



# **ELECTRONIC INVOICE**

**(Asia Pacific Region)**

**250 BYTE FIXED LENGTH INVOICE RECORDS**

## **Implementation Guide**

**FedEx Express & FedEx Ground**

**November 2017**

**This version is effective as of November 2017. Prior to implementation, contact your Electronic Commerce analyst to ensure you have the latest version available.**

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# CONTENTS

INTRODUCTION .....	5
WHAT IS EDI?.....	6
GUIDELINES AND LIMITATIONS .....	7
General.....	7
For Duty/Tax Invoicing .....	8
For Transmissions .....	8
INVOICING.....	9
INVOICE OVERVIEW .....	9
COMMUNICATION OPTIONS.....	10
sFTP .....	10
INVOICE RECORD LAYOUT.....	11
INVOICE SYNTAX .....	12
HEADER RECORD LAYOUT (HA1).....	13
DETAIL AIRBILL RECORD LAYOUT .....	16
NAME (B1) .....	16
NAME (B2) .....	17
AIRBILL (DC1) .....	18
AIRBILLEXT (DC2).....	20
AIRBILLMSG (DC4).....	21
DELIVERY (DD1) .....	22
PACKAGE (DE1) .....	23
PACKAGE (DE2) .....	24
CHARGE (DF1).....	25

COMMODITY (DG1) .....	26
SUMMARY RECORD LAYOUT.....	27
TRAILER (SZ1).....	27
NAME (SZ2) .....	27
CODES DICTIONARY .....	28

## **INTRODUCTION**

The purpose of this guide is to assist electronic data trading partners with information about implementing an Electronic Data Interchange (EDI) process with FedEx for invoicing data of FedEx Express and FedEx Ground shipments. The guide discusses benefits of EDI and how to get started with implementation. This guide will also provide resources for getting additional information.

## **WHAT IS EDI?**

Electronic Data Interchange (EDI) is the electronic exchange of business documents using a standardized format. The entities that transmit or receive this electronic data are called trading partners.

EDI can be used to transfer invoice data for FedEx Express and Ground shipments between FedEx and authorized trading partners.

EDI processing helps FedEx deliver top-quality service that takes advantage of advanced information-management technology. EDI can help customers increase efficiency while reducing errors and operating costs. Additional specific benefits of implementing EDI with FedEx include:

- Reduced paper handling and mailing costs. In most cases the costs to transmit an electronic document is considerably less than mailing costs.
- Invoices for multiple FedEx accounts can be combined into a single transmission. Electronic invoicing enhances your control over accounts payable, even when shipments originate from multiple sites.
- Eliminates keying of invoice data and reduces errors, so you'll spend less time and effort verifying and processing your bills.
- Electronic invoicing provides convenient verification of shipping charges and proof of delivery (FedEx Express only).
- Electronic invoicing allows for quick and accurate allocation of shipping costs to internal departments and third parties, streamlining your accounting and improving cash flow.
- Multiple data formats allow easy integration with Accounts Payable processes.

## **GUIDELINES AND LIMITATIONS**

### **General**

In addition to the terms and conditions stated in the FedEx Service Guide:

- On your normal billing cycle, you will receive an invoice file for all account numbers requested to be billed electronically.
- All shipments billed to the accounts that you provide to us for electronic invoicing will be included in the invoice transmission.
- Electronic documents are not considered "received" until they are accessible on the receiving mailbox.
- Electronic documents transmitted for electronic invoice is considered written documents. They constitute an original when they are printed from electronic files or records established and maintained in the course of business.
- Failure to retrieve electronic invoice files in a timely manner may result in termination of electronic invoicing by FedEx.
- Lack of reference data provided by the shipper is NOT a valid reason for invoice adjustments.
- Short payment problems identified by FedEx that are related to programming in your accounts payable system or databases must be corrected immediately.
- FedEx may modify electronic invoice formats at any time.
- After implementation, either party can terminate electronic invoice with prior notice.
- Shipments are governed by service conditions in the current FedEx Service Guide and Addendum.
- If there is a conflict between this guide and the FedEx Service Guide, the Service Guide will take precedence.

## **For Duty/Tax Invoicing**

The following guidelines and limitations apply to the FedEx Electronic Duty/Tax Invoicing process:

- Duty/tax Customs documentation may be mailed or available online.
- The duty/tax tracking number in the duty/tax record will be the same tracking number used for the transportation charges of the shipment.
- The International freight charges and duty/tax charges may be billed on separate invoices and may appear in different electronic invoice files.

## **For Transmissions**

FedEx will transmit your invoice files either daily or weekly on your preferred billing day. The following guidelines and limitations apply:

- Your ERS Analyst will assign a mailbox to you on our network, FedEx Net.
- At no cost to you, FedEx will pay for the transmission of invoice files to an electronic mailbox or to a value-added network of our choice. However, if you choose a different network, FedEx pays the costs of the transmission interconnect only. Your company is responsible for all charges from your value-added network provider.
- You will provide and maintain your equipment, software, services, and testing necessary to effectively and reliably send and receive electronic documents.
- You are responsible for using proper mailbox procedures to ensure that all electronic documents are duly authorized and protected from improper access.



