



845 Price Authorization Acknowledgment/Status - Canada

VICS EDI

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845 Price Authorization Acknowledgment/Status - Canada

Functional Group=PA

Purpose: This X12 Transaction Set contains the format and establishes the data content of the Price Authorization Acknowledgment/Status Transaction Set (845) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a vendor or manufacturer to transmit specific data relative to the status of or changes to outstanding price authorizations.

Note 1:

A functional profile for the use of this transaction set in Canada.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage	Page
0100	ST	Transaction Set Header	M	1			Must use	4
0200	BPA	Beginning Segment for Price Authorization Acknowledgment/Status	M	1			Must use	5
0250	CUR	Currency	O	1			Used	6
* 0300	NTE	Note/Special Instruction	O	10				N/A
* 0400	REF	Reference Information	O	12				N/A
* 0500	PER	Administrative Communications Contact	O	3				N/A
0600	DTM	Date/Time Reference	O	10			Used	7
LOOP ID - N1					10000			8
0700	N1	Party Identification	O	1			Used	9
* 0800	N2	Additional Name Information	O	2				N/A
0900	N3	Party Location	O	2			Used	11
1000	N4	Geographic Location	O	1			Used	12
* 1100	REF	Reference Information	O	12				N/A
1200	PER	Administrative Communications Contact	O	3			Used	13
* 1300	DTM	Date/Time Reference	O	10				N/A

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage	Page
LOOP ID - CON					10000			14
0100	CON	Contract Number Detail	M	1			Must use	15
0200	REF	Reference Information	O	>1			Used	16
* 0300	PER	Administrative Communications Contact	O	3				N/A
0400	DTM	Date/Time Reference	O	10			Used	18
* 0450	CTB	Restrictions/Conditions	O	10				N/A
* 0460	ITD	Terms of Sale/Deferred Terms of Sale	O	>1				N/A
LOOP ID - N1					≥1			19
0500	N1	Party Identification	O	1			Used	20

<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>	<u>Page</u>
0600	N2	Additional Name Information	O	2			Used	22
0700	N3	Party Location	O	2			Used	23
0800	N4	Geographic Location	O	1			Used	24
* 0900	REF	Reference Information	O	12				N/A
* 1000	PER	Administrative Communications Contact	O	3				N/A
1100	DTM	Date/Time Reference	O	2			Used	25
* 1150	CTB	Restrictions/Conditions	O	25				N/A
LOOP ID - PAD						≥1		26
1200	PAD	Product Adjustment Detail	O	1			Used	27
* 1300	CTB	Restrictions/Conditions	O	10				N/A
1400	PID	Product/Item Description	O	200			Used	28
* 1500	MEA	Measurements	O	40				N/A
1600	UIT	Unit Detail	O	20			Used	29
* 1700	QTY	Quantity Information	O	5				N/A
* 1800	AMT	Monetary Amount Information	O	5		N2/1800		N/A
* 1900	CUR	Currency	O	1				N/A
* 2000	SSS	Product Special Services	O	1				N/A
* 2100	SHP	Shipped/Received Information	O	1				N/A
2200	DTM	Date/Time Reference	O	2			Used	30
LOOP ID - LIN						1		31
2300	LIN	Item Identification	O	1			Must use	32
* 2350	G53	Maintenance Type	O	1				N/A
* 2400	SLN	Subline Item Detail	O	100				N/A
* LOOP ID - N1						10000		N/A
2500	N1	Party Identification	O	1				N/A
2600	N2	Additional Name Information	O	2				N/A
2700	N3	Party Location	O	2				N/A
2800	N4	Geographic Location	O	1				N/A
2900	DTM	Date/Time Reference	O	10				N/A
3000	CTB	Restrictions/Conditions	O	25				N/A
* LOOP ID - CTP						≥1		N/A
3100	CTP	Pricing Information	O	1				N/A
3200	DTM	Date/Time Reference	O	10				N/A
3300	CTB	Restrictions/Conditions	O	25				N/A
LOOP ID - N1						10000		N/A
3400	N1	Party Identification	O	1				N/A
3500	N2	Additional Name Information	O	2				N/A
3600	N3	Party Location	O	2				N/A
3700	N4	Geographic Location	O	1				N/A

