

846 Inventory Inquiry/Advice

X12/V3040/846

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846 Inventory Inquiry/Advice

Functional Group=IB

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1			Must use
040	CUR	Currency	O	1			Used
050	DTM	Date/Time Reference	O	10			Used
060	REF	Reference Numbers	O	12			Used
070	PER	Administrative Communications Contact	O	3			Used
075	MEA	Measurements	O	20			Used
LOOP ID - N1					5		
080	N1	Name	O	1			Used
090	N2	Additional Name Information	O	2			Used
100	N3	Address Information	O	2			Used
110	N4	Geographic Location	O	1			Used
120	REF	Reference Numbers	O	12			Used
130	PER	Administrative Communications Contact	O	3			Used
LOOP ID - LM					10		
140	LM	Code Source Information	O	1			Used
150	LQ	Industry Code	M	100			Must use

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - LIN					10000		
010	LIN	Item Identification	M	1			Must use
030	PID	Product/Item Description	O	200			Used
040	MEA	Measurements	O	40			Used
050	PKG	Marking, Packaging, Loading	O	25			Used
100	DTM	Date/Time Reference	O	10			Used
110	CTP	Pricing Information	O	25			Used
120	CUR	Currency	O	1			Used
130	SSS	Special Services	O	25			Used
140	REF	Reference Numbers	O	>1			Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
150	PER	Administrative Communications Contact	O	3			Used
220	SDQ	Destination Quantity	O	500			Used
230	MAN	Marks and Numbers	O	1			Used
235	UIT	Unit Detail	O	5			Used
240	CS	Contract Summary	O	1			Used
250	DD	Demand Detail	O	1			Used
255	G53	Maintenance Type	O	1			Used
<u>LOOP ID - LM</u>					<u>10</u>		
260	LM	Code Source Information	O	1			Used
270	LQ	Industry Code	M	100			Must use
<u>LOOP ID - SLN</u>					<u>1000</u>		
280	SLN	Subline Item Detail	O	1			Used
290	PID	Product/Item Description	O	200			Used
300	MEA	Measurements	O	40			Used
310	PKG	Marking, Packaging, Loading	O	25			Used
<u>LOOP ID - MAN</u>					<u>100</u>		
312	MAN	Marks and Numbers	O	1			Used
314	MEA	Measurements	O	40			Used
<u>LOOP ID - QTY</u>					<u>99</u>		
320	QTY	Quantity	O	1			Used
330	UIT	Unit Detail	O	12			Used
340	MEA	Measurements	O	25			Used
350	LDT	Lead Time	O	12			Used
<u>LOOP ID - SCH</u>					<u>25</u>		
360	SCH	Line Item Schedule	O	1			Used
370	MEA	Measurements	O	25			Used
<u>LOOP ID - LS</u>					<u>1</u>		
380	LS	Loop Header	O	1			Used
<u>LOOP ID - REF</u>					<u>>1</u>		<u>N2/390L</u>
390	REF	Reference Numbers	O	1			Used
400	DTM	Date/Time Reference	O	>1			Used
410	N1	Name	O	1			Used
<u>LOOP ID - LM</u>					<u>10</u>		
420	LM	Code Source Information	O	1			Used
430	LQ	Industry Code	M	100			Must use
440	LE	Loop Trailer	M	1			Used
<u>LOOP ID - N1</u>					<u>200</u>		
450	N1	Name	O	1			Used
460	N2	Additional Name Information	O	2			Used
470	N3	Address Information	O	2			Used
480	N4	Geographic Location	O	1			Used
490	REF	Reference Numbers	O	12			Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
500	PER	Administrative Communications Contact	O	3			Used

Summary:

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

Notes:

- 2/390L The REF loop conveys serial number, lot number, and inventory data.
- 3/010 Number of line items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (QTY02) of each QTY segment.

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
		Description: Code uniquely identifying a Transaction Set. All valid standard codes are used. (Total Codes: 236)				
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

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).

