832 Price/Sales Catalog

Implementation Guide

Version: 4010   Final

Publication:	**5/1/2001**
Modified:	**5/14/2014**

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Price/Sales Catalog

Functional Group=SC

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Price/Sales Catalog Transaction Set (832) 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 furnishing or requesting the price of goods or services in the form of a catalog.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BCT	Beginning Segment for Price/Sales Catalog	M	1			Must use
070	DTM	Date/Time Reference	O	10			Used
090	CUR	Currency	O	5			Used
LOOP ID - N1					**>1**		
150	N1	Name	O	1			Used
200	PER	Administrative Communications Contact	O	>1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LIN					**>1**		
010	LIN	Item Identification	O	1			Used
015	G53	Maintenance Type	O	1		N2/015	Used
040	REF	Reference Identification	O	>1			Used
045	YNQ	Yes/No Question	O	1		N2/045	Used
070	PID	Product/Item Description	O	200			Used
100	PO4	Item Physical Details	O	1			Used
140	LDT	Lead Time	O	1			Used
165	TC2	Commodity	O	2			Used
LOOP ID - CTP					**100**		
170	CTP	Pricing Information	O	1			Used
180	DTM	Date/Time Reference	O	10			Used
220	CTB	Restrictions/Conditions	O	5			Used
225	REF	Reference Identification	O	>1			Used
LOOP ID - SLN					**>1**		
350	SLN	Subline Item Detail	O	1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	CTT	Transaction Totals	O	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Must use

Notes:

2/015   If BCT10 is used and G5301 is used, then the G5301 takes precedence.
2/045   When YNQ01 = NC, YNQ02 will = Y or N and YNQ03 will be blank.

When YNQ01 is blank, YNQ02 will = Y or N and YNQ10 will contain a description.
3/010   Number of line items (CTT01) is the accumulation of the number of LIN segments. Hash total (CTT02) is not used in this transaction.

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ST   Transaction Set Header

Pos: 010	**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:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	1

Description: Code uniquely identifying a Transaction Set

CodeList Summary (Total Codes: 298, Included: 1)

Code	Name
832	Price/Sales Catalog

Ref	Id	Element Name	Req	Type	Min/Max	Rep
ST02	329	**Transaction Set Control Number**	M	AN	4/9	1

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

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BCT Beginning Segment for Price/Sales Catalog

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 3

User Option (Usage): Must use
Purpose: To indicate the beginning of the Price/Sales Catalog Transaction Set and specify catalog purpose and number information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
BCT01	683	**Catalog Purpose Code**	M	ID	2/2	1

Description: Code indicating purpose of catalog

CodeList Summary (Total Codes: 5, Included: 1)

Code	Name
PC	Price Catalog

Ref	Id	Element Name	Req	Type	Min/Max	Rep
BCT02	684	**Catalog Number**	O	AN	1/15	1

Description: Identifying number for catalog or superseded catalog

Ref	Id	Element Name	Req	Type	Min/Max	Rep
BCT10	353	**Transaction Set Purpose Code**	O	ID	2/2	1

Description: Code identifying purpose of transaction set

CodeList Summary (Total Codes: 65, Included: 2)

Code	Name
00	Original
04	Change

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DTM **Date/Time Reference**

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	1

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

CodeList Summary (Total Codes: 1112, Included: 1)

Code	Name
007	Effective

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM02	373	**Date**	C	DT	8/8	1

Description: Date expressed as CCYYMMDD

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.

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CUR Currency

Pos: 090	**Max: 5**
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:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CUR01	98	**Entity Identifier Code**	M	ID	2/3	1

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

CodeList Summary (Total Codes: 1312, Included: 1)

Code	Name
SE	Selling Party

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CUR02	100	**Currency Code**	M	ID	3/3	1

Description: Code (Standard ISO) for country in whose currency the charges are specified
User: USD = US Dollars

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.

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N1   Name

Pos: 150   **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:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N101	98	**Entity Identifier Code**	M	ID	2/3	1

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

CodeList Summary (Total Codes: 1312, Included: 1)

Code	Name
DS	Distributor

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N102	93	**Name**	C	AN	1/60	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N103	66	**Identification Code Qualifier**	C	ID	1/2	1

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

CodeList Summary (Total Codes: 215, Included: 1)

Code	Name
1	D-U-N-S Number,Dun & Bradstreet

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N104	67	**Identification Code**	C	AN	2/80	1

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.