<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>	<u>Page</u>
3800	DTM	Date/Time Reference	O	10				N/A
3900	CTB	Restrictions/Conditions	O	25				N/A

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>	<u>Page</u>
0100	CTT	Transaction Totals	M	1		N3/0100	Must use	34
0200	SE	Transaction Set Trailer	M	1			Must use	35

Notes:

- 2/1800 The AMT segment is to be used only in cases where the amount cannot be computed from other detail.
- 3/0100 Number of line items (CTT01) is the accumulation of the number of CON segments. If used, hash total (CTT02) is the sum of the quantities (QTY02) for each QTY segment.

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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	M	ID	3/3	Must use

Description: Code identifying a Transaction Set

Note 1: 845 Price Authorization Acknowledgment/Status - Canada

Code List Summary (Total Codes: 322, Included: 1)

Code Name

845 Price Authorization Acknowledgment/Status

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

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).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BPA Beginning Segment for Price Authorization Acknowledgment/Status

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To identify the beginning of a Price Authorization Acknowledgment/Status 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>
BPA01	353	Transaction Set Purpose Code	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

Code List Summary (Total Codes: 76, Included: 6)

Code Name

00	Original
02	Add
03	Delete
04	Change
05	Replace

Note 1:

This code identifies this transaction as a full replacement of the original (00) document.

22	Information Copy
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BPA02	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

BPA03	128	Reference Identification Qualifier	X	ID	2/3	Used
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Description: Code identifying the Reference Identification

Code List Summary (Total Codes: 1884, Included: 2)

Code Name

CT	Contract Number
DD	Document Identification Code

BPA04	127	Reference Identification	X	AN	1/80	Used
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

1. P0304 - If either BPA03 or BPA04 is present, then the other is required.

Semantics:

1. BPA02 is the price authorization status date.
2. BPA05 is the price authorization status time.

CUR Currency

Pos: 0250	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: 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	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1538, Included: 1)

Code Name

BY Buying Party (Purchaser)

CUR02	100	Currency Code	M	ID	3/3	Must use
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Description: Code specifying the Standard ISO code for country in whose currency the charges are specified

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.

DTM Date/Time Reference

Pos: 0600	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: 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	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1343, Included: 4)

Code Name

092	Contract Effective
093	Contract Expiration
124	Group Contract Effective
125	Group Contract Expiration

DTM02	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

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 Party Identification

Pos: 0700	Repeat: 10000
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

Purpose: 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>
0700	N1	Party Identification	O	1		Used
0900	N3	Party Location	O	2		Used
1000	N4	Geographic Location	O	1		Used
1200	PER	Administrative Communications Contact	O	3		Used

N1 Party Identification

Pos: 0700	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: 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	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1538, Included: 4)

Code Name

BG	Buying Group
DS	Distributor
EP	Eligible Party to the Rate
SU	Supplier/Manufacturer

N102	93	Name	X	AN	1/60	Used
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Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Used
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Description: Code specifying the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 258, Included: 8)

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
11	Drug Enforcement Administration (DEA)
21	Health Industry Number (HIN)
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent
UL	Global Location Number (GLN)

Description: A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

Note 1:

See External Code Source 583 in Section III for reference document.

UM	GS1 Global Location Number with Extension Component
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Description: A globally unique 13-digit code with a one to twenty character extension component used, for the identification of a legal or physical location

N104	67	Identification Code	X	AN	2/80	Used
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Description: Code identifying a party or other code

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.

N3 Party Location

Pos: 0900	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: 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	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 1000	Max: 1
Heading - Optional	
Loop: N1	Elements: 5

User Option (Usage): Used

Purpose: 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	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	X	ID	2/2	Used
		Description: Code specifying the Standard State/Province as defined by appropriate government agency				
N403	116	Postal Code	X	ID	3/15	Used
		Description: Code specifying international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	X	ID	2/3	Used
		Description: Code identifying the country				
N408	1702	Postal Code-Formatted	X	AN	3/20	Used
		Description: A postal code value including punctuation, blanks and other characters as defined by the postal authority				

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. E0308 - Only one of N403 or N408 may be present.
3. C0605 - If N406 is present, then N405 is required.
4. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N403 contains the postal code in an unstructured format. N408 contains the postal code in a structured format. When a postal code data field is used, the parties shall agree as to which data element (N403 or N408) shall be used in the transaction set.

