Ryder Transportation EDI

Electronic Data Interchange

EDI 810

Motor Carrier Freight Invoice

Version 004010

Document: Version: 2.0

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810 Invoice

Introduction:

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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
	030	NTE	Note/Special Instruction	O	100		
	040	CUR	Currency	O	1		
	050	REF	Reference Identification	O	12		
			LOOP ID - N1			200	
M	070	N1	Name	M	1		
	080	N2	Additional Name Information	O	2		
M	090	N3	Address Information	M	2		
M	100	N4	Geographic Location	M	1		
	110	REF	Reference Identification	O	12		
	120	PER	Administrative Communications Contact	O	3		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
M	140	DTM	Date/Time Reference	M	10		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
	010	IT1	Baseline Item Data (Invoice)	O	1		
	020	CUR	Currency	O	1		
	060	PID	Product/Item Description	O	1		
	180	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
M	240	N1	Name	M	1		
	250	N2	Additional Name Information	O	2		
M	260	N3	Address Information	M	2		
M	270	N4	Geographic Location	M	1		
	290	PER	Administrative Communications Contact	O	3		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments

M	010	TDS	Total Monetary Value Summary	M	1
	020	TXI	Tax Information	O	10
	030	CAD	Carrier Detail	O	1
	040	SAC	Service, Promotion, Allowance, or Charge Information	O	1
M	060	ISS	Invoice Shipment Summary	M	1
M	080	SE	Transaction Set Trailer	M	1

	Segment:	**ST** Transaction Set Header	
	Position:	010	
	Loop:		
	Level:	Heading	
	Usage:	Mandatory	
	Max Use:	1	
	Purpose:	To indicate the start of a transaction set and to assign a control number	
	Syntax Notes:		
	Semantic Notes:	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).	
	Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ST01	143	**Transaction Set Identifier Code**	M ID 3/3
			Code uniquely identifying a Transaction Set	
M	ST02	329	**Transaction Set Control Number**	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

				Segment:	**BIG** Beginning Segment for Invoice

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Syntax Notes:
Semantic Notes: 1 BIG01 is the invoice issue date.
  2 BIG03 is the date assigned by the purchaser to purchase order.
  3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.
Comments: 1 BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**BIG01**	373	**Date**	M	**DT 8/8**
			Date expressed as CCYYMMDD		
M	**BIG02**	76	**Invoice Number**	M	**AN 1/22**
			Identifying number assigned by issuer		
M	**BIG03**	373	**Date**	M	**DT 8/8**
			Date expressed as CCYYMMDD		
M	**BIG04**	324	**Purchase Order Number**	M	**AN 1/22**
			Identifying number for Purchase Order assigned by the orderer/purchaser		
	BIG05	328	**Release Number**	O	**AN 1/30**
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction		
	BIG06	327	**Change Order Sequence Number**	O	**AN 1/8**
			Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set		
	BIG07	640	**Transaction Type Code**	O	**ID 2/2**
			Code specifying the type of transaction		

<table>
<tr><td align="right">**Segment:**</td><td># NTE Note/Special Instruction</td></tr>
<tr><td align="right">**Position:**</td><td>030</td></tr>
<tr><td align="right">**Loop:**</td><td></td></tr>
<tr><td align="right">**Level:**</td><td>Heading</td></tr>
<tr><td align="right">**Usage:**</td><td>Optional</td></tr>
<tr><td align="right">**Max Use:**</td><td>100</td></tr>
<tr><td align="right">**Purpose:**</td><td>To transmit information in a free-form format, if necessary, for comment or special instruction</td></tr>
<tr><td align="right">**Syntax Notes:**</td><td></td></tr>
<tr><td align="right">**Semantic Notes:**</td><td></td></tr>
<tr><td align="right">**Comments:**</td><td>1   The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.</td></tr>
</table>

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	NTE01	363	**Note Reference Code**	**O ID 3/3**
			Code identifying the functional area or purpose for which the note applies	
M	NTE02	352	**Description**	**M AN 1/80**
			A free-form description to clarify the related data elements and their content	

