



An EIDX Convention for Electronic Data Interchange

Transaction Set

832

Price/Sales Catalog

Functional Group ID = SC
X12 Version 004 Release 010

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Revision History

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INTRODUCTION

This section provides the necessary information to enable trading partners to utilize the ASC X12 standards for the exchange of electronic business documents within the electronics industry.

Hyperlinks in this document

This document contains hyperlinks to pages on the EIDX web site as well as hyperlinks to off-site web pages.

EIDX Site Pages. EIDX makes every effort to keep the structure of the site stable and to keep hyperlinks working. However, content does change, and some hyperlinks to www.eidx.org in this document may not work; hyperlinks may not work in the Portable Document Format (.pdf) representations. Navigation aids are provided on the site that may help you to find what you are looking for, as well as a search form. Go to the Publications link on the home page to get started. Use the link on the web site to contact EIDX for further information.

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Abbreviations and Notations

The navigation menu in the EIDX web site Publications area includes links to [Methodology and Legends for EIDX Models](#), the [EIDX Glossary](#) and the [EIDX Acronyms and Abbreviations](#)¹ collection.

General Recommendations and Best Practices

Recommendations and best practices that apply to all business processes, including recommendations for product identification and partner identification, are found in [EIDX Business Models – General Support](#).

Additional References

N/A

¹ <http://www.eidx.org/publications/abbrev/>

OVERVIEW

1. FUNCTIONAL DEFINITION

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.

2. CONSIDERATIONS

See Supporting Documentation at
http://www.eidx.org/publications/business_models/preorder/qtmodl_support.html.

3. TRADING PARTNERS

1. Any sender to any receiver.

4. EIDX BUSINESS MODELS

This is a simple recast/version upgrade of an existing EIDX guideline. Business models were not re-evaluated. For current listing of applicable business processes, see the Cross-Reference of Business Models and Business Documents at
http://www.eidx.org/publications/xref_process.html.

5. FIELD OF APPLICATION

This transaction may be applied for both national and international trade. It is based on universal commercial practice and is not dependent on the type of business or industry.

6. FORMAT

The transmission in the ASC X12 format uses two required envelopes. One is the ISA Interchange Control Header Segment, which starts and identifies an interchange of zero or more functional groups and interchange-related control segments. The ISA includes the sender's mailbox address and a receiver's mailbox address, and specifies which delimiter (a/k/a control, service) characters (data element separator, component element separator and data segment terminator) are being used.

There are no default service characters reserved for use in ASC X12. Allowable service characters should be discussed between trading partners.

The second required envelope is GS Functional Group Header, which indicates the beginning of a functional group and provides group level control information. The GS segment includes functional group level sender and receiver addresses, typically used by the trading partner(s) for internal routing. The GS also includes the GS08 ASC X12 Version/Release/Industry Identifier Code. EIDX does not recommend the use of an Industry Identifier code.

The functional groups are analogous to batches of like documents, i.e. purchase orders, invoices, etc. Each functional group contains one or more transaction sets (electronic documents).

Each transaction set is an ordered collection of segments.

Each segment is an ordered collection of data elements. Each segment has been assigned a two or three character identifier. This identifier marks the beginning of each segment. Each element within the segment is separated by a data element delimiter. EIDX recommends the use of the asterisk (*) character as a data element delimiter. A segment terminator character is used to mark the end of a segment.

Any shaded areas indicate EIDX recommended usage and comment.

7. ATTRIBUTES

Each data element has three ANSI attributes: Element usage, element type and minimum/maximum length. EIDX has additional usage indicated for optional segments and elements which are noted in the following table.

MARGIN	ATTRIBUTE	DE NOTE	MEANING
Must Use	M (Mandatory)	N/A	If a segment, composite, or stand alone data element is mandatory according to the standard, EIDX cannot change the mandatory status on that component. <i>DATA ELEMENT within a COMPOSITE:</i> A data element within a composite is mandatory only if the composite is used.
X	C or X (Conditional) or O (Optional)	No note or NOT USED	EIDX has determined no value in supplying the composite or data element; hence, it need not be generated.
Blank	C or X (Conditional) or O (Optional)	REQUIRED	EIDX members agree that the data concerned must be sent.
Blank	C or X (Conditional) or O (Optional)	No note	Indicates that EIDX makes no recommendation regarding usage. The trading partners must agree on usage.
Blank	C or X (Conditional) or O (Optional)	ADVISED	EIDX has determined value in supplying the data element; hence, it should be generated.
Blank	C or X (Conditional) or O (Optional)	DEPENDING	Data must be sent if a particular defined condition or set of conditions exist. The associated conditions must be explained at the appropriate level of detail.

8. CHANGES FROM VERSION 3020

Only segments, elements or codes used by EIDX are listed. Some fields which have increased in maximum length are not listed.

- All date fields changed from 6/6 (YYMMDD) to 8/8 (CCYYMMDD)
- Changes made to bring transaction into conformance with Product and Other ID supporting document; miscellaneous changes to code lists and notes.
- Per Product and Other ID support document, added codes to DE 98 and DE 66 code lists (used in N1 segment).
- Per Product and Other ID support document, changed N2, N3 and N4 segments to 'Used'
- Per Product and Other ID support document added code 'EM' Electronic Mail to DE 365 (used in PER03).
- Max length of DE 93 Name (used in N102) changed from 35 to 60
- Max length of DE 67 Identification Code (used in N104) changed from 17 to 80
- BCT02 Catalog Number changed from Optional to Mandatory
- Max length of DE 235 Product/Service ID (used in LIN segment) changed from 30 to 48.
- Per Product and Other ID supporting document, added codes to DE 235 code list (used in LIN segment).
- Requirement of DE 234 Product/Service ID Qualifier (used in LIN segment) changed from 'O' Optional to 'X' Conditional.
- Removed usage of DE 234 code 'PW' Part Drawing. See code list for LIN02.
- Usage of Unit or Basis for Measurement Code changed to a Composite Unit of Measure. Use of DE 355 (Unit or Basis for Measurement Code) remains the same.
- Max length of DE 212 Unit Price (used in CTP03) changed from 14 to 17.