PER Administrative Communications Contact

Pos: 1200	Max: 3
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: 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	M	ID	2/2	Must use

Description: Code identifying the major duty or responsibility of the person or group named

Code List Summary (Total Codes: 242, Included: 1)

Code Name

CD Contract Contact

PER02	93	Name	O	AN	1/60	Used
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Description: Free-form name

PER03	365	Communication Number Qualifier	X	ID	2/2	Used
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Description: Code identifying the type of communication number

Code List Summary (Total Codes: 96, Included: 4)

Code Name

EA Internet Email Address

Description: Internet based electronic mail address with a structure of "ADDRESSEE @ DOMAIN NAME . DOMAIN NAME EXTENSION"

EM Electronic Mail

FX Facsimile

TE Telephone

PER04	364	Communication Number	X	AN	1/2048	Used
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Description: Complete communications number including country or area code when applicable

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.

Loop Contract Number Detail

Pos: 0100	Repeat: 10000
Mandatory	
Loop: CON	Elements: N/A

User Option (Usage): Must use

Purpose: To specify contract or reference number and status

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>
0100	CON	Contract Number Detail	M	1		Must use
0200	REF	Reference Information	O	>1		Used
0400	DTM	Date/Time Reference	O	10		Used
0500		Loop N1	O		>1	Used
1200		Loop PAD	O		>1	Used

CON Contract Number Detail

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: CON	Elements: 3

User Option (Usage): Must use

Purpose: To specify contract or reference number and status

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>
CON01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code identifying the Reference Identification

Code List Summary (Total Codes: 1884, Included: 1)

Code Name

VC Vendor Contract Number

CON02	127	Reference Identification	M	AN	1/80	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

CON03	846	Contract Status Code	M	ID	2/2	Must use
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Description: Code specifying the current status of the contract

Code List Summary (Total Codes: 39, Included: 5)

Code Name

CC Contract Cancelled

CM Contract Modified

CR Contract Renewed

OC Original Contract

VA Valid Open Contract

REF Reference Information

Pos: 0200	Max: >1
Detail - Optional	
Loop: CON	Elements: 4

User Option (Usage): Used

Purpose: 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	M	ID	2/3	Must use

Description: Code identifying the Reference Identification

Code List Summary (Total Codes: 1884, Included: 4)

Code Name

01	American Bankers Assoc. (ABA) Transit/Routing Number (Including Check Digit, 9 Digits)
03	Clearing House Interbank Payment System (CHIPS) Participant Number (3 or 4 Digits)
05	Clearing House Interbank Payment System (CHIPS) User Identification (6 digits)
YB	Revision Number

REF02	127	Reference Identification	X	AN	1/80	Used
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

REF03	352	Description	X	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content

REF04	C040	Reference Identifier	O	Comp		Used
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Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Syntax:

1. P0304 - If either C04003 or C04004 is present, then the other is required.
2. P0506 - If either C04005 or C04006 is present, then the other is required.

REF04-01	128	Reference Identification Qualifier	M	ID	2/3	Must use
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Description: Code identifying the Reference Identification

Code List Summary (Total Codes: 1884, Included: 1)

Code Name

YB	Revision Number
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REF04-02	127	Reference Identification	M	AN	1/80	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

REF04-03	128	Reference Identification Qualifier	X	ID	2/3	Used
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Description: Code identifying the Reference Identification

Code List Summary (Total Codes: 1884, Included: 1)

Code Name

YB	Revision Number
----	-----------------

REF04-04	127	Reference Identification	X	AN	1/80	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF04-05	128	Reference Identification Qualifier	X	ID	2/3	Used
		Description: Code identifying the Reference Identification				
		Code List Summary (Total Codes: 1884, Included: 1)				
		Code Name				
		YB	Revision Number			
REF04-06	127	Reference Identification	X	AN	1/80	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

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.

