

FedEx®



FedEx Ship Manager® Server

Technical What's New Guide

Version 18.10

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Disclaimer

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

About This Document

The *FedEx Ship Manager® Server Technical What's New Guide* provides technical information about features in this release. It contains descriptions of new features, transactions and transaction fields that make up the new functionality and enhancements included in the software since the v 20.0.1 release.

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

Note: This document lists the data elements for this release of the FedEx Ship Manager® Server.

Audience

This document is intended for the following audiences.

Shipper managers, users, or developers interested in obtaining FedEx Ship Manager Server

Customer managers, users, or developers using FedEx Ship Manager Server for the first time

Customer managers, users, or developers already using FedEx Ship Manager Server wanting to learn about the new and enhanced features in this release

Managers, users, or developers of third-party development organizations

Conventions

This guide uses the following conventions in the text.

Indicator	Description
Courier New	Sample transaction code is formatted in Courier New.
<i>Note</i>	Important notices begin with the word “Note.”
Bold	In task instructions, software user interface elements, or information you need to enter in a field or transaction, are formatted in bold.
<i>italics</i>	Names of documents and FSMS transactions are shown in italics. For instance, the <i>020/120 Global Ship Request/Reply</i> . First occurrence of a term is italicized followed by a definition. For instance, <i>EEL filing</i> (Electronic Export Information).
purple	Cross-references are in purple.

Resources

FedEx Service Guide: fedex.com/us/service-guide

FedEx Developer Resource Center: fedex.com/developer

Support

Support Type	Access	Prompt	Support Topics	Hours
Web	FedEx.com	NA	NA	NA
FedEx Technical Support	1.877.339.2774	FedEx Ship Manager Server	fedex.com FedEx Ship Manager FedEx Web Services More options	Monday to Friday CT 7 a.m. - 9 p.m. Saturday 9 a.m.- 3 p.m.
FedEx Customer Service	1.800.463.3339	In a few words, please say what you are calling about	Schedule a pickup I need shipping rates Track a package Find a FedEx location More options	24 hours a day, 7 days a week
FedEx Dangerous Goods	1.800.463.3339	<i>Say dangerous goods or type 81 on phone keypad.</i> <i>Note: 81 is the IVR option for Dangerous Goods for the support number 1.800.463.3339</i>	Schedule a dangerous goods or HazMat pickup, ship alcohol or firearms, get rates or order supplies Technical Support International Dangerous Goods questions Speak with a Dangerous Goods representative	Monday to Friday CT 7 a.m. - 7 p.m. Saturday CT 10 a.m.- 2 p.m.

FedEx Ship Manager[®] Server software is free. Contact a FedEx support representative if you wish to expand your current FSMS installation or want additional information.

If you have questions or need technical assistance:

- United States and Canada: call **1.877.339.2774**. Support hours are 7 a.m. to 9 p.m. CT Monday through Friday and 9 a.m. to 3 p.m. CT Saturday.
- Europe: email techsupport_emea@fedex.com
- The Indian Subcontinent, the Middle East and Africa: email meisatechsupport@fedex.com
- Asia-Pacific: email fdxhelpdesk@fedex.com
- Brazil: email ct-brazil@corp.ds.fedex.com
- The rest of Latin America and the Caribbean: [click here](#) for your country's dedicated support phone number

FedEx Service Guide

Within this document, 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 **'View the FedEx Service Guide PDF'** option in the orange box on the left.

2D Barcode Enhancements

When FedEx Ship Manager Server is upgraded from a lower family of software, appropriate **2D base 64** flag is retained with default value in both latest and older versions.

This in turn provides option to **print both Legacy and Base 64 barcode** type of labels.