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PER Administrative Communications Contact

User Option (Usage): Used
Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER01	366	**Contact Function Code**	M	ID	2/2	1

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

CodeList Summary (Total Codes: 230, Included: 1)

Code	Name
IC	Information Contact

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER02	93	**Name**	O	AN	1/60	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER03	365	**Communication Number Qualifier**	C	ID	2/2	1

Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 40, Included: 1)

Code	Name
TE	Telephone

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER04	364	**Communication Number**	C	AN	1/80	1

Description: Complete communications number including country or area code when applicable

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER05	365	**Communication Number Qualifier**	C	ID	2/2	1

Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 40, Included: 1)

Code	Name
FX	Facsimile

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER06	364	**Communication Number**	C	AN	1/80	1

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.

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LIN Item Identification

Pos: 010	**Max: 1**
Detail - Optional	
Loop: LIN	**Elements: 17**

User Option (Usage): Used
Purpose: To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN01	350	**Assigned Identification**	O	AN	1/20	1

Description: Alphanumeric characters assigned for differentiation within a transaction set
User: Line item identification code

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	1

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

CodeList Summary (Total Codes: 477, Included: 6)

Code	Name
BP	Buyer's Part Number
MF	Manufacturer
MG	Manufacturer's Part Number
SR	Substitute Product Number
UP	U.P.C. Consumer Package Code (1-5-5-1)

User:
If UPC is unavailable and the vendor supplies an EAN number, the qualifier will indicate which type EAN number is supplied.
Possible values:
EO - length 8
EN - length 13
UK - length 14

Code	Name
VP	Vendor's (Seller's) Part Number

User:
Tech Data's part number

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN03	234	**Product/Service ID**	M	AN	1/48	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN04	235	**Product/Service ID Qualifier**	C	ID	2/2	1

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

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN05	234	**Product/Service ID**	C	AN	1/48	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN06	235	**Product/Service ID Qualifier**	C	ID	2/2	1

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

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN07	234	**Product/Service ID**	C	AN	1/48	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN08	235	**Product/Service ID Qualifier**	C	ID	2/2	1

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

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN09	234	**Product/Service ID**	C	AN	1/48	1

Description: Identifying number for a product or service

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LIN10	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
LIN11	234	**Product/Service ID**	C	AN	1/48	1
		Description: Identifying number for a product or service				
LIN12	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
LIN13	234	**Product/Service ID**	C	AN	1/48	1
		Description: Identifying number for a product or service				
LIN14	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
LIN15	234	**Product/Service ID**	C	AN	1/48	1
		Description: Identifying number for a product or service				
LIN16	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
LIN17	234	**Product/Service ID**	C	AN	1/48	1
		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., U.P.C. No., ISBN No., Model No., or SKU.

User:

The codes listed in LIN02 can be sent in any order.

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G53 Maintenance Type

Pos: 015	**Max: 1**
Detail - Optional	
Loop: LIN	**Elements: 1**

User Option (Usage): Used
Purpose: To identify the specific type of item maintenance

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
G5301	875	**Maintenance Type Code**	M	ID	3/3	1

Description: Code identifying the specific type of item maintenance

CodeList Summary (Total Codes: 103, Included: 3)

Code	Name
001	Change
002	Delete
003	Add Full Item Detail

User:

Sent only when BCT10 = 04 (Change)

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REF — Reference Identification

Pos: 040	**Max: >1**
Detail - Optional	
Loop: LIN	**Elements: 3**

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	1

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 3)

Code	Name
MR	Merchandise Type Code

User:
N - Product shipped from a Tech Data warehouse
Y - Product supplied direct from the vendor.

Code	Name
PG	Product Group

User:
Items with the following status will be blocked during order creation:

01 - Item to be phased out with no replacement.
02 - Item to be phased out with replacement.
39 - Item on allocation per Tech Data, manually allocated.
40 - item on allocation per the channel, manually allocated.
47 - Hazmat Review, Item is blocked.
50 - Item available for Quote or order but not for shipment.
70 - Item blocked for new orders. Allocated orders will ship.
98 - Discontinued product at end of life.
99 - Item on hold.

