 307</td>
<td>FedEx International Air Waybill without a preprinted tracking number</td>
</tr>
<tr>
<td>Form 362</td>
<td>French language FedEx International Air Waybill without a preprinted tracking number</td>
</tr>
</tbody>
</table>

8) Check the Do Not Ship Labels checkbox to print “Do Not Ship” on package labels when a shipment transaction fails. Use this option for batch processing to prevent the disruption of label printing if a shipment transaction fails.

Note: Use this feature if you prepare multiple-piece shipments (MPS) where multiple packages and labels are prepared as a single shipment. This feature is not available for single package labels.
9) To apply and save your label configurations, click Apply or Apply & Exit to save changes to printer selections and other settings on the Label Settings tab.

### 2.7 Configuring System Settings

System settings enable you to set important system level parameters. These settings are global and apply to all meters on the server. You need Field Level access privileges to configure system settings.

1) If the System Settings tab is not displayed, click the Access Privileges button and type the password for Field Level access privileges.

2) Click the System Settings tab.

![System Settings Tab](image)

Note: The 'TransactionLog' checkbox and 'Days' drop down are removed from the Systems Settings tab within the FedEx Configuration Utility as shown in Figure 41.

3) Configure system settings as described in the following tables, and then click Apply or Apply & Exit to save your selections.

- **Table 10** describes general fields on the Systems Settings tab.
- **Table 11** describes Database Backup fields on the Systems Settings tab.
- **Table 12** describes Ship History fields on the Systems Settings tab.
<table>
<thead>
<tr>
<th>Setting Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconcile Time</td>
<td>The time at which your server communicates with FedEx mainframe systems to download any new components (rates, URSA, tracking numbers, etc.). The Reconcile Time defaults to 0300. Recommendation: Configure the reconcile time to a time when no server activity is occurring. <em>Note: You cannot set Reconcile Time to 0000.</em></td>
</tr>
<tr>
<td>Enable Password Configuration</td>
<td>Select this checkbox to enable the Enter Password and Confirm Password fields. Enter the same password in both fields.</td>
</tr>
<tr>
<td>CTS Port Number</td>
<td>The port used to send standard FedEx transactions to FedEx Ship Manager® Server (FSMS).</td>
</tr>
<tr>
<td>Web Services Port Number</td>
<td>The port used to send Web Services transactions to FSMS.</td>
</tr>
<tr>
<td>Origin Phone Number</td>
<td>Your system modem number.</td>
</tr>
<tr>
<td>Transaction Log</td>
<td>Enable this checkbox to have the system keep a log file all transactions processed by FSMS. When enabling the transaction logger, shipping must be stopped and the FedEx ShipManager service must be stopped and restarted.</td>
</tr>
<tr>
<td>Use Dynamic Surcharging</td>
<td>Check this box to use the Dynamic Surcharging feature, which is described in detail in the <em>FedEx Ship Manager® Server Developer Guide</em>. When switching between standard and dynamic surcharging, the FedEx OpenShip service must be stopped and then restarted for the change to take effect.</td>
</tr>
<tr>
<td>Extend 90 Day limit - Ground</td>
<td>Check this box to extend the 90-day limit for FedEx Ground® Future Day shipping transactions processed in advance. The extension applies to FedEx Ground intra-country and international shipping only. When this box is not selected, the standard 90-day limit is used for Future Day shipping.</td>
</tr>
<tr>
<td>Receive Rates</td>
<td>Check this box to enable the download of non-U.S., CA or PR origin discount rates. This checkbox is a system-level setting and is only visible and active for FedEx international (non-U.S. or CA) master meters.</td>
</tr>
</tbody>
</table>

**Table 11. System Settings for Database Backup**

<table>
<thead>
<tr>
<th>Setting Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backup Time</td>
<td>Time each day that FedEx Ship Manager® Server backs up shipping data to the specified directory. Specify the time in the 24-hour (hhmm) format (for example, 0100 equals 1 a.m.).</td>
</tr>
<tr>
<td>1st Backup Directory</td>
<td>Type a directory path or click the Folder icon ( ) to browse and select a directory.</td>
</tr>
<tr>
<td>2nd Backup Directory</td>
<td>Type a directory path or click the Folder icon ( ) to browse and select a directory.</td>
</tr>
</tbody>
</table>

**Table 12. System Settings for Ship History**

<table>
<thead>
<tr>
<th>Settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retention Interval</td>
<td>The length of time that FedEx Ship Manager® Server (FSMS) retains your FedEx Express® shipping history information. Retention Interval is the length of time your FedEx Express shipping history information is stored by FSMS. You may specify an interval of up to 90 days. Purge Time is the time at which the Ship History files are purged after the retention interval has elapsed. Export Time is the time at which Ship History files are exported after the retention interval has elapsed. Specify the export file names for FedEx Domestic Express, FedEx International Express, FedEx International MPS Express, FedEx Ground®, FedEx Freight®, and FedEx SmartPost®. Specify the time in the 24-hour (hhmm) format (for example, 1300 is 1 p.m.).</td>
</tr>
<tr>
<td>Purge Time</td>
<td>Specify the time in the 24-hour (hhmm) format (for example, 0100 equals 1 p.m.).</td>
</tr>
<tr>
<td>Export Time</td>
<td>Specify the time in the 24-hour (hhmm) format (for example, 0100 equals 1 p.m.).</td>
</tr>
</tbody>
</table>
2.8 Configuring Meter Settings

The Meter Settings tab lets you configure meters for FedEx Express, FedEx Ground, and international services. (FedEx SmartPost® service is configured on the SmartPost Settings tab. See the Developer Guide for details.) The Meter Settings tab requires Field Level access privileges.

1) If the Meter Settings tab is not displayed, click the Access Privileges button and type the password for Support from Field Level access privileges.

2) Click the Meter Settings tab, as shown in the figure.

Figure shows settings for a meter that is set up for U.S.-origin shipping.

![Meter Settings Tab](image)

Note: FedEx® Electronic Trade Documents will default to off when a new meter is added.

3) Configure the following Meter Settings, then click Apply or Apply & Exit to save your selections.

Table 13 describes the fields on the Meter Settings tab for setting up FedEx Express service.

Table 14 describes the fields on the Meter Settings tab for setting up FedEx Ground service.

Table 15 describes the fields on the Meter Settings tab for setting up FedEx Freight service.
Table 13. FedEx Express Options

<table>
<thead>
<tr>
<th>Settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rating Options</td>
<td>For the meter(s) on your server (U.S. origins only), there are five rating options:</td>
</tr>
<tr>
<td></td>
<td>· None - No rates are returned</td>
</tr>
<tr>
<td></td>
<td>· Discount - Only discount rates are returned</td>
</tr>
<tr>
<td></td>
<td>· List &amp; Discount - Both discount and list rates are returned</td>
</tr>
<tr>
<td></td>
<td>· Discount/List/Alternate</td>
</tr>
<tr>
<td></td>
<td>· Discount &amp; Alternate</td>
</tr>
<tr>
<td>Default: Discount</td>
<td></td>
</tr>
<tr>
<td>Rate Reply Content Options</td>
<td>Discount Options include:</td>
</tr>
<tr>
<td></td>
<td>· Exclude Earned Discounts</td>
</tr>
<tr>
<td></td>
<td>· Exclude Bonus Discounts</td>
</tr>
<tr>
<td></td>
<td>· Use Discount Options with the Standard Rate Reply tags.</td>
</tr>
<tr>
<td></td>
<td>· Use Discount Options with the Alternate Rate Reply tags.</td>
</tr>
<tr>
<td>See Rate Reply Content Options</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and in the Discount Options area, check one or more type of discounts that you would like to include. You must also check one or more of the bottom checkboxes to indicate on which fields you would like to exclude the discounts that were selected in the Discount Options area.</td>
</tr>
<tr>
<td>Note: If you do not check at least one checkbox from the top two choices and one from the bottom two choices, then discounts will not be excluded.</td>
<td></td>
</tr>
<tr>
<td>Third Party Consignee</td>
<td>When this option is selected, the Commercial Invoice for international shipments is not to be attached to the shipment.</td>
</tr>
<tr>
<td>Late Drop Off Time</td>
<td>If your shipping site has an extended shipping day agreement with FedEx (for example, you have a late drop-off time of 1:00 a.m.), you may set this parameter to have your shipping labels display the extended day date instead of rolling to the next shipping day.</td>
</tr>
<tr>
<td>Canada Label Customs Value Suppression</td>
<td>This option, if selected, prevents the customs value for a FedEx CA-origin shipment from printing on the shipping label.</td>
</tr>
<tr>
<td>ExpExtFutureAllowed</td>
<td>Enable this checkbox to allow Future Day service in FedEx Express shipments, which can be up to 45 calendar days from the current day depending on the availability of next month’s FedEx URSA file. Future Day shipments are uploaded to FedEx when you close your shipping day and retained in a file until the package future ship date equals the current day. This is an operations approved feature. Contact your FedEx Customer Integration Consultant (CIC) or FedEx Compatible provider for more information.</td>
</tr>
<tr>
<td>IATA DG Validation</td>
<td>When selected, displays the IATA DG Validation Dialog pop-up window. The Meter drop-down menu default is the selected or default meter number set in the Configuration Utility.</td>
</tr>
<tr>
<td></td>
<td>There are three shipping options:</td>
</tr>
<tr>
<td></td>
<td>· Intra Country - (Intra-XX): This checkbox is only visible where intra-country shipping is allowed and IATA Dangerous Goods is supported.</td>
</tr>
<tr>
<td></td>
<td>For a U.S. Origin meter, this is checked by default. All other non-U.S. Origin meters are unchecked by default.</td>
</tr>
<tr>
<td></td>
<td>· Export: This checkbox is only visible if IATA Dangerous Goods is supported.</td>
</tr>
<tr>
<td></td>
<td>For a U.S. Origin meter, this is checked by default. All other non-U.S. Origin meters are unchecked by default.</td>
</tr>
<tr>
<td></td>
<td>· Transborder Distribution: This checkbox is only visible for</td>
</tr>
</tbody>
</table>

Table 16 describes the fields on the Meter Settings tab for setting up FedEx Electronic Trade Documents service. Table 17 describes fields for general options.

Note: See About FedEx SmartPost Configuration and the FedEx Ship Manager® Server Developer Guide for instructions on how to configure the settings for the optional FedEx SmartPost service.
Canada TD shipments.

Regarding these checkboxes, unchecked is OFF which equals Optional/Legacy IATA Dangerous Goods Validation, and checked is ON which equals Full IATA Dangerous Goods Validation.

The Apply button saves the selected option for the meter in the database. The Copy to Same Origin Meters button applies the meter settings to all the same origin meters. The Exit button closes the window without saving the settings and returns you to the Meter Settings Tab.

Auto Close Time

Define the time daily shipments should automatically close. This field defaults to 0000, which means Auto Close Time will not start. Enter a valid time for the auto close to occur daily. The close function for the specified carrier will start with the 007 End-of-Day Close Request for the meter specified.