The enhancement also provides following upgrades to existing 2D barcode functions:

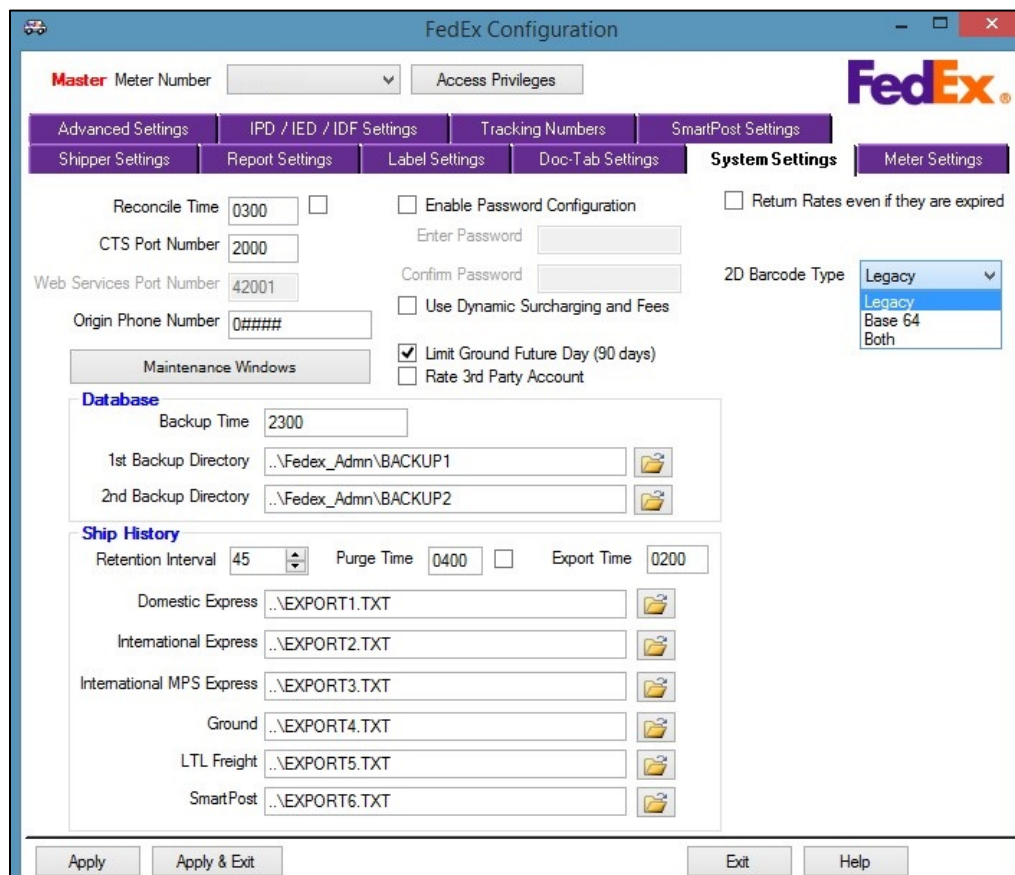
- The data files for 2D base 64 flag from a lower family version is carried to latest version (such as, 200x) with default value =both (the files are available in both the versions)
- The 2D contents print translates entire 2D string to base 64, thus generates labels even when non alphanumeric or special characters are included (such as, double quotes and commas).

The new **2D Barcode Type** dropdown is added in the **System Settings** tab. This enables you to choose a specific 2D Barcode type to reflect in the 120 Global Ship Reply Transaction. The options are as follows:

- Legacy
- Base 64
- Both

Note: The default value is set to “Both”.

Figure 1: System Settings screen with 2D Barcode Type dropdown option



Tag **5791**, **5792** and **5793** is added to enable printing of 2D custom labels in base 64 format in 120 Global Ship reply transactions.

120 Global Ship Reply Transaction

Table 1: 2D Base 64 Barcode

Field ID	Field Name	Update	Affected Transaction
5791	2D Base 64 Barcode	New Field	020/120 Global Ship Request/Reply transaction
	Description This reply tag allows 2D custom labels to be printed in base 64 format.		
	Type: AN	Minimum Length: 2	Maximum Length: 600
	Multiple Occurrence: N	Input/Output: O	Carrier: FDXE, FDXG
	Valid Values (if applicable or NA): NA Default Value (if applicable or NA): NA Optionality (Required, Optional, Conditional): NA Shipment vs. Piece vs. Commodity Level: Piece		

The details of **C.O.D. return 2D base 64 barcode** fields are explained in the following table.

