

810 Invoice

Status: Draft

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Created: 11/13/2004

810 Invoice

Functional Group=IN

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Required
020	BIG	Beginning Segment for Invoice	M	1			Required
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O	12			Used
LOOP ID - N1					200		
070	N1	Name	O	1			Required
080	N2	Additional Name Information	O	2			Used
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used
120	PER	Administrative Communications Contact	O	3			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
140	DTM	Date/Time Reference	O	10			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - IT1					200000		
010	IT1	Baseline Item Data (Invoice)	O	1			Used
015	QTY	Quantity	O	5		N2/015	Used
050	CTP	Pricing Information	O	25			Used
LOOP ID - PID					1000		
060	PID	Product/Item Description	O	1			Used
LOOP ID - SAC					25		
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - LM					10		
300	LM	Code Source Information	O	1			Used
310	LQ	Industry Code	M	100			Required

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Required
020	TXI	Tax Information	O	10			Used
LOOP ID - SAC					25		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
070	CTT	Transaction Totals	O	1		N3/070	Required
080	SE	Transaction Set Trailer	M	1			Required

Notes:

- 2/015 The QTY segment is used to specify a quantity of units which are expected as payments, e.g., trade-ins or returns.
- 3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Required

To indicate the start of a transaction set and to assign a control number

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Required
		Code Name 810 Invoice				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Required

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BIG Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Required

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Required
BIG02	76	Invoice Number Description: Identifying number assigned by issuer	M	AN	1/22	Required
BIG03	373	Date Description: Date expressed as CCYYMMDD	O	DT	8/8	Used
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	O	AN	1/22	Used
BIG05	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used
BIG06	327	Change Order Sequence Number Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set User: <i>This element is used by the publisher/manufacture group.</i>	O	AN	1/8	Used
BIG07	640	Transaction Type Code Description: Code specifying the type of transaction Code Name CI Consolidated Invoice CR Credit Memo DR Debit Memo	O	ID	2/2	Used
BIG08	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set Code Name 00 Original	O	ID	2/2	Used

Semantics:

- BIG01 is the invoice issue date.
- BIG03 is the date assigned by the purchaser to purchase order.
- BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments:

- BIG07 is used only to further define the type of invoice when needed.

CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Required
		Code Name BY Buying Party (Purchaser) SE Selling Party				
CUR02	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Required

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

REF Reference Identification

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Required
		Code Name				
		2I Tracking Number				
		BM Bill of Lading Number				
		CT Contract Number				
		FU Fund Code				
		Description: Defense Fuel Supply Center to bill back fuel purchases to the appropriate service or agency account fund				
		GT Goods and Service Tax Registration Number				
		IA Internal Vendor Number				
		IT Internal Customer Number				
		OI Original Invoice Number				
		PL Price List Number				
		TJ Federal Taxpayer's Identification Number				
		TX Tax Exempt Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
		User: <i>This data element is required in Canada.</i>				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User:

This segment is not recommended in the U.S.

This segment is REQUIRED in Canada.

Loop N1

Pos: 070	Repeat: 200
Optional	
Loop: N1	Elements: N/A

To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
070	N1	Name	O	1		Required
080	N2	Additional Name Information	O	2		Used
090	N3	Address Information	O	2		Used
100	N4	Geographic Location	O	1		Used
120	PER	Administrative Communications Contact	O	3		Used

N1 Name

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Required

To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Name BT Bill-to-Party RI Remit To SF Ship From ST Ship To VN Vendor	M	ID	2/3	Required
N102	93	Name Description: Free-form name	X	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) Code Name 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 12 Telephone Number (Phone) 15 Standard Address Number (SAN) 92 Assigned by Buyer or Buyer's Agent	X	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Used

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

Pos: 080	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify additional names or those longer than 35 characters in length

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name Description: Free-form name	M	AN	1/60	Required
N202	93	Name Description: Free-form name	O	AN	1/60	Used

N3 Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Required
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4 Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

PER Administrative Communications Contact

Pos: 120	Max: 3
Heading - Optional	
Loop: N1	Elements: 8

User Option (Usage): Used

To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named <u>Code Name</u> AP Accounts Payable Department AR Accounts Receivable Department BD Buyer Name or Department SU Supplier Contact	M	ID	2/2	Required
PER02	93	Name Description: Free-form name	O	AN	1/60	Used
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number <u>Code Name</u> BN Beeper Number CP Cellular Phone EM Electronic Mail EX Telephone Extension FX Facsimile TE Telephone	X	ID	2/2	Used
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number User: Refer to code list specified in 'PER03' for usage.	X	ID	2/2	Used
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER07	365	Communication Number Qualifier Description: Code identifying the type of communication number User: Refer to code list specified in 'PER03' for usage.	X	ID	2/2	Used
PER08	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.