Figure 46. Rate Reply Content Options

Table 14. FedEx Ground Options

<table>
<thead>
<tr>
<th>Settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Enabled</td>
<td>If this box is selected, then you are configured for FedEx Ground® and FedEx Home Delivery® shipping. When you enable this checkbox, other fields in the FedEx Ground Options box become available. You must enable this checkbox before you can configure the other FedEx Ground options. If you are not ground enabled and attempt to register a U.S. or Canada child meter, you will receive Error Message 5061, “Your FedEx account is not FedEx Ground enabled. Please call FedEx Customer Support via your normal support channel to request FedEx Ground enablement.”</td>
</tr>
<tr>
<td>Rating Options</td>
<td>For the meter(s) on your server (U.S. origins only), there are five rating options:</td>
</tr>
<tr>
<td></td>
<td>- None - No rates are returned</td>
</tr>
<tr>
<td></td>
<td>- Discount - Only discount rates are returned</td>
</tr>
<tr>
<td></td>
<td>- List &amp; Discount - Both discount and list rates are returned</td>
</tr>
<tr>
<td></td>
<td>- Discount/List/Alternate</td>
</tr>
<tr>
<td></td>
<td>- Discount &amp; Alternate</td>
</tr>
<tr>
<td></td>
<td>Default: Discount</td>
</tr>
<tr>
<td>Rate Reply Content Options</td>
<td>Discount Options include:</td>
</tr>
<tr>
<td></td>
<td>- Exclude Earned Discounts</td>
</tr>
<tr>
<td></td>
<td>- Exclude Bonus Discounts</td>
</tr>
<tr>
<td></td>
<td>- Use Discount Options with the Standard Rate Reply tags.</td>
</tr>
<tr>
<td></td>
<td>- Use Discount Options with the Alternate Rate Reply tags.</td>
</tr>
</tbody>
</table>
HazMat
If you have contracted to ship hazardous materials using FedEx Ground, then this box must be selected to process these shipments on your FSMS client. This flag should automatically be set when you demand Download Express domestic rates using the Demand Download Utility, if your account has already been enabled.

ECOD
If you have contracted to ship FedEx Ground® Electronic Collect On Delivery (E.C.O.D.) using FedEx Ground, then this box must be selected to process these shipments on your FSMS client.

Label Multipack Piece Count
Selecting this option causes the package count to appear on FedEx Ground MPS labels in the 1/X, 2/X format where X indicates the total package count. The Label Multi Pack Piece Count option is explained in the FedEx Ship Manager® Server User Guide.

Custom Transit Data Key
Passes the number of days a package will spend in transit. U.S. or Canada shippers who set up customized FedEx Ground transit times are responsible for meeting all terms and conditions of their agreement with FedEx related to getting the customized transit time. These conditions include any factors external to FSMS including, but not limited to, cut-off times, volume requirements and sorting requirements. FSMS quotes customized transit times when specified but cannot consider these external factors when providing the customized transit time.

Custom Transit Exclusion File
Enable the checkbox to indicate that a ZIP/postal exclusion file is used when providing customized transit times to the shipper. Click the folder icon to specify the location of the file.

Ground Account Number
Your FedEx Ground account number.

SCNC
This drop-down menu provides the Serial Container Numeric Code (SCNC) formats for FedEx Ground labels. The SCNC option is explained in the FedEx Ship Manager® Server User Guide.

IGD Enabled
Enable this checkbox to enable FedEx International Ground® Distribution shipments. Note: If IGDD is enabled for a specific meter, services other than IGDD such as Express, may not be used on that meter.

IGDD Enabled
Enable this checkbox to enable FedEx International Ground DirectDistribution® shipments.

IGDD Hub Code
Enables you to specify the distribution hub.

IGD Account Number
Your FedEx International Ground Distribution account number.

Alcohol Shipper
Enable this checkbox to allow FedEx Ground alcohol shipments within the 50 U.S. states, excluding Puerto Rico and the U.S. territories. You must have either Field, Support, or Development Access. After this checkbox is enabled, when Field 1332 (Alcohol Flag) is set to Y for intra-U.S. shipping, Field 2399 (Signature Required Type) defaults to 4 (Adult) signature requirement.

Auto Close Time
Define the time daily shipments should automatically close. This field defaults to 0000, which means Auto Close Time will not start. If a time is entered, then the close function for the specified carrier will start with the 007 End-of-Day Close Request for the meter specified.

<table>
<thead>
<tr>
<th>Table 15. FedEx Freight Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Settings</strong></td>
</tr>
<tr>
<td>Rating Options</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
2.8.1 Configuring FedEx Electronic Trade Documents

The ETD Allowed checkbox, shown in the Meter Settings tab, is found on the Meter Settings tab. The checkbox is visible under Field and Support Privilege Levels for sender countries allowed to use FedEx Electronic Trade Documents (ETD). 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 the FedEx Electronic Trade Documents Terms and Conditions Screen.

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 47. FedEx Electronic Trade Documents 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 appear, as shown.

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

Figure 48. Digital Letterhead Logo and Digital Signature Message

Note: The maximum letterhead image cannot exceed 7.75" x 3" for letter-size paper with a 3" offset. The maximum signature image dimensions cannot exceed 2" x 1".

5) The Meter Settings tab reappears with the ETD Default Options, as shown in Meter Settings Tab.

6) The Electronic Trade Documents feature automatically defaults to Use ETD, as shown in Meter Settings Tab, 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. 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).
o Not Required allows all additional transaction processing to continue irrelevant of a successful confirmation from FSMS Common Document Upload Service (CDUS).

o 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 ETD transactions while you wait for the confirmation.

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.

a) 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.

8) As a best practice, confirm Document Upload.

a) To confirm your document upload, 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 to optimize shipping speed within the 020 Global Ship Transaction.

Note: Customers can upload the Commercial Invoice, Certificate of Origin, Pro forma 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. Adjust the size of the document before uploading the document, and you can upload up to five documents at a time.

9) As a best practice, provide Commodity Level Detail.

a) When processing an Open Ship transaction for multiple-piece shipments (MPS) using Electronic Trade Documents, 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 Configuring Report Settings for detailed information.

10) Select Apply & Exit.

2.8.1.1 Methods for Uploading Electronic Trade Documents Shipping Document

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.

a) Ensure that you clearly specify what customs documentation you are uploading, such as a Commercial Invoice. Failure to do so will result in no upload and can potentially lead to delayed shipments.

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

2.8.2 Configuring Global Returns

Before creating your first international print return shipment, or a non-U.S. intra-country return shipment, you must acknowledge receipt of the Terms and Conditions. If you do not first acknowledge the Terms and Conditions, you will be prevented from creating the return shipment.

1) Select the Global Returns Allowed checkbox located on the Meter Settings tab.

Figure 49. Global Returns Allowed Checkbox
This checkbox is available to user view, field, support and development access privilege levels. The default is unchecked, which means that global returns is not available or is off. This must be checked for a global returns shipment or a non-US intra-country returns shipment to be created by the meter. This includes creating a meter manually, or by using the Meter Registration Utility (MRU) or the Auto Configuration Utility (ACU). This value will not be copied from the master meter to any other new meters. The Global Returns - Terms and Conditions pop-up window appears, as shown.

Figure 50. FedEx Global Returns - Terms and Conditions Language Selection Screen
2) Select the language preference, either English, as shown in this figure, or French.

Figure 51. FedEx Global Returns - Terms and Conditions - English Selection

3) Select Print to print the Terms and Conditions.

4) Select I accept the terms and conditions and select OK, which then automatically checks the Global Returns Allowed checkbox and returns you to the Meter Settings tab. If you select Cancel, then the Global Returns - Terms and Conditions Language Selection pop-up window disappears, the system un-checks the I accept the terms and conditions if checked, the IR Allowed checkbox also remains unchecked, and you are returned to the Meter Settings tab. The value of the checkbox, the last date in which the value was changed, and the meter number is saved to a file for legal purposes.
2.8.3 Editing Software ID Data Capture

1) Click the Software ID Data Capture button of the Meter Settings tab to display the Software ID Data Capture dialog box shown in Software ID Data Capture Dialog Box, which displays further identification information about FedEx Compatible client software that is associated with your FSMS installation.

2) Before editing Software ID information, be sure that you have reviewed the FedEx Compatible Installation and Solution Type information listed in Table 4.

3) Software ID Data Capture Fields describes fields used to capture Software ID information.

Figure 52. Software ID Data Capture Dialog Box

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Name</td>
<td>This field is provided for the entry of a FedEx Compatible interface or for customers who use FedEx Ship Manager® Enterprise with the FedEx Ship Manager® Server (FSMS) application.</td>
</tr>
<tr>
<td>Client Version</td>
<td>The software version associated with the Client Name is entered in this field.</td>
</tr>
<tr>
<td>Middleware Name</td>
<td>If you use a middleware application with the FSMS application, the middleware identification in entered in this field.</td>
</tr>
<tr>
<td>Middleware Version</td>
<td>The software version associated with the Middleware Name is entered in this field.</td>
</tr>
</tbody>
</table>

2.8.4 Configuring Handling Charges

If your shipping operation charges handling fees in additional to shipping and insurance charges, FSMS allows you to add these handling fees to your total shipment charge. You can configure handling charges in two ways:

- Use the Handling Charges Dialog available on the Meter Settings tab. The Handling Charges Dialog provides options for both FedEx Express and FedEx Ground shipping services.
- Include fields to assess handling charges in a FSMS transaction. See the FedEx Ship Manager®Server Transaction Coding Reference Guide for transaction coding requirements if assessing handling charges in the transaction.

*Note: Fees can also be printed on the doc-tab portion of the 4 x 6 shipping label.*

1) To open the Handling Charges Dialog, click the Meter Settings tab.

2) Click Handling Charges.

3) The Handling Charges Dialog screen appears, as shown in Handling Charges Dialog.

4) Use the Service Type drop-down menu to select the service for which you want to configure handling charges.

You must configure FedEx Express and FedEx Ground separately. Configure one service, then change the Service Type selection to configure another.

Use the FedEx SmartPost Service Type option to configure fixed and variable handling charges for FedEx SmartPost shipments. See Configuring Handling Charges for FedEx SmartPost and the FedEx Ship Manager® Server Developer Guide for details on setting handling charges for FedEx SmartPost.

Figure 53. Handling Charges Dialog
2.8.4.1 Handling Charge Calculation

The settings required to designate a handling charge calculation are defined in [Meter Settings for Handling Charge Calculations](#).