Table 2: C.O.D. Return 2D Base 64 Barcode

Field ID	Field Name	Update	Affected Transaction
5792	C.O.D. Return 2D Base 64 Barcode	New Field	020/120 Global Ship Request/Reply transaction
	Description This reply tag allows C.O.D. Return 2D custom labels to be printed in base 64 format.		
	Type: AN	Minimum Length: 2	Maximum Length: 600
	Multiple Occurrence: N	Input/Output: O	Carrier: FDXE, FDXG

Field ID	Field Name	Update	Affected Transaction
	Valid Values (if applicable or NA): NA Default Value (if applicable or NA): NA Optionality (Required, Optional, Conditional): NA Shipment vs. Piece vs. Commodity Level: Piece		

The details of **IPD/IED/IDF 2D base 64 barcode** fields are explained in the following table.

Table 3: IPD/IED/IDF 2D Base 64 Barcode

Field ID	Field Name	Update	Affected Transaction
5793	IPD/IED/IDF 2D Base 64 Barcode	New Field	020/120 Global Ship Request/Reply transaction
	Description This reply tag allows IPD/IED/IDF 2D custom labels to be printed in base 64 format.		
	Type: AN	Minimum Length: 2	Maximum Length: 600
	Multiple Occurrence: N	Input/Output: O	Carrier: FDXE, FDXG
	Valid Values (if applicable or NA): NA Default Value (if applicable or NA): NA Optionality (Required, Optional, Conditional): NA Shipment vs. Piece vs. Commodity Level: Piece		

Mask Sender Account Number

You can choose to mask, or display, the sender account number in FedEx generated Airway bill (AWB) label prints, on International Priority & Economy service air waybill printed labels.

The option is available in FedEx Ship Manager Server **Config. screen > Label settings tab**

Figure 2: Mask Sender Account Number

The screenshot shows the 'FedEx Configuration' window with the 'Label Settings' tab selected. The window title is 'FedEx Configuration' and it features the FedEx logo in the top right corner. The interface includes a 'Master Meter Number' dropdown and an 'Access Privileges' button. The 'Label Settings' tab is highlighted among other tabs like 'Advanced Settings', 'IPD / IED / IDF Settings', 'Tracking Numbers', 'SmartPost Settings', 'Shipper Settings', 'Report Settings', 'Doc-Tab Settings', 'System Settings', and 'Meter Settings'.

Laser and Thermal Label Defaults

- Laser Printer ID: [Text Field]
- Thermal Printer ID: [Text Field]
- Label File Directory: [Text Field]
- Thermal Type: [Dropdown Menu]
- Label Stock: 4 x 6 Doc Tab [Dropdown Menu]
- Ground COD Return Reference: [Dropdown Menu]

Additional Laser and Thermal Copies

- International: Shipper [Dropdown], Customs [Dropdown], Manifest [Dropdown]
- IPD / IDF / IED Master: Shipper [Dropdown], Manifest [Dropdown], Customs [Dropdown], Recipient [Dropdown], IPD / IDF / IED Overnight Docs [Dropdown]

LTL Freight

- Label Copies: 0 [Spin Box]

Multi-PLY Printer Defaults

- Air Waybill Printer ID: [Text Field]
- Form Type: [Dropdown Menu]

Copy To All Meters

- Mask Sender Account Number for T/C and D/T
- Do Not Ship Labels
- Print Doc tab fields on consignee labels

Buttons at the bottom: Apply, Apply & Exit, Exit, Help.

Electronic Export Information (EEI) filing

Electronic Export Information (EEI) filing is mandatory for shipment originated from U.S, U.S. Virgin Islands or Puerto Rico to the destination country China, Russia, or Venezuela, irrespective of the shipment value.

In addition, if no license is available to ship an item to those destinations, the EEI filing must include the correct Export Control Classification Number (ECCN) regardless of the reason for control.