SEGMENT TABLES

832 Price/Sales Catalog – List of Used and Not Used Segments

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BCT	Beginning Segment for Price/Sales Catalog	M	1		
Not Used	040	CTP	Pricing Information	O	100		
Not Used	050	REF	Reference Identification	O	>1		
Not Used	055	YNQ	Yes/No Question	O	10		
Not Used	060	PER	Administrative Communications Contact	O	>1		
	070	DTM	Date/Time Reference	O	10		
Not Used	080	CTB	Restrictions/Conditions	O	25		
	090	CUR	Currency	O	5		
Not Used	110	ITD	Terms of Sale/Deferred Terms of Sale	O	2		
Not Used	120	LDT	Lead Time	O	>1		
Not Used	130	SAC	Service, Promotion, Allowance, or Charge Information	O	>1		
Not Used	133	TD1	Carrier Details (Quantity and Weight)	O	>1		
Not Used	134	TD5	Carrier Details (Routing Sequence/Transit Time)	O	>1		
Not Used	135	TD3	Carrier Details (Equipment)	O	>1		
Not Used	136	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	>1		
Not Used	140	FOB	F.O.B. Related Instructions	O	1		
Not Used	142	PKG	Marking, Packaging, Loading	O	>1		
Not Used	145	G93	Price Bracket Identification	O	50		
Not Used	146	TXI	Tax Information	O	>1		
Not Used	147	AAA	Request Validation	O	1		
LOOP ID – N1						>1	
	150	N1	Name	O	1		
	160	N2	Additional Name Information	O	2		
	170	N3	Address Information	O	2		
	180	N4	Geographic Location	O	>1		
Not Used	190	REF	Reference Identification	O	12		
Not Used	195	PKG	Marking, Packaging, Loading	O	>1		
	200	PER	Administrative Communications Contact	O	>1		
Not Used	201	DTM	Date/Time Reference	O	10		
LOOP ID – LM						>1	
Not Used	210	LM	Code Source Information	O	1		
Not Used	220	LQ	Industry Code	M	>1		
LOOP ID – N9						>1	
Not Used	230	N9	Reference Identification	O	1		
Not Used	240	DTM	Date/Time Reference	O	>1		

Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
LOOP ID - LIN						>1
010	LIN	Item Identification	O	1		
Not Used	012	PO1	Baseline Item Data	O	1	
Not Used	015	G53	Maintenance Type	O	1	n1
Not Used	025	SI	Service Characteristic Identification	O	>1	
	030	DTM	Date/Time Reference	O	10	
Not Used	040	REF	Reference Identification	O	>1	
Not Used	045	YNQ	Yes/No Question	O	10	
Not Used	050	PER	Administrative Communications Contact	O	>1	
Not Used	055	CRD	Content Reporting Detail	O	>1	
	060	CTB	Restrictions/Conditions	O	25	
	070	PID	Product/Item Description	O	200	
Not Used	080	MEA	Measurements	O	40	
Not Used	090	PKG	Marking, Packaging, Loading	O	25	
	100	PO4	Item Physical Details	O	1	
Not Used	107	TD1	Carrier Details (Quantity and Weight)	O	>1	
Not Used	108	TD5	Carrier Details (Routing Sequence/Transit Time)	O	>1	
Not Used	109	TD3	Carrier Details (Equipment)	O	>1	
Not Used	110	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	>1	
Not Used	130	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
Not Used	140	LDT	Lead Time	O	1	
Not Used	150	SAC	Service, Promotion, Allowance, or Charge Information	O	>1	
Not Used	160	FOB	F.O.B. Related Instructions	O	1	
Not Used	164	AAA	Request Validation	O	1	
Not Used	165	TC2	Commodity	O	2	
Not Used	166	TXI	Tax Information	O	>1	
Not Used	168	G55	Item Characteristics - Consumer Unit	O	1	
Not Used	169	G54	Module Description	O	1	
LOOP ID - CTP						100
	170	CTP	Pricing Information	O	1	
Not Used	175	G40	Bracket Price	O	99	
Not Used	180	DTM	Date/Time Reference	O	10	
Not Used	182	G36	Price List Reference	O	1	
Not Used	190	LDT	Lead Time	O	1	
Not Used	200	CUR	Currency	O	5	
Not Used	210	PO4	Item Physical Details	O	1	
Not Used	220	CTB	Restrictions/Conditions	O	5	
Not Used	225	REF	Reference Identification	O	>1	
Not Used	227	G43	Promotion/Price List Area	O	9999	
Not Used	228	SAC	Service, Promotion, Allowance, or Charge Information	O	>1	
Not Used	229	G26	Pricing Conditions	O	99	
LOOP ID - N1						>1
Not Used	230	N1	Name	O	1	
Not Used	240	N2	Additional Name Information	O	2	
Not Used	250	N3	Address Information	O	2	
Not Used	260	N4	Geographic Location	O	1	
Not Used	270	REF	Reference Identification	O	12	

Not Used	280	PER	Administrative Communications Contact	O	>1
Not Used	281	DTM	Date/Time Reference	O	10
Not Used	282	PKG	Marking, Packaging, Loading	O	>1
LOOP ID - G39					>1
Not Used	283	G39	Item Characteristics - Vendor's Selling Unit	O	1
Not Used	284	CTP	Pricing Information	O	1
LOOP ID - PKL					20
Not Used	285	PKL	Multi-Pack Configuration	O	1
Not Used	290	CTP	Pricing Information	O	1
Not Used	295	PKG	Marking, Packaging, Loading	O	2
LOOP ID - LFG					1
Not Used	300	LFG	Hazardous Information, Finished Goods	O	1
LOOP ID - CRC					>1
Not Used	310	CRC	Conditions Indicator	O	1
Not Used	320	QTY	Quantity	O	1
LOOP ID - LM					>1
Not Used	330	LM	Code Source Information	O	1
Not Used	340	LQ	Industry Code	M	>1
LOOP ID - SLN					>1
Not Used	350	SLN	Subline Item Detail	O	1
Not Used	360	SI	Service Characteristic Identification	O	>1
Not Used	370	PID	Product/Item Description	O	>1
Not Used	380	DTM	Date/Time Reference	O	>1
Not Used	390	CTP	Pricing Information	O	>1
Not Used	400	PAM	Period Amount	O	>1
Not Used	410	PO4	Item Physical Details	O	>1
Not Used	420	PKG	Marking, Packaging, Loading	O	>1
Not Used	430	QTY	Quantity	O	>1
Not Used	440	MEA	Measurements	O	>1
Not Used	450	SAC	Service, Promotion, Allowance, or Charge Information	O	>1
Not Used	460	MTX	Text	O	>1
LOOP ID - LM					>1
Not Used	470	LM	Code Source Information	O	1
Not Used	480	LQ	Industry Code	M	>1
LOOP ID - N9					>1
Not Used	490	N9	Reference Identification	O	1
Not Used	500	DTM	Date/Time Reference	O	>1