# **INVOICING**

## **INVOICE OVERVIEW**

FedEx offers three formats for electronic invoicing. They are:

- CSV variable length format, which contains one Invoice Record per tracking number, multiple records per electronic file.
- 250 Proprietary fixed length format, which contains a Header Record, Detail Record and Summary Record.
- ASC X12 standard (variable) format, which contains one invoice per transaction set, and multiple transaction sets per electronic invoice file. Detail tracking number information contains one tracking number per LX loop, multiple tracking numbers per invoice trans-action set.

In the electronic invoicing file all tracking number detail follows the invoice number it supports. Once all the detail records have been supplied for a particular invoice, the next invoice record begins. This cycle repeats until the last invoice file is completed.

## **COMMUNICATION OPTIONS**

It is a FedEx Information Security requirement that customer data, both inbound and outbound, either be encrypted or be sent via a secured method. FedEx offers the following options for communication of data to trading partners.

### **sFTP** (secure File Transfer Protocol)

sFTP (secure File Transfer Protocol) uses dedicated ports to transfer data securely between FedEx and the customer. The connection is secure so no certificates or keys need to be exchanged. This also means that the commands, as well as the passwords, are secure. This option uses secure shell (SSH) encryption and a binary transfer. The data can either be pushed or delivered to a mailbox on FedEx Net.

### **AS2**

AS2 also known as EDI INT, or EDI over the internet is also supported by FedEx. **AS2** essentially creates a wrapper around EDI or flat files that enables sending them over the Internet. **AS2** is a real-time technology that provides security and encryption around the HTTP packets. It enables information transmitted over public and private global networks to be digitally signed, secured, and non-repudiated. The customer must have AS2 software to be able to use this option, but there are no network charges.

### **TD Access**

TD Access is software that allows trading partners to connect to their FedEx Net mailbox. TD Access handles encryption and compression of the files. A FedEx vendor supplies the software and walks the customer through the installation process. The vendor will make sure the trading partner can communicate correctly and helps the trading partner to configure TD Access to poll the mailbox at specified times. If files are present, they will be moved to a specified directory on the trading partner's system. There are no fees to the trading partner for this service.

### **Secured Website**

Trading Partners may wish to access their mailbox via a secured website. This is a manual process whereby the trading partner connects to a secure URL using a provided User ID and password. The website allows the trading partner to upload and download files. Only one file can be uploaded or downloaded at a time.

### **Value Added Network**

FedEx has the ability to transmit to a Value-Added Network (VAN). GXS is the VAN FedEx uses and GXS can interconnect to the trading partner's VAN. There are transmission costs for this option. Customer is responsible for VAN costs from GXS to their VAN and system.

# **INVOICE RECORD LAYOUT**

# **INVOICE LAYOUT**

## **INVOICE SYNTAX – Express & Ground**

An invoice file may have multiple invoices. An invoice may have multiple tracking numbers. The last detail record will be followed by two Summary records. Numeric fields are right justified and zero filled if data is not provided. Alphanumeric fields are left justified and space filled if data is not provided. Each record is 250 bytes.

<b>INVOICE FILE LAYOUT</b>				
<b>HEADER:</b>				
Invoice 1	HA1	INVOICE	1 record per invoice	Invoice number, date, total charge
	HA2	NAME	1 record per invoice	Name and address of billed account
	HA5	INVSUMMARY	1 record if any Express shipments	Summarizes pieces, weight and charges by payer type
	HA6	INVSUMMARY	1 record if any Ground shipments	Summarizes pieces, weight and charges by payer type
<b>DETAIL:</b>				
1 <sup>st</sup> Tracking Number	DB1	NAME	1 per tracking number	Name and address of shipper
	DB2	NAME	1 per tracking number	Name and address of recipient
	DB4	NAME	1 optional record for address corrections	Name and original address of recipient, if corrected
	DB5	NAME	1 optional record for alternate pick-up address	Alternate pick-up address (Ground)
	DC1	AIRBILL	1 per tracking number	Tracking number, service, net charges, Reference 1
	DC2	AIRBILLEXT	1 per tracking number	Bundle #, Reference 2 (Express), Reference 3 (Express)
	DD1	DELIVERY	1 per tracking number	Proof of Delivery and delivery exception information
	DE1	PACKAGE	1 per tracking number	Pieces, weight, declared value, Ground reference fields
	DE2	PACKAGEEXT	1 optional record, only for duties/taxes	For certain ancillary charges or France waiver
	DF1	CHARGE	Multiple, 1 for each charge component	Charge code, amount, exchange rate
	DG1	COMMODITY	1 optional record, only for duties/taxes	Country of manufacture and description
<b>HEADER 2:</b>				
Invoice 2	HA1	INVOICE	1 record per invoice	Invoice number, date, total charge
	HA2	NAME	1 record per invoice	Name and address of billed account
	HA5	INVSUMMARY	1 record if any Express shipments	Summarizes pieces, weight and charges by payer type
	HA6	INVSUMMARY	1 record if any Ground shipments	Summarizes pieces, weight and charges by payer type
<b>DETAIL:</b>				
1 <sup>st</sup> Tracking Number	Detail records above repeat, starting with DB1			
<b>SUMMARY:</b>				
	SZ1	TRAILER	1 per file	Number of invoices, shipments, total charges
	SZ2	NAME	1 per file	FedEx Remittance Address

### **REMITTANCE RECORD LAYOUT (US Payers Only)**

**HEADER:** One 80-byte record providing your check/reference number, settlement date if EFT, and Master EDI Account Number.