Implementation

During a 020 transaction, FedEx Ship Manager Server validates a list of regulations and based on the validation results, it returns a value in tag 1358. The value of EEI is returned in the tag 1358 enforces that an EEI is required and no longer defaulted.

Save a Customer's Designated File Path for Reports

Feature provides required update for the functionality to save designated report file path.

Existing function

Message – “**Exports report/s of selected category to <customer's file path>>**” is displayed during the file report generation session.

Updated function

The below functions are updated in FedEx Ship Manager Server configuration.

Function 1:

The message is updated as – “**The selected report(s) will be exported to <customer's destination>>**”.

Function 2:

The **OK** button is renamed to **EXPORT**.

Function 3:

FedEx Ship Manager Server retains saved file location when the session is restarted.

Software Product Key Expiration

A functionality to request a notification on pending expiration of the product key for the product. Refer to FedEx Ship Manager Server Installation Configuration Guide for complete installation steps.

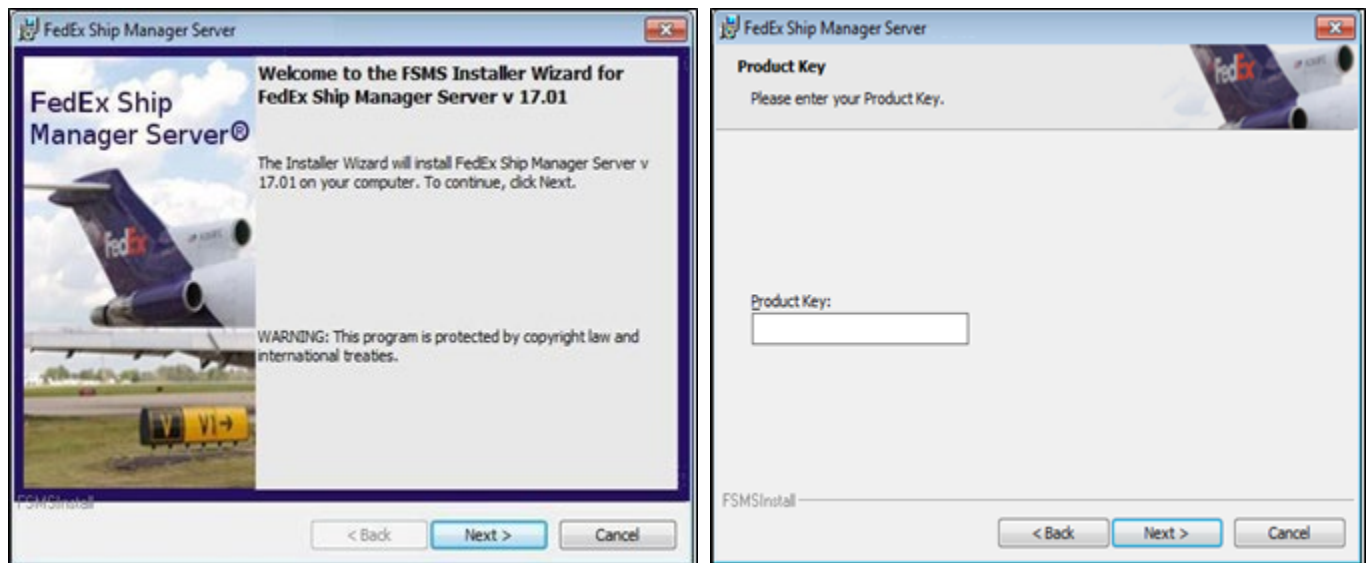
Following steps are updated in the procedure to newly install 18x version:

- The product key prompt screen is re-introduced.
- The product key just entered is validated and the installation continues if the validation is successful.
- The user can re-enter the product key if the validation is unsuccessful.

The feature is implemented in the below steps of **FedEx Ship Manager Server Installation**.