DTM Date/Time Reference

Pos: 0400	Max: 10
Detail - Optional	
Loop: CON	Elements: 2

User Option (Usage): Used

Purpose: 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	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1343, Included: 4)

Code Name

092	Contract Effective
093	Contract Expiration
124	Group Contract Effective
125	Group Contract Expiration

DTM02	373	Date	X	DT	8/8	Used
-------	-----	-------------	---	----	-----	------

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

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 Party Identification

Pos: 0500	Repeat: >1
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

Purpose: 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>
0500	N1	Party Identification	O	1		Used
0600	N2	Additional Name Information	O	2		Used
0700	N3	Party Location	O	2		Used
0800	N4	Geographic Location	O	1		Used
1100	DTM	Date/Time Reference	O	2		Used

N1 Party Identification

Pos: 0500	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: 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	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1538, Included: 4)

Code Name

BG	Buying Group
DS	Distributor
EP	Eligible Party to the Rate
SU	Supplier/Manufacturer

N102	93	Name	X	AN	1/60	Used
------	----	-------------	---	----	------	------

Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Used
------	----	--------------------------------------	---	----	-----	------

Description: Code specifying the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 258, Included: 8)

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
11	Drug Enforcement Administration (DEA)
21	Health Industry Number (HIN)
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent
UL	Global Location Number (GLN)

Description: A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

Note 1:

See External Code Source 583 in Section III for document reference.

UM	GS1 Global Location Number with Extension Component
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Description: A globally unique 13-digit code with a one to twenty character extension component used, for the identification of a legal or physical location

N104	67	Identification Code	X	AN	2/80	Used
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Description: Code identifying a party or other code

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: 0600	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names

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	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	Name	O	AN	1/60	Used
		Description: Free-form name				

N3 Party Location

Pos: 0700	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: 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	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 0800	Max: 1
Detail - Optional	
Loop: N1	Elements: 5

User Option (Usage): Used

Purpose: 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	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	X	ID	2/2	Used
		Description: Code specifying the Standard State/Province as defined by appropriate government agency				
N403	116	Postal Code	X	ID	3/15	Used
		Description: Code specifying international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	X	ID	2/3	Used
		Description: Code identifying the country				
N408	1702	Postal Code-Formatted	X	AN	3/20	Used
		Description: A postal code value including punctuation, blanks and other characters as defined by the postal authority				

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. E0308 - Only one of N403 or N408 may be present.
3. C0605 - If N406 is present, then N405 is required.
4. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N403 contains the postal code in an unstructured format. N408 contains the postal code in a structured format. When a postal code data field is used, the parties shall agree as to which data element (N403 or N408) shall be used in the transaction set.

DTM Date/Time Reference

Pos: 1100	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: 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	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1343, Included: 6)

Code Name

092	Contract Effective
093	Contract Expiration
124	Group Contract Effective
125	Group Contract Expiration
129	Customer Contract Effective
130	Customer Contract Expiration

DTM02	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

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 Product Adjustment Detail

Pos: 1200 Repeat: >1
 Optional
 Loop: PAD Elements: N/A

User Option (Usage): Used

Purpose: To specify the product transfer type, and/or line item number

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>
1200	PAD	Product Adjustment Detail	O	1		Used
1400	PID	Product/Item Description	O	200		Used
1600	UIT	Unit Detail	O	20		Used
2200	DTM	Date/Time Reference	O	2		Used
2300		Loop LIN	O		1	Must use

PAD Product Adjustment Detail

Pos: 1200	Max: 1
Detail - Optional	
Loop: PAD	Elements: 2

User Option (Usage): Used

Purpose: To specify the product transfer type, and/or line item 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>
PAD01	350	Assigned Identification	X	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

PAD03	670	Change or Response Type Code	O	ID	2/2	Used
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Description: Code specifying the type of change to the line item

Code List Summary (Total Codes: 31, Included: 4)

Code Name

AI	Add Additional Item(s)
CT	Change of Dates
DI	Delete Item(s)
PC	Price Change

Syntax Rules:

1. R0102 - At least one of PAD01 or PAD02 is required.
2. P0405 - If either PAD04 or PAD05 is present, then the other is required.