	Segment:	**CUR** Currency
	Position:	040
	Loop:	
	Level:	Heading
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify the currency (dollars, pounds, francs, etc.) used in a transaction

	Syntax Notes:	**1**	If CUR08 is present, then CUR07 is required.
		2	If CUR09 is present, then CUR07 is required.
		3	If CUR10 is present, then at least one of CUR11 or CUR12 is required.
		4	If CUR11 is present, then CUR10 is required.
		5	If CUR12 is present, then CUR10 is required.
		6	If CUR13 is present, then at least one of CUR14 or CUR15 is required.
		7	If CUR14 is present, then CUR13 is required.
		8	If CUR15 is present, then CUR13 is required.
		9	If CUR16 is present, then at least one of CUR17 or CUR18 is required.
		10	If CUR17 is present, then CUR16 is required.
		11	If CUR18 is present, then CUR16 is required.
		12	If CUR19 is present, then at least one of CUR20 or CUR21 is required.
		13	If CUR20 is present, then CUR19 is required.
		14	If CUR21 is present, then CUR19 is required.

	Semantic Notes:		
	Comments:	**1**	See Figures Appendix for examples detailing the use of the CUR segment.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**CUR01**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
M	**CUR02**	**100**	**Currency Code**	**M**	**ID 3/3**
			Code (Standard ISO) for country in whose currency the charges are specified		
	CUR03	**280**	**Exchange Rate**	**O**	**R 4/10**
			Value to be used as a multiplier conversion factor to convert monetary value from one currency to another		

			Segment:	**REF** Reference Identification

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
    2 If either C04003 or C04004 is present, then the other is required.
    3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
M	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	REF03	352	**Description**	O	AN 1/80
			A free-form description to clarify the related data elements and their content		

	Ref.	**Data**			
	Des.	**Element**	**Name**	**Attributes**	

Segment: **N1** Name

Position: 070
Loop: N1   Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1   At least one of N102 or N103 is required.
2   If either N103 or N104 is present, then the other is required.
Semantic Notes:
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			BT Bill-to-Party		
			CN Consignee		
			SH Shipper		
M	**N102**	**93**	**Name**	**M**	**AN 1/60**
			Free-form name		
	N103	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
	N104	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		

Segment: **N2** **Additional Name Information**
Position: 080
Loop: N1   Mandatory
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N201	93	**Name**	M	**AN 1/60**
			Free-form name		
	N202	93	**Name**	O	**AN 1/60**
			Free-form name		

Segment: # N3 Address Information

Position: 090
Loop: N1   Mandatory
Level: Heading
Usage: Mandatory
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N301	166	**Address Information**	M	AN 1/55
			Address information		
	N302	166	**Address Information**	O	AN 1/55
			Address information		

Segment:	**N4** Geographic Location				

Segment: **N4** Geographic Location
Position: 100
Loop: N1   Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1   If N406 is present, then N405 is required.
Semantic Notes:
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.

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Data Element Summary

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	Ref. Des.	Data Element	Name	Attributes	
M	N401	19	**City Name**	M	**AN 2/30**
			Free-form text for city name		
M	N402	156	**State or Province Code**	M	**ID 2/2**
			Code (Standard State/Province) as defined by appropriate government agency		
M	N403	116	**Postal Code**	M	**ID 3/15**
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
M	N404	26	**Country Code**	M	**ID 2/3**
			Code identifying the country		

	Segment:	**REF** Reference Identification

Segment: **REF** Reference Identification
Position: 110
Loop: N1   Mandatory
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: 1   At least one of REF02 or REF03 is required.
          2   If either C04003 or C04004 is present, then the other is required.
          3   If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1   REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	REF03	352	**Description**	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
	REF04	C040	**Reference Identifier**	O	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
M	C04001	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
M	C04002	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	C04003	128	**Reference Identification Qualifier**	X	ID 2/3
			Code qualifying the Reference Identification		
	C04004	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	C04005	128	**Reference Identification Qualifier**	X	ID 2/3
			Code qualifying the Reference Identification		
	C04006	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