BIA Beginning Segment for Inventory Inquiry/Advice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

User Option (Usage): Must use

Purpose: To indicate the beginning of an inventory inquiry/advice transaction set.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIA01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set. All valid standard codes are used. (Total Codes: 49)				
BIA02	755	Report Type Code	M	ID	2/2	Must use
		Description: Code indicating the title or contents of a document, report or supporting item All valid standard codes are used. (Total Codes: 258)				
BIA03	127	Reference Number	M	AN	1/30	Must use
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				
BIA04	373	Date	M	DT	6/6	Must use
		Description: Date (YYMMDD).				
BIA05	337	Time	O	TM	4/8	Used
		Description: 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)				
BIA06	306	Action Code	O	ID	1/2	Used
		Description: Code indicating type of action. All valid standard codes are used. (Total Codes: 65)				

Semantics:

1. BIA03 identifies the number of the inquiry/advice that is transferred.
2. BIA04 identifies the date of the inquiry/advice that is transferred.
3. BIA05 identifies the time of the inquiry/advice that is transferred.

CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 21

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	Entity Identifier Code	M	ID	2/2	Must use
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
CUR02	100	Currency Code	M	ID	3/3	Must use
		Description: Code (Standard ISO) for country in whose currency the charges are specified.				
CUR03	280	Exchange Rate	O	R	4/6	Used
		Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.				
CUR04	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
CUR05	100	Currency Code	O	ID	3/3	Used
		Description: Code (Standard ISO) for country in whose currency the charges are specified.				
CUR06	669	Currency Market/Exchange Code	O	ID	3/3	Used
		Description: Code identifying the market upon which the currency exchange rate is based. All valid standard codes are used. (Total Codes: 6)				
CUR07	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR08	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR09	337	Time	O	TM	4/8	Used
		Description: 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)				
CUR10	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR11	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR12	337	Time	O	TM	4/8	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: 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)				
CUR13	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR14	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR15	337	Time	O	TM	4/8	Used
		Description: 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)				
CUR16	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR17	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR18	337	Time	O	TM	4/8	Used
		Description: 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)				
CUR19	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR20	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR21	337	Time	O	TM	4/8	Used
		Description: 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)				

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. C1110 - If CUR11 is present, then CUR10 is required.
4. C1210 - If CUR12 is present, then CUR10 is required.
5. C1413 - If CUR14 is present, then CUR13 is required.
6. C1513 - If CUR15 is present, then CUR13 is required.

7. C1716 - If CUR17 is present, then CUR16 is required.
8. C1816 - If CUR18 is present, then CUR16 is required.
9. C2019 - If CUR20 is present, then CUR19 is required.
10. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

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

DTM Date/Time Reference

Pos: 050	Max: 10
Heading - Optional	
Loop: N/A	Elements: 7

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
DTM02	373	Date	X	DT	6/6	Used
		Description: Date (YYMMDD).				
DTM03	337	Time	X	TM	4/8	Used
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
DTM04	623	Time Code	O	ID	2/2	Used
		Description: 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. All valid standard codes are used. (Total Codes: 39)				
DTM05	624	Century	O	N0	2/2	Used
		Description: The first two characters in the designation of the year (CCYY).				
DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3	Used
		Description: Code indicating the date format, time format, or date and time format. All valid standard codes are used. (Total Codes: 22)				
DTM07	1251	Date Time Period	X	AN	1/35	Used
		Description: Expression of a date, a time, or range of dates, times or dates and times.				

Syntax Rules:

1. R020306 - At least one of DTM02, DTM03 or DTM06 is required.
2. P0607 - If either DTM06 or DTM07 is present, then the other is required.

REF Reference Numbers

Pos: 060	Max: 12
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

All valid standard codes are used. (Total Codes: 859)

REF02	127	Reference Number	X	AN	1/30	Used
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Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

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

Syntax Rules:

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

PER Administrative Communications Contact

Pos: 070	Max: 3
Heading - Optional	
Loop: N/A	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major duty or responsibility of the person or group named.				
		All valid standard codes are used. (Total Codes: 154)				
PER02	93	Name	O	AN	1/35	Used
		Description: Free-form name.				
PER03	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER04	364	Communication Number	X	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable.				
PER05	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER06	364	Communication Number	X	AN	1/80	Used
		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.