**DETAIL:** One 80-byte record for each invoice or tracking number or payment and /or invoice adjustment request; multiple records as needed.

**Note:** See page 32 if you prefer to send CSV remittance.

# HEADER RECORD LAYOUT (HA1)

Field Name	Type	Position	Length	Comments
<b>INVOICE</b>				
Header	A	1	1	'H'
Sort Field	A	2-3	2	'A1'
Record ID	A	4-13	10	'INVOICE'
Invoice Number	A	14-22	9	
Filler	A	23-44	22	
<b>NOTE:</b> First 6 positions of filler are for future expansion of the Invoice Number.				
Master EDI Number	A	45-53	9	Assigned by FedEx; not for shipping
Filler	A	54-56	3	For future expansion of the Master EDI Number.
Invoice Date	N	57-64	8	Format: YYYYMMDD
Bill-To Account Number	A	65-73	9	FedEx acct # invoice is billed to
Filler	A	74-76	3	For future expansion of the Bill-to Account Number.
<b>Total Invoice Charges</b>	N	77-91	15	13.2
<b>NOTE:</b> The sum of all 'Net Charges' for all tracking numbers on an invoice.				
<b>NOTE:</b> Non-Pay Resolution files will reflect the balance due remaining on the invoice.				
Charge Sign	A	92	1	'+' or '-'
Currency Code	A	93-95	3	Billing Currency
Number of Tracking Transactions	N	96-100	5	Total number of transactions on the invoice
GSA Contract Number	A	101-125	25	Applies to U.S. Gov't. customers only
Invoice Type	A	126	1	'O'-Original 'P'-Past Due 'N'-Non-Pay 'B'-Balance Due 'R'-Resend 'F'-Final Demand 'D'-Demand for Payment
Invoice Message Code	A	127-131	5	(FOR FUTURE USE)
Invoice Message Code	A	132-136	5	(FOR FUTURE USE)
Invoice Message Code	A	137-141	5	(FOR FUTURE USE)
<b>NOTE:</b> (FOR FUTURE USE) Invoice Message Code is not applicable in NONPAY Resolution records.				
Settlement Option	A	142-143	2	'D'-Intra-U.S. 'I'-International 'C'-Customs 'M'-Int'l Mixed (duty/tax) (frt & duty/tax)
<b>NOTE:</b> The 'Settlement Option' for Retail Sales and EEI Non-Trans transactions will be 'D' for Domestic.				
For FedEx Use Only	A	144-175	32	
For FedEx Use Only	A	176-184	9	
For FedEx Use Only	A	185-186	2	
Customer Store Number	A	187-196	10	
<b>NOTE:</b> The 'Customer Store Number' field applies to the Billed Account.				
Invoice Composition Code	A	197-199	3	'001' - FedEx Express only '002' - FedEx Ground only '003' - FedEx Express & ground '004' - Non- Trans transactions only '005' - FedEx Express & Non-Trans '006' - FedEx Express & Ground & Non- Trans '008' - SmartPost transactions only '009' - SmartPost transactions plus Express (with or without Ground) '010' - SmartPost transactions plus

Field Name	Type	Position	Length	Comments
				Ground
For FedEx Use Only	A	200	1	
Filler	A	201-250	50	
<b>NOTE:</b> INVOICE HEADER is followed by one NAME record for the Bill-To address of the account number billed.				
<b><u>NAME</u></b>				
Header	A	1	1	'H'
Sort Field	A	2-3	2	'A2'
Record ID	A	4-13	10	'NAME'
Invoice Number	A	14-22	9	
Filler	A	23-44	22	
<b>NOTE:</b> For future expansion of the Invoice Number.				
Qualifier	A	45-46	2	'BT'—Bill-To
Bill-To Account Number	A	47-55	9	
Filler	A	56-58	3	
<b>NOTE:</b> For future expansion of the Bill-to Account Number.				
Contact Name	A	59-93	35	
Company Name	A	94-128	35	
Address Line 1	A	129-163	35	
Address Line 2	A	164-198	35	
City	A	199-228	30	
State/Province	A	229-230	2	
Zip/Postal Code	A	231-240	10	
Country Code	A	241-242	2	
Filler	A	243-250	8	
<b><u>INVSUMMARY</u></b>				
<b>NOTE:</b> This 'INVSUMMARY' record summarizes the total number of packages, total weight and total charges for each payment type (Bill Shipper, Bill Recipient, Bill Third Party) as well as the combined total packages, total weight and total charges for all payment types.				
Header	A	1	1	'H'
Sort Field	A	2-3	2	'A5' or 'A6'
Record ID	A	4-13	10	'INVSUMMARY'
Invoice Number	A	14-22	9	Invoice number being billed
Filler	A	23-44	22	
Qualifier	A	45-46	2	'FE'— Express 'FG'— Ground
<b>NOTE:</b>				
<ul style="list-style-type: none"> <li>Express shipments will reflect an 'A5' in the 'Sort Field' followed by an 'FE' qualifier; Ground Shipments will reflect an 'A6' in the 'Sort Field' followed by an 'FG' qualifier.</li> <li>The following 'Bill Sender Pieces' and 'Bill Sender Weight' fields will not include Non-Transportation transactions, however, the 'Bill Sender Charges' and 'Total Charges' fields will include Non-Transportation transactions.</li> <li>The billed weights may occasionally be different from the sum of the individual weights of the DE1 records due to rounding.</li> </ul>				
Bill Sender Pieces	N	47-51	5	
Weight Unit by Payor	A	52	1	'L'—Pounds 'K'—Kilograms
Bill Sender Weight	N	53-59	7	6.1
Bill Sender Charges	N	60-74	15	13.2
Charge Sign	A	75	1	'+' or '-'