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
	010	CTT	Transaction Totals	O	1		n2
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. If BCT10 is used and G5301 is used, then the G5301 takes precedence.
2. Number of line items (CTT01) is the accumulation of the number of LIN segments. Hash total (CTT02) is not used in this transaction.

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set 832 Price/Sales Catalog	
Must Use	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

The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment (SE02) must be identical to the control number in the ST segment for each transaction.

Segment: BCT Beginning Segment for Price/Sales Catalog

Position: 020

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of the Price/Sales Catalog Transaction Set and specify catalog purpose and number information

Syntax Notes:

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BCT01	683	Catalog Purpose Code	M ID 2/2
			Code indicating purpose of catalog Refer to 004010 Data Element Dictionary for acceptable code values.	
	BCT02	684	Catalog Number	O AN 1/15
			Identifying number for catalog or superseded catalog	
Not Used	BCT03	685	Catalog Version Number	O AN 1/15
			Identifying version number of catalog or superseded catalog	
Not Used	BCT04	686	Catalog Revision Number	O AN 1/6
			Identifying revision number of catalog or superseded catalog	
Not Used	BCT05	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 Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	BCT06	684	Catalog Number	O AN 1/15
			Identifying number for catalog or superseded catalog	
Not Used	BCT07	685	Catalog Version Number	O AN 1/15
			Identifying version number of catalog or superseded catalog	
Not Used	BCT08	686	Catalog Revision Number	O AN 1/6
			Identifying revision number of catalog or superseded catalog	
Not Used	BCT09	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	

BCT10 353 Transaction Set Purpose Code O ID 2/2

Code identifying purpose of transaction set

EIDX Usage: Advised.

- | | |
|----|--|
| 00 | Original
The transaction set purpose code of 00
implies that all parts and prices are included. |
| 04 | Change
The transaction set purpose code of 04
implies that selective parts and prices are
included. |

Segment: **DTM** Date/Time Reference

Position: 070
Loop:
Level: Heading
Usage: Optional
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:

Notes: EIDX Usage: Required.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective 036 Expiration Date coverage expires	M ID 3/8
	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8
Not Used	DTM03	337	Time 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)	X TM 4/8
Not Used	DTM04	623	Time Code 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 Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3

Not
Used

DTM06

1251

Date Time Period

X AN 1/35

Expression of a date, a time, or range of dates, times or dates
and times

Segment: **CUR** Currency

Position: 090

Loop:

Level: Heading

Usage: Optional

Max Use: 5

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.

Notes: EIDX USAGE: Depending.

The Electronics Industry recommends that currency be used at header level only. EIDX recommends that this segment only be used when sending invoices not in U.S. dollars.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	CUR01	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual DS Distributor MF Manufacturer of Goods	
Must Use	CUR02	100	Currency Code	M ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	
Not Used	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	

Not Used	CUR04	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	CUR05	100	Currency Code	O ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	
Not Used	CUR06	669	Currency Market/Exchange Code	O ID 3/3
			Code identifying the market upon which the currency exchange rate is based Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	CUR07	374	Date/Time Qualifier	X ID 3/3
			Code specifying type of date or time, or both date and time Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	CUR08	373	Date	O DT 8/8
			Date expressed as CCYYMMDD	
Not Used	CUR09	337	Time	O 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)	
Not Used	CUR10	374	Date/Time Qualifier	X ID 3/3
			Code specifying type of date or time, or both date and time Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	CUR11	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Not Used	CUR12	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)	
Not Used	CUR13	374	Date/Time Qualifier	X ID 3/3
			Code specifying type of date or time, or both date and time Refer to 004010 Data Element Dictionary for acceptable code values.	

Not Used	CUR14	373	Date	X	DT 8/8
Not Used	CUR15	337	Date expressed as CCYYMMDD Time	X	TM 4/8
Not Used	CUR16	374	Date/Time Qualifier	X	ID 3/3
Not Used	CUR17	373	Date	X	DT 8/8
Not Used	CUR18	337	Date expressed as CCYYMMDD Time	X	TM 4/8
Not Used	CUR19	374	Date/Time Qualifier	X	ID 3/3
Not Used	CUR20	373	Date	X	DT 8/8
Not Used	CUR21	337	Date expressed as CCYYMMDD Time	X	TM 4/8

Segment: **N1** Name

Position: 150
Loop: N1 Optional
Level: Heading
Usage: Optional
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.

Notes: EIDX USAGE: Advised.

At least one entry should be provided for sender. Names and addresses are usually designated in the header area. It is recommended that the trading partner codify all the addresses within their system through the use of N104. See General Recommendations for Party and Location Identification at http://www.eidx.org/publications/business_models/general/parties.html.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
Must Use	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual DS Distributor MF Manufacturer of Goods	
	N102	93 Name	X AN 1/60
		Free-form name EIDX USAGE: Advised. Facilitates audits and/or research.	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67) Required by EIDX.	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		14 UCC/EAN Location Code Prefix	
		The first part of a 13 digit UCC/EAN Location Code within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system. A globally unique 3 to 10 digit code for the identification of a	

			91 company Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent		
	N104	67	Identification Code	X	AN 2/80
			Code identifying a party or other code EIDX USAGE: Advised.		
			The number that identifies the location.		
Not Used	N105	706	Entity Relationship Code	O	ID 2/2
			Code describing entity relationship Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	N106	98	Entity Identifier Code	O	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **N2 Additional Name Information**

Position: 160
Loop: N1 Optional
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:
Notes:

EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See General Recommendations for Party and Location Identification at http://www.eidx.org/publications/business_models/general/parties.html.