2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 9

User Option (Usage): Used

To specify terms of sale

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	Terms Type Code Description: Code identifying type of payment terms Code Name 01 Basic 02 End of Month (EOM) 03 Fixed Date 05 Discount Not Applicable 07 Extended 12 10 Days After End of Month (10 EOM) 14 Previously agreed upon 18 Fixed Date, Late Payment Penalty Applies Description: Sales terms specifying a past due date, and a late payment percentage penalty applies to unpaid balances past this due date 22 Cash Discount Terms Apply Description: Contract terms specify that a cash discount is applicable CO Consignment NC No Charge	O	ID	2/2	Used
ITD02	333	Terms Basis Date Code Description: Code identifying the beginning of the terms period Code Name 1 Ship Date 3 Invoice Date 4 Specified Date 8 Invoice Transmission Date	O	ID	1/2	Used
ITD03	338	Terms Discount Percent Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O	R	1/6	Used
ITD04	370	Terms Discount Due Date Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD	X	DT	8/8	Used
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned	X	N0	1/3	Used
ITD06	446	Terms Net Due Date Description: Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	Used
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD08	362	Terms Discount Amount Description: Total amount of terms discount	O	N2	1/10	Used
ITD14	107	Payment Method Code Description: Code identifying type of payment procedures	O	ID	1/2	Used
		Code Name				
		C Pay By Check				
		E Electronic Payment System				
		L Letter of Credit				

Syntax Rules:

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

User:

This segment is not recommended in the U.S.

DTM Date/Time Reference

Pos: 140	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Required
		Code Name 011 Shipped				
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Required

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Loop IT1

Pos: 010	Repeat: 200000
Optional	
Loop: IT1	Elements: N/A

To specify the basic and most frequently used line item data for the invoice and related transactions

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	IT1	Baseline Item Data (Invoice)	O	1		Used
015	QTY	Quantity	O	5		Used
050	CTP	Pricing Information	O	25		Used
060		Loop PID	O		1000	Used
180		Loop SAC	O		25	Used
300		Loop LM	O		10	Used

IT1 Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 25

User Option (Usage): Used

To specify the basic and most frequently used line item data for the invoice and related transactions

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units)	X	R	1/10	Used
IT103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name CA Case CT Carton EA Each ST Set UN Unit	X	ID	2/2	Used
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/17	Used
IT105	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item User: <i>Standard Book Industry definitions should be applied to this element.</i> Code Name CA Catalog CT Contract NC No Charge User: <i>The book industry uses this code to specify free goods</i> NT Net Description: Indicates a net unit price PE Price per Each PR Promotion SR Suggested Retail	O	ID	2/2	Used
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: <i>When using both an RP and IB code value, the RP code value must be used first.</i> Code Name A1 Alternate ISBN B1 Volume Set B2 Library of Congress Code B3 Edition Code B4 Binding Code	X	ID	2/2	Used

Code Name

- B5 Title Code
- B6 Author Code
- B7 Publisher Code
- BN Bar-Coded Serial Number
- CB Buyer's Catalog Number
- EI Expense Identifier
- EN European Article Number (EAN) (2-5-5-1)

User:

ISBN-13

- GC Grade Code
- IB International Standard Book Number (ISBN)
- JN Job Number
- PO Purchase Order Number
- RP Replaced Part Number
- RU Run Number
- RY Record Keeping or Model Year
- SK Stock Keeping Unit (SKU)
- SL Seller's Lot Number
- UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)

Description: A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit

User:

UCC/EAN-14

- UP U.P.C. Consumer Package Code (1-5-5-1)
- VE Vendor Color
- VN Vendor's (Seller's) Item Number
- VO Vendor's Order Number