Field Name	Type	Position	Length	Comments
Bill Recipient Pieces	N	76-80	5	
Weight Unit by Payor	A	81	1	'L'-Pounds 'K'-Kilograms
Bill Recipient Weight	N	82-88	7	6.1
Bill Recipient Charges	N	89-103	15	13.2
Charge Sign	A	104	1	'+' or '-'
Bill Third Party Pieces	N	105-109	5	
Bill Third Party Weight	N	111-117	7	6.1
Bill Third Party Charges	N	118-132	15	13.2
Charge Sign	A	133	1	'+' or '-'
Total Pieces	N	134-138	5	
Weight Unit by Payor	A	139	1	'L'-Pounds 'K'-Kilograms
Total Weight	N	140-146	7	6.1
Total Charges	N	147-161	15	13.2
Charge Sign	A	162	1	'+' or '-'
Currency Code	A	163-165	3	Billing Currency
GST/HST Number	A	166-174	9	'121832950' 'HA5' record - FedEx Express '140728460' 'HA6' record - FedEx Ground
QST Number	A	175-184	10	'1003874920' 'HA5' record - FedEx Express '1018940643' 'HA6' record - FedEx Ground
<b>NOTE:</b> The 'GST/HST Number' and 'QST Number' fields are applicable to Canada payors only.				
Pickup Contract Flag				
EU VAT or MY GST Number	A	185-209	25	European Union customer VAT Number or Malaysia (MY) customer GST Number
FedEx Branch Registered VAT or GST Number	A	210-234	25	VAT Number for European Union countries or FedEx GST Number for Malaysia
GST/HST Number Extension	A	235-240	6	
QST Number Extension	A	241-246	6	
Filler	A	247-250	4	

## DETAIL AIRBILL RECORD LAYOUT

The beginning detail consists of two NAME records, one for the shipper and one for the recipient. Different qualifiers distinguish the two.

### NAME (B1)

Field Name	Type	Position	Length	Comments
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'B1'
Record ID	A	4-13	10	'NAME'
Invoice Number	A	14-22	9	
Filler	A	23-28	6	
<b>NOTE:</b> For future expansion of the Invoice Number.				
Tracking Number	A	29-40	12	Tracking number identifying shipment
<b>NOTE:</b> For customer level <b>ground</b> charges the Tracking Number will be systematically generated and not related to any specific package Tracking Number.				
Filler	A	41-44	4	
<b>NOTE:</b> For future expansion of the Tracking Number.				
Qualifier	A	45-46	2	'SH'—Shipper
Shipper Account Number	A	47-55	9	Express or Ground only if shipper is party billed; if not billed as shipper, field is space filled. Ground account level charges will be zero filled.
Filler	A	56-58	3	
<b>NOTE:</b> For future expansion of the Shipper Account Number.				
Contact Name	A	59-93	35	
Company Name	A	94-128	35	
Address Line 1	A	129-163	35	
Address Line 2	A	164-198	35	
City	A	199-228	30	
State/Province	A	229-230	2	
Zip/Postal Code	A	231-240	10	
Country Code	A	241-242	2	
Filler	A	243-250	8	
<b>NOTE:</b> NAME record repeats with new Qualifier.				



## NAME (B2)

Field Name	Type	Position	Length	Comments
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'B2'
Record ID	A	4-13	10	'NAME'
Invoice Number	A	14-22	9	
Filler	A	23-28	6	
<b>NOTE:</b> For future expansion of the Invoice Number.				
Tracking Number	A	29-40	12	Tracking # identifying shipment
<b>NOTE:</b> For customer level <b>ground</b> charges the Tracking Number will be systematically generated and not related to any specific package Tracking Number.				
Filler	A	41-44	4	
<b>NOTE:</b> For future expansion of the Tracking Number.				
Qualifier	A	45-46	2	'CN'-Consignee (Recipient)
Billed Account Number	A	47-55	9	Only if recipient is party billed; if not billed as recipient, field is space filled.
Filler	A	56-58	3	
<b>NOTE:</b> For future expansion of the Consignee Account Number.				
Contact Name	A	59-93	35	
Company Name	A	94-128	35	
Address Line 1	A	129-163	35	
Address Line 2	A	164-198	35	
City	A	199-228	30	
State/Province	A	229-230	2	
Zip/Postal Code	A	231-240	10	
Country Code	A	241-242	2	
Filler	A	243-250	8	

<b>'D-B3' NAME RECORD NOTE:</b>	If the delivery address listed on the shipping document was corrected by FedEx, the original address (if available) will follow in an additional NAME record, with a Qualifier of 'KN' and a Sort Field of 'B3'. This is only applicable to Intra-U.S. Express and Ground Service.
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# AIRBILL (DC1)