MEA Measurements

Pos: 075	Max: 20
Heading - Optional	
Loop: N/A	Elements: 10

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
Description: Code identifying the broad category to which a measurement applies All valid standard codes are used. (Total Codes: 80)						
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
Description: Code identifying a specific product or process characteristic to which a measurement applies All valid standard codes are used. (Total Codes: 720)						
MEA03	739	Measurement Value	X	R	1/10	Used
Description: The value of the measurement.						
MEA04	C001	Composite Unit of Measure	X	Comp		Used
Description: To identify a composite unit of measure(See Figures Appendix for examples of use.)						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-02	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-03	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-04	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-05	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-06	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-07	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-08	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-09	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-10	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-11	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-12	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-13	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-14	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-15	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA05	740	Range Minimum	X	R	1/10	Used
		Description: The value specifying the minimum of the measurement range.				
MEA06	741	Range Maximum	X	R	1/10	Used
		Description: The value specifying the maximum of the measurement range.				
MEA07	935	Measurement Significance Code	O	ID	2/2	Used
		Description: Code used to benchmark, qualify or further define a measurement value. All valid standard codes are used. (Total Codes: 38)				
MEA08	936	Measurement Attribute Code	X	ID	2/2	Used
		Description: Code used to express an attribute response when a numeric measurement value cannot be determined. All valid standard codes are used. (Total Codes: 40)				
MEA09	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
MEA10	1373	Measurement Method or Device	X	ID	2/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: The method or device used to record the measurement						
All valid standard codes are used. (Total Codes: 7)						

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0304 - If MEA03 is present, then MEA04 is required.
3. C0504 - If MEA05 is present, then MEA04 is required.
4. C0604 - If MEA06 is present, then MEA04 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Loop Name

Pos: 080	Repeat: 5
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
080	N1	Name	O	1		Used
090	N2	Additional Name Information	O	2		Used
100	N3	Address Information	O	2		Used
110	N4	Geographic Location	O	1		Used
120	REF	Reference Numbers	O	12		Used
130	PER	Administrative Communications Contact	O	3		Used

N1 Name

Pos: 080	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/2	Must use
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
N102	93	Name	X	AN	1/35	Used
		Description: Free-form name.				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67). All valid standard codes are used. (Total Codes: 138)				
N104	67	Identification Code	X	AN	2/17	Used
		Description: Code identifying a party or other code.				
N105	706	Entity Relationship Code	O	ID	2/2	Used
		Description: Code describing entity relationship. All valid standard codes are used. (Total Codes: 31)				
N106	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				

Syntax Rules:

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

Comments:

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

N2 Additional Name Information

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name	M	AN	1/35	Must use
		Description: Free-form name.				
N202	93	Name	O	AN	1/35	Used
		Description: Free-form name.				

N3 Address Information

Pos: 100	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/35	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/35	Used
		Description: Address information				

N4 Geographic Location

Pos: 110	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name.				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency.				
N403	116	Postal Code	O	ID	3/9	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States).				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country.				
N405	309	Location Qualifier	X	ID	1/2	Used
		Description: Code identifying type of location.				
		All valid standard codes are used. (Total Codes: 83)				
N406	310	Location Identifier	O	AN	1/30	Used
		Description: Code which identifies a specific location.				

Syntax Rules:

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

Comments:

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

REF Reference Numbers

Pos: 120	Max: 12
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

All valid standard codes are used. (Total Codes: 859)

REF02	127	Reference Number	X	AN	1/30	Used
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Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

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

Syntax Rules:

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

PER Administrative Communications Contact

Pos: 130	Max: 3
Heading - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major duty or responsibility of the person or group named.				
		All valid standard codes are used. (Total Codes: 154)				
PER02	93	Name	O	AN	1/35	Used
		Description: Free-form name.				
PER03	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER04	364	Communication Number	X	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable.				
PER05	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER06	364	Communication Number	X	AN	1/80	Used
		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.