Table 19. Meter Settings for Handling Charge Calculations

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Amount</td>
<td>Select this checkbox to add a predetermined handling charge to each package/shipment. For example, select Fixed Amount if you charge a fixed handling fee for all packages regardless of the package value or shipping charge.</td>
</tr>
<tr>
<td>Percent of Freight Charge</td>
<td>Select this checkbox if you want FedEx Ship Manager® Server (FSMS) to calculate a fixed percentage of the list rate (undiscounted) shipping charge and apply it as a handling fee. For example, if you select this option, you may enter 3.00 (%) of the shipping charge for the package to be assessed as the handling charge for the shipment.</td>
</tr>
<tr>
<td>Percent of Net Charge</td>
<td>Select this checkbox if you want FSMS to calculate a fixed percentage of the net freight charges (including discounts) to be applied as a handling fee. For example, if you select this option, you may enter 3.00 (%) of the discounted shipping charges for the package to be assessed as the handling charge for the shipment.</td>
</tr>
<tr>
<td>Percent of Net Charge - Taxes</td>
<td>This feature is available for Canadian customers shipping intra-Canada packages only. If you choose this option, you may include Canadian taxes as part of the net charge used to calculate a handling charge. For example, your shipment price is $100CAD and Canadian taxes are $5CAD. If you configure 5.00 (%) for your handling fee, the actual handling fee assessed on the shipment is $5.25CAD.</td>
</tr>
</tbody>
</table>

2.8.4.2 Handling Charge Level

In addition to the ability to add handling charges via a transaction, FSMS also provides the ability to set up handling charges within the configuration. Any handling charge provided through an FSMS transaction overrides the handling charges configured using the FSMS Configuration Utility. The Handling Charge Level section of the Variable Handling window allow you to select whether you want the handling charge calculated on the package level or on the shipment level.

- If you select Package and configure a handling charge, then FSMS applies this handling charge to each package added to a multiple-package shipment. Therefore, if you have 10 packages in a single multiple-package shipment, the total handling charge is the handling charge multiplied by 10.
- If you select Shipment and configure a handling charge, then FSMS applies this handling charge to the entire shipment. Therefore, if you have 10 packages in a single multiple-package shipment, then the total handling charge is not changed.

2.8.4.3 Handling Charge Amount
The Handling Charge Amount field allows you to enter either the actual dollar amount (if you selected Fixed Amount in the Handling Charge Calculation section) or the percent amount if you choose any Percent option as a Handling Charge Calculation. Field entry requirements are as follows:

- Dollar amounts are entered in the Handling Charge Amount field as XXXXX.XX. For example, a handling charge of five dollars is entered as 5.00.
- Percent amounts are entered in the Handling Charge Amount field as XXXXX.XX. For example, a handling charge of ten percent is entered as 10.00.

2.8.4.4 Handling Charge Entries

The Variable Handling window allows you to enter handling charges for both FedEx Express and FedEx Ground shipments for each meter number configured on your server. If you have a master meter and three child meters, you may make up to four FedEx Express and four FedEx Ground Handling Charge configuration settings by selecting the meter you want to configure from the Master Meter drop-down menu at the top of the Variable Handling window. If you configure the master meter and want to save that configuration for all meters on your server, then click the Copy to All Meters button at the bottom of the Variable Handling window.

2.8.4.5 No Upload No Ship

If this option, shown in New Rating Options on the Meter Settings Tab is selected, FedEx Ship Manager Server does not allow shipping to continue if revenue files have not been uploaded for 72 hours.

2.8.4.6 No Shiptime Rates

The No Shiptime Rates checkbox on the Meter Settings tab provides the ability to turn off rating when shipping. This allows customers to improve their performance when rating at the time of shipping is not required. See New Rating Options on the Meter Settings Tab.

The default position of the No Shiptime Rates checkbox is unchecked (turned off). If a customer upgrades to FSMS 13.0.0, the No Shiptime Rates checkbox is unchecked and the Rating Options drop-down menu options are set to List and Discount. When No Shiptime Rates is enabled, no rate reply fields are returned in the 120 Global Ship Reply and no rates will be stored in the database.

User View, Field, Support, and Development access privileges can turn on or off the No Shiptime Rates button on the Meter Settings tab.

2.8.4.7 Rating Option Settings

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

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

These new Rating Options values are added for Express, Ground, and SmartPost on the Meter Settings tab, as shown. Express Options also includes the Discount option.
When the Discount option is selected, a new window opens. This figure shows the Discount Options screen for FedEx Express.

**Figure 55. Discount Options**

Ground Discount Options will only have an Earned checkbox.

This figure shows the Discount option for the SmartPost Setting tab.

*Note: In order to exclude Earned or Bonus discounts (or both) you will need to check at least one checkbox in the Discount Options as well as at least one checkbox below, which indicates which fields you want the discounts excluded from. If you do not at least check one checkbox from each, then discounts will not be excluded.*

**Figure 56. Rating Options on the SmartPost Settings Tab**
2.9 About FedEx SmartPost Configuration

FedEx SmartPost® is an optional contract service for shippers of high volume, low weight, and less time-sensitive packages that uses the U.S. Postal Service (USPS) for final delivery. FedEx SmartPost configuration settings are made on the FedEx SmartPost Settings and Tracking Numbers tabs. Configuration and rates for the contractual FedEx SmartPost services will be enabled and maintained on the FedEx central system and downloaded to the device. FedEx SmartPost configuration settings can be enabled and disabled with User Level Access.

FedEx SmartPost configuration settings are on the SmartPost Settings tab of the FSMS Configuration Utility. If you have had FedEx SmartPost enabled by your customer account representative, then you will have access to configure the FedEx SmartPost Options on SmartPost Settings tab, as shown in FedEx SmartPost Configuration Settings on SmartPost Settings Tab. Both FedEx SmartPost outbound services and FedEx SmartPost Returns® services must be enabled independently. You must have one of the following access privileges to configure FedEx SmartPost settings:

- User Level View
- Field
- Support
- Development

Shipping both FedEx SmartPost outbound and FedEx SmartPost Returns requires 2 separate accounts and meters configured.

In releases of FedEx Ship Manager Server prior to v 10.6.1, FedEx Authorized Technical contacts were required to manually configure the devices to setup the pickup carrier, to enable FedEx SmartPost services, and to load the FedEx SmartPost rate and ZIP to zone files. Starting with v 10.6.1 release, all configuration and rate information is maintained on the FedEx central server and information is automatically downloaded to the customer devices.

See Using the Demand Download Utility for information on downloading FedEx Express Bonus/Earned Discounts.

Note: This is accomplished with the Demand Download Utility. You must download FedEx Express Domestic Rates and SmartPost Rates. This initiates the 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. Another option to download rates is to run the 057 Demand Download Request Transaction.
On the Configuration Screen > SmartPost Settings tab > SmartPost Returns section (See SmartPost Settings Tab with SmartPost Returns Enabled Checkbox):

- The 'Secondary Barcode' drop-down listbox for SmartPost Return shipments is added.
  - The values of this drop-down listbox are '2D' and 'Blank' and the default is '2D'.
  - The initial value of this drop-down listbox when the meter is configured (via 035/135 Child Meter Registration transaction or the Meter Registration utility) is '2D'.
  - For new installations or clean load of software, the 'Secondary Barcode' drop-down is defaulted to '2D'.
  - When upgrading from CD or delta from a version that does not support SmartPost Label changes, the 'Secondary Barcode' drop-down listbox is defaulted to '2D'. While upgrading from a version that supports SmartPost Label changes, the option of the 'Secondary Barcode' drop-down listbox on the SmartPost Settings tab at the time of upgrade is carried over.

Figure 57. FedEx SmartPost Configuration Settings on SmartPost Settings Tab

The values of this drop-down listbox are '2D' and 'Blank' and the default is '2D'.

For new installations or clean load of software, the 'Secondary Barcode' drop-down is defaulted to '2D'. When upgrading from CD or delta from a version that does not support SmartPost Label changes, the 'Secondary Barcode' drop-down listbox is defaulted to '2D'. While upgrading from a version that supports SmartPost Label changes, the option of the 'Secondary Barcode' drop-down listbox on the SmartPost Settings tab at the time of upgrade is carried over.

Note: ‘AN = Netherlands Antilles’ is no longer available in the ‘Country’ drop down list when adding a SmartPost Returns Account.
Table 20.  FedEx SmartPost Options

<table>
<thead>
<tr>
<th>Settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rating Options</td>
<td>For the meter(s) on your server (U.S. origins only), there are two rating options:</td>
</tr>
<tr>
<td></td>
<td>· None - No rates are returned</td>
</tr>
<tr>
<td></td>
<td>· Discount - Only discount rates are returned</td>
</tr>
<tr>
<td></td>
<td>Default: Discount</td>
</tr>
<tr>
<td>SmartPost Enabled</td>
<td>When selected, this checkbox indicates that you have contracted to ship using the FedEx SmartPost® service. This selection can be enabled with User Level access.</td>
</tr>
<tr>
<td>Customer ID</td>
<td>The unique FedEx SmartPost Customer ID. This is an alphanumeric text box with a maximum of 5 characters. The Customer ID is critical for the electronic manifest of FedEx SmartPost shipments.</td>
</tr>
<tr>
<td>Mailer ID</td>
<td>A Mailer ID is issued by the U.S. Postal Service to identify mail owners and mailing agents or other service providers, such as consolidators. The Mailer ID can be a 9-digit or a 6-digit number. The Mailer ID is used to identify mail pieces, trays, sacks or containers.</td>
</tr>
<tr>
<td>Customer Distribution Center</td>
<td>This two-digit number indicates the distribution center that supports your shipping location according to the Mailer ID. This is entered during configuration and is part of the electronic FedEx SmartPost shipping manifest file.</td>
</tr>
<tr>
<td>Pick Up Carrier</td>
<td>Either FedEx Ground® or FedEx SmartPost® can be the pickup carrier. The number of tracking numbers available depends upon the Pickup Carrier. Media will only be available with FedEx Ground pickup.</td>
</tr>
<tr>
<td>Hub ID</td>
<td>Select the Hub ID for the FedEx SmartPost Hub city to which you want to send the shipment. A new HUB ID field appears for each meter setting configured on your system. You must associate a Hub ID with each meter number.</td>
</tr>
<tr>
<td></td>
<td>The Hub ID is a unique four-digit number that identifies a specific city where a FedEx SmartPost hub is located. For example, Hub ID 5531 identifies New Berlin as a FedEx SmartPost hub.</td>
</tr>
<tr>
<td></td>
<td>If the FedEx SmartPost enabled option is checked, you must select a Hub ID. If you do not select an ID, then the following error message is returned: “SmartPost Hub ID Field cannot be left blank”.</td>
</tr>
<tr>
<td>Postal Classes Allowed</td>
<td>There are four main USPS postal classes Based on your FedEx SmartPost contract, your system is enabled for a certain class.</td>
</tr>
<tr>
<td>Delivery Confirmation Default</td>
<td>Available if you enabled Ground Enabled in the Ground Options section of the Meter Settings tab and you selected FedEx Ground as the PickUp Carrier in the SmartPost Options section.</td>
</tr>
<tr>
<td>Auto Close time</td>
<td>The time setting a customer chooses to define when shipments should be automatically closed. This selection can be configured with User Level Access.</td>
</tr>
<tr>
<td>Rate Reply Content Options</td>
<td>Discount Options include:</td>
</tr>
<tr>
<td></td>
<td>· Exclude Earned Discounts</td>
</tr>
<tr>
<td></td>
<td>· Use Discount Options with the Standard Rate Reply tags.</td>
</tr>
<tr>
<td></td>
<td>· Use Discount Options with the Alternate Rate Reply tags.</td>
</tr>
</tbody>
</table>

*Note: For new installations, FedEx SmartPost will be enabled or disabled based on the SmartPost enablement flag that is set in the cust.tbl, which will be downloaded with Domestic Rates. After an upgrade, FedEx SmartPost configurations will be retained.*

2.9.1 Configuring FedEx SmartPost Returns Service

You must download “Update Features” from the Demand Download Screen before configuring a new meter for FedEx SmartPost Returns.