		Segment:	**PER** Administrative Communications Contact

Segment: **PER** Administrative Communications Contact
Position: 120
Loop: N1   Mandatory
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1**   If either PER03 or PER04 is present, then the other is required.
                             2   If either PER05 or PER06 is present, then the other is required.
                             3   If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	PER01	366	**Contact Function Code**	**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named		
	PER02	93	**Name**	**O**	**AN 1/60**
			Free-form name		
	PER03	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
	PER04	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		
	PER05	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
	PER06	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		

		Segment:	**ITD** Terms of Sale/Deferred Terms of Sale

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Position: 130
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify terms of sale
Syntax Notes: 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes: 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.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
ITD01	336	**Terms Type Code**	O	ID 2/2
		Code identifying type of payment terms		
ITD02	333	**Terms Basis Date Code**	O	ID 1/2
		Code identifying the beginning of the terms period		
ITD03	338	**Terms Discount Percent**	O	R 1/6
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date		
ITD04	370	**Terms Discount Due Date**	X	DT 8/8
		Date payment is due if discount is to be earned expressed in format CCYYMMDD		
ITD05	351	**Terms Discount Days Due**	X	N0 1/3
		Number of days in the terms discount period by which payment is due if terms discount is earned		
ITD06	446	**Terms Net Due Date**	O	DT 8/8
		Date when total invoice amount becomes due expressed in format CCYYMMDD		
ITD07	386	**Terms Net Days**	O	N0 1/3
		Number of days until total invoice amount is due (discount not applicable)		
ITD08	362	**Terms Discount Amount**	O	N2 1/10
		Total amount of terms discount		
ITD09	388	**Terms Deferred Due Date**	O	DT 8/8
		Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD		
ITD10	389	**Deferred Amount Due**	X	N2 1/10
		Deferred amount due for payment		
ITD11	342	**Percent of Invoice Payable**	X	R 1/5
		Amount of invoice payable expressed in percent		
ITD12	352	**Description**	O	AN 1/80
		A free-form description to clarify the related data elements and their content		
ITD13	765	**Day of Month**	X	N0 1/2
		The numeric value of the day of the month between 1 and the maximum day of the month being referenced		
ITD14	107	**Payment Method Code**	O	ID 1/2
		Code identifying type of payment procedures		
ITD15	954	**Percent**	O	R 1/10
		Percentage expressed as a decimal		

Segment:	**DTM** Date/Time Reference				
Position:	140				
Loop:					
Level:	Heading				
Usage:	Mandatory				
Max Use:	10				
Purpose:	To specify pertinent dates and times				
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.				
	2 If DTM04 is present, then DTM03 is required.				
	3 If either DTM05 or DTM06 is present, then the other is required.				
Semantic Notes:					
Comments:					

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			011 Shipped		
			035 Delivered		
M	DTM02	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
	DTM03	337	**Time**	X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
	DTM04	623	**Time Code**	O	ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow		

Segment:	**IT1** Baseline Item Data (Invoice)
Position:	010
Loop:	IT1 Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax Notes:	**1**	If any of IT102 IT103 or IT104 is present, then all are required.
	2	If either IT106 or IT107 is present, then the other is required.
	3	If either IT108 or IT109 is present, then the other is required.
	4	If either IT110 or IT111 is present, then the other is required.
	5	If either IT112 or IT113 is present, then the other is required.
	6	If either IT114 or IT115 is present, then the other is required.
	7	If either IT116 or IT117 is present, then the other is required.
	8	If either IT118 or IT119 is present, then the other is required.
	9	If either IT120 or IT121 is present, then the other is required.
	10	If either IT122 or IT123 is present, then the other is required.
	11	If either IT124 or IT125 is present, then the other is required.
Semantic Notes:	**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.