Loop Code Source Information

Pos: 140	Repeat: 10
Optional	
Loop: LM	Elements: N/A

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
140	LM	Code Source Information	O	1		Used
150	LQ	Industry Code	M	100		Must use

LM Code Source Information

Pos: 140	Max: 1
Heading - Optional	
Loop: LM	Elements: 2

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LM01	559	Agency Qualifier Code	M	ID	2/2	Must use

Description: Code identifying the agency assigning the code values.

All valid standard codes are used. (Total Codes: 80)

LM02	822	Source Subqualifier	O	AN	1/15	Used
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Description: A reference that indicates the table or text maintained by the Source Qualifier.

Comments:

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

LQ Industry Code

Pos: 150	Max: 100
Heading - Mandatory	
Loop: LM	Elements: 2

User Option (Usage): Must use

Purpose: Code to transmit standard industry codes

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LQ01	1270	Code List Qualifier Code	O	ID	1/3	Used
Description: Code identifying a specific industry code list						
All valid standard codes are used. (Total Codes: 183)						
LQ02	1271	Industry Code	X	AN	1/20	Used
Description: Code indicating a code from a specific industry code list						

Syntax Rules:

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

Loop Item Identification

Pos: 010	Repeat: 10000
Mandatory	
Loop: LIN	Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic item identification data.

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	LIN	Item Identification	M	1		Must use
030	PID	Product/Item Description	O	200		Used
040	MEA	Measurements	O	40		Used
050	PKG	Marking, Packaging, Loading	O	25		Used
100	DTM	Date/Time Reference	O	10		Used
110	CTP	Pricing Information	O	25		Used
120	CUR	Currency	O	1		Used
130	SSS	Special Services	O	25		Used
140	REF	Reference Numbers	O	>1		Used
150	PER	Administrative Communications Contact	O	3		Used
220	SDQ	Destination Quantity	O	500		Used
230	MAN	Marks and Numbers	O	1		Used
235	UIT	Unit Detail	O	5		Used
240	CS	Contract Summary	O	1		Used
250	DD	Demand Detail	O	1		Used
255	G53	Maintenance Type	O	1		Used
260		Loop LM	O		10	Used
280		Loop SLN	O		1000	Used
320		Loop QTY	O		99	Used
450		Loop N1	O		200	Used

LIN Item Identification

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 31

User Option (Usage): Must use

Purpose: To specify basic item identification data.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification	O	AN	1/11	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN03	234	Product/Service ID	M	AN	1/30	Must use
		Description: Identifying number for a product or service.				
LIN04	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN05	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN06	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN07	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN08	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN09	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN10	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN11	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN12	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN13	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN14	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN15	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN16	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN17	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN18	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN19	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN20	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN21	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN22	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN23	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN24	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		All valid standard codes are used. (Total Codes: 307)				
LIN25	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN26	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN27	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN28	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN29	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN30	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN31	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				

Syntax Rules:

1. C0405 - If LIN04 is present, then LIN05 is required.
2. C0607 - If LIN06 is present, then LIN07 is required.
3. C0809 - If LIN08 is present, then LIN09 is required.
4. C1011 - If LIN10 is present, then LIN11 is required.
5. C1213 - If LIN12 is present, then LIN13 is required.
6. C1415 - If LIN14 is present, then LIN15 is required.
7. C1617 - If LIN16 is present, then LIN17 is required.
8. C1819 - If LIN18 is present, then LIN19 is required.
9. C2021 - If LIN20 is present, then LIN21 is required.
10. C2223 - If LIN22 is present, then LIN23 is required.
11. C2425 - If LIN24 is present, then LIN25 is required.
12. C2627 - If LIN26 is present, then LIN27 is required.
13. C2829 - If LIN28 is present, then LIN29 is required.
14. C3031 - If LIN30 is present, then LIN31 is required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of ID's.
2. LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