Field Name	Type	Position	Length	Comments
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'C1' (Non-Trans will use the DC3 record)
Record ID	A	4-13	10	'AIRBILL'
Invoice Number	A	14-22	9	
Filler	A	23-28	6	(Future expansion of the invoice number)
Tracking Number	A	29-40	12	Tracking # identifying shipment
Filler	A	41-44	4	(Future expansion of the tracking number)
Ship Date	A	45-52	8	Format: CCYYMMDD
<b>NOTE:</b> Customer level charges and out of cycle charges will reflect the service rendered date.				
Billing Source	A	53-54	2	'1'- Manual (Waybill/Manifest) '9'- Automated Source
<b>NOTE:</b> Customer level charges and out of cycle charges will reflect the service rendered date. Space-filled for Ground Service.				
Commerce Type	A	55-56	2	'D'-U.S. Freight 'I'-Int'l Freight 'C'-Customs (duty/tax) 'M'-Int'l Mixed (freight & duty/tax)
<b>NOTE:</b> Commerce Type 'M' (Int'l Mixed - freight & duty/tax) available for Canada only.				
Service Base	N	57-58	2	<b>See Codes Dictionary for list of available codes</b>
Service Packaging	N	59-60	2	<b>See Codes Dictionary for list of available codes</b>
Payment Payor	N	61	1	'1'-Bill Shipper '2'-Bill Recipient '3'-Bill Third Party
Reference Notes	A	62-101	40	If provided by shipper
<b>NOTE:</b> Reference Notes are limited to 40 characters if shipped from an automated source. US air bill shipments, Ground Shipments and International Shipments are limited to 24 characters.				
Net Charges	N	102-116	15	13.2, implied decimal
<b>NOTE:</b> The sum of all 'Billed Charge Amounts' for all CHARGE records on a tracking number.				
Charge Sign	A	117	1	'+' or '-'
Currency Code	A	118-120	3	Billing currency
Rebill Indicator	A	121	1	'1' or (Space) - First Billing '2'- Rebilled
Pre-rate Indicator	A	122-123	2	'Y'-charges calculated in advance (Space)-charges not pre-rated
Rate Scale	A	124-130	7	FedEx Express pricing scale or 'GROUND' or 'SMARTPO'
Region/Zone Code	A	131-132	2	Identifies shipping region
Region Origin Zip	A	133-135	3	First three digits of origin station zip (US/CA)
Filler	A	136-138	3	
Filler	N	139-141	3	
# of Distribution Addresses	N	142-146	5	
Form ID	A	147-150	4	
C.O.D. Check Amount	N	151-165	15	
C.O.D. Cross-Ref Tracking #	A	166-177	12	
Filler	A	178-181	4	
Tracking Number Message Code	A	182-186	5	<b>See Codes Dictionary for list of available codes</b>
Tracking Number Message Code	A	187-191	5	<b>See Codes Dictionary for list of available codes</b>
Tracking Number Message Code	A	192-196	5	<b>See Codes Dictionary for list of available codes</b>

Field Name	Type	Position	Length	Comments
Tracking Number Message Code	A	197-201	5	<b>See Codes Dictionary for list of available codes</b>
Tracking Number Message Code	A	202-206	5	<b>See Codes Dictionary for list of available codes</b>
<b>NOTE:</b> Tracking Number Message Codes are 5 bytes each and may occur up to five times.				
Consolidated Account (ICPC)	A	207-215	9	Non-U.S. EDI Masters Only
<b>NOTE:</b> The 'Consolidated Account' field is applicable to International Express shipments only.				
Filler	A	216	1	
Tender Date	A	217-224	8	If different from Ship Date
Company Code	A	225	1	'2' - FedEx Express '3' - FedEx Ground '9' - FedEx SmartPost
Miscellaneous Description Code	A	226-228	3	<b>See Codes Dictionary for list of available codes</b> (For Ground Service only)
Miscellaneous Description Code	A	229-231	3	<b>See Codes Dictionary for list of available codes</b> (For Ground Service only)
Miscellaneous Description Code	A	232-234	3	<b>See Codes Dictionary for list of available codes</b> (For Ground Service only)
Ground Service Code	A	235-237	3	<b>See Codes Dictionary for list of available codes</b> (For Ground Service only)
Multi weight ID/ Performance Pricing ID	A	238-246	9	For Ground Service only
Non-Duplicate Tracking Number Indicator	A	247	1	'Y' indicates the repetitive tracking number has been validated as a unique shipment for Express
Rating Indicator	A	248-249	2	'FR' - FedEx One Rate (Flat Rate)
Filler	A	250	1	