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
IT101	350	**Assigned Identification**	O	**AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set		
IT102	358	**Quantity Invoiced**	X	**R 1/10**
		Number of units invoiced (supplier units)		
IT103	355	**Unit or Basis for Measurement Code**	X	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
IT104	212	**Unit Price**	X	**R 1/17**
		Price per unit of product, service, commodity, etc.		
IT105	639	**Basis of Unit Price Code**	O	**ID 2/2**
		Code identifying the type of unit price for an item		
IT106	235	**Product/Service ID Qualifier**	X	**ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
IT107	234	**Product/Service ID**	X	**AN 1/48**
		Identifying number for a product or service		
IT108	235	**Product/Service ID Qualifier**	X	**ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
IT109	234	**Product/Service ID**	X	**AN 1/48**
		Identifying number for a product or service		
IT110	235	**Product/Service ID Qualifier**	X	**ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
IT111	234	**Product/Service ID**	X	**AN 1/48**
		Identifying number for a product or service		
IT112	235	**Product/Service ID Qualifier**	X	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

| **IT113** | **234** | **Product/Service ID** | **X** | **AN 1/48** |

Identifying number for a product or service

| **IT114** | **235** | **Product/Service ID Qualifier** | **X** | **ID 2/2** |

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

| **IT115** | **234** | **Product/Service ID** | **X** | **AN 1/48** |

Identifying number for a product or service

| **IT116** | **235** | **Product/Service ID Qualifier** | **X** | **ID 2/2** |

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

| **IT117** | **234** | **Product/Service ID** | **X** | **AN 1/48** |

Identifying number for a product or service

| **IT118** | **235** | **Product/Service ID Qualifier** | **X** | **ID 2/2** |

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

| **IT119** | **234** | **Product/Service ID** | **X** | **AN 1/48** |

Identifying number for a product or service

			Segment:	**CUR** Currency

Segment: **CUR** Currency
Position: 020
Loop: IT1   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:
1. If CUR08 is present, then CUR07 is required.
2. If CUR09 is present, then CUR07 is required.
3. If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. If CUR11 is present, then CUR10 is required.
5. If CUR12 is present, then CUR10 is required.
6. If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. If CUR14 is present, then CUR13 is required.
8. If CUR15 is present, then CUR13 is required.
9. If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. If CUR17 is present, then CUR16 is required.
11. If CUR18 is present, then CUR16 is required.
12. If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. If CUR20 is present, then CUR19 is required.
14. If CUR21 is present, then CUR19 is required.

Semantic Notes:
Comments:
1. See Figures Appendix for examples detailing the use of the CUR segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	CUR01	98	**Entity Identifier Code**	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
M	CUR02	100	**Currency Code**	M ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	

Segment:	**PID** Product/Item Description			

Segment: **PID** Product/Item Description

Position: 060
Loop: PID   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe a product or process in coded or free-form format
Syntax Notes:
1. If PID04 is present, then PID03 is required.
2. At least one of PID04 or PID05 is required.
3. If PID07 is present, then PID03 is required.
4. If PID08 is present, then PID04 is required.
5. If PID09 is present, then PID05 is required.

Semantic Notes:
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	PID01	349	**Item Description Type**	M	**ID 1/1**
			Code indicating the format of a description		
	PID02	750	**Product/Process Characteristic Code**	O	**ID 2/3**
			Code identifying the general class of a product or process characteristic		
	PID03	559	**Agency Qualifier Code**	X	**ID 2/2**
			Code identifying the agency assigning the code values		
	PID04	751	**Product Description Code**	X	**AN 1/12**
			A code from an industry code list which provides specific data about a product characteristic		
	PID05	352	**Description**	X	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
	PID06	752	**Surface/Layer/Position Code**	O	**ID 2/2**
			Code indicating the product surface, layer or position that is being described		
	PID07	822	**Source Subqualifier**	O	**AN 1/15**
			A reference that indicates the table or text maintained by the Source Qualifier		
	PID08	1073	**Yes/No Condition or Response Code**	O	**ID 1/1**
			Code indicating a Yes or No condition or response		
	PID09	819	**Language Code**	O	**ID 2/3**
			Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)		