Code	Name
SU	Special Processing Code

Description: Unique code identifying the special handling requirements for the claim

User:
Product can not be ordered via EDI - Call Sales if value equals 'N'

Ref	Id	Element Name	Req	Type	Min/Max	Rep
REF02	127	**Reference Identification**	C	AN	1/30	1

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

Ref	Id	Element Name	Req	Type	Min/Max	Rep
REF03	352	**Description**	C	AN	1/80	1

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

User:
N - NEW - New item offered by Tech Data
A - ACTIVE - Active item
01- PHASED - item to be withdrawn no replacement
02 - PHASED - item to be withdrawn with replacement
39 - ALLOCATED - Item constrained by Tech Data for manual allocation.
40 - ALLOCATED - Item constrained by channell for manual allocation.
47 - HOLD for Hazmat Review, Item is blocked.
50 - HOLD - Item can be quoted or ordered but not available to be shipped.
70 - HOLD - Item not available to sell. Previously allocated orders will ship.
98 - DISCONTINUED.
99 - HOLD - Item not available to sell.

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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.

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YNQ   Yes/No Question

<table>
<tr><td>Pos: 045</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: LIN</td><td>Elements: 3</td></tr>
</table>

User Option (Usage): Used
Purpose: To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
YNQ01	1321	**Condition Indicator**	C	ID	2/2	1

Description: Code indicating a condition

CodeList Summary (Total Codes: 1079, Included: 1)

Code	Name
NC	Item has Direct Numerical Control

User:
  Item is serialized.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
YNQ02	1073	**Yes/No Condition or Response Code**	M	ID	1/1	1

Description: Code indicating a Yes or No condition or response

CodeList Summary (Total Codes: 4, Included: 2)

Code	Name
N	No

User:

Code	Name
Y	Yes

Ref	Id	Element Name	Req	Type	Min/Max	Rep
YNQ10	933	**Free-Form Message Text**	C	AN	1/264	1

Description: Free-form message text
User: Possible messages:
Energy Start Compliant
Epeat Compliant
ROHS Compliant
Section 508 Compliant
TAA Compliant
Levy Fee Eligible
Spec Hand - Large format and Dims
Spec Hand - Large and small LCD
Spec Hand - Dims and small LCD
Spec Hand - Lrg and Small or Dims
Spec Hand - Lrg Format and Plasma
Spec Hand - Dimensional
Spec Hand - Sml Fromat LCD and Plasma

Syntax Rules:

1. E010910 - Only one of YNQ01, YNQ09 or YNQ10 may be present.
2. P0304 - If either YNQ03 or YNQ04   is present, then the other is required.
3. C0908 - If YNQ09 is present, then YNQ08 is required.

Semantics:

1. YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
2. YNQ10 contains a free-form question when codified questions are not available.

User:

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Tech Data utilizes this segment to indicate catalog items that have been assigned serial numbers.

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PID   Product/Item Description

Pos: 070	**Max: 200**
Detail - Optional	
Loop: LIN	**Elements: 3**

User Option (Usage): Used
Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PID01	349	**Item Description Type**	M	ID	1/1	1

Description: Code indicating the format of a description

CodeList Summary (Total Codes: 3, Included: 1)

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PID02	750	**Product/Process Characteristic Code**	O	ID	2/3	1

Description: Code identifying the general class of a product or process characteristic

CodeList Summary (Total Codes: 217, Included: 1)

Code	Name
08	Product

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PID05	352	**Description**	C	AN	1/80	1

Description: A free-form description to clarify the related data elements and their content
User: Tech Data will send only the first 40 characaters of the description.

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.