PID Product/Item Description

Pos: 030	Max: 200
Detail - Optional	
Loop: LIN	Elements: 8

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use
		Description: Code indicating the format of a description. All valid standard codes are used. (Total Codes: 3)				
PID02	750	Product/Process Characteristic Code	O	ID	2/3	Used
		Description: Code identifying the general class of a product or process characteristic All valid standard codes are used. (Total Codes: 173)				
PID03	559	Agency Qualifier Code	X	ID	2/2	Used
		Description: Code identifying the agency assigning the code values. All valid standard codes are used. (Total Codes: 80)				
PID04	751	Product Description Code	X	AN	1/12	Used
		Description: A code from an industry code list which provides specific data about a product characteristic.				
PID05	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PID06	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
PID07	822	Source Subqualifier	O	AN	1/15	Used
		Description: A reference that indicates the table or text maintained by the Source Qualifier.				
PID08	1073	Yes/No Condition or Response Code	O	ID	1/1	Used
		Description: Code indicating a Yes or No condition or response. All valid standard codes are used. (Total Codes: 3)				

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. C0803 - If PID08 is present, then PID03 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. A ``N" indicates it does not apply. Any other value is indeterminate.

Comments:

1. If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``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.

MEA Measurements

Pos: 040	Max: 40
Detail - Optional	
Loop: LIN	Elements: 10

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
Description: Code identifying the broad category to which a measurement applies All valid standard codes are used. (Total Codes: 80)						
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
Description: Code identifying a specific product or process characteristic to which a measurement applies All valid standard codes are used. (Total Codes: 720)						
MEA03	739	Measurement Value	X	R	1/10	Used
Description: The value of the measurement.						
MEA04	C001	Composite Unit of Measure	X	Comp		Used
Description: To identify a composite unit of measure(See Figures Appendix for examples of use.)						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-02	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-03	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-04	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-05	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-06	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-07	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-08	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-09	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-10	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-11	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-12	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-13	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-14	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-15	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA05	740	Range Minimum	X	R	1/10	Used
		Description: The value specifying the minimum of the measurement range.				
MEA06	741	Range Maximum	X	R	1/10	Used
		Description: The value specifying the maximum of the measurement range.				
MEA07	935	Measurement Significance Code	O	ID	2/2	Used
		Description: Code used to benchmark, qualify or further define a measurement value. All valid standard codes are used. (Total Codes: 38)				
MEA08	936	Measurement Attribute Code	X	ID	2/2	Used
		Description: Code used to express an attribute response when a numeric measurement value cannot be determined. All valid standard codes are used. (Total Codes: 40)				
MEA09	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
MEA10	1373	Measurement Method or Device	X	ID	2/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: The method or device used to record the measurement						
All valid standard codes are used. (Total Codes: 7)						

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0304 - If MEA03 is present, then MEA04 is required.
3. C0504 - If MEA05 is present, then MEA04 is required.
4. C0604 - If MEA06 is present, then MEA04 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

PKG Marking, Packaging, Loading

Pos: 050	Max: 25
Detail - Optional	
Loop: LIN	Elements: 6

User Option (Usage): Used

Purpose: To describe marking, packaging, loading and unloading requirements.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PKG01	349	Item Description Type	X	ID	1/1	Used
		Description: Code indicating the format of a description. All valid standard codes are used. (Total Codes: 3)				
PKG02	753	Packaging Characteristic Code	O	ID	1/5	Used
		Description: Code specifying the marking, packaging, loading and related characteristics being described. All valid standard codes are used. (Total Codes: 22)				
PKG03	559	Agency Qualifier Code	X	ID	2/2	Used
		Description: Code identifying the agency assigning the code values. All valid standard codes are used. (Total Codes: 80)				
PKG04	754	Packaging Description Code	X	AN	1/7	Used
		Description: A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product.				
PKG05	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PKG06	400	Unit Load Option Code	O	ID	2/2	Used
		Description: Code identifying loading or unloading a shipment All valid standard codes are used. (Total Codes: 6)				

Syntax Rules:

1. R040506 - At least one of PKG04, PKG05 or PKG06 is required.
2. C0401 - If PKG04 is present, then PKG01 is required.
3. C0501 - If PKG05 is present, then PKG01 is required.