Note: Use of this segment may impede automation and application integration.

Data Element Summary

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

Segment: N3 Address Information

Position: 170
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See General Recommendations for Party and Location Identification at http://www.eidx.org/publications/business_models/general/parties.html.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N301	166	Address Information	M AN 1/55
	N302	166	Address information Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location**

- Position:** 180
- Loop:** N1 Optional
- Level:** Heading
- Usage:** Optional
- 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.
- Notes:** EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See General Recommendations for Party and Location Identification at http://www.eidx.org/publications/business_models/general/parties.html.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
N401	19	City Name Free-form text for city name	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26	Country Code Code identifying the country	O ID 2/3
N405	309	Location Qualifier Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
N406	310	Location Identifier Code which identifies a specific location	O AN 1/30

Segment: PER Administrative Communications Contact

Position: 200
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
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:

Notes:

EIDX USAGE: Advised.

At least one direct contact in sender organization should be provided at the header level.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			BD Buyer Name or Department CR Customer Relations IC Information Contact	
	PER02	93	Name	O AN 1/60
			Free-form name	
			EIDX USAGE: Advised.	
			Facilitates audits and/or research.	
	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			EM Electronic Mail FX Facsimile TE Telephone	
	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
			Recommended format for telephone number is: 800-555-1212X1234.	
Not Used	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values.	

Not Used	PER06	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
Not Used	PER07	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	PER08	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
Not Used	PER09	443	Contact Inquiry Reference	O AN 1/20
			Additional reference number or description to clarify a contact number	

Segment: **LIN** Item Identification

- Position:** 010
- Loop:** LIN Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify basic item identification data
- Syntax Notes:**
 - 1 If either LIN04 or LIN05 is present, then the other is required.
 - 2 If either LIN06 or LIN07 is present, then the other is required.
 - 3 If either LIN08 or LIN09 is present, then the other is required.
 - 4 If either LIN10 or LIN11 is present, then the other is required.
 - 5 If either LIN12 or LIN13 is present, then the other is required.
 - 6 If either LIN14 or LIN15 is present, then the other is required.
 - 7 If either LIN16 or LIN17 is present, then the other is required.
 - 8 If either LIN18 or LIN19 is present, then the other is required.
 - 9 If either LIN20 or LIN21 is present, then the other is required.
 - 10 If either LIN22 or LIN23 is present, then the other is required.
 - 11 If either LIN24 or LIN25 is present, then the other is required.
 - 12 If either LIN26 or LIN27 is present, then the other is required.
 - 13 If either LIN28 or LIN29 is present, then the other is required.
 - 14 If either LIN30 or LIN31 is present, then the other is required.
- Semantic Notes:** 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.
- Notes:** Required by EIDX.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set EIDX Usage: Optional.	O AN 1/20
Must Use	LIN02	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See General Recommendations for Product Identification at http://www.eidx.org/publications/business_models/general/prodid.html .	M ID 2/2
		AB Assembly	
		BP Buyer's Part Number	
		DR Drawing Revision Number	
		EC Engineering Change Level	
		GS General Specification Number	
		MG Manufacturer's Part Number	
		PN Company Part Number	
		PT Print or Drawing	

			UP	U.P.C. Consumer Package Code (1-5-5-1) Use to convey Global Trade Item Number (GTIN)	
			VP	Vendor's (Seller's) Part Number	
Must Use	LIN03	234	Product/Service ID		M AN 1/48
			Identifying number for a product or service At least one occurrence of a combination of data elements 235 (Product/Service ID Qualifier) and 234 (Product/Service ID) is required. Additionally the use of the combination of these data elements must conform to the Electronics Industry Data Exchange Product Identification Guidelines.		
	LIN04	235	Product/Service ID Qualifier		X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.		
	LIN05	234	Product/Service ID		X AN 1/48
			Identifying number for a product or service		
	LIN06	235	Product/Service ID Qualifier		X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.		
	LIN07	234	Product/Service ID		X AN 1/48
			Identifying number for a product or service		
	LIN08	235	Product/Service ID Qualifier		X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.		
	LIN09	234	Product/Service ID		X AN 1/48
			Identifying number for a product or service		
	LIN10	235	Product/Service ID Qualifier		X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.		
	LIN11	234	Product/Service ID		X AN 1/48
			Identifying number for a product or service		
	LIN12	235	Product/Service ID Qualifier		X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.		
	LIN13	234	Product/Service ID		X AN 1/48
			Identifying number for a product or service		
	LIN14	235	Product/Service ID Qualifier		X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.		
	LIN15	234	Product/Service ID		X AN 1/48
			Identifying number for a product or service		
	LIN16	235	Product/Service ID Qualifier		X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.		

LIN17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.	X	ID 2/2
LIN19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.	X	ID 2/2
LIN21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.	X	ID 2/2
LIN23	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.	X	ID 2/2
LIN25	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.	X	ID 2/2
LIN27	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.	X	ID 2/2
LIN29	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See code list under LIN02.	X	ID 2/2
LIN31	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment: DTM Date/Time Reference

Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
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:

Notes:

EIDX Usage: Depending.

The DTM in the detail area is recommended by EIDX only to convey effective and/or expiration dates for parts if they have dates different than those in the header area.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			007 Effective Required by EIDX.	
			036 Expiration Date coverage expires Required by EIDX.	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD EIDX Usage: Required.	
Not Used	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)	
Not Used	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 Refer to 004010 Data Element Dictionary for acceptable code values.	

Not Used	DTM05	1250	Date Time Period Format Qualifier	X	ID 2/3
			Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	DTM06	1251	Date Time Period	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		

Segment: CTB Restrictions/Conditions

Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 25
Purpose: To specify restrictions/conditions (such as shipping, ordering)
Syntax Notes: 1 At least one of CTB02 CTB04 or CTB06 is required.
 2 If either CTB03 or CTB04 is present, then the other is required.
 3 If either CTB05 or CTB06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

EIDX Usage: Optional.