1) Start the FSMS Configuration Utility.
2) Click the Access Privileges button.
3) Enter password and click OK.
4) Click the SmartPost Settings tab.

Figure 58.  SmartPost Settings Tab with SmartPost Returns Enabled Checkbox
On FedEx Configuration > SmartPost Settings tab SmartPost Options section:

- The ‘Generate Ground Tracking Number’ checkbox is added.
  - For new installations or clean load of software, by default, the ‘Generate Ground Tracking Number’ checkbox is unchecked.
  - When upgrading from CD or delta from a version that does not support SmartPost Label changes, the ‘Generate Ground Tracking Number’ check box is unchecked. While upgrading from a version that supports SmartPost Label changes, the setting of the ‘Generate Ground Tracking Number’ check box at the time of upgrade is carried over.

- The ‘Secondary Barcode’ drop-down listbox for outbound shipments is added.
  - The values of this drop-down listbox are: ‘Customer Reference’, ‘2D’, and ‘Blank’ and the default value is ‘Customer Reference’.
  - The initial value of this drop-down list when the meter is configured (via 035/135 Child Meter Registration transaction or the Meter Registration utility) is ‘Customer Reference’.
  - For new installations or clean load of software, the ‘Secondary Barcode’ drop-down listbox is defaulted to ‘Customer Reference’.
  - When upgrading from CD or delta from a version that does not support SmartPost Label changes, the ‘Secondary Barcode’ drop-down on the SmartPost Settings tab is defaulted to ‘Customer Reference’. While upgrading from a version that supports SmartPost Label changes, the option of the ‘Secondary Barcode’ drop-down on the SmartPost Settings tab at the time of upgrade is carried over.
5) Click Add and a pop-up window displays.

Figure 59. Add SmartPost Returns Dialog Box

6) Enter a Returns Account number.

7) Click Get Address to get the Returns Account information.

8) FedEx Ship Manager Server validates that the Returns Account is part of the same National Account and auto-populates the following information:
   a) Company Name
   b) Contact Name
   c) Address Line 1
   d) Address Line 2
   e) City
   f) State
   g) ZIP
   h) Phone Number

   Note: The contact name and phone number fields are the only editable fields.

9) Use the Modify/Delete buttons to update the returns account information.

10) Click Add to add the returns account number to the FSMS database.

11) Then the account information will display in the bottom portion of the SmartPost Settings tab.

12) Click Apply.
2.9.2 Obtaining Tracking Numbers

Note: Each returns account must have its own tracking number range. If the Delivery Confirmation ranges need to be deactivated, then FSMS will deactivate the Delivery Confirmation Numbers (DCN) range at reconcile. See Tracking Numbers Tab.

1) Download the DCNs from the Demand Download Screen when the FedEx SmartPost Delivery Confirmation Default checkbox is checked.
2) Download the “Update Features” from the Demand Download Screen when the FedEx SmartPost Update Features checkbox is checked.

Use FedEx SmartPost Settings Fields to guide your selections.

Note: The information entered in the fields in Tracking Numbers Tab is automatically provided according to your account setup for FedEx SmartPost. These fields are for reference only and may not be edited.

Table 21. FedEx SmartPost Settings Fields

<table>
<thead>
<tr>
<th>Settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer ID</td>
<td>Your unique FedEx SmartPost® Customer ID. This is an alphanumeric text box with a maximum of 5 characters. The Customer ID is critical for the electronic manifest of FedEx SmartPost shipments.</td>
</tr>
<tr>
<td>Mailer ID</td>
<td>A Mailer ID is used by the United States Postal Service to identify mail owners and mailing agents or other service providers, such as consolidators. The Mailer ID used on packages tendered to FedEx SmartPost is a 9-digit number issued by FedEx and is embedded within the FedEx SmartPost tracking number.</td>
</tr>
<tr>
<td>Customer Distribution Center</td>
<td>This two-digit number indicates the distribution center that supports your shipping location according to the Mailer ID. This is entered during configuration and is part of the electronic FedEx SmartPost shipping manifest file.</td>
</tr>
<tr>
<td>PickUp Carrier</td>
<td>Identifies the FedEx service that is used by FedEx to deliver the item to the United States Postal Service (USPS) for final delivery.</td>
</tr>
<tr>
<td>Hub ID</td>
<td>Select the Hub ID for the FedEx SmartPost Hub city to which you want to send the shipment. A new HUB ID field appears for each meter setting configured on your system. You must associate a Hub ID with each meter number. The Hub ID is a unique four-digit number that identifies a specific city where a FedEx SmartPost hub is located. For example, Hub ID 5531 identifies New Berlin as a FedEx SmartPost hub. If the FedEx SmartPost enabled option is checked, you must select a Hub ID. If you do not select an ID, then the following error message appears: “SmartPost Hub ID Field cannot be left blank”.</td>
</tr>
<tr>
<td>Postal Classes Allowed</td>
<td>There are four main USPS postal classes. Based on your FedEx SmartPost contract, your system is enabled for a certain class.</td>
</tr>
<tr>
<td>Delivery Confirmation Default</td>
<td>An optional service available for each postal class. Delivery confirmation is included by default at the account level for all FedEx SmartPost shipments. Exceptions can be requested only at the account level.</td>
</tr>
<tr>
<td>Auto Close Time</td>
<td>Available if you enabled FedEx Ground Enabled in the FedEx Ground Options section of the SmartPost Settings tab and you selected FedEx Ground as the PickUp Carrier.</td>
</tr>
<tr>
<td>View</td>
<td>Allows users to view current accounts.</td>
</tr>
<tr>
<td>Add</td>
<td>Allows user to add additional account information.</td>
</tr>
<tr>
<td>Modify and Delete</td>
<td>Use the Modify and Delete buttons to update the Returns account information.</td>
</tr>
</tbody>
</table>

3) Click the Tracking Numbers tab.
   a) The Tracking Numbers tab shows the Delivery Confirmation Number (DCN) ranges, as shown in Tracking Numbers Tab.

The Tracking Numbers tab includes:

• SmartPost Delivery Confirmation Numbers — displays current range of Delivery Confirmation Numbers (DCN) in the Start, End, and Current fields. Refer to the FedEx Ship Manager Server® Developer Guide for information on setting the future range of DCN to the current range. Displays when Current Tracking Numbers option is selected.

• SmartPost Future Delivery Confirmation Numbers — contains the Start and End numbers that are received from FSMS for a Future Range of DCNs.  
  Note: Displays when Future Tracking Numbers option is selected.

• Edit Tracking Number — allows a FedEx representative (Field Level access or higher) to edit the FedEx SmartPost Delivery Confirmation Numbers in an emergency situation.
SmartPost Returns Tracking Numbers Prefixes — displays the Associated Returns Account tracking numbers. When downloaded, the Associated Returns Account tracking numbers are stored in this section of the Tracking Numbers tab.

Figure 60. Tracking Numbers Tab

4) Locate the SmartPost Delivery Confirmation Numbers section.

Current and future ranges of Delivery Confirmation Numbers can now be downloaded with either Field 1053 (new position 23) or with the Demand Download Utility. Note that if you have just created a meter using the MRU or just added one to the FSMS Configuration Utility, you must perform a Demand Download of “Update Features” prior to downloading SmartPost Delivery Confirmation Numbers. This will ensure you receive IMPB SmartPost Delivery Confirmation Numbers.

If a customer passes in a request for DCNs and a current range already exists, then the Start and End range text boxes in the FedEx SmartPost Future Delivery Confirmation Numbers area will be populated with the new range of numbers. If there is both a current and future SmartPost Delivery Confirmation range, then the Demand Download will fail as this is the most you can have at one time.

In addition, at reconcile, if more than 80% of the current range has been used, then a request will be sent from the FedEx server to FedEx to retrieve a new SmartPost range.

If the current range of DCNs is exhausted and the Future range Start and End text boxes are populated, then the Future range will automatically move over to the Current range.

Express tracking numbers and FedEx SmartPost delivery confirmation numbers are grouped under the Tracking Numbers checkbox on the Demand Download Utility and can be selected individually when this checkbox is expanded. FedEx Demand Download Utility shows the new options for FedEx SmartPost CNs.

The seven-digit IMPB delivery confirmation number is embedded in the Delivery Confirmation Bar Code printed on the FedEx SmartPost label. A delivery confirmation number does not repeat within a 12-month period.

2.9.3 Configuring Handling Charges for FedEx SmartPost

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 menu for handling charges for FedEx SmartPost shipments.

Configure fixed and variable handling charges for FedEx SmartPost shipments.

1) To configure FedEx SmartPost Handling Charges, start the FSMS Configuration Utility.
2) Click the Access Privileges button.
3) Enter password and click OK. (At least User Level-View Access is needed.)
4) Click the SmartPost Settings tab.
5) On the top right of the screen, click the Handling Charges button to display the Handling Charges Dialog, as shown in Handling Charges Dialog for FedEx SmartPost. Select the Meter, Service Type, Handling Charge Calculation, Handling Charge Level, and Handling Charge Amount.
6) Click the OK or the Copy to all Meters button.

Figure 61. Handling Charges Dialog for FedEx SmartPost

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 Handling Charges Fields):

a) Request
   - 1588 - Handling Charge Type
   - 1595 - Handling Charge Amount or Percentage
   - 1606 - Handling Charge Application Point

b) Reply
   - 1596 - Handling Charge

Table 22. 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>Valid For</th>
<th>Handling Charge Amount or Percentage</th>
<th>Transactions: 020 Global Ship Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>1595</td>
<td>Max=7.2</td>
<td>N</td>
<td>I</td>
<td>FDXE</td>
<td>All</td>
<td>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</td>
<td></td>
</tr>
</tbody>
</table>
Handling Charge

Transactions: 120 Global Ship Reply, 125 Rate Available Services Reply

<table>
<thead>
<tr>
<th>Handling Charge Type</th>
<th>Transactions: 020 Global Ship Request</th>
</tr>
</thead>
</table>
| 1596 | Max=11.2 N O FDXE FDXG FDXS | All | Charge applied by customer to the shipment. It may be either a fixed or variable charge. Format: 9999999.99
Decimal place is implicit. |

<table>
<thead>
<tr>
<th>Handling Charge Application Point</th>
<th>Transactions: 020 Global Ship Request</th>
</tr>
</thead>
</table>
| 1606-# | Max=1 N I FDXE FDXG FDXS | 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. |

2.9.4 Manually Downloading FedEx SmartPost Rates

1) Open the FedEx Demand Download Utility, as shown in FedEx Demand Download Utility
2) Ensure the correct Meter/Account is selected.
3) Expand the Rates checkbox.
4) Choose either SmartPost Rates and/or SmartPost Earned Discount Rates.

Note: Earned Discounts apply to all FedEx SmartPost services. New rates are downloaded and implemented only at reconcile. Earned
Discounts can also be downloaded using the Meter Registration Utility (MRU) or the Auto Configuration Utility (ACU).

5) Select Start.

6) After the FedEx SmartPost files have been loaded, click the Exit button twice to completely exit out of the Demand Download utility. Once exited, FSMS will implement the rates that were downloaded.