Segment:	**SAC** Service, Promotion, Allowance, or Charge Information			

Segment: **SAC** Service, Promotion, Allowance, or Charge Information
Position: 180
Loop: SAC   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes:
  1   At least one of SAC02 or SAC03 is required.
  2   If either SAC03 or SAC04 is present, then the other is required.
  3   If either SAC06 or SAC07 is present, then the other is required.
  4   If either SAC09 or SAC10 is present, then the other is required.
  5   If SAC11 is present, then SAC10 is required.
  6   If SAC13 is present, then at least one of SAC02 or SAC04 is required.
  7   If SAC14 is present, then SAC13 is required.
  8   If SAC16 is present, then SAC15 is required.
Semantic Notes:
  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.
       If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
  3   SAC08 is the allowance or charge rate per unit.
  4   SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
       SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
  5   SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
  6   SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
  7   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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SAC01	248	**Allowance or Charge Indicator**	M	**ID 1/1**
			Code which indicates an allowance or charge for the service specified		
	SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	**ID 4/4**
			Code identifying the service, promotion, allowance, or charge		
	SAC03	559	**Agency Qualifier Code**	X	**ID 2/2**
			Code identifying the agency assigning the code values		
	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	X	**AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
	SAC05	610	**Amount**	O	**N2 1/15**
			Monetary amount		
	SAC06	378	**Allowance/Charge Percent Qualifier**	X	**ID 1/1**
			Code indicating on what basis allowance or charge percent is calculated		
	SAC07	332	**Percent**	X	**R 1/6**
			Percent expressed as a percent		
	SAC08	118	**Rate**	O	**R 1/9**

Rate expressed in the standard monetary denomination for the currency specified

SAC09	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

SAC10	**380**	**Quantity**	**X**	**R 1/15**

Numeric value of quantity

SAC11	**380**	**Quantity**	**O**	**R 1/15**

Numeric value of quantity

SAC12	**331**	**Allowance or Charge Method of Handling Code**	**O**	**ID 2/2**

Code indicating method of handling for an allowance or charge

SAC13	**127**	**Reference Identification**	**X**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

SAC14	**770**	**Option Number**	**O**	**AN 1/20**

A unique number identifying available promotion or allowance options when more than one is offered

SAC15	**352**	**Description**	**X**	**AN 1/80**

A free-form description to clarify the related data elements and their content

SAC16	**819**	**Language Code**	**O**	**ID 2/3**

Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)

Segment:		**N1** Name			
Position:		240			
Loop:		N1	Mandatory		
Level:		Detail			
Usage:		Mandatory			
Max Use:		1			
Purpose:		To identify a party by type of organization, name, and code			
Syntax Notes:		1	At least one of N102 or N103 is required.		
		2	If either N103 or N104 is present, then the other is required.		
Semantic Notes:					
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.		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			BT	Bill-to-Party	
			CN	Consignee	
			SH	Shipper	
M	**N102**	**93**	**Name**	**M**	**AN 1/60**
			Free-form name		
	N103	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
	N104	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		

Segment: **N2** **Additional Name Information**
Position: 250
Loop: N1   Mandatory
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N201	93	Name	M	AN 1/60
			Free-form name		
	N202	93	Name	O	AN 1/60
			Free-form name		

Segment: **N3** **Address Information**
Position: 260
Loop: N1   Mandatory
Level: Detail
Usage: Mandatory
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N301	166	**Address Information**	M	**AN 1/55**
			Address information		
	N302	166	**Address Information**	O	**AN 1/55**
			Address information		

Segment:	**N4** Geographic Location		
Position:	270		
Loop:	N1 Mandatory		
Level:	Detail		
Usage:	Mandatory		
Max Use:	1		
Purpose:	To specify the geographic place of the named party		
Syntax Notes:	1 If N406 is present, then N405 is required.		
Semantic Notes:			
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.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N401**	19	**City Name**	**M AN 2/30**
			Free-form text for city name	
M	**N402**	156	**State or Province Code**	**M ID 2/2**
			Code (Standard State/Province) as defined by appropriate government agency	
M	**N403**	116	**Postal Code**	**M ID 3/15**
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
M	**N404**	26	**Country Code**	**M ID 2/3**
			Code identifying the country	