Use this segment only if necessary to convey ordering or shipping restrictions which cannot be codified in another segment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	CTB01	688	Restrictions/Conditions Qualifier	M ID 2/2
			Code identifying the type of restriction/condition OR Ordering Required by EIDX. SR Shipping Required by EIDX.	
	CTB02	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
	CTB03	673	Quantity Qualifier	X ID 2/2
			Code specifying the type of quantity 57 Minimum Order Quantity 69 Incremental Order Quantity	
	CTB04	380	Quantity	X R 1/15
			Numeric value of quantity	
Not Used	CTB05	522	Amount Qualifier Code	X ID 1/3
			Code to qualify amount Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	CTB06	610	Amount	X N2 1/15
			Monetary amount	

Segment: **PID** Product/Item Description

Position: 070
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 200
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.

- Comments:**
- 4 PID09 is used to identify the language being used in PID05.
 - 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.

Notes: Recommended by EIDX.

Use this segment only if necessary to convey data which cannot be codified on the LIN segment.

Recommend usage in initial price catalog. PO4 may also be used.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PID01	349	Item Description Type	M ID 1/1
			Code indicating the format of a description Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	PID02	750	Product/Process Characteristic Code	O ID 2/3
			Code identifying the general class of a product or process characteristic Refer to 004010 Data Element Dictionary for acceptable code values.	

Not Used	PID03	559	Agency Qualifier Code	X	ID 2/2
			Code identifying the agency assigning the code values Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	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		
Not Used	PID06	752	Surface/Layer/Position Code	O	ID 2/2
			Code indicating the product surface, layer or position that is being described Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	PID07	822	Source Subqualifier	O	AN 1/15
			A reference that indicates the table or text maintained by the Source Qualifier		
Not Used	PID08	1073	Yes/No Condition or Response Code	O	ID 1/1
			Code indicating a Yes or No condition or response Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	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: **PO4** Item Physical Details

Position: 100
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

- Syntax Notes:**
- 1 If either PO402 or PO403 is present, then the other is required.
 - 2 If PO405 is present, then PO406 is required.
 - 3 If either PO406 or PO407 is present, then the other is required.
 - 4 If either PO408 or PO409 is present, then the other is required.
 - 5 If PO410 is present, then PO413 is required.
 - 6 If PO411 is present, then PO413 is required.
 - 7 If PO412 is present, then PO413 is required.
 - 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
 - 9 If PO417 is present, then PO416 is required.
 - 10 If PO418 is present, then PO404 is required.

- Semantic Notes:**
- 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".

Notes:

2 PO413 defines the unit of measure for PO410, PO411, and PO412.

EIDX Usage: OPTIONAL. Packaging information is conveyed using PO404, Packaging Code, in the PO4 segment. This is a 5 digit, concatenated field with the first 3 digits for "packaging form" and the final 2 for "packaging material".

See General Recommendations for Product Identification at http://www.eidx.org/publications/business_models/general/prodid.html.

Data Element Summary

Ref.	Data		Attributes
Des.	Element	Name	
PO401	356	Pack	O N0 1/6
		The number of inner containers, or number of eaches if there are no inner containers, per outer container	
PO402	357	Size	X R 1/8
		Size of supplier units in pack	

PO403	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	X ID 2/2
PO404	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required AMM Ammo Pack BLK Bulk RAL Rail (Semiconductor) REL Reel TRY Tray 90 Standard	X AN 3/5
PO405	187	Weight Qualifier Code defining the type of weight Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
PO406	384	Gross Weight per Pack Numeric value of gross weight per pack	X R 1/9
PO407	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	X ID 2/2
PO408	385	Gross Volume per Pack Numeric value of gross volume per pack	X R 1/9
PO409	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	X ID 2/2
PO410	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	X R 1/8
PO411	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	X R 1/8
PO412	65	Height Vertical dimension of an object measured when the object is in the upright position	X R 1/8
PO413	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	X ID 2/2
PO414	810	Inner Pack The number of eaches per inner container	O N0 1/6
PO415	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

	PO416	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	X	AN 1/20
	PO417	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O	AN 1/20
Not Used	PO418	1470	Number A generic number	O	N0 1/9

Segment: **CTP Pricing Information**

- Position:** 170
- Loop:** CTP Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify pricing information
- Syntax Notes:**
 - 1 If either CTP04 or CTP05 is present, then the other is required.
 - 2 If CTP06 is present, then CTP07 is required.
 - 3 If CTP09 is present, then CTP02 is required.
 - 4 If CTP10 is present, then CTP02 is required.
 - 5 If CTP11 is present, then CTP03 is required.
- Semantic Notes:**
 - 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.
See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.
- Notes:** EIDX Usage: Advised.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
CTP01	687	Class of Trade Code Code indicating class of trade EIDX Usage: Required.	O ID 2/2
		DI Distributor	
		OE OEM	
		RS Resale	
CTP02	236	Price Identifier Code Code identifying pricing specification EIDX Usage: Required.	X ID 3/3
		CAT Catalog Price	
		CON Contract Price	
		CUS Declared Customs Unit Value	
		DIS Distributor's Price	
		ICL Unit Price Through Quantity	
		MSR Manufacturer's Suggested Retail	
		PBQ Unit Price Beginning Quantity	
		PRP Promotional price	
CTP03	212	Unit Price Price per unit of product, service, commodity, etc. EIDX Usage: Required.	X R 1/17
CTP04	380	Quantity Numeric value of quantity EIDX Usage: Advised.	X R 1/15
CTP05	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X

Must Use	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00104	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 Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00105	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00106	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00107	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 Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	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 Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	

Not Used	C00113	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 Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	C00114	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00115	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	CTP06	648	Price Multiplier Qualifier	O	ID 3/3
			Code indicating the type of price multiplier Not recommended by EIDX. Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	CTP07	649	Multiplier	X	R 1/10
			Value to be used as a multiplier to obtain a new value Not recommended by EIDX.		
Not Used	CTP08	782	Monetary Amount	O	R 1/18
			Monetary amount		
Not Used	CTP09	639	Basis of Unit Price Code	O	ID 2/2
			Code identifying the type of unit price for an item Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	CTP10	499	Condition Value	O	AN 1/10
			Identifies rate restrictions or provisions		
Not Used	CTP11	289	Multiple Price Quantity	O	NO 1/2
			Quantity of units for a given price, e.g., 3 for \$10.00		

Segment: **CTT** Transaction Totals

Position: 010

Loop:

Level: Summary

Usage: Optional

Max Use: 1

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

Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.