*Note: FedEx Demand Download Utility shows the Update Features checkbox, which allows customers to request FedEx SmartPost updates.*

**Figure 62. FedEx Demand Download Utility**

![FedEx Demand Download Utility](image)

5) Select Start.

6) After the FedEx SmartPost files have been loaded, click the Exit button twice to completely exit out of the Demand Download utility. Once exited, FSMS will implement the rates that were downloaded.

*Note: FedEx Demand Download Utility shows the Update Features checkbox, which allows customers to request FedEx SmartPost updates.*

**Figure 62. FedEx Demand Download Utility**

2.9.5 Configuring Doc-Tab Settings

A doc-tab is the peel-off strip at the top of a shipping label. Doc-Tabs are used for back-office records and should be removed from actual shipping labels. You can print customizable labels using the 4” x 8” or 4” x 9” thermal label size with and without doctabs for FedEx SmartPost shipments.

### 2.9.5.1 FedEx SmartPost Shipping Label Default Doc-Tab Fields

Set Field 1619 (Doc-Tab Type) to value SP in the 070/170 Meter Query Request/Reply Transaction to configure a Doc-Tab for SmartPost shipments on the Doc-Tab Settings tab. See the ‘Doc-Tab Fields’ table in the FedEx Ship Manager® Server Developer Guide for descriptions of doc-tab fields for intra-U.S. Outbound shipping labels that will be printed in the doc-tab portion of the FedEx SmartPost label.
Table 23 describes the default doc-tab fields for intra-U.S. Outbound shipping labels that will be printed in the doc-tab portion of the FedEx SmartPost label.

<table>
<thead>
<tr>
<th>Position</th>
<th>Heading</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Invoice</td>
<td>Invoice Number</td>
</tr>
<tr>
<td>2</td>
<td>Customer</td>
<td>Customer Reference</td>
</tr>
<tr>
<td>3</td>
<td>Phone</td>
<td>Phone Number</td>
</tr>
<tr>
<td>4</td>
<td>Dept</td>
<td>Recipient Department Name</td>
</tr>
<tr>
<td>5</td>
<td>Date</td>
<td>Ship Date</td>
</tr>
<tr>
<td>6</td>
<td>Weight</td>
<td>Weight</td>
</tr>
<tr>
<td>7</td>
<td>Shipping</td>
<td>Net Charge</td>
</tr>
<tr>
<td>8</td>
<td>Special</td>
<td>Total Surcharge Amount</td>
</tr>
<tr>
<td>9</td>
<td>Handling</td>
<td>Total Customer Handling Charge</td>
</tr>
<tr>
<td>10</td>
<td>Total</td>
<td>Total Customer Charge Amount</td>
</tr>
</tbody>
</table>

Tab Portion:
- FedEx Ground® Tracking Number - 15 characters with no spaces
- FedEx SmartPost® Tracking Number - 20 characters with additional spaces after every 4 characters

2.9.5.2 Configuring Customizable SmartPost Doc-Tab Labels

When FedEx SmartPost is enabled, you can configure Doc-Tab labels for U.S. outbound shipments.

1) To configure custom FedEx SmartPost Doc-Tab labels, go to the FedEx Configuration Utility and click Doc-Tab Settings.
2) Under Shipping Type, select SmartPost, as shown in SmartPost Option Selected on the Doc-Tab Settings Tab.
3) In the Doc-Tab Orientation section, select either Top or Bottom to designate how the doc-tab portion of the label exits the printer. Top means the doc-tab exits the printer last, after the rest of the label has printed; Bottom means that the doc-tab exits the printer first, before the rest of the label.
4) In the Label Stock Type section, choose the type of label stock you use.
5) Use the Doc-Tab Fields section to define information to be printed on the doc-tab.
6) Click the drop-down menu under the Values column and then select an item in the list. The selected value appears in the Values column and the defined heading for this value appears in the Headings column. You may specify your own heading text by typing up to 12 characters (including spaces) in the Heading box.

When SmartPost is selected as the Shipping Type, the following fields are available in the Values drop-down menu:

- Field 2801 - Hub-ID
- Field 2802 - Non-Machinable
- Field 2803 - Non-Machinable Surcharge
- Field 2800 - List Non-Machinable Surcharge
- Field 2804 - Delivery Confirmation Service Surcharge
- Field 2417 - SmartPost Service Type/Postal Indicia
- Field 2416 - Ancillary Endorsements
- Field 2418 - Delivery Confirmation Bar Code
- Field 2425 - SmartPost Customer ID
- Field 4926 - Preassigned Delivery Confirmation Tracking Number
- Field 4927 - Delivery Confirmation Tracking Number

7) You can enable the Reference checkbox to have this field included on the label when it is printed.
8) Normally, doc-tab fields are printed on the doc-tab section of the label, which is removed before shipping. A Reference field enables you to include any FedEx field on the label itself so that the recipient will be able to see the information.

Note: The Reference fields do not apply to Freight and are disabled. If No Shiptime Rates is enabled on the Meter Settings tab, then the doc-tab reference field rate data will be blank when printed.
9) Optionally, click Copy to All Meters to copy the Doc-Tab Settings information for the selected meter to all meters in the same origin country.
10) Click Apply or Apply & Exit to save your selections.
2.9.6 Configuring FedEx SmartPost Reports

To configure FedEx SmartPost Detail report and a Manifest report, see FedEx SmartPost Detail Report and FedEx SmartPost Manifest Report for information on how to print these reports.

1) To print a FedEx SmartPost Detail or Returns report perform the following steps.
   a) From the FedEx Configuration Utility, click Report Settings.
   b) Under the Report > SmartPost list, click the Detail option or the Returns option, as shown in the following figure.

2) To configure a FedEx SmartPost Manifest Report perform the following steps.
   a) Click the Manifest option as shown in the following figure.
   b) When the FedEx SmartPost Detail, Manifest or Returns Report option is selected, the following fields display on the FedEx SmartPost Report Settings Screen:
      - Copy To All Meters checkbox
      - Copy To All Reports checkbox
      - Report Format drop down
      - Printer field and icon
      - Directory field and icon
   c) Select the Headings and values to print in the Doc-Tab portion of the label.

3) Click Apply or Apply & Exit.
2.9.7 FedEx SmartPost Detail Report

Print the [FedEx SmartPost Detailed Report](#) in an

- **007/107 End-of-Day Close** transaction for SmartPost, and set Field 3025 (Carrier Code) to FDXS.
- **070/170 Meter Query/Configuration** transaction, and set Field 1373 (Report Code) to 67.
- **095/195 Label Reprint** transaction, and set Field 1373 (Report Code) to 67.

Print this report in the following formats:

- Word document (.doc)
- Rich Text File (.rtf)
- Text only (.txt)
- Portable Document Format (.pdf)

Figure 65. FedEx SmartPost Detailed Report
FedEx Ship Manager® Server Installation and Configuration Guide

2.9.8 FedEx SmartPost Manifest Report

The FedEx SmartPost Manifest Report shows FedEx SmartPost shipments in which FedEx Ground only is the pickup carrier, and it only includes the FedEx SmartPost Delivery Confirmation Numbers.

Print this report in a:
- **007/107 End-of-Day Close** transaction for SmartPost, and set Field 3025 (Carrier Code) to FDXS.
- **070/170 Meter Query/Configuration transaction, and set Field 1373 (Report Code) to 69.**
- **095/195 Label Reprint transaction, and set Field 1373 (Report Code) to 69.**

Print this report in the following formats:
- Word document (.doc)
- Rich Text File (.rtf)
- Text only (.txt)
- Portable Document Format (.pdf)

### FedEx Shipment Summary Report

<table>
<thead>
<tr>
<th>Service Type</th>
<th>Packages Shipped</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority Overnight</td>
<td>0</td>
</tr>
<tr>
<td>1Day AM</td>
<td>0</td>
</tr>
<tr>
<td>1Day</td>
<td>0</td>
</tr>
<tr>
<td>Standard Overnight</td>
<td>0</td>
</tr>
<tr>
<td>Express Saver</td>
<td>0</td>
</tr>
<tr>
<td>First Overnight</td>
<td>0</td>
</tr>
<tr>
<td>Express Return Labels</td>
<td>0</td>
</tr>
<tr>
<td>International Priority</td>
<td>0</td>
</tr>
<tr>
<td>International Economy</td>
<td>0</td>
</tr>
<tr>
<td>International First</td>
<td>0</td>
</tr>
<tr>
<td>First Overnight Freight</td>
<td>0</td>
</tr>
<tr>
<td>1Day Freight</td>
<td>0</td>
</tr>
<tr>
<td>1Day</td>
<td>0</td>
</tr>
<tr>
<td>2Day Freight</td>
<td>0</td>
</tr>
<tr>
<td>International Priority Freight</td>
<td>0</td>
</tr>
<tr>
<td>International Economy Freight</td>
<td>0</td>
</tr>
<tr>
<td>Ground</td>
<td>0</td>
</tr>
<tr>
<td>Home Delivery</td>
<td>0</td>
</tr>
<tr>
<td>Ground Return Labels</td>
<td>0</td>
</tr>
<tr>
<td>Home Delivery Return Labels</td>
<td>0</td>
</tr>
<tr>
<td>Domestic Express Subtotal</td>
<td>0</td>
</tr>
<tr>
<td>Domestic Express Freight Subtotal</td>
<td>0</td>
</tr>
<tr>
<td>International Express Subtotal</td>
<td>0</td>
</tr>
<tr>
<td>International Express Freight Subtotal</td>
<td>0</td>
</tr>
<tr>
<td>Ground Subtotal</td>
<td>0</td>
</tr>
<tr>
<td>Home Delivery Subtotal</td>
<td>0</td>
</tr>
<tr>
<td>Return Subtotal</td>
<td>0</td>
</tr>
<tr>
<td>Total Packages Shipped</td>
<td>0</td>
</tr>
</tbody>
</table>

Note: Package counts do not contain any Online Return shipments processed through FedEx Ship Manager Server.
Note: The layout of this report is the same as the FedEx Ground Pickup Manifest.

Figure 66. FedEx SmartPost Manifest Report

2.9.9 FedEx SmartPost Returns Report

Print the FedEx SmartPost Returns Report:

- In a 070/170 Meter Query/Configuration transaction, and set Field 1373 (Report Code) to 69.
- In a 095/195 Label Reprint transaction, and set Field 1373 (Report Code) to 69.

Print this report in the following formats:

- Microsoft Word document (.doc)
For FedEx Ground, FSMS generates the FedEx Ground Pickup Manifest and closes the shipment.

2.10 Configuring Advanced Settings

Use the Advanced Settings tab to set communications and data retention parameters. You need Field Level access privileges to configure Advanced Settings.

1) To configure Advanced Settings, perform the following steps.
   a) If the Advanced Settings tab is not displayed, click the Access Privileges button and type the password for Field Level access privileges.
   b) Click the Advanced Settings tab. Advanced Settings Tab shows the Advanced Settings tab when a meter is set up for U.S.-origin shipping.

Figure 68. Advanced Settings Tab
Configure the Advanced Settings, and then click Apply or Apply & Exit to save your selections.