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PO4   Item Physical Details

Pos: 100	**Max: 1**
Detail - Optional	
Loop: LIN	**Elements: 10**

User Option (Usage): Used
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO401	356	**Pack**	O	N0	1/6	1

Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container
User: Tech Data formats all items with either "0" or "1"

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO402	357	**Size**	C	R	1/8	1

Description: Size of supplier units in pack

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO403	355	**Unit or Basis for Measurement Code**	C	ID	2/2	1

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

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO405	187	**Weight Qualifier**	O	ID	1/2	1

Description: Code defining the type of weight

CodeList Summary (Total Codes: 51, Included: 1)

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO406	384	**Gross Weight per Pack**	C	R	1/9	1

Description: Numeric value of gross weight per pack

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO407	355	**Unit or Basis for Measurement Code**	C	ID	2/2	1

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

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
LB	Pound

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO410	82	**Length**	C	R	1/8	1

Description: Largest horizontal dimension of an object measured when the object is in the upright position

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO411	189	**Width**	C	R	1/8	1

Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO412	65	**Height**	C	R	1/8	1

Description: Vertical dimension of an object measured when the object is in the upright position

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PO413	355	**Unit or Basis for Measurement Code**	C	ID	2/2	1

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

CodeList Summary (Total Codes: 794, Included: 2)

Code	Name

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IN	Inch
MM	Millimeter

Syntax Rules:

1. P0203 - If either PO402 or PO403   is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407   is present, then the other is required.
4. P0809 - If either PO408 or PO409   is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

LDT   **Lead Time**

Pos: 140	**Max: 1**
Detail - Optional	
Loop: LIN	**Elements: 4**

User Option (Usage): Used
Purpose: To specify lead time for availability of products and services

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LDT01	345	**Lead Time Code**	M	ID	2/2	1

Description: Code indicating the time range

CodeList Summary (Total Codes: 30, Included: 1)

Code	Name
AE	From date of PO receipt to shipment

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LDT02	380	**Quantity**	M	R	1/15	1

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LDT03	344	**Unit of Time Period or Interval**	M	ID	2/2	1

Description: Code indicating the time period or interval

CodeList Summary (Total Codes: 50, Included: 1)

Code	Name
DA	Calendar Days

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LDT04	373	**Date**	O	DT	8/8	1

Description: Date expressed as CCYYMMDD

Semantics:

1. LDT04 is the effective date of lead time information.

Comments:

1. LDT02 is the quantity of unit of time periods.

TC2   **Commodity**

<table>
<tr><td>Pos: 165</td><td>Max: 2</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: LIN</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used
Purpose: To identify a commodity or a group of commodities or a tariff page commodity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
TC201	23	**Commodity Code Qualifier**	M	ID	1/1	1

Description: Code identifying the commodity coding system used for Commodity Code

CodeList Summary (Total Codes: 23, Included: 1)

Code	Name
Z	Mutually defined

Ref	Id	Element Name	Req	Type	Min/Max	Rep
TC202	22	**Commodity Code**	M	AN	1/30	1

Description: Code describing a commodity or group of commodities
User: Tech Data Comodity code
See Commodity code document for definitions of category and sub category.

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CTP   **Pricing Information**

Pos: 170	**Max: 1**
Detail - Optional	
Loop: CTP	**Elements: 6**

User Option (Usage): Used
Purpose: To specify pricing information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTP01	687	**Class of Trade Code**	O	ID	2/2	1

Description: Code indicating class of trade

CodeList Summary (Total Codes: 52, Included: 1)

Code	Name
DI	Distributor

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTP02	236	**Price Identifier Code**	C	ID	3/3	1

Description: Code identifying pricing specification

CodeList Summary (Total Codes: 171, Included: 12)

Code	Name
ALT	Alternate Price

> **User:**
> The "ALT" price can be sent to trading partners who are able to accept multiple promotional pricing. Instead of receiving PAQ/PRP pricing, the trading partner would be set up to receive ALT. This is a calculated "best" price for the item based on the available searched promotions. This is beneficial when items have been promoted for price/quantity breaks and have multiple associated CTP loop segments.

Code	Name
CON	Contract Price
LPR	List Price
MSR	Manufacturer's Suggested Retail
PAQ	Price Break Quantity(s)
PRP	Promotional price
ZEF	Education (Student, Staff)
ZEH	Education (Higher)
ZEL	Education (K-12)
ZER	Education (K-12 E-Rate)
ZFE	Federal
ZST	State

> **User:**
> Represents both State and Local Government pricing

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTP03	212	**Unit Price**	C	R	1/17	1

Description: Price per unit of product, service, commodity, etc.
User: A decimal point is required if the price is not in whole dollars. The price will be sent with a decimal point only when needed, e.g. $15.95 is sent as "15.95" and $29.00 is sent as "29".