Semantics:

1. PKG04 should be used for industry-specific packaging description codes.

Comments:

1. Use MEA (Measurements) segment to define dimensions, tolerances weights, counts, physical restrictions, etc.
2. If PKG01 = ``F'', then PKG05 is used. If PKG01 = ``S'', then PKG04 is used. If PKG01 = ``X'', then both PKG04 and PKG05 are used.
3. Use PKG03 to indicate the organization that publishes the code list being referred to.
4. Special marking or tagging data can be given in PKG05 (Description).

DTM Date/Time Reference

Pos: 100	Max: 10
Detail - Optional	
Loop: LIN	Elements: 7

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
DTM02	373	Date	X	DT	6/6	Used
		Description: Date (YYMMDD).				
DTM03	337	Time	X	TM	4/8	Used
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
DTM04	623	Time Code	O	ID	2/2	Used
		Description: 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. All valid standard codes are used. (Total Codes: 39)				
DTM05	624	Century	O	N0	2/2	Used
		Description: The first two characters in the designation of the year (CCYY).				
DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3	Used
		Description: Code indicating the date format, time format, or date and time format. All valid standard codes are used. (Total Codes: 22)				
DTM07	1251	Date Time Period	X	AN	1/35	Used
		Description: Expression of a date, a time, or range of dates, times or dates and times.				

Syntax Rules:

1. R020306 - At least one of DTM02, DTM03 or DTM06 is required.
2. P0607 - If either DTM06 or DTM07 is present, then the other is required.

CTP Pricing Information

Pos: 110	Max: 25
Detail - Optional	
Loop: LIN	Elements: 9

User Option (Usage): Used

Purpose: To specify pricing information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTP01	687	Class of Trade Code	O	ID	2/2	Used
		Description: Code indicating class of trade. All valid standard codes are used. (Total Codes: 36)				
CTP02	236	Price Identifier Code	X	ID	3/3	Used
		Description: Code identifying pricing specification. All valid standard codes are used. (Total Codes: 135)				
CTP03	212	Unit Price	O	R	1/14	Used
		Description: Price per unit of product, service, commodity, etc.				
CTP04	380	Quantity	O	R	1/15	Used
		Description: Numeric value of quantity.				
CTP05	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
CTP06	648	Price Multiplier Qualifier	O	ID	3/3	Used
		Description: Code indicating the type of price multiplier. All valid standard codes are used. (Total Codes: 6)				
CTP07	649	Multiplier	X	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
CTP08	782	Monetary Amount	O	R	1/15	Used
		Description: Monetary amount.				
CTP09	639	Basis of Unit Price Code	O	ID	2/2	Used
		Description: Code identifying the type of unit price for an item. All valid standard codes are used. (Total Codes: 81)				

Syntax Rules:

1. C0405 - If CTP04 is present, then CTP05 is required.
2. C0607 - If CTP06 is present, then CTP07 is required.
3. C0902 - If CTP09 is present, then CTP02 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.