## AIRBILLEXT (DC2)

Field Name	Type	Position	Length	Comments
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'C2'
Record ID	A	4-13	10	'AIRBILLEXT'
Invoice Number	A	14-22	9	Invoice number being billed
Filler	A	23-28	6	(Future expansion of the invoice number)
Tracking Number	A	29-40	12	Tracking # identifying shipment
Filler	A	41-44	4	(Future expansion of the tracking number)
Past-Due Indicator	A	45	1	'Y'- Yes '(Space) '- No
Past-Due Invoice Number	A	46-54	9	First invoice number recognized as past-due for Earned/Bonus Discount purposes.
<b>NOTE:</b> The 'Past-Due Indicator' and 'Past Due Invoice Number' fields are applicable only if enrolled in Earned/Bonus Discount program.				
Filler	N	55-61	7	
Automation Device Name	A	62-66	5	If applicable
<b>NOTE:</b> The 'Automation Device Name' field, if applicable, is for Express shipments only. Not available for Ground or International shipments.				
Shipper Department	A	67-91	25	From automated device, if applicable
<b>NOTE:</b> The 'Shipper Department' field is applicable for Domestic Express shipping only.				
Bundle Number	N	92-98	7	If applicable
Returns Merchandise Authorization Number	A	99-118	20	Express Shipments; SmartPost Service
Reference Notes 2	A	119-148	30	Express Shipments Only
Reference Notes 3	A	149-178	30	Express Shipments Only
Zone Jump Postal Code	A	179-185	7	Ground Drop Shipments Only
Cross Reference Tracking Number	A	186-205	20	Ground Shipments Only
Master Tracking Number	A	206-214	9	Express Shipments Only
<b>NOTE:</b>				
<ul style="list-style-type: none"> <li>For Express IPD and IPDF shipments (Service Base codes '18' and '84' in the DC1 record), when shipped on a FXRS or CAFÉ device, this field will relay the 'Master Tracking Number' for the associated children tracking numbers.</li> <li>When the 'Tracking Number Message Code' (DC1 record positions 182-206) is '13028', this field will provide the Master Tracking Number for a FedEx International Direct Distribution shipment</li> </ul>				
Filler	N	215-217	3	
Automation Device Number	N	218-226	9	If applicable
<b>NOTE:</b> The 'Automation Device Number', if applicable, is for Express shipments only. Not available for Ground shipments.				
Original Tracking Number	A	227-246	20	
<b>NOTE:</b> The 'Original Tracking Number' is applicable to Express and Ground shipments and is used when '47007' (related to Return Shipments) appears in the DC4, positions 45-49.				
Return Shipment Type	A	247-249	3	
Filler	A	250	1	

## AIRBILLMSG (DC4)

Field Name	Type	Position	Length	Comments
<b>NOTE:</b> The DC4 AIRBILLMSG Record is an optional record that will generate whenever all five Message fields on the DC1record are already populated, or for certain codes with additional related message details, which will follow after the message code.				
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'C4'
Record ID	A	4-13	10	'AIRBILLMSG'
Invoice Number	A	14-22	9	Invoice number being billed
Filler	A	23-28	6	(Future expansion of the invoice number)
Tracking Number	A	29-40	12	Tracking # identifying shipment
Filler	A	41-44	4	(Future expansion of the tracking number)
Tracking Number Message Code	A	45-49	5	<b>See Codes Dictionary for list of available codes</b>
Message Data 1	A	50-74	25	Variable message data
Message Data 2	A	75-99	25	Variable message data
Message Data 3	A	100-124	25	Variable message data
Message Data 4	A	125-149	25	Variable message data
Message Data 5	A	150-174	25	Variable message data
Filler	A	175-250	76	Variable message data

## DELIVERY (DD1)

Field Name	Type	Position	Length	Comments
<b>Detail</b>	A	1	1	'D'
Sort Field	A	2-3	2	'D1'
Record ID	A	4-13	10	'DELIVERY'
Invoice Number	A	14-22	9	
Filler	A	23-28	6	(Future expansion of the invoice number)
Tracking Number	A	29-40	12	Tracking number identifying shipment
Filler	A	41-44	4	(Future expansion of the tracking number)
Pick-up Code	A	45-46	2	'1'-Regular Pick-up '2'-On Call Pick-up '3'-Dropped Off at FedEx Drop Box '4'-BSC Drop Off '5'-Station Drop Off
Origin ID	A	47-49	3	International Express Service Only
Destination ID	A	50-52	3	International Express Service Only
Handling Code	A	53	1	'H'- Hold 'D'- Delivery or (space)
<b>NOTE:</b> Delivery Exception Code, Attempt Date/Time, Recipient Signature, Delivery Schedule Code and Final Disposition Code are not available for Ground Service. Actual Delivery Date may or may not be available for Ground Service.				
Delivery Exception Code	A	54-56	3	<b>See Codes Dictionary for list of available codes</b>
<b>NOTE:</b> You may also need to refer to the 'Handling Code' above in position 53 for 'Hold at Station' instructions.				
Attempt Date	N	57-64	8	Format: CCYMMDD
Attempt Time	N	65-68	4	Format: HHMM
Actual Delivery Date	N	69-76	8	Format: CCYMMDD
Actual Delivery Time	N	77-80	4	Not available for Ground Service
Recipient Signature	A	81-102	22	Not available for Ground Service
<b>NOTE:</b> The 'Recipient Signature' field may contain the message, "Incorrect Tracking #" for packages not processed properly through FedEx shipping methods with non-corresponding package tracking numbers tendered to the FedEx Courier. In accordance with the FedEx Service Guide, a refund or credit will not be given.				
Delivery Schedule Code	A	103-104	2	<b>See Codes Dictionary for list of available codes</b>
<b>NOTE:</b> Delivery Schedule Code applies to Intra-U.S. Express Service only. Therefore, this field will be blank for Intra-U.S. Freight Service, International Service, Ground Service. Refer to the current FedEx Service Guide as the official source for delivery schedules.				
Delivery Disposition Code	A	105-106	2	<b>See Codes Dictionary for list of available codes</b>
<b>NOTE:</b> This field will provide an additional delivery exception event (may be the same as the Delivery Exception Code in positions 54-56). <b>Not available for Ground Service.</b>				
Service Level Percentage	A	107-109	3	
<b>NOTE:</b> Applicable for Earned/Bonus Discount program.				
Delivery Confirmation Flag	A	110	1	SmartPost Service only ('Y' or space)
Filler	A	111-250	140	