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTP04	380	**Quantity**	C	R	1/15	1

Description: Numeric value of quantity
User: Only used when CTP02 = "PAQ"

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTP05	C001	**Composite Unit of Measure**	C	Comp		1

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

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTP05-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	1

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

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CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

CTP10	499	**Condition Value**	O	AN	1/10	1

Description: This element is used to indicate the Government/Education market level that applies to this CTP03 price.
User: Only used sent Government/Education price.
(CTP02 = ZEF, ZEH, ZEL, ZER, ZFE, ZFG, ZST)

These codes are used when submitting a Government/Education purchase order 850 in the N106 element.   These codes are also returned in the N106 element of the purchase order response 855.

CodeList Summary (Total Codes: 7, Included: 7)

Code	Name
2F	State
	Description: State
2R	Federal Facility
	Description: Federal
AT	Post-secondary Recipient
	Description: Education (Higher)
GE	General Agency (used for GSA)
	Description: Federal GSA
KR	Pre K to 12
	Description: Education (K-12)
KS	Pre K to 12 (E-Rate)
	Description: Education (K-12 E-Rate)
M8	Educational Institution
	Description: Education (Student, Staff)

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.

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DTM   **Date/Time Reference**

Pos: 180	**Max: 10**
Detail - Optional	
Loop: CTP	**Elements: 2**

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	1

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

CodeList Summary (Total Codes: 1112, Included: 1)

Code	Name
016	Promotion End

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM02	373	**Date**	C	DT	8/8	1

Description: Date expressed as CCYYMMDD

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.

User:

This segment is sent when Promotional (CTP02 = PRP or PAQ), Government (CTP02 = ZFE, ZFS, ZST) or Educational (CTP02 = ZEF, ZEH, ZEL, ZER) pricing is requested and sent.

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CTB   Restrictions/Conditions

Pos: 220   Max: 5
Detail - Optional
Loop: CTP   Elements: 6

User Option (Usage): Used
Purpose: To specify restrictions/conditions (such as shipping, ordering)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTB01	688	**Restrictions/Conditions Qualifier**	M	ID	2/2	1

Description: Code identifying the type of restriction/condition

CodeList Summary (Total Codes: 9, Included: 1)

Code	Name
OR	Ordering

| CTB02 | 352 | **Description** | C | AN | 1/80 | 1 |

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

| CTB03 | 673 | **Quantity Qualifier** | C | ID | 2/2 | 1 |

Description: Code specifying the type of quantity

CodeList Summary (Total Codes: 832, Included: 2)

Code	Name
70	Maximum Order Quantity
79	Billing Unit(s) Per Pricing Unit

| CTB04 | 380 | **Quantity** | C | R | 1/15 | 1 |

Description: Numeric value of quantity

| CTB05 | 522 | **Amount Qualifier Code** | C | ID | 1/3 | 1 |

Description: Code to qualify amount

CodeList Summary (Total Codes: 1473, Included: 2)

Code	Name
7	Discount Amount Due
LI	Line Item Unit Price

| CTB06 | 610 | **Amount** | C | N2 | 1/15 | 1 |

Description: Monetary amount

Syntax Rules:

1. R020406 - At least one of CTB02, CTB04 or CTB06 is required.
2. P0304 - If either CTB03 or CTB04 is present, then the other is required.
3. P0506 - If either CTB05 or CTB06 is present, then the other is required.

User:

This segment is sent only when CTP02 = "PRP" or "PAQ".

Sample CTB segments when CTP02 = "PRP":
CTB~OR~Order up to 10 at special price~70~10~LI~96851
Indicates a maximum allowance amount, in this example, when 10 or less of a non-restricted item is ordered, the trading partner will qualify for the special price in the preceding CTP segment. Any quantity ordered over 10 will be priced at the contract price, in this example $968.51.