1. Click Next in FedEx Ship Manager Server Installer Wizard welcome screen to navigate to Product key screen.

Figure 1: FSMS Welcome screen and Product Key screen



2. Enter the product key and click 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 the general release date of the FedEx Ship Manager Server 18.00. However, if the 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, you will not be able to navigate to the next screen.

Hold At Location (HAL) Loc ID Openship Changes

A functionality to enable the HAL location when a required Location ID is not included in the transaction.

When a HAL transaction is being processed ("legacy" or "enhanced") based upon the checkmark in the FSMS configuration screen, validation is enabled when the code for the Location ID is not provided.

The tag **3146** field is used for implementing this feature 020/120 Global Ship Request/Reply Transaction.

020/120 Global Ship Request/Reply Transaction

Table 4: Basic Shipment Request Fields

Field ID	Field Length	Data Type	Input/Output	Carrier Code (Services)	Valid For	Meter Query or Configuration Request description
HAL Location ID						
3146	Min=5 Max=5	A/N	I/O	FDXE-All FDXG-US	All	<p>Field Level: Shipment</p> <p>Optional-Description</p> <ul style="list-style-type: none"> HAL Location ID field allows customers to provide the HAL location ID, at which the package is to be held.

Rate Modernization

Use Expired Ground Rates - This feature enables a customer to choose to continue using Ground Rates when it is expired, and if an updated rate file is not found.

Configurable Reconcile - The Database backup option includes Configure reconcile details, available for Backup and restore. The option

These features are accessible in FedEx Ship Manager Server **config screen > System Settings tab**.

Use Expired Ground Rates

The rates can be returned even if they are expired for Express and Ground separately by selecting different checkbox option in FedEx Ship Manager Server config. screen, as shown in the Figure 1.

Figure 3: System Settings tab

Table 5: System Settings tab fields

Field	Description	User Level	User Level -View	Field Level	Support Level
Return Rates even if they are expired <ul style="list-style-type: none"> Express Ground 	Select this box to receive expired rates for Express and Ground services separately when the current rates are expired.	Tab not available	Visible and Editable	Visible and Editable	Visible and Editable

Tag **629** and **638** is used for implementing this feature in Meter Query Configuration. This tag allows to enable or disable the option for returning GROUND rates in a reply transaction, even if they are expired. The fields for the tag is as follows:

070 Meter Query or Configuration Request

Table 6: 070 Meter Query or Configuration Request fields

Field ID	Field Length	Data Type	Input/ Output	Carrier Code (Services)	Valid For	Meter Query or Configuration Request description
Return Rates Even If They Are Expired						
629	Min=1 Max=1	A	I/O	FDXE FXFR FDXS	All	<p>Field Level: Shipment/Configuration Required*</p> <p>Required = To return all relevant information for a configured meter. Optional = If you want to make updates via the 070-meter update transaction.</p> <p>Description</p> <ul style="list-style-type: none"> This field allows you to enable/disable (turn on/off) returning rates in a reply transaction even if they are expired. Valid Values: <ul style="list-style-type: none"> Y N Default: N

Field ID	Field Length	Data Type	Input/ Output	Carrier Code (Services)	Valid For	Meter Query or Configuration Reply description
638	Min=1 Max=1	A	I/O	FDXE, FXFR, FDXS	All	<p>Field Level: Shipment vs. Piece vs. Commodity vs. Combination Level: Shipment/Configuration</p> <p>Required*</p> <p>Required = To return all relevant information for a configured meter. Optional = If you want to make updates via</p>

						<p>the 070-meter update transaction.</p> <p>Description</p> <ul style="list-style-type: none"> This tag allows you to configure ability to enable / disable (turn on / off) the option for returning GROUND rates in a reply transaction even if they are expired. Valid Values: <ul style="list-style-type: none"> Y N Note: Y=Enable, N=Disable Default: N
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107 Meter Query or Configuration Reply