CUR Currency

Pos: 120	Max: 1
Detail - Optional	
Loop: LIN	Elements: 21

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	Entity Identifier Code	M	ID	2/2	Must use
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
CUR02	100	Currency Code	M	ID	3/3	Must use
		Description: Code (Standard ISO) for country in whose currency the charges are specified.				
CUR03	280	Exchange Rate	O	R	4/6	Used
		Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.				
CUR04	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
CUR05	100	Currency Code	O	ID	3/3	Used
		Description: Code (Standard ISO) for country in whose currency the charges are specified.				
CUR06	669	Currency Market/Exchange Code	O	ID	3/3	Used
		Description: Code identifying the market upon which the currency exchange rate is based. All valid standard codes are used. (Total Codes: 6)				
CUR07	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR08	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR09	337	Time	O	TM	4/8	Used
		Description: 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)				
CUR10	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR11	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR12	337	Time	O	TM	4/8	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: 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)				
CUR13	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR14	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR15	337	Time	O	TM	4/8	Used
		Description: 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)				
CUR16	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR17	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR18	337	Time	O	TM	4/8	Used
		Description: 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)				
CUR19	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR20	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR21	337	Time	O	TM	4/8	Used
		Description: 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)				

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. C1110 - If CUR11 is present, then CUR10 is required.
4. C1210 - If CUR12 is present, then CUR10 is required.
5. C1413 - If CUR14 is present, then CUR13 is required.
6. C1513 - If CUR15 is present, then CUR13 is required.

7. C1716 - If CUR17 is present, then CUR16 is required.
8. C1816 - If CUR18 is present, then CUR16 is required.
9. C2019 - If CUR20 is present, then CUR19 is required.
10. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

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

SSS Special Services

Pos: 130	Max: 25
Detail - Optional	
Loop: LIN	Elements: 9

User Option (Usage): Used

Purpose: To specify special conditions or services associated with the purchased product

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SSS01	248	Allowance or Charge Indicator	M	ID	1/1	Must use
		Description: Code which indicates an allowance or charge for the service specified. All valid standard codes are used. (Total Codes: 4)				
SSS02	559	Agency Qualifier Code	M	ID	2/2	Must use
		Description: Code identifying the agency assigning the code values. All valid standard codes are used. (Total Codes: 80)				
SSS03	560	Special Services Code	M	ID	2/10	Must use
		Description: Code identifying the special service. All valid standard codes are used. (Total Codes: 151)				
SSS04	561	Service Marks and Numbers	O	AN	1/45	Used
		Description: Data used to identify the performance of the service specified by Special Services Code (560).				
SSS05	359	Allowance or Charge Rate	O	R	1/9	Used
		Description: Allowance or Charge Rate per Unit.				
SSS06	360	Allowance or Charge Total Amount	O	N2	1/9	Used
		Description: Total dollar amount for the allowance or charge.				
SSS07	352	Description	O	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
SSS08	380	Quantity	O	R	1/15	Used
		Description: Numeric value of quantity.				
SSS09	822	Source Subqualifier	O	AN	1/15	Used
		Description: A reference that indicates the table or text maintained by the Source Qualifier.				

Comments:

1. SSS02 identifies the source of the code value in SSS03.
2. SSS07 (Description) is normally used to clarify/expand on the services to be provided.
3. SSS09 specifies the individual code list of the agency specified in SSS02.

REF Reference Numbers

Pos: 140	Max: >1
Detail - Optional	
Loop: LIN	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

All valid standard codes are used. (Total Codes: 859)

REF02	127	Reference Number	X	AN	1/30	Used
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Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

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

Syntax Rules:

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

PER Administrative Communications Contact

Pos: 150	Max: 3
Detail - Optional	
Loop: LIN	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major duty or responsibility of the person or group named.				
		All valid standard codes are used. (Total Codes: 154)				
PER02	93	Name	O	AN	1/35	Used
		Description: Free-form name.				
PER03	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER04	364	Communication Number	X	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable.				
PER05	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER06	364	Communication Number	X	AN	1/80	Used
		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.

SDQ Destination Quantity

Pos: 220	Max: 500
Detail - Optional	
Loop: LIN	Elements: 23

User Option (Usage): Used

Purpose: To specify destination and quantity detail.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SDQ01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
SDQ02	66	Identification Code Qualifier	O	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67). All valid standard codes are used. (Total Codes: 138)				
SDQ03	67	Identification Code	M	AN	2/17	Must use
		Description: Code identifying a party or other code.				
SDQ04	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity.				
SDQ05	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ06	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ07	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ08	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ09	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ10	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ11	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ12	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ13	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SDQ14	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ15	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ16	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ17	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ18	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ19	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ20	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ21	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ22	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ23	310	Location Identifier	O	AN	1/30	Used
		Description: Code which identifies a specific location.				