Segment:	**PER** Administrative Communications Contact		
Position:	290		
Loop:	N1 Mandatory		
Level:	Detail		
Usage:	Optional		
Max Use:	3		
Purpose:	To identify a person or office to whom administrative communications should be directed		
Syntax Notes:	**1** If either PER03 or PER04 is present, then the other is required.		
	2 If either PER05 or PER06 is present, then the other is required.		
	3 If either PER07 or PER08 is present, then the other is required.		
Semantic Notes:			
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	PER01	366	**Contact Function Code**	**M ID 2/2**
			Code identifying the major duty or responsibility of the person or group named	
	PER02	93	**Name**	**O AN 1/60**
			Free-form name	
	PER03	365	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number	
	PER04	364	**Communication Number**	**X AN 1/80**
			Complete communications number including country or area code when applicable	
	PER05	365	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number	
	PER06	364	**Communication Number**	**X AN 1/80**
			Complete communications number including country or area code when applicable	
	PER07	365	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number	
	PER08	364	**Communication Number**	**X AN 1/80**
			Complete communications number including country or area code when applicable	
	PER09	443	**Contact Inquiry Reference**	**O AN 1/20**
			Additional reference number or description to clarify a contact number	

Segment:	**TDS** Total Monetary Value Summary		
Position:	010		
Loop:			
Level:	Summary		
Usage:	Mandatory		
Max Use:	1		
Purpose:	To specify the total invoice discounts and amounts		
Syntax Notes:			
Semantic Notes:	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.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	TDS01	610	Amount	M	N2 1/15
			Monetary amount		
	TDS02	610	Amount	O	N2 1/15
			Monetary amount		
	TDS03	610	Amount	O	N2 1/15
			Monetary amount		
	TDS04	610	Amount	O	N2 1/15
			Monetary amount		

				Segment:	**TXI** Tax Information		

Segment: **TXI** Tax Information
Position: 020
Loop:
Level: Summary
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes: 1 At least one of TXI02 TXI03 or TXI06 is required.
  2 If either TXI04 or TXI05 is present, then the other is required.
  3 If TXI08 is present, then TXI03 is required.
Semantic Notes: 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.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	TXI01	963	**Tax Type Code**	M	ID 2/2
			Code specifying the type of tax		
	TXI02	782	**Monetary Amount**	X	R 1/18
			Monetary amount		
	TXI03	954	**Percent**	X	R 1/10
			Percentage expressed as a decimal		
	TXI04	955	**Tax Jurisdiction Code Qualifier**	X	ID 2/2
			Code identifying the source of the data used in tax jurisdiction code		
	TXI05	956	**Tax Jurisdiction Code**	X	AN 1/10
			Code identifying the taxing jurisdiction		
	TXI06	441	**Tax Exempt Code**	X	ID 1/1
			Code identifying exemption status from sales and use tax		
	TXI07	662	**Relationship Code**	O	ID 1/1
			Code indicating the relationship between entities		
	TXI08	828	**Dollar Basis For Percent**	O	R 1/9
			Dollar basis to be used in the percent calculation of the allowance, charge or tax		
	TXI09	325	**Tax Identification Number**	O	AN 1/20
			Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number		
	TXI10	350	**Assigned Identification**	O	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		

Segment:	**CAD** Carrier Detail		
Position:	030		
Loop:			
Level:	Summary		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify transportation details for the transaction		
Syntax Notes:	**1**	At least one of CAD05 or CAD04 is required.	
	2	If CAD07 is present, then CAD08 is required.	
Semantic Notes:			
Comments:			