## PACKAGE (DE1)

Field Name	Type	Position	Length	Comments
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'E1'
Record ID	A	4-13	10	'PACKAGE'
Invoice Number	A	14-22	9	Invoice number being billed
Filler	A	23-28	6	(Future expansion of the invoice number)
Tracking Number	A	29-40	12	Tracking # Identifying shipment
Filler	A	41-44	4	(Future expansion of the tracking number)
Pieces	N	45-49	5	Number of pieces on the tracking number
Weight Unit	A	50	1	'L'-Pounds ' K'-Kilograms
Billed Weight	N	51-57	7	6.1 Express & Ground 5.2 SmartPost
Original Package Weight	N	58-64	7	6.1 Express & Ground 5.2 SmartPost
<b>NOTE:</b> 'Billed Weight' and 'Original Package Weight' fields not applicable for Duty/Tax transmissions.				
Dim Length	N	65-67	3	No decimal places
Dim Width	N	68-70	3	No decimal places
Dim Height	N	71-73	3	No decimal places
Dim Unit	A	74	1	'I'-Inches 'C'-Centimeters
Dim Divisor	N	75-77	3	
<b>NOTE:</b> For Express or Ground, dim fields will be provided only if package is billed dimensional weight.				
Declared Value	N	78-92	15	13.2 (always positive)
Customs Value	N	93-107	15	13.2 (always positive)
Customs Entry Number	A	108-122	15	Applicable for Int'l Duty/Tax only
Currency of DV/Customs	A	123-125	3	Currency of declared value or customs value
GSA Default Weight Flag	A	126	1	'Y'-Indicates default weight was applied (U.S. Government customers only)
Revenue Threshold Amount	N	127-141	15	13.2
Customer PO Number	A	142-166	25	For Ground Service & SmartPost only
Customer Dept. Number	A	167-191	25	For Ground Service & SmartPost only
Customer Invoice Number	A	192-216	25	For Ground Service & SmartPost only
<b>NOTE:</b> Customer PO Number, Dept. Number and Customer Invoice Number are for Ground shipments only, if provided by shipper.				
Multi-weight Weight	N	217-224	8	6.2 For Ground Service only
Ground Tracking Number	A	225-244	20	For Ground only
<b>NOTE:</b> The Ground Tracking Number may reflect spaces within the 20 character field. Customers may suppress spaces if necessary.				
Revenue Threshold Currency Code	A	245-247	3	
Sub-Class Postal	A	248	1	P- Parcel Post, B- Bound Printed Matter, M- Media Mail (SmartPost Only)
Process Category	A	249	1	M- Machine able, I- Irregular (SmartPost Only)
Package Size	A	250	1	N- Normal, O- Oversize, B- Balloon (SmartPost Only)

## PACKAGEEXT (DE2)

Field Name	Type	Position	Length	Comments
<b>NOTE:</b> The "PACKAGEEXT" Record is an optional record currently applicable for certain duty/tax transactions.				
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'E2'
Record ID	A	4-13	10	'PACKAGEEXT'
Invoice Number	A	14-22	9	Invoice number for air bill/tracking #
Filler	A	23-28	6	(Future expansion of the invoice number)
Airbill/Tracking Number	A	29-40	12	Air bill/tracking # identifying shipment
Filler	A	41-44	4	(Future expansion of the air bill number)
Storage/Refrig Days	N	45-46	2	Applicable to Charge Codes 420 & 421
Custody Days	N	47-48	2	Applicable to Charge Code 418
Number of Hours	N	49-52	4	Applicable to Charge Code 404
France Duty/Tax Waiver	A	53	1	'Y'-Yes (space)-No
International Ground Shipment Number	A	54-68	15	For Ground Service only
Fish & Wildlife Clearance Port	A	69-71	3	Applicable to charge code 352
Customs Additional Line Items	N	72-74	3	Applicable to charge code 350
Filler	A	75-250	176	