2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set This is the total number of LIN segments.	
Not Used	CTT02	347	Hash Total	O R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	
Not Used	CTT03	81	Weight	X R 1/10
			Numeric value of weight	
Not Used	CTT04	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 Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	CTT05	183	Volume	X R 1/8
			Value of volumetric measure	
Not Used	CTT06	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 Refer to 004010 Data Element Dictionary for acceptable code values.	

Not
Used

CTT07

352

Description

O AN 1/80

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

Segment: **SE** Transaction Set Trailer
Position: 020
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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M NO 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	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	
			The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment (SE02) must be identical to the control number in the ST segment for each transaction.	

832 PRICE/SALES CATALOG EXAMPLES

Price Qualifier - Data Element 236 in CTP02

CTP02 = ICL (UNIT PRICE THROUGH QUANTITY)

When CTP02 equals ICL - (Unit Price Through Quantity), the starting quantity for the price/quantity range is one unit. The price break will occur when one unit beyond the maximum units in the previous price category is purchased. The unit price will be constant for all units in the price category. The only condition on the price break is that the quantity purchased must be more than the maximum quantity specified in the previous price category

OTY RANGE	CATALOG PRICE	ORDER OTY	TOTAL ORDER COSTS
1-500	\$40.00	500	\$20,000
1-1000	\$35.00	501	\$17,535
1-2000	\$30.00	1001	\$30,030
1-2000	\$30.00	2000	\$60,000.
2000+	\$25.00	2001	\$50,025

The CTP04 Quantity in the last price category should be set to a large number like 999999 to indicate all quantities beyond the last high category.

CTP*RS*ICL*30.00*2000

CTP*RS*ICL*25.00*999999

CTP02 = PCB (UNIT PRICE BEGINNING QUANTITY)

When CTP02 equals PCB - (Unit Price Beginning Quantity), different prices are used for different quantities. The price break will occur for the quantities exceeding the maximum quantities found in the higher price categories. The price breaks are only applicable for the incremental quantities. Higher prices from the other price break categories still apply.

OTY RANGE	CATALOG PRICE	ORDER OTY	TOTAL ORDER COSTS COMPONENTS	TOTAL ORDER COSTS
1-500	\$40.00	500	\$20,000	\$20,000
501-1000	\$35.00	501	\$20,000+\$35.00	\$20,035
501-1000	\$35.00	1000	\$20,000 first 500 units 17,500 second 500 units	\$37,500
1001-2000	\$30.00	1001	\$20,000 first 500 units 17,500 second 500 units 30 1001 st unit	\$37,530
1001-2000	\$30.00	2000	\$20,000 first 500 units 17,500 second 500 units 29,970 1001 st - 2000 th units	\$67,470
2000+	\$25.00	2001	\$20,000 first 500 units 17,500 second 500 units 29,970 1001 st - 2000 th units 25 2001 st unit	\$67,495

ICL and P130 qualifiers Within the **same CTP01 (Class of Trade Code)** for the same LIN should not be used at the same time, i.e., all price categories for resale process should use only PBQ or ICL qualifiers, but not both.

There are four examples of the use of the Price Sales Catalog transaction set on the following pages.

Example 1: The price catalog includes part descriptions in PID and P04 segments. This is particularly useful for the initial price catalog. This transaction has a transaction set purpose indicating an Original (00). Transaction set purpose code 00 implies that all parts and prices are included. It does not imply the presence or absence of PID or P04 segments.

Example 2: All prices are provided, but part descriptions are not included. This transaction has a transaction purpose indicating an original (00). An original implies that all parts and prices are included in the transaction.

Price breaks on the CTP segments are indicated by the following qualifiers:

ICL means

Unit Price Through Quantity, for example:

CTP with ICL and quantity 100 means price for quantity from 1 through 100.

CTP with ICL and quantity 200 means price for quantity from 1 through 200.

Back to back ICL segments imply price breaks when the quantities ordered is higher than the maximum quantity specified on the previous CTR

PBO means Unit Price Beginning Quantity, for example:

CTP with PBQ and quantity 201 means price for quantity starting at 201.

Example 3: All prices are provided, but part descriptions are not included. This transaction has a transaction set purpose indicating an Original (00). An original implies that all parts and prices are included in the transaction.

Price breaks on the CTP segments are indicated by the PBQ qualifier only:

P130 means Unit Price Beginning Quantity, for example:

CTP with PBQ and quantity 1 means price for quantity starting at 1.

CTP with PBO and quantity 500 means price for quantity starting at 500.

Example 4: Some prices are provided. This transaction has a transaction set purpose indicating a Change (04). Change implies that selective parts and prices are included in the transaction.

The LIN segments also illustrate replacement and obsolete parts. **Replacement** and obsolete LIN segments may be used in any of the business scenarios.