IT107	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: <i>Refer to code list specified in 'IT106' for usage.</i>	X	ID	2/2	Used
IT109	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
IT110	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: <i>Refer to code list specified in 'IT106' for usage.</i>	X	ID	2/2	Used
IT111	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
IT112	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: <i>Refer to code list specified in 'IT106' for usage.</i>	X	ID	2/2	Used
IT113	234	Product/Service ID	X	AN	1/48	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT114	235	Description: Identifying number for a product or service Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'IT106' for usage.				
IT115	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
IT116	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'IT106' for usage.				
IT117	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
IT118	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'IT106' for usage.				
IT119	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
IT120	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'IT106' for usage.				
IT121	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
IT122	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'IT106' for usage.				
IT123	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
IT124	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'IT106' for usage.				
IT125	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.
7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.
11. P2425 - If either IT124 or IT125 is present, then the other is required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

QTY Quantity

Pos: 015	Max: 5
Detail - Optional	
Loop: IT1	Elements: 3

User Option (Usage): Used

To specify quantity information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier Description: Code specifying the type of quantity	M	ID	2/2	Required
		Code Name				
		01 Discrete Quantity				
		02 Cumulative Quantity				
		38 Original Quantity				
		39 Shipped Quantity				
		40 Remaining Quantity				
		90 Acknowledged Quantity				
		Description: Network Recognition for message receipt				
QTY02	380	Quantity Description: Numeric value of quantity	X	R	1/15	Required
QTY03	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	O	Comp		Used
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Required
		Code Name				
		CT Carton				
		EA Each				
		PK Package				
		ST Set				
		UN Unit				

Syntax Rules:

1. R0204 - At least one of QTY02 or QTY04 is required.
2. E0204 - Only one of QTY02 or QTY04 may be present.

CTP Pricing Information

Pos: 050	Max: 25
Detail - Optional	
Loop: IT1	Elements: 4

User Option (Usage): Used

To specify pricing information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTP02	236	Price Identifier Code Description: Code identifying pricing specification	X	ID	3/3	Used
		Code Name CAT Catalog Price NET Net Item Price PRP Promotional price SLP Suggested List Price				
CTP03	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/17	Used
CTP06	648	Price Multiplier Qualifier Description: Code indicating the type of price multiplier User: <i>The multiplier is used to compute the price after the discount is applied (e.g. A multiplier of '.8' reflects a 20% discount.)</i> <i>DIS Discount Multiplier</i>	O	ID	3/3	Used
CTP07	649	Multiplier Description: Value to be used as a multiplier to obtain a new value User: <i>This value is a REAL number. The value is represented in decimal form. A discount of 20% would have a value in this element of .8</i>	X	R	1/10	Used

Syntax Rules:

1. P0405 - If either CTP04 or CTP05 is present, then the other is required.
2. C0607 - If CTP06 is present, then CTP07 is required.
3. C0902 - If CTP09 is present, then CTP02 is required.
4. C1002 - If CTP10 is present, then CTP02 is required.
5. C1103 - If CTP11 is present, then CTP03 is required.

Semantics:

1. CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
2. CTP08 is the rebate amount.

Comments:

1. See Figures Appendix for an example detailing the use of CTP03 and CTP04.
2. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

Loop PID

Pos: 060	Repeat: 1000
Optional	
Loop: PID	Elements: N/A

To describe a product or process in coded or free-form format

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
060	PID	Product/Item Description	O	1		Used

User:

This segment is used by the Publisher/Manufacturer Group and the library community.

PID Product/Item Description

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 5

User Option (Usage): Used

To describe a product or process in coded or free-form format

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type Description: Code indicating the format of a description <u>Code Name</u> F Free-form S Structured (From Industry Code List)	M	ID	1/1	Required
PID02	750	Product/Process Characteristic Code Description: Code identifying the general class of a product or process characteristic <u>Code Name</u> 08 Product	O	ID	2/3	Used
PID03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values <u>Code Name</u> BI Book Industry Systems Advisory Committee	X	ID	2/2	Used
PID04	751	Product Description Code Description: A code from an industry code list which provides specific data about a product characteristic User: PROD - BISAC Publisher/Manufacturer Group product and services code list. ----- ----- In the library community the following code values are used: A1 Author (1st 80 characters) A2 Author (81-160 characters) B1 Volume Set B3 Edition Set B4 Binding code (physical features) B5 Title code B6 Author code B7 Publisher code P1 Publisher (1st 80 characters) P2 Publisher (81-160 characters) T1 Title (1st 80 characters) T2 Title (81-160 characters) T3 Title (161-240 characters)	X	AN	1/12	Used
PID05	352	Description Description: A free-form description to clarify the related data elements and their content User: Code and/or description as agreed upon by the Publisher/Manufacturer Group.	X	AN	1/80	Used