Table 7: 170 Meter Query or Configuration Reply fields

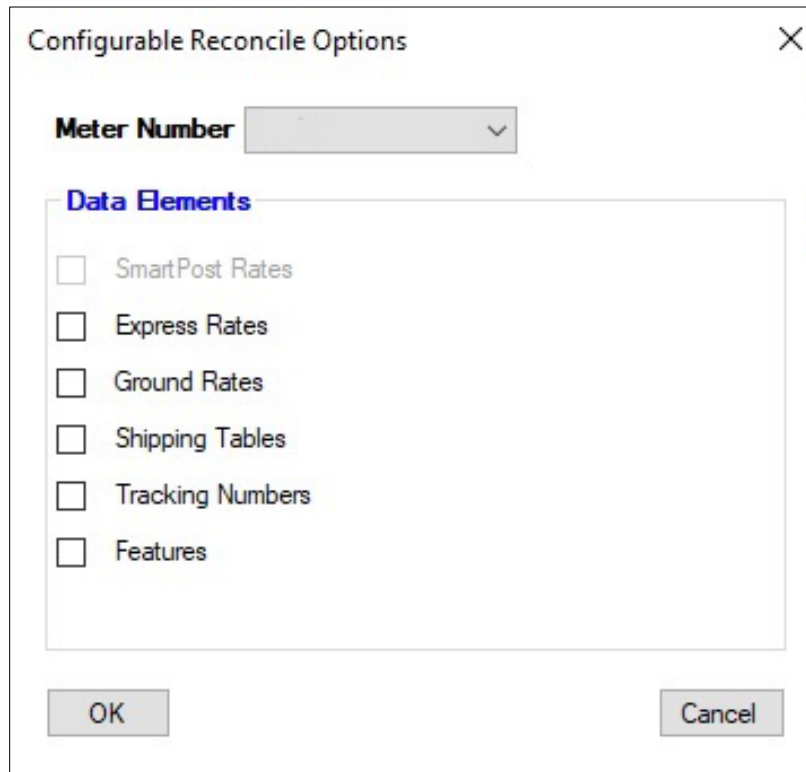
Field ID	Field Length	Data Type	Input/ Output	Carrier Code (Services)	Valid For	Meter Query or Configuration Reply description
Return Rates Even If They Are Expired						
629	Min=1 Max=1	A	I/O	FDXE FXFR FDXS	All	<p>Field Level: Shipment/Configuration Required*</p> <p>Required = To return all relevant information for a configured meter.</p> <p>Optional = If you want to make updates via the 070-meter update transaction.</p> <p>Description</p> <ul style="list-style-type: none"> This field allows you to enable/disable (turn on/off) returning rates in a reply transaction even if they are expired. Valid Values: <ul style="list-style-type: none"> Y N Default: N

Field ID	Field Length	Data Type	Input/ Output	Carrier Code (Services)	Valid For	Meter Query or Configuration Reply description
638	Min=1 Max=1	A	I/O	FDXE, FXFR, FDXS	All	<p>Field Level: Shipment vs. Piece vs. Field Level: Shipment/Configuration: Shipment/Configuration</p> <p>Required* Required = To return all relevant information for a configured meter. Optional = If you want to make updates via the 070-meter update transaction.</p> <p>Description</p> <ul style="list-style-type: none"> • This tag allows you to configure ability to enable / disable (turn on / off) the option for returning GROUND rates in a reply transaction even if they are expired. • Valid Values: <ul style="list-style-type: none"> ○ Y ○ N ○ Note: Y=Enable, N=Disable • Default: N

Configurable Reconcile

Reconcile Options button added in System settings tab, as shown in Figure 1. This option provides rate change control and validation to help prevent unknown rate anomalies and mitigate impact.

Figure 4: Configurable Reconcile Options



The screenshot shows a dialog box titled "Configurable Reconcile Options" with a close button (X) in the top right corner. At the top, there is a "Meter Number" dropdown menu. Below this is a section titled "Data Elements" containing a list of six items, each with an unchecked checkbox:

- SmartPost Rates
- Express Rates
- Ground Rates
- Shipping Tables
- Tracking Numbers
- Features

At the bottom of the dialog box, there are two buttons: "OK" on the left and "Cancel" on the right.