832 Example 1 - Manufacturer Catalog to All Distributors

This is an example of a manufacturer providing parts and prices to all distributors. This may be for an initial catalog since all part description and information may be included in PID and P04 segments. **These segments are not necessary when only the prices are updated.**

HEADING AREA:	
ST*832*02044 N/L	The transaction set ID is 832. The transaction set control number is 02044.
BCT*PC*81812*****00 N/L	The catalog purpose code is Price Catalog, catalog number 81812, an Original.
DTM*007*910312 N/L	This entire Price Catalog is effective on March 12, 1991 (if selective line items have new effective dates, there may be DTM segments in the detail area).
NI*MF**91*12345 N/L	This is a price catalog from manufacturer with seller's code of 12345.
DETAIL - Line Item 1	
LIN**VP*IL49CSSA K/L	The item is identified by the Vendor Part IL49CS5A.
DTM*007*910616 N/L	The effective date is June 16, 1991.
CTB*OR**57*50 N/L	The minimum order quantity is 50.
CTB*OR**69*10 N/L	The incremental order quantity is 10.
PID*F****HIGH SPEED DEVICE N/L	The free-form part description is high speed device.
P04*6*10*EA N/L	The physical detail of the part: Number of inner pack = 6 Number of units in pack = 10 Unit of measure = EA
CTP*DI*CAT*13.50**EA N/L	The distributor's catalog price is \$13.50 each.
CTP*RS*ICL*20.00*100*EA N/L	The resale unit price is \$20.00 each from 1 to 100 units.
CTP*RS*ICL*19.50*500*EA N/L	The resale unit price is \$19.50 each from 1 to 500 units.
CTP*RS*PBQ*19.00*501*EA N/L	The resale unit is \$19.00 for quantities beginning at 501. This implies that at least 101 parts are ordered to receive the price break from the previous CTP segment.
DETAIL - Line Item 2	
LIN**VP*AM49RCSA N/L	The item is identified by the Vendor Part AM49RC5A.. Vendor part AR49RC5A has the effective date of March 13, 1991 from the header DTM.
CTB*OR**57*500 N/L	The minimum order quantity is 500.
CTB*OR**69*1000 N/L	The incremental order quantity is 1000.
PID*F****386 DEVICE N/L	The free-form part description is 386 DEVICE.
P04*10*20*EA N/L	The physical detail of the part: Number of inner packs = 10 Number of units in pack = 20 Unit of measure = EA
CTP*DI*CAT*10.95**EA N/L	The distributor's catalog price is \$10.95 each.
CTP*RS*ICL*16.00*99*EA N/L	The resale unit price is \$16.00 each from 1 to 99 units.
CTP*RS*ICL*15.50*499*EA N/L	The resale unit price is \$15.50 each from 1 to 499 units. This implies that at least 100 units is ordered to receive the price break from the previous CTP segment.
CTP*RS*ICL*14.00*999*EA N/L	The resale unit price is \$14.00 each from 1 to 999 units. This also presumes the price of \$14.00 for orders over 999 units.

SUMMARY AREA	
CTT*2 N/L	The number of LIN segments for this price catalog is 2.
SE*25*02044 N/L	The number of segments for this transaction is 25. The transaction set control number is 02044.

832 Example 2 – Manufacturer Updates to All Distributors

This is an example of a manufacturer providing all price updates to all distributors. Note that the last CTP segment in the loop has a qualifier PBQ to indicate the price for quantities greater than the indicated quantity.

Expanded part descriptions using PID and P04 segments are not included in this transaction since this is not intended to be the initial loading of part descriptions.

HEADING AREA:	
ST*832*02044 N/L	The transaction set ID is 832. The transaction set control number is 02044.
BCT*PC*81812*****00 N/L	The catalog purpose code is a Price Catalog, catalog number 81812, an original.
DTM*007*910312 N/L	This entire Price Catalog is effective on March 12, 1991 (if selective line items have new effective dates, there may be DTM segments in the detail area).
NI*MF**01*123456789 N/L	This is a price catalog from manufacturer with DUNS code of 123456789.
DETAIL – Line Item 1	
LIN**VP*1L49CS5A N/L	The item is identified by the Vendor Part IL49CS5A.
DTM*007*910616 N/L	The effective date is June 16, 1991.
CTB*OR**57*50 N/L	The minimum order quantity is 50.
CTB*OR**69*50 N/L	The incremental order quantity is 50.
CTP*DI*CAT*13.50**EA N/L	The distributor's catalog price is \$13.50 each.
CTP*RS*ICL*20.00*100*EA N/L	The resale unit price is \$20.00 each from 1 to 100 units.
CTP*RS*ICL*19.50*500*EA N/L	The resale unit price is \$19.50 each from 1 to 500 units. This price assumes a minimum order of 101 units for the price break. Orders for less than 101 units will pay the higher price of \$20.00 stated in the CTP above.
CTP*RS*PBQ*19.00*501*EA N/L	The resale unit price is \$19.00 for quantities beginning at 501.
DETAIL – Line Item 2	
LIN**VP*AM49RC5A N/L	The item is identified by the Vendor Part AM49RC5A.
DTM*007*910716 N/L	The effective date is July 16, 1991
CTB*OR**57*10 N/L	The minimum order quantity is 10.
CTB*OR**69*50 N/L	The incremental order quantity is 50.
CTP*DI*CAT*10.95**EA N/L	The distributor's catalog price is \$10.95 each.
CTP*RS*ICL*16.00*99*EA N/L	The resale unit price is \$16.00 each from 1 to 99 units.
CTP*RS*ICL*15.50*499*EA N/L	The resale unit price is \$15.50 each from 1 to 499 units. This assumes a minimum order of 100 units for a price break.
CTP*RS*ICL*14.00*999*EA N/L	The resale unit price is \$14.00 each from 1 to 999 units. This assumes a minimum order of 500 units for a price break.
SUMMARY AREA:	
CTT*2 N/L	The number of LIN segments for this price catalog is 2.
SE*22*02044 N/L	The number of segments for this transaction is 22. The transaction set control number is 02044.

832 Example 3 – Manufacturer to All Distributors

This is a sample of a purchase quote to solicit prices for selective parts. The response 843 transaction is expected to return a single price per PO1 segment. Delivery dates are not included in purchase agreement quotes.