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

User:

This segment is used by the Publisher/Manufacturer Group and the library community.

Loop SAC

Pos: 180	Repeat: 25
Optional	
Loop: SAC Elements: N/A	

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 180	Max: 1
Detail - Optional	
Loop: SAC	Elements: 6

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified Code Name A Allowance C Charge N No Allowance or Charge P Promotion	M	ID	1/1	Required
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge Code Name A990 Cataloging Services B210 Co-op Credit D200 Freight Charges to Destination D220 Freight Passthrough E170 Labeling F800 Promotional Allowance H850 Tax	X	ID	4/4	Used
SAC05	610	Amount Description: Monetary amount	O	N2	1/15	Used
SAC08	118	Rate Description: Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each UN Unit	X	ID	2/2	Used
SAC10	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.

8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Loop LM

Pos: 300	Repeat: 10
Optional	
Loop: LM	Elements: N/A

To transmit standard code list identification information

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
300	LM	Code Source Information	O	1		Used
310	LQ	Industry Code	M	100		Required

LM Code Source Information

Pos: 300	Max: 1
Detail - Optional	
Loop: LM	Elements: 2

User Option (Usage): Used

To transmit standard code list identification information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LM01	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	M	ID	2/2	Required
		Code Name BI Book Industry Systems Advisory Committee				
LM02	822	Source Subqualifier Description: A reference that indicates the table or text maintained by the Source Qualifier	O	AN	1/15	Required
		Code Name ACK BISAC Acknowledgement Code List				

Comments:

1. LM02 identifies the applicable industry code list source information.

LQ Industry Code

Pos: 310	Max: 100
Detail - Mandatory	
Loop: LM	Elements: 1

User Option (Usage): Required

Code to transmit standard industry codes

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LQ02	1271	Industry Code	X	AN	1/30	Used
		Description: Code indicating a code from a specific industry code list				
		Code Name				
		AC Item accepted and shipped (Shipping)				
		AN Available: Shipping - new edition/ISBN (Shipping)				
		AR Item Accepted: Released for shipment (Shipping)				
		AS Available: Shipping - same ISBN (Shipping)				
		AV Inventory available for order (Available)				
		AX Available: Shipping - free book (Shipping)				
		BA Backordered: Not yet available (Not Shipped)				
		BB Backordered: Reprint under consideration (Not Shipped)				
		BC Backordered: Current edition not available - to be replaced with... (Not Shipped)				
		BD Backordered: Delay in publication (Not Shipped)				
		BH Backordered: On hold (Not Shipped)				
		BI Backordered: To be reissued (Not Shipped)				
		BK Backordered: from previous order (Not Shipped)				
		BN Backordered: Inventory in progress; closed for stocktaking (Not Shipped)				
		BO Backordered: At customer's request (Not Shipped)				
		BP Item Accepted: partial shipment; balance backordered (Shipping)				
		BR Backordered: To be reprinted (Not Shipped)				
		BT Billed Total (Shipping)				
		BW Backordered: Waiting for catalog/processing (Not Shipped)				
		BX Backordered: Not yet published (Not Shipped)				
		CA Cancelled: Not yet available (Not Shipped)				
		CB Cancelled: Not our publication (Not Shipped)				
		CD Cancelled: Delay in publication (Not Shipped)				
		CE Cancelled: Order partially filled and shipped; remainder of order cancelled (Shipping)				
		CF Cancelled: Current edition not available (Not Shipped)				
		CG Cancelled: No geographic rights (Not Shipped)				
		Description: e.g. Canadian				
		CH Cancelled: Rights no longer ours (Not Shipped)				
		CI Cancelled: To be reissued (Not Shipped)				
		CJ Cancelled: Out of print in cloth; available in paper - reorder (Not Shipped)				
		CL Cancelled: Out of print in paper; available in cloth - reorder (Not Shipped)				
		CN Cancelled: Inventory in progress; closed for stocktaking (Not Shipped)				
		CO Cancelled: Out of stock (Not Shipped)				
		CQ Cancelled: Did not meet minimum order requirements (Not Shipped)				
		Description: e.g. quantity or dollar value				
		CR Cancelled: To be reprinted (Not Shipped)				
		CT Cancelled: Publisher did not respond by your cancellation date (Not Shipped)				
		CU Cancelled: Kits not available (Not Shipped)				
		CV Cancelled: Complete set volume must be purchased (Not Shipped)				
		CW Cancelled: Apply direct; not available through wholesale channels (Not Shipped)				
		CX Cancelled: Never published (Not Shipped)				
		CY Cancelled: Not available as a processed book (Not Shipped)				
		DR Item accepted: Date rescheduled (Shipping)				
		DS Out of Stock (Not Shipped)				
		IA Item Accepted (Shipping)				