Table 24 describes the settings on the Advanced Settings tab.

<table>
<thead>
<tr>
<th>Settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Force Close Active</td>
<td>FedEx requires that you perform a Close procedure at least once a day to upload any revenue files that have not been sent to FedEx at the end of your shipping day and to produce all End-of-Day reports. If a Close is not performed at least 24 hours prior to the Force Close Time (which is configured in the Settings window of the FSMS Configuration Utility), FSMS performs a Close for you. To prevent interruption in your shipping activities, choose a Force Close Time that will occur after your shipping day is completed. <em>Note: You must first perform a close before the Force Close becomes active.</em> Select this checkbox to force each configured meter to close at the time entered on the Shipper Settings tab.</td>
</tr>
<tr>
<td>Express &amp; Ground Hourly Upload Interval</td>
<td>Use to set the frequency of the hourly upload of FedEx Express® package data to FedEx. You can set the upload frequency from 10-120 minutes. This applies to FedEx Express, FedEx Ground®, and FedEx SmartPost® files.</td>
</tr>
<tr>
<td>Hourly Upload Retention Period</td>
<td>Number of days the FedEx Express Hourly Upload data is retained. You can set the period from 7-14 days.</td>
</tr>
<tr>
<td>Communication Check Interval</td>
<td>You can set the interval from 24-72 hours.</td>
</tr>
<tr>
<td>Communication Logging Retention Period</td>
<td>Number of days the communication log is retained.</td>
</tr>
<tr>
<td>Ground Hourly Upload Retention Period</td>
<td>Number of days you want the FedEx Ground Hourly Upload data retained on your system. You can set the period from 7-14 days.</td>
</tr>
<tr>
<td>Tracking File Retention Period</td>
<td>Number of days you want tracking results retained on your system.</td>
</tr>
<tr>
<td>Label Buffer Retention (days)</td>
<td></td>
</tr>
<tr>
<td>Transaction Log Retention Period (days)</td>
<td></td>
</tr>
</tbody>
</table>
2.10.1 Additional Options in Advanced Settings Tab

An option to retain the label buffer by number of days is available under the 'Advanced Settings' Tab. The initial default maximum number of days is 3; however, you can decrease that number.

The 'Label Buffer Retention Period' option is displayed on the 'Advanced Settings' tab at the 'User View' access level, but it will be grayed out.

This option is enabled for configuration for the following access levels:
- Field Level
- Support Level

For any new install or clean load of FSMS, the 'Label Buffer Retention period' option is set to its default of 3.

Upon upgrade from FSMS 14.01 to a greater version, the setting of the "Label Buffer Retention Period" in place on the Advanced Settings tab at the time of the upgrade is carried over by meter.

Note: There is a possibility that your hard drive capacity to store the label buffers could max out prior to the 3-day maximum you may have configured on the Advanced Settings tab. There is no way for the FSMS software to know or predict these limitations. Therefore, it is your responsibility to be aware of and manage capacity as it relates to label buffers.
The options 'Transaction Log Retention Period' and 'Transaction Capture' are available under 'Advanced Settings' tab and enabled for configuration for the following access levels:

- User View Level
- Field Level
- Support Level
- Development Level

Transaction Log Retention Period: In the Configuration Utility, under 'Advanced Settings' tab, 'Transaction Log Retention Period' drop-down listbox is added, which allows the user to specify how many days each transaction log should be saved prior to purging it. The value can be set between 1 through 30 days by clicking the up or down arrows to increase or decrease the number of days.

- A new log file is created every day and the name of every new file contains the current date. Every day, FSMS purges the log files that are identified to be on the system beyond the retention period set in the Configuration Utility. Both the .in and .out files are purged during the 'log file' purge process.
- For any new installation or clean load of FSMS1500, the 'Transaction Log Retention Period' option is set to its default of 5 days.
- Upon upgrade to FSMS1500, the 'TransactionLog' setting on the 'System Settings' tab (see Fig 41: System Settings Tab) at the time of the upgrade is carried over to the 'Transaction Capture' setting on the 'Advanced Settings' tab for the master meter.

Transaction Capture: In the Configuration Utility, under 'Advanced Settings' tab, 'Transaction Capture' check box is added, which allows the user to specify if the transaction logs should be captured or not.

- When selected, transaction logs are captured and when not selected, transaction logs are not captured.
- If the 'Transaction Capture' box is not selected, the 'Transaction Log Retention Period' days listbox is grayed out.
- For any new installation or clean load of FSMS1500, the 'Transaction Capture' option is defaulted to 'OFF'.
- Upon upgrade to FSMS1500, the number of 'Days' setting on the 'System Settings' tab (see Fig 41: System Settings Tab) at the time of the upgrade is carried over to the 'Transaction Log Retention Period' setting on the 'Advanced Settings' tab for the master meter.

2.11 IPD / IED / IDF Configuration Settings

FedEx International Priority DirectDistribution® (IPD), FedEx International Economy DirectDistribution℠ Service (IED) and FedEx International Priority DirectDistribution® Freight (IDF) are optional contract services that allow you to send a multiple-package shipment from a single origin location to multiple recipients in one destination country using one international air waybill.

Figure 70. IPD / IED / IDF Settings Tab
Note: ‘AN = Netherlands Antilles’ is no longer available in the ‘Country’ drop down list when adding an Importer of Record.

The IPD / IED / IDF Settings tab appears only if you have contracted for one or more of these services and a FedEx customer consultant or FedEx account executive has configured FSMS for IPD, IED or IDF service. This tab requires Field Level access privileges. For more information, see the FedEx Ship Manager® Server Developer Guide.

When you click the Add button, the Add IPD Importer of Record (IOR) screen appears, where you will enter the IOR information.

Note: Do not use the FedEx Clearance Facility as the IOR information.

Figure 71. Add Importer of Record
2.12 Configuring Tracking Numbers

The Tracking Numbers tab provides information for FedEx (FedEx Express and FedEx Freight) FedEx Ground, and FedEx SmartPost tracking number management. No entries are required in this window. The Tracking Numbers tab requires User-Level View access privileges.

Figure 72. Tracking Numbers Tab
1) To view Tracking Number settings, perform the following steps.
   a) If the Tracking Numbers tab is not displayed, click the Access Privileges button.
   b) In the Password box type View then click OK.

   Note: The password is case-sensitive; type View with an upper case V.

2.12.1 Downloading FedEx Tracking Numbers

For a new installation, you must perform a download to acquire the initial range for the tracking numbers. Future tracking numbers are staged and automatically downloaded after half of the current range has been used. After the current tracking number range has been used, the future range displays in the FedEx Future Tracking Numbers area.

1) Download FedEx tracking numbers using the following two utilities. Demand Download Utility, which is available in the FSMS folder on your desktop. Meter Registration Utility during the meter registration process.

2.12.2 Editing FedEx Tracking Numbers

You must have Field Level access privileges to edit FedEx tracking numbers.

1) To edit FedEx tracking numbers, perform the following tasks.

   The system displays a warning message to prompt you to suspend all shipments before you edit tracking numbers.

   a) On the Tracking Numbers tab, click Edit Tracking Numbers. If the check box for tracking numbers cannot be checked, the tracking numbers already exist in the database.

   b) Make your changes in the FedEx Tracking Numbers section, then click Apply and Apply & Exit.

If you enter an invalid value, the number turns red.

2.12.3 Enabling and Monitoring FedEx Ground Tracking Numbers

You do not need to download FedEx Ground tracking numbers. The FedEx Ground tracking number range is automatically populated when FSMS is installed. This is true unless you are using EPIC ground (FDX1D) in which case ground shares the same tracking range with Express. The range is available when the master meter is properly configured by a FedEx Customer Service representative or field personnel. When the FedEx Ground tracking number range is depleted, the range automatically rolls over.
and begins again at 7010001.

A FedEx Ground tracking number shown in the following figure is composed of three parts: the customer’s 7-digit FedEx Ground account number, the 7-digit tracking number visible in the Tracking Numbers tab, and a check digit. This 15-digit tracking number is used to track FedEx Ground packages.

![Figure 73. FedEx Ground Tracking Number Composition](image)

FedEx Ship Manager Server does not allow a value of zero (0) or null for the first digit in the FedEx Ground tracking number range fields.

You can view and monitor your tracking numbers if you have a Ground Enabled meter associated with a FedEx Ground account number. The following task must be performed by a FedEx Customer Service representative or field personnel.

2) To enable FedEx Ground tracking numbers, perform the following steps.
   a) Open the FedEx Configuration Utility.
   b) Click the Meter Settings tab.
   c) In the Ground Options section, check the Ground Enabled box.
   d) Click Apply to apply your changes or click Apply & Exit to apply your changes and close the utility window.

3) To monitor FedEx Ground tracking numbers, perform the following tasks.
   a) Open the FedEx Configuration Utility.
   b) Click the Tracking Numbers tab. The FedEx Ground Tracking Numbers Prefixes section shows the FedEx Ground accounts and tracking number ranges for the selected meter number. Values for the tracking number range fields (Start, End, Current) must be specific to each FedEx Ground account on your system. Use the information in this table to guide your entries.

   **Note:** You cannot edit account or tracking numbers.

<table>
<thead>
<tr>
<th>Table 25. FedEx Ground Tracking Number Prefixes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefix</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>GRD Account #</td>
</tr>
<tr>
<td>Start</td>
</tr>
<tr>
<td>End</td>
</tr>
<tr>
<td>Current</td>
</tr>
</tbody>
</table>

The FedEx Ground Tracking Numbers Prefixes section is password protected. To change your tracking numbers, contact your FedEx customer service representative. Your FedEx customer service representative can use the following tracking number options. This table describes settings for FedEx Ground tracking number options.

<table>
<thead>
<tr>
<th>Table 26. FedEx Ground Tracking Number Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Settings</td>
</tr>
<tr>
<td>Copy Range to All Accounts</td>
</tr>
<tr>
<td>Edit</td>
</tr>
<tr>
<td>Reset Range to Default</td>
</tr>
</tbody>
</table>
2.12.3.1 Allocation of FedEx Ground Tracking Numbers

FedEx Ship Manager Server allocates the FedEx Ground tracking number range as follows for each FedEx Ground account number that has multiple meters tied to that account.

Example 1: Shared meter account number
FedEx Ground account number 1234567 with meter 44444
FedEx Ground account number 1234567 with meter 55555

If ten (10) packages are shipped using alternate meters, the tracking number assignment is as follows:
- 12345677000001
- 12345677000002
- 12345677000003
- 12345677000004
- 12345677000005
- 12345677000006
- 12345677000007
- 12345677000008
- 12345677000009
- 12345677000010

Example 2: Unique meter account numbers
FedEx Ground account number 1234567 with meter 44444.
FedEx Ground account number 9876543 with meter 55555.

The range for each meter could be the same entire allocation range for FSMS: 7000001 - 9999999.