HEADING AREA:	
ST*832*02044 N/L	The transaction set ID is 832. The transaction set control number is 02044.
BCT*PC*81812*****00 N/L	The catalog purpose code is a Price Catalog, catalog number 81812, an original.
DTM*007*910312 N/L	This entire Price Catalog is effective on March 12, 1991 (if selective line items have new effective dates, there may be DTM segments in the detail area).
NI*MF**91*12345 N/L	This is a price catalog from manufacturer with seller assigned code of 12345.
DETAIL – Line Item 1	
LIN**VP*1L49CS5A N/L	The item is identified by the Vendor Part IL49CS5A.
DTM*007*910616 N/L	The effective date is June 16, 1991.
CTB*OR**57*100 N/L	The minimum order quantity is 100.
CTB*OR**69*100 N/L	The incremental order quantity is 100.
CTP*DI*CAT*13.50**EA N/L	The distributor's catalog price is \$13.50 each.
CTP*RS*PBQ*19.00*100*EA N/L	The resale unit price is \$19.00 for quantities beginning at 1.
CTP*RS*PBQ*18.00*500*EA N/L	The resale unit price is \$18.00 for quantities beginning at 500.
CTP*RS*PBQ*17.00*1000	The resale unit price is \$17.00 for quantities beginning at 1000.
DETAIL – Line Item 2	
LIN**VP*AM49RC5A N/L	The item is identified by the Vendor Part AM49RC5A.
DTM*007*910716 N/L	The effective date is July 16, 1991
CTB*OR**57*500 N/L	The minimum order quantity is 500.
CTB*OR**69*1000 N/L	The incremental order quantity is 1000.
CTP*DI*CAT*10.95**EA N/L	The distributor's catalog price is \$10.95 each.
CTP*RS*PBQ*20.00*1*EA N/L	The resale unit price is \$20.00 for quantities beginning at 1.
CTP*RS*PBQ*15.00*500*EA N/L	The resale unit price is \$15.00 for quantities beginning at 500.
CTP*RS*PBQ*10.00*1000	The resale unit price is \$10.00 for quantities beginning at 1000.
SUMMARY AREA:	
CTT*2 N/L	The number of LIN segments for this price catalog is 2.
SE*22*02044 N/L	The number of segments for this transaction is 22. The transaction set control number is 02044.

832 Example 4 – Manufacturer Selective Updates

This is an example of a manufacturer providing selective price changes to all distributors. It also illustrates replacement and obsolete parts.

HEADING AREA:	
ST*832*02044 N/L	The transaction set ID is 832. The transaction set control number is 02044.
BCT*PC*81812*****00 N/L	The catalog purpose code is a Price Catalog, catalog number 81812, an original.
DTM*007*910312 N/L	This entire Price Catalog is effective on March 12, 1991 (if selective line items have new effective dates, there may be DTM segments in the detail area).
NI*MF**91*12345 N/L	This is a price catalog from manufacturer with seller assigned code of 12345.
DETAIL – Line Item 1	
L1N**VP*1L49CS5A N/L	The item is identified by the Vendor Part IL49CS5A.
DTM*007*910616 N/L	The effective date is June 16, 1991.
CTB*OR**57*50 N/L	The minimum order quantity is 50.
CTB*OR**69*10 N/L	The incremental order quantity is 10.
CTP*DI*CAT*13.50**EA N/L	The distributor's catalog price is \$13.50 each.
CTP*RS*ICL*20.00*100*EA N/L	The resale unit price is \$20.00 each from 1 to 100 units.
CTP*RS*ICL*19.50*500*EA N/L	The resale unit price is \$19.50 each from 1 to 500 units. This price assumes a minimum order of 101 units for the price break. Orders for less than 101 units will pay the higher price of \$20.00 stated in the CTP above.
CTP*RS*PBQ*19.00*501*EA N/L	The resale unit price is \$19.00 for quantities beginning at 501.
DETAIL – Line Item 2	
LIN**VP*AM49RC5A N/L	The item is identified by the Vendor Part AM49RC5A.
DTM*007*910716 N/L	The effective date is July 16, 1991
CTB*OR**57*500 N/L	The minimum order quantity is 500.
CTB*OR**69*100 N/L	The incremental order quantity is 100.
CTP*DI*CAT*10.95**EA N/L	The distributor's catalog price is \$10.95 each.
CTP*RS*ICL*16.00*99*EA N/L	The resale unit price is \$16.00 each from 1 to 99 units. This assumes a minimum order of 100 units for a price break.
CTP*RS*ICL*15.50*499*EA N/L	The resale unit price is \$15.50 each from 1 to 499 units. This assumes a minimum order of 500 units for a price break.
CTP*RS*ICL*14.00*999*EA N/L	The resale unit price is \$14.00 each from 1 to 999 units.
DETAIL – Line Item 3	
LIN**VP*BL23RC6Y*OP*BL23RC6Y N/L	The item is identified by the Vendor Part BL23RC6Y, it is obsolete.
DTM*007*910730 N/L	The effective date is July 30, 1991
SUMMARY AREA:	
CTT*3 N/L	The number of LIN segments for this price catalog is 3.
SE*24*02044 N/L	The number of segments for this transaction is 24. The transaction set control number is 02044.

DETAIL - Line Item 2	
PO1*02*20000*EA***BP*IC1289*E C*R*VP*AM8712.	PO1 = BASELINE ITEM DATA Assigned Identification (Line Item Number): 02 Quantity Ordered: 20000 Unit or Basis for Measurement Code: EA (Each) Product or Service ID Qualifier: BP (Buyer's Part Number) Buyer's Part Number: IC1289 Product or Service ID Qualifier: EC (Engineering Change Level) Engineering Change Level: R Product or Service ID Qualifier: VP (Vendor's (Seller's) Part Number) Vendor's Part Number: AM8712
DETAIL - Line Item 3	
PO1*03*40000*EA***BP*IC8765*E C*A*VP*AM8799.	PO1 = BASELINE ITEM DATA Assigned Identification (Line Item Number): 04 Quantity Ordered: 40000 Unit or Basis for Measurement Code: EA (Each) Product or Service ID Qualifier: BP (Buyer's Part Number) Buyer's Part Number: IC8765 Product or Service ID Qualifier: EC (Engineering Change Level) Engineering Change Level: A Product or Service ID Qualifier: VP (Vendor's (Seller's) Part Number) Vendor's Part Number: AM8799
SUMMARY AREA:	
CTT*3.	CTT = TRANSACTION TOTALS Number of Line Items: 3
SE*11*00001.	SE = TRANSACTION SET TRAILER Number of Included Segments : 11 (ST through SE, inclusive) Transaction Set Control Number: 00001