Sample CTB segments when CTP02 = "PAQ":
CTB~OR~Base qty discount~79~2~7~8252
Indicates the promotional price is figured with a base quantity at the contract price, not the special price. When the special price in the preceding CTP segment is applied to an order quantity, the total price needs to be adjusted. This is done by adding back the amount specified in the CTB06 element, $82.52, to account for the part of the ordered quantity that is not promotionally priced.

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REF **Reference Identification**

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	1

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 1)

Code	Name
PD	Promotion/Deal Number

Ref	Id	Element Name	Req	Type	Min/Max	Rep
REF02	127	**Reference Identification**	C	AN	1/30	1

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
User: When a promo is associated with the item, value = PROMO.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
REF03	352	**Description**	C	AN	1/80	1

Description: A free-form description to clarify the related data elements and their content
User: When a promo is associated with the item, value = PROMO APPLIED TO PRICE

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:

Only sent when Promotional (CTP02 = PRP or PAQ) pricing is requested.

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SLN   Subline Item Detail

Pos: 350	**Max: 1**
Detail - Optional	
Loop: SLN	**Elements: 10**

User Option (Usage): Used
Purpose: To specify product subline detail item data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN01	350	**Assigned Identification**	M	AN	1/20	1
		Description: Alphanumeric characters assigned for differentiation within a transaction set **User:** Value of this data element will always be 1.				
SLN03	662	**Relationship Code**	M	ID	1/1	1
		Description: Code indicating the relationship between entities **User:** This code identifies if an existing Tech Data item is new to the customer. A - Item has been added to trading partner's inclusion list. D - Item has been deleted from trading partner's inclusion list.				

CodeList Summary (Total Codes: 5, Included: 2)

Code	Name
A	Add
D	Delete

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN04	380	**Quantity**	C	R	1/15	1
		Description: Numeric value of quantity **User:** The value of this data element will always be 1.				
SLN05	C001	**Composite Unit of Measure**	C	Comp		1
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)				
SLN05-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN05-02	1018	**Exponent**	O	R	1/15	1
		Description: Power to which a unit is raised				
SLN05-03	649	**Multiplier**	O	R	1/10	1
		Description: Value to be used as a multiplier to obtain a new value				
SLN09	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				

CodeList Summary (Total Codes: 477, Included: 1)

Code	Name
CH	Country of Origin Code

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN10	234	**Product/Service ID**	C	AN	1/48	1
		Description: Identifying number for a product or service				
SLN11	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive				

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number used in Product/Service ID (234)

CodeList Summary (Total Codes: 477, Included: 1)

Code	Name
CH	Country of Origin Code

SLN12	234	**Product/Service ID**	C	AN	1/48	1

Description: Identifying number for a product or service

SLN13	235	**Product/Service ID Qualifier**	C	ID	2/2	1

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

CodeList Summary (Total Codes: 477, Included: 1)

Code	Name
CH	Country of Origin Code

SLN14	234	**Product/Service ID**	C	AN	1/48	1

Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either SLN04 or SLN05   is present, then the other is required.
2. C0706 - If SLN07 is present, then SLN06 is required.
3. C0806 - If SLN08 is present, then SLN06 is required.
4. P0910 - If either SLN09 or SLN10   is present, then the other is required.
5. P1112 - If either SLN11 or SLN12   is present, then the other is required.
6. P1314 - If either SLN13 or SLN14   is present, then the other is required.
7. P1516 - If either SLN15 or SLN16   is present, then the other is required.
8. P1718 - If either SLN17 or SLN18   is present, then the other is required.
9. P1920 - If either SLN19 or SLN20   is present, then the other is required.
10. P2122 - If either SLN21 or SLN22   is present, then the other is required.
11. P2324 - If either SLN23 or SLN24   is present, then the other is required.
12. P2526 - If either SLN25 or SLN26   is present, then the other is required.
13. P2728 - If either SLN27 or SLN28   is present, then the other is required.

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 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.

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CTT   **Transaction Totals**

User Option (Usage): Used
Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTT01	354	**Number of Line Items**	M	N0	1/6	1

Description: Total number of line items in the transaction set

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: 020	**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:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SE01	96	**Number of Included Segments**	M	N0	1/10	1
		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	1
		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.

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