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
CAD01	**91**	**Transportation Method/Type Code**	O	ID 1/2
		Code specifying the method or type of transportation for the shipment		
CAD02	**206**	**Equipment Initial**	O	AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number		
CAD03	**207**	**Equipment Number**	O	AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)		
CAD04	**140**	**Standard Carrier Alpha Code**	X	ID 2/4
		Standard Carrier Alpha Code		
CAD05	**387**	**Routing**	X	AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity		
CAD06	**368**	**Shipment/Order Status Code**	O	ID 2/2
		Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction		
CAD07	**128**	**Reference Identification Qualifier**	O	ID 2/3
		Code qualifying the Reference Identification		
CAD08	**127**	**Reference Identification**	X	AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
CAD09	**284**	**Service Level Code**	O	ID 2/2
		Code indicating the level of transportation service or the billing service offered by the transportation carrier		

		Segment:	**SAC** Service, Promotion, Allowance, or Charge Information

Segment: **SAC** Service, Promotion, Allowance, or Charge Information
Position: 040
Loop: SAC   Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:
1. At least one of SAC02 or SAC03 is required.
2. If either SAC03 or SAC04 is present, then the other is required.
3. If either SAC06 or SAC07 is present, then the other is required.
4. If either SAC09 or SAC10 is present, then the other is required.
5. If SAC11 is present, then SAC10 is required.
6. If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. If SAC14 is present, then SAC13 is required.
8. If SAC16 is present, then SAC15 is required.

Semantic Notes:
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.
   If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3. SAC08 is the allowance or charge rate per unit.
4. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
   SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7. 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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SAC01	248	**Allowance or Charge Indicator**	**M**	**ID 1/1**
			Code which indicates an allowance or charge for the service specified		
	SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	**X**	**ID 4/4**
			Code identifying the service, promotion, allowance, or charge		
	SAC03	559	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	**X**	**AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
	SAC05	610	**Amount**	**O**	**N2 1/15**
			Monetary amount		
	SAC06	378	**Allowance/Charge Percent Qualifier**	**X**	**ID 1/1**
			Code indicating on what basis allowance or charge percent is calculated		
	SAC07	332	**Percent**	**X**	**R 1/6**
			Percent expressed as a percent		
	SAC08	118	**Rate**	**O**	**R 1/9**

Rate expressed in the standard monetary denomination for the currency specified

| SAC09 | 355 | **Unit or Basis for Measurement Code** | X | ID 2/2 |

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| SAC10 | 380 | **Quantity** | X | R 1/15 |

Numeric value of quantity

| SAC11 | 380 | **Quantity** | O | R 1/15 |

Numeric value of quantity

| SAC12 | 331 | **Allowance or Charge Method of Handling Code** | O | ID 2/2 |

Code indicating method of handling for an allowance or charge

| SAC13 | 127 | **Reference Identification** | X | AN 1/30 |

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

| SAC14 | 770 | **Option Number** | O | AN 1/20 |

A unique number identifying available promotion or allowance options when more than one is offered

| SAC15 | 352 | **Description** | X | AN 1/80 |

A free-form description to clarify the related data elements and their content

| SAC16 | 819 | **Language Code** | O | ID 2/3 |

Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)

		Segment:	**ISS** Invoice Shipment Summary		

Segment: **ISS** Invoice Shipment Summary
Position: 060
Loop: ISS   Mandatory
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify summary details of total items shipped in terms of quantity, weight, and volume
Syntax Notes: 1 At least one of ISS01 ISS03 or ISS05 is required.
  2 If either ISS01 or ISS02 is present, then the other is required.
  3 If either ISS03 or ISS04 is present, then the other is required.
  4 If either ISS05 or ISS06 is present, then the other is required.
Semantic Notes: 1 ISS07 is the quantity of third party pallets.
  2 ISS08 is the gross weight of third party pallets in pounds.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	ISS01	382	**Number of Units Shipped**	M	R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
	ISS02	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
M	ISS03	81	**Weight**	M	R 1/10
			Numeric value of weight		
	ISS04	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
	ISS05	183	**Volume**	X	R 1/8
			Value of volumetric measure		
	ISS06	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

Segment: **SE** **Transaction Set Trailer**
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	SE01	96	**Number of Included Segments**	M	N0	1/10

Total number of segments included in a transaction set including ST and SE segments

	Ref. Des.	Data Element	Name	Attributes		
M	SE02	329	**Transaction Set Control Number**	M	AN	4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set