## CHARGE (DF1)

Field Name	Type	Position	Length	Comments
<b>NOTE:</b> Shipments may have multiple CHARGE records. Zero amount charges are possible in the event fees are waived. There will not be a CHARGE record for return 'COD' shipments.				
<i>For Ground shipments, additional charges may appear on a different invoice/file than the freight charges.</i>				
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'F1'
Record ID	A	4-13	10	'CHARGE'
Invoice Number	A	14-22	9	Invoice number for tracking number
Filler	A	23-28	6	(Future expansion of the invoice number)
Tracking Number	A	29-40	12	Tracking number identifying shipment
<b>NOTE:</b> If Ground charge is at invoice level, the 'Tracking Number' field will reflect a system generated number.				
Filler	A	41-44	4	(Future expansion of the tracking number)
Charge Code	A	45-47	3	<b>See Codes Dictionary for list of available codes</b>
Origin Charge Amt	N	48-62	15	13.2 (May be different from Billed Charge Amount only for Express International)
Charge Sign	A	63	1	'+' or '-'
Origin Currency Code	A	64-66	3	International Express Service only
Exchange Rate	N	67-84	18	9.9 - International Service only Intra-U.S. will use 000000001000000000
Billed Charge Amount	N	85-99	15	13.2
Charge Sign	A	100	1	'+' or '-'
Billed Currency Code	A	101-103	3	
Charge Count	A	104-108	5	Number of transactions for customer level charge (Ground Service only)
Call Tag Access Code	A	109	1	'E' - Electronic 'M' - Manual 'R' - Residential (Ground Service only)
Fuel Surcharge Factor	N	110-114	5	3.2 Express Service only
<b>NOTE:</b> The following 'Billing Service', 'Quantity' and 'Unit Price' fields are applicable to Non-Trans shipments only (see the DC3 NONTRANS record).				
Billing Service	A	115-116	2	'PM' - Packaging Materials (Retail Sales) 'SF' - EEI Filing Fee 'SR' - EEI Report Fee
Quantity	N	117-121	5	
Unit Price	N	122-136	15	13.2
Europe First Surcharge Band	A	137-138	2	
<b>NOTE:</b> The following 'Pickup Contract Flag' is applicable to FedEx Ground Shipments only. A 'Y' in this field indicates the billed party has agreed to pay pickup fees for the shipper.				
Pickup Contract Flag	A	139	1	
VAT/Non-VAT Flag	A	140	1	'N' - No 'Y' - Yes (European Union only) 'V' - VAT Charge
Italy VAT Code	A	141-143	3	
Bump-Up Weight Flag	A	144	1	Ground Service only
GST Exempt Flag	A	145	1	Malaysia only (Y or N)
Filler	A	146-250	107	

## COMMODITY (DG1)

Field Name	Type	Position	Length	Comments
<b>NOTE</b> This detail record will only apply to duty/tax invoices (Settlement Option 'C' or 'M', positions 142-143 in the 'HA1 INVOICE Record'). It is an optional record and will only be present when the duty/tax transaction includes a commodity description.				
Detail	A	1	1	'D'
Sort Field	A	2-3	2	'G1'
Record ID	A	4-13	10	'COMMODITY'
Invoice Number	A	14-22	9	Invoice number being billed
Filler	A	23-28	6	(Future expansion of the invoice number)
Tracking Number	A	29-40	12	Tracking number identifying shipment
Filler	A	41-44	4	(Future expansion of the tracking number)
Commodity Country	A	45-46	2	Country of mfg - first commodity
Commodity Description	A	47-96	50	Description - first commodity
Commodity Country	A	97-98	2	Country of mfg - second commodity
Commodity Description	A	99-148	50	Description - second commodity
Commodity Country	A	149-150	2	Country of mfg - third commodity
Commodity Description	A	151-200	50	Description - third commodity
Commodity Country	A	201-202	2	Country of mfg - fourth commodity
Commodity Description	A	203-250	48	Description - fourth commodity

## SUMMARY RECORD LAYOUT

### TRAILER (SZ1)

Field Name	Type	Position	Length	Comments
Summary	A	1	1	'S'
Sort Field	A	2-3	2	'Z1'
Record ID	A	4-13	10	'TRAILER'
Filler	A	14-28	15	
Filler	A	29-44	16	
Master EDI Number	A	45-53	9	
Filler	A	54-56	3	(Future expansion of the account number)
Total Invoice Count	N	57-63	7	Total number of invoices billed
Total Transaction Count	N	64-70	7	Total number of tracking numbers billed
Total Charges Due	N	71-85	15	13.2
Charge Sign	A	86	1	'+' or '-'
Billed Currency Code	A	87-89	3	
Filler	A	90-250	161	

**NOTE:** The summary TRAILER record is followed by a summary NAME record which provides the address for check remittance.

### NAME (SZ2)

Field Name	Type	Position	Length	Comments
Summary	A	1	1	'S'
Sort Field	A	2-3	2	'Z2'
Record ID	A	4-13	10	'NAME'
Filler	A	14-28	15	
Filler	A	29-44	16	
Qualifier	A	45-46	2	'RI'—Remittance
Filler	A	47-58	12	
Contact Name	A	59-93	35	'ATTN: EDI PAYMENT'
Company Name	A	94-128	35	'FEDEX ERS'
Address Line 1	A	129-163	35	'P O BOX 371741'
Address Line 2	A	164-198	35	
City	A	199-228	30	'PITTSBURGH'
State/Province	A	229-230	2	'PA'
Zip/Postal Code	A	231-240	10	'152507741'
Country Code	A	241-242	2	'US'
Filler	A	243-250	8	

## **CODES DICTIONARY**

The codes dictionary is a separate document. It is an Excel spreadsheet that lists the available code values used for an element. There is a separate TAB at the bottom of the document that correlates to each element; ie: SVC BASE, CHARGE, MISC DESC.

For a copy of this document email your Assigned FedEx Electronic Commerce Support (ECS) Analyst.