If ten (10) packages are shipped using alternating meters, the tracking number assignment is as follows:
- 12345677000001
- 98765437000001
- 98765437000002
- 98765437000003
- 12345677000002
- 98765437000004
- 12345677000003
- 12345677000004
- 98765437000005
- 98765437000006

Note: In FSMS versions prior to FSMS v 10.0.1, the allocation of numbers in example 2 would have been as follows:
- 12345677000001
- 98765437000002
- 98765437000003
- 98765437000004
- 12345677000005
- 98765437000006
- 12345677000007
- 98765437000008
- 98765437000009
- 98765437000010

2.12.3.2 FedEx Ground Tracking Number Prefixes

FedEx Ground tracking numbers can be edited per ground account number or you can continue to use the pool across all ground accounts. Contact a FedEx Representative for more information or see the FedEx Ship Manager® Server Developer Guide.

2.13 FedEx SmartPost Delivery Confirmation Numbers

FedEx SmartPost settings are enabled if you are enrolled in the FedEx SmartPost program. The Delivery Confirmation checkboxes for each FedEx SmartPost service will display as read only on the SmartPost Settings tab for User Level View and Field Access Privileges. For Support and Development Access Privileges, the Delivery Confirmation checkboxes will be editable.
See the FedEx Ship Manager® Server Developer Guide for instructions on how to configure settings for optional FedEx SmartPost service.

### 2.14 FedEX SmartPost Returns Tracking Numbers Prefixes

As a result of adding the FedEx SmartPost Returns account information in the SmartPost Settings tab, the Tracking Numbers tab will auto-populate and display a range of Delivery Confirmation Numbers at the bottom in the SmartPost Returns Tracking Number Prefixes section in the Start, End, and Current columns.

See the FedEx Ship Manager® Server Developer Guide for instructions on how to configure settings for optional FedEx SmartPost service.

### 2.15 Troubleshooting Via HelpMe FedEx

To help resolve problems, FedEx Help Desk representatives can initiate remote access to your FSMS system using the GoToAssist tool. When you establish a GoToAssist session, the FedEx Help Desk representatives can perform the following services:

- Communicate with you via a chat window
- View your desktop and optionally enable you to view the Help Desk representative’s desktop
- Use the draw, highlight, and laser pointer tools on the shared desktop
- Share control of the mouse and keyboard
- Use a whiteboard feature for real-time collaboration
- Push Web pages
- Send and receive files
- Reboot and reconnect to your computer
- Transfer a session to an escalation desk
- Use diagnostic tools to retrieve key information on the status of your computer

#### 2.15.1 Initiate a GoToAssist Session

In the FedEx Ship Manager folder on your desktop, double-click the HelpMe FedEx icon.

### 2.16 Setting Troubleshooting Permissions

FedEx Ship Manager Server relies on Windows for basic services. You must create a Windows User Account that has administrative permissions, including the permission to logon as a service, to successfully run FSMS. See Setting Windows Administrator User Rights.

The following procedure describes how to verify the status of FSMS services.

**Note:** The steps in this troubleshooting procedure focus on the Fedex Admin service because that service must be started before the other FedEx services can run. If you find and fix a problem with how the Fedex Admin service is configured, then you must make sure that all the FedEx services are configured the same.

1) To verify the status of FedEx Ship Manager Server services, click Start > Settings > Control Panel.

   The Windows Control Panel appears.

2) Double-click Administrative Tools to display the administrative tools, and then double-click Services.

   The Services interface appears. On some computers, you might need to switch to Classic View in the Control Panel to show the Administrative Tools program.

3) The right pane of the Services interface shows the server process on the computer.

   Scroll down the list to display the FedEx services.

4) Check the Status column for each FedEx service to make sure it shows as Started.

5) If the Status does not show as Started, right-click the Fedex Admin service to display the pop-up menu, and then click Start.

   However, the FedEx services are set to start when your system is started so it is likely that attempting to manually start a service will fail. In this case, continue to the next step.

6) Right-click the Fedex Admin service to display the pop-up menu and then click Properties.

   The Properties dialog box appears.

7) On the General tab, make sure that Startup Type is set to Automatic.

8) On the Log On tab, make sure that the specified account is the same one that you used to log into the system.

9) If you logged into the system using a different user name and password, then log out and then log in again using the account...
that is specified to start the FedEx services.

10) If you logged into the system using the correct account, then check the following settings:
   a) In the Log On tab of the properties dialog box, make sure that you have the correct password configured by retyping it in the Password and the Confirm Password fields.
   b) Make sure that account has administrator privileges.

You can check this in Control Panel > User Accounts.

11) When you have verified all of your settings, restart the computer, login using the FedEx administrator account that you configured for the FedEx services, and then click Control Panel > Administrative Tools > Services to verify that the FedEx services are running.

2.17 Troubleshooting Printer Problems

If you are having trouble printing labels or reports from FSMS:

1) Verify that Windows can communicate with your printers, such as creating a short document in Windows Notepad, then printing it from Notepad. If your printer is properly configured, then you will be able to select the printer in the Print dialog box.

2) If you cannot see the printer, then reinstall the printer according to the printer manufacturer’s documentation.

3) Do not create a “Print to File” printer and set it for any EOD reports. When anything is printed to this type of printer, a dialogue box pops up asking for the file name. This dialogue box doesn’t show up when FSMS tries to print to this type of printer. Therefore, the CLOSE process never finishes, even after a restart of services.

2.18 Verifying Communications Using the CommSetup Utility

If you suspect that your shipping client cannot communicate with the FSMS, or that FSMS cannot communicate with FedEx, then use the FedEx CommSetup Utility to test the communications path between FedEx and your FSMS software. To launch the CommSetup Utility:

1) Browse to the FedEx Ship Manager Software directory (default is C:\FedEx) and double click on the Fedex_Bin folder.

2) Double click on the icon named CommSetup.exe.

3) When the CommSetup Utility opens, configure the connection settings to match your network access requirements, then click Test Internet Connection to FedEx.

You can also test the communications path by using the Demand Download Utility to refresh your local files. For details, see Using the Demand Download Utility. Or you could create a series of transactions to test the “round trip” communications with FedEx. Be sure that your test transactions do not initiate any revenue or customs actions. For example, you can initiate a tracking operation (transaction code 042) using a fictitious tracking number.

2.19 Selecting a Printer

Setting up printers for FSMS includes the following steps:

1) Install and configure the printer you select by following the manufacturer’s instructions.

2) See Supported Thermal Printers, Supported Dot Matrix Printers or Supported Laser Printers for a list of the printers supported by FSMS.

3) Define the printer to be used by each label and report as described in Labels Default Configuration and Reports Default Configuration.

2.19.1 Default Printer Settings

Your printers must be installed to work with the Windows operating system. If the computer where you have installed FSMS can communicate with a supported printer, then you can use that printer for FSMS printing operations. You can define different default printers and settings for each report and label you print.

See your printer and Windows documentation for information on how to install your printers. See Supported Thermal Printers, Supported Dot Matrix Printers or Supported Laser Printers for a list of thermal, dot matrix and laser printers supported within FSMS.

See Configuring Laser and Thermal Label Defaults for information on how to define the defaults for printing reports and labels.

2.19.1.1 Printing to a Windows-Based Print Share Network

If your label printer is connected to a Windows-based computer, you can print a label to the printer without adding the printer driver to your FSMS server. To do this, you must add a field to your FSMS transactions. Complete the following steps to use a Windows-based print share network:
1) Connect the label printer to the Windows-based computer.
2) Configure the printer using the standard Windows steps for printer configuration.
3) Use the printer’s Properties > Security tab to add the User account that you use to run FSMS.

That User account must be configured on the computer that hosts the printer and the password must be the same as it is on the FSMS server.

2.19.1.2 Labels Default Configuration

FedEx Ship Manager Server supports a variety of label options, including thermal, plain paper and customizable labels. After you have configured a printer on your Windows system, use the Label Settings tab and the Report Settings tab to define a default printer for each type of label and report.

The following thermal label sizes are supported by FSMS:
- 4” x 6”
- 4” x 8”
- 4” x 9”

Thermal labels are available with document tabs (doc-tabs) that can be configured with shipment detail. See Configuring Laser and Thermal Label Defaults for information on how to define the default printer for different labels.

You can also specify the printer ID and type in a shipping transaction, which overrides the default printer setting. See the FedEx Ship Manager® Server Developer Guide for information on setting up shipping transactions.

2.19.1.3 Reports Default Configuration

You can individually configure each report and save it to any directory and, with the exception of the End-of-Day Report, to print on any printer. See Configuring Report Settings for information on how to define the default printer for different reports.

2.19.1.4 Report Viewer Utility

The Report Viewer Utility enables you to view, print and export Close reports and Shipment Reports. The Report Viewer organizes the reports by meter number.

Note: Use the FedEx SmartPost option on the Close reports area of the Report Viewer Utility to print FedEx SmartPost Detail and Manifest reports. See the FedEx Ship Manager® Server Developer Guide for instructions on how to print FedEx SmartPost reports.

Open the Report Viewer Utility

Navigate to the FedEx Ship Manager Server folder on your desktop and double-click the Report Viewer icon. The Report Viewer appears.
3. FedEx Rate and Data Downloads

FedEx Ship Manager® Server (FSMS) uses reference files that it gets directly from FedEx®. If you have performed a meter registration, then you should have all of the files you need. The Demand Download Utility enables you to manually update your FSMS system with the most current information from FedEx. FedEx Ship Manager Server also checks for updated files automatically at the reconcile time.

3.1 Download Basics

FedEx Ship Manager Server communicates with FedEx to obtain updated information required for shipping operations. A download operation can retrieve some or all of the following types of information.

- Express Domestic Rates/Discounts
- Express International Rates/Discounts
- ODA/OPA
- Express Earned Discounts
- EU Postal Surcharge
- Express Domestic List Rates
- Express International List Rates
- Ground Earned/Discount Rates
- Ground List Rates
- SmartPost Rates
- SmartPost List Rates
- SmartPost Earned Discounts
- Tracking Numbers — available for FedEx (FedEx Express and FedEx Freight), FedEx Ground, and FedEx SmartPost shipping
- URSA Table — available only for the master meter
- ESRG Data
- Software — available only for the master meter
- Shipping Tables — available only for the master meter
- Maintenance — available only for the master meter - Update Features

3.1.1 What Files Do You Need?

FedEx Ship Manager Server requires several data files for routing, rating, and tracking number management, as well as software updates that must be transmitted as changes are made to these files. These files are automatically updated and downloaded to your server if they have been staged by FedEx. You can also download these files on demand, for example, if you need a new tracking number range.

3.1.2 How Often to Download

Downloading updated information from FedEx happens automatically each day at the Reconcile Time, a setting on the System Settings tab. Registering a meter also causes a download. Typically, a manual download is not required during normal operations.

3.1.3 What is an URSA File?

The Universal Routing and Sorting Aid (URSA) for FedEx Express shipments is one of the files that you download from FedEx. A single URSA file is used by all meters. FedEx Ship Manager Server uses the URSA file to validate service offerings and to provide routing codes that direct a shipment through the delivery network. The URSA file is updated at least monthly by FedEx and is downloaded during the normal download operations when new routing information is available.