Semantics:

1. PAD01 is the line item identification.

PID Product/Item Description

Pos: 1400	Max: 200
Detail - Optional	
Loop: PAD	Elements: 2

User Option (Usage): Used

Purpose: 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 Code	M	ID	1/1	Must use

Description: Code indicating the format of a description

Code List Summary (Total Codes: 4, Included: 1)

Code Name

F Free-form

PID05	352	Description	X	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R040510 - At least one of PID04, PID05 or PID10 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.
4. If PID01 = "A", then PID10 is used. PID05 may also be used to further clarify the condition of the product.

UIT Unit Detail

Pos: 1600	Max: 20
Detail - Optional	
Loop: PAD	Elements: 3

User Option (Usage): Used

Purpose: To specify item unit data

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>
UIT01	C001	Composite Unit of Measure	M	Comp		Must use

Description: To identify a composite unit of measure(See Figures Appendix for examples of use)

Comments:

1. If C001-02 is not used, its value is to be interpreted as 1.
2. If C001-03 is not used, its value is to be interpreted as 1.
3. If C001-05 is not used, its value is to be interpreted as 1.
4. If C001-06 is not used, its value is to be interpreted as 1.
5. If C001-08 is not used, its value is to be interpreted as 1.
6. If C001-09 is not used, its value is to be interpreted as 1.
7. If C001-11 is not used, its value is to be interpreted as 1.
8. If C001-12 is not used, its value is to be interpreted as 1.
9. If C001-14 is not used, its value is to be interpreted as 1.
10. If C001-15 is not used, its value is to be interpreted as 1.

UIT01-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code List Summary (Total Codes: 924, Included: 1)

Code Name

EA Each

UIT02	212	Unit Price	X	R	1/17	Used
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Description: Price per unit of product, service, commodity, etc.

UIT03	639	Basis of Unit Price Code	O	ID	2/2	Used
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Description: Code identifying the type of unit price for an item

Code List Summary (Total Codes: 101, Included: 1)

Code Name

CT Contract

Syntax Rules:

1. C0302 - If UIT03 is present, then UIT02 is required.

DTM Date/Time Reference

Pos: 2200	Max: 2
Detail - Optional	
Loop: PAD	Elements: 2

User Option (Usage): Used

Purpose: 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	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1343, Included: 2)

Code Name

131	Item Contract Effective
132	Item Contract Expiration

DTM02	373	Date	X	DT	8/8	Used
-------	-----	-------------	---	----	-----	------

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

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 Item Identification

Pos: 2300	Repeat: 1
Optional	
Loop: LIN	Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic item identification data

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>
2300	LIN	Item Identification	O	1		Must use

LIN Item Identification

Pos: 2300	Max: 1
Detail - Optional	
Loop: LIN	Elements: 4

User Option (Usage): Must use**Purpose:** To specify basic item identification data**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>
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use

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

Code List Summary (Total Codes: 562, Included: 6)

Code Name

CA Case

EN GTIN-13

Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

EO GTIN-8

Description: An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items

UK GTIN-14

Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

UP GTIN-12

Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items

VC Vendor's (Seller's) Catalog Number

LIN03	234	Product/Service ID	M	AN	1/80	Must use
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Description: Identifying number for a product or service

LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Note 1: See LIN02 for code values.

Code List Summary (Total Codes: 562, Included: 6)

Code Name

CA Case

EN GTIN-13

Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

EO GTIN-8

Description: An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items

UK GTIN-14

Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

UP GTIN-12

Code Name

Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items

VC Vendor's (Seller's) Catalog Number

LIN05	234	Product/Service ID	X	AN	1/80	Used
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Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., ISBN No., Model No., or SKU.

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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	M	N0	1/6	Must use

Description: Total number of line items in the transaction set

CTT02	347	Hash Total	O	R	1/10	Used
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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. 18E2 Fifth occurrence of value being hashed. -----1873 Hash Total

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: 0200	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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)

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	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

1. SE is the last segment of each transaction set.