Code	Name
IB	Item Backordered (Not Shipped)
ID	Item Deleted (Not Shipped)
IE	Item accepted: Price pending (Shipping)
IF	Item on hold: Incomplete description (Not Shipped)
IH	Item on hold (Not Shipped)
IN	Item accepted: Forwarded to new supplier (Not Shipped)
IP	Item accepted: Price changed (Shipping)
IQ	Item accepted: Quantity changed (Shipping)
IR	Item rejected (Not Shipped)
IS	Item accepted: Substitution made (Shipping)
IW	Item on hold: Waiver required (Not Shipped)
KC	Cancelled: Reprint under consideration (Not Shipped)
KK	Cancelled: ISBN incorrect/unknown (Not Shipped)
KM	Cancelled: Market for this title is restricted (Not Shipped)
KP	Cancelled: Out of print (Not Shipped)
KS	Cancelled: Book sold by subscription only (Not Shipped)
NF	Not yet published (Not Shipped)
OP	Out of print (Not Shipped)
OR	Temporarily out of stock (Not Shipped)
PA	Partial shipment (Shipping)
SC	Shipment complete (Shipping)
SP	Item accepted: Schedule date pending (Shipping)
SS	Split Shipment (Shipping)
ZZ	Mutually defined (Unknown)

Syntax Rules:

1. C0102 - If LQ01 is present, then LQ02 is required.

TDS Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 3

User Option (Usage): Required

To specify the total invoice discounts and amounts

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount Description: Monetary amount	M	N2	1/15	Required
TDS02	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS03	610	Amount Description: Monetary amount	O	N2	1/15	Used

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

TXI Tax Information

Pos: 020	Max: 10
Summary - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify tax information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TXI01	963	Tax Type Code Description: Code specifying the type of tax	M	ID	2/2	Required
		Code Name				
		GS Goods and Services Tax Description: Canadian value-added tax				
		LS State and Local Sales Tax				
		TX All Taxes Description: Total of all applicable taxes				
TXI02	782	Monetary Amount Description: Monetary amount	X	R	1/18	Used
TXI03	954	Percent Description: Percentage expressed as a decimal	X	R	1/10	Used

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.
2. P0405 - If either TXI04 or TXI05 is present, then the other is required.
3. C0803 - If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Loop SAC

Pos: 040	Repeat: 25
Optional	
Loop: SAC Elements: N/A	

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	Elements: 6

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified Code Name A Allowance C Charge N No Allowance or Charge P Promotion	M	ID	1/1	Required
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge Code Name A990 Cataloging Services B210 Co-op Credit D200 Freight Charges to Destination D220 Freight Passthrough E170 Labeling	X	ID	4/4	Used
SAC05	610	Amount Description: Monetary amount	O	N2	1/15	Used
SAC08	118	Rate Description: Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each UN Unit	X	ID	2/2	Used
SAC10	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

CTT Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Required

To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	NO	1/6	Required
CTT02	347	Hash Total Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O	R	1/10	Used

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE Transaction Set Trailer

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Required

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	NO	1/10	Required
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Required

Comments:

- SE is the last segment of each transaction set.

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