3.2 Ways to Download FedEx Files

FedEx Ship Manager Server can receive downloads through any of the following methods:
As part of the nightly reconcile process
As part of a transaction request
As part of a meter registration
Manually through the Demand Download Utility

3.2.1 About Automatic Downloads

When you configure your FSMS server, you specify the Reconcile Time on the System Settings tab. The Reconcile Time is when your server communicates with FedEx to download any new components, such as rates, URSA information, new tracking numbers and other required information.

The Reconcile Time defaults to 0300 but you can configure it for a time when there is no server activity.

Note: You cannot set the Reconcile Time to 0000.

3.2.2 FedEx Ship Manager Server Transaction Requests

You can use a FedEx transaction to initiate download operations. For example:

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>057/157</td>
<td>Provides the same functionality as the Demand Download Utility. The Download Flag field indicates which downloads you want to perform.</td>
</tr>
</tbody>
</table>

For more information about transactions, see the FedEx Ship Manager® Transaction Coding Reference Guide and the FedEx Ship Manager® Server Developer Guide.

3.2.3 Using the Demand Download Utility

FedEx Ship Manager Server requires several data files for routing, rating and tracking number management, as well as software updates that must be transmitted as changes are made to these files. These files are automatically updated and downloaded to your server during Reconcile if they have been staged by FedEx. If you need to have files updated prior to system Reconcile (for example, if you need a new tracking number range), you may use the Demand Download Utility to initiate the request.

1) To run the Demand Download Utility, perform the following steps.

   a) Navigate to the FedEx Ship Manager Server folder on your desktop and double-click the FSMS Demand Download icon.

   The FedEx Demand Download dialog box appears (see Bonus and Earned Discount Option on the Demand Download Utility).

   b) In the Meter/Account list, click the meter for which you want to perform a download.

   c) Select the checkbox next to each of the items you want to download.

   If an item is not available for the selected meter, it is dimmed. URSA Table, Software, Shipping Tables, and Maintenance items are loaded for the master meter only. You can download FedEx Express rates and tracking numbers, if necessary, for each individual meter in your list (both master and child).

   Note: Files available only for the master meter are system level components and are not meter-specific.

   d) Click Start to download the selected items.

   FedEx Ship Manager Server displays the FedEx Download Status window so that you can monitor the progress of your download.

   When the download is complete, click Exit to close the FedEx Download Status window.

   e) To exit the Demand Download Utility, click Exit.

   Note: FedEx Ship Manager Server does not implement the data you downloaded until you completely exit the Demand Download Utility.

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

This figure shows the FedEx Demand Download Utility for Express Bonus/Earned Discounts.

Figure 74. Bonus and Earned Discount Option on the Demand Download Utility
3.3 Downloading Rates and Discounts

Use the Demand Download Utility to manually update the rates and discounts that you use for FedEx Express and FedEx Ground® shipments and to request updated rate and discount information.

1) To run the Demand Download Utility and download rates and/or discounts, perform the following steps.
   a) Navigate to the FedEx Ship Manager Server folder on your desktop and double-click the FSMS Demand Download icon.
      The FedEx Demand Download dialog box displays.
   b) In the Meter/Account list, click the meter for which you want to perform a download.
   c) Select the Rates checkbox.
   d) Select the checkbox next to the FedEx Express rates you want.

You can download the following FedEx Express rates for each individual meter in your list (both master and child):

- Express Domestic Rates/Discounts
- Express International Rates/Discounts
- ODA/OPA
- Express Earned Discounts
- EU Postal Surcharge
- Express Domestic List Rates

The FedEx Demand Download Utility allows you to manually update rates and discounts for FedEx Express and FedEx Ground® shipments.
• Express International List Rates
• Ground Earned/Discount Rates
• Ground List Rates
• SmartPost Rates
• SmartPost List Rates
• SmartPost Earned Discount Rates

e) Click Start to download the selected items.

f) FedEx Ship Manager Server displays the FedEx Download Status window so that you can monitor the progress of your download. When the download is complete, the FedEx Download Status window closes automatically.

g) To exit the Demand Download Utility, click Exit.

Note: FedEx Ship Manager Server does not implement the data you downloaded until you completely exit the Demand Download Utility.
4. Backing Up and Restoring Local FedEx Data

It is important to maintain current backup files of your databases. FedEx Ship Manager® Server (FSMS) has configuration settings that define when to back up your files and where to place the backup data. Make sure that your backup file locations are on a different computer than the one that is hosting the FSMS application. For increased reliability, copy backup files to a remote location as well. Monitor and plan the temp file size based on your purging schedule to ensure that the storage needed for temp files is large enough to accommodate the history being tracked.

You can backup from any version from 12x and above families and restore only in the same version that you backed up the data from. For example, you can backup from 1205 and restore in 1205; you cannot restore in say, 1206.

Also, note that you can restore only on a clean database and not on a database that already has data.

If you are generating custom labels or saving label buffer files or 2D barcode files to a folder such as FedEx Temp, include cleaning up that folder in your maintenance schedule to avoid performance issues.

The utility will detect the version of the FSMS currently being used. In the scenario where you attempt to run the utility on a system that does not have a supported version of FSMS installed, a window with the following message will be returned. “The supported FSMS version could not be found.” As a result, the utility will not run and an ‘OK’ information window will be displayed and when ‘OK’ is clicked the utility will exit.

Figure 75. Backup and Restore Utility

The following data can be backed up by selecting the appropriate checkboxes in the ‘Select Data’ section:

- Meter Configuration
4.1 Backup functionality

- When the 'Backup' radio button is selected the 'File' and 'Select Data' selection will become active. When the 'Start' button is clicked the utility will back up the selected data to the designated file.
- When 'Backup' radio button is selected the default file entry will be set to '%APPDATA%\FedEx\Backup.'
- You will have the ability to enter or select a different file and location to store backed up information.
- When the 'Backup' radio button is selected, all the checkboxes under 'Select Data' will be defaulted to checked. You can then select the data components you wish to back up. If the directory is modified it will reset all check boxes to checked under the 'Select Data' section.

4.2 Restore functionality

The restore functionality of this utility will only support the version that is backed up.

When the 'Restore' radio button is selected, then the 'File' and 'Select Data' selection will become active. When a file is selected via the 'File Picker', the utility will check the file and make active those checkboxes that have data backed up and deselects and deactivates those checkboxes that do not have data.

When the 'Start' button is clicked the utility will stop all appropriate services, restore the selected data information to the applicable directories and restart services.

Note:
- The 'Meter Configuration' checkbox can be used only to restore Meter Configuration Information.
- The 'System Configuration' checkbox cannot be used unless the 'Meter Configuration' checkbox information is selected.
- If the 'System Configuration' checkbox is checked the 'Meter Configuration' checkbox will be auto-checked.
- If 'Meter Configuration' and the System Configuration are checked and you un-check the 'Meter Configuration' checkbox then 'System Configuration' checkbox will be un-checked automatically.

In the scenario where you select 'Restore' radio button and attempt to restore backed up information on a different version, the utility compares the backed up version to the version installed and the following window text will be returned. 'The version you are restoring does not match the backed up version', and the restoration will be aborted and 'OK' information window will be displayed.
In the scenario where you select ‘Restore’ radio button and attempt to restore backed up information and you are unable to do so, then the following window text will be returned. "The selected data cannot be restored!", and the restoration will be aborted and any information restored until that point will be reversed and ‘OK’ information window will be displayed.

Once files are restored the ‘Files Restored’ window will be displayed. On clicking ‘OK’, the following information window will be displayed. "It is recommended that a demand download be executed for all support files to ensure most up to date data is available for shipping." If ‘OK’ button is clicked the window will close and will be returned to the Utility window.

4.3 Support

The utility has the ability to gather critical files needed, for troubleshooting purposes, and compress them to facilitate file transfer. This is supported by an additional tab called ‘Support’. Note that this tab will be visible to all access levels.

The file default entry is set to ‘%APPDATA%\FedEx\Backup’. You will have the ability to enter or select a different file and location to store support information. If the support data file is present in the defined location and the 'Start' button is clicked, the utility will overwrite the current information.
The Support information checkboxes will gather the following when checked:

- Always selected and cannot be de-selected:
  - Meter & System Configuration: Etc, FedEx_Comm, FedEx_Tc, & FedEx_Cfg Folders
  - Transaction Logs: trans.in & trans.out
  - Event Logs: FedEx Event Logs, Application Event Logs, & System Event Logs
  - Web Services Logs: %APPDATA%\FedExWebSvcsLog folder.

- Always selected and can be de-selected at the User Level:
  - Ship Database: ship.db, ship.log, and FedEx_Scripts folder
    - Active = Live shipping data
    - Backup = Backup shipping data based on settings found in System Settings Tab in FSMS Configuration

- Rate Files: Configured rate data files location (example: install drive\FedEx\dotnetrating)

The Ship Database checkbox will function as follows:

- Default - Ship Database is checked with the sub checkboxes ‘Active’ and ‘Backup’ enabled and checked when the Support tab is clicked
- ‘Active’ and ‘Backup’ checkboxes can be checked and unchecked independently of each other.
  - If neither the ‘Active’ nor the ‘Backup’ checkboxes are checked then the Ship Database will be unchecked and no database information will be captured upon clicking the ‘Start’ button

Figure 79. Support information
When the selected files are copied and compressed an information window will display the following information:
'The following file(s) have been successfully copied and compressed from FSMSXXXX version as listed: <List all selected files>'

Note: 'XXXX' represents the software version detected by the utility.

4.4 Configuring Database Settings

Use the FedEx Ship Manager® Server Configuration Utility System Settings tab, as shown in System Settings Tab, to define backup and file retention settings.

1) Under Database, in the Backup Time field, specify the time each day for the FedEx Ship Manager® Server to back up shipping data to the specified directory. Specify the time in the 24-hour (hhmm) format (for example, 0100 equals 1 a.m.).

2) In the 1st Backup Directory field, type a directory path or click the Folder icon ( ) to browse and select a directory.

3) In the 2nd Backup Directory field, type a directory path or click the Folder icon ( ) to browse and select a directory.

Note: If No Shiptime Rates is selected on the Meter Settings tab, then no rates will be stored in the database.

4.5 Configuring Ship History Settings

Use the FedEx Ship Manager® Server Configuration Utility System Settings tab, as shown in System Settings Tab, to define file retention settings.

1) In the Retention Interval field, specify the length of time your FedEx Express® shipping history information is stored by FedEx Ship Manager® Server.

2) In the Purge Time field, specify the time at which the Ship History files are purged after the retention interval has elapsed. Specify the time in the 24-hour (hhmm) format; for example, 1600 equals 4 p.m.

3) In the Export Time field, specify the time at which Ship History files are exported after the retention interval has elapsed. Specify the time in the 24-hour (hhmm) format; for example, 1700 equals 5 p.m.

4) In the Domestic Express field, type a directory path or click the Folder icon ( ) to browse and select a directory.

5) In the International Express field, type a directory path or click the Folder icon ( ) to browse and select a directory.

6) In the International MPS Express field, type a directory path or click the Folder icon ( ) to browse and select a directory.

7) In the Ground field, type a directory path or click the Folder icon ( ) to browse and select a directory.

8) In the LTL Freight field, type a directory path or click the Folder icon ( ) to browse and select a directory.
9) In the SmartPost field, type a directory path or click the Folder icon ( ) to browse and select a directory.