Syntax Rules:

1. C0506 - If SDQ05 is present, then SDQ06 is required.
2. C0708 - If SDQ07 is present, then SDQ08 is required.
3. C0910 - If SDQ09 is present, then SDQ10 is required.
4. C1112 - If SDQ11 is present, then SDQ12 is required.
5. C1314 - If SDQ13 is present, then SDQ14 is required.
6. C1516 - If SDQ15 is present, then SDQ16 is required.
7. C1718 - If SDQ17 is present, then SDQ18 is required.
8. C1920 - If SDQ19 is present, then SDQ20 is required.
9. C2122 - If SDQ21 is present, then SDQ22 is required.

Semantics:

1. SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.

Comments:

1. SDQ02 is used only if different than previously defined in the transaction set.
2. SDQ23 may be used to identify areas within a store, e.g. front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.

MAN Marks and Numbers

Pos: 230	Max: 1
Detail - Optional	
Loop: LIN	Elements: 6

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use
		Description: Code specifying the application or source of Marks and Numbers (87). All valid standard codes are used. (Total Codes: 16)				
MAN02	87	Marks and Numbers	M	AN	1/45	Must use
		Description: Marks and numbers used to identify a shipment or parts of a shipment.				
MAN03	87	Marks and Numbers	O	AN	1/45	Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment.				
MAN04	88	Marks and Numbers Qualifier	O	ID	1/2	Used
		Description: Code specifying the application or source of Marks and Numbers (87). All valid standard codes are used. (Total Codes: 16)				
MAN05	87	Marks and Numbers	O	AN	1/45	Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment.				
MAN06	87	Marks and Numbers	O	AN	1/45	Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment.				

Semantics:

1. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
2. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

UIT Unit Detail

Pos: 235	Max: 5
Detail - Optional	
Loop: LIN	Elements: 3

User Option (Usage): Used

Purpose: To specify item unit data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
UIT01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use

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

All valid standard codes are used. (Total Codes: 719)

UIT02	212	Unit Price	X	R	1/14	Used
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Description: Price per unit of product, service, commodity, etc.

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

All valid standard codes are used. (Total Codes: 81)

Syntax Rules:

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

CS Contract Summary

Pos: 240	Max: 1
Detail - Optional	
Loop: LIN	Elements: 18

User Option (Usage): Used

Purpose: To provide information about a contract

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CS01	367	Contract Number	O	AN	1/30	Used
		Description: Contract number.				
CS02	327	Change Order Sequence Number	O	AN	1/8	Used
		Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set.				
CS03	328	Release Number	O	AN	1/30	Used
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.				
CS04	128	Reference Number Qualifier	X	ID	2/2	Used
		Description: Code qualifying the Reference Number. All valid standard codes are used. (Total Codes: 859)				
CS05	127	Reference Number	X	AN	1/30	Used
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				
CS06	324	Purchase Order Number	O	AN	1/22	Used
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser.				
CS07	560	Special Services Code	O	ID	2/10	Used
		Description: Code identifying the special service. All valid standard codes are used. (Total Codes: 151)				
CS08	433	F.O.B. Point Code	O	ID	2/2	Used
		Description: Code identifying type of F.O.B. point. All valid standard codes are used. (Total Codes: 4)				
CS09	954	Percent	O	R	1/10	Used
		Description: Percentage expressed as a decimal				
CS10	954	Percent	O	R	1/10	Used
		Description: Percentage expressed as a decimal				
CS11	782	Monetary Amount	O	R	1/15	Used
		Description: Monetary amount.				
CS12	336	Terms Type Code	O	ID	2/2	Used
		Description: Code identifying type of payment terms. All valid standard codes are used. (Total Codes: 28)				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CS13	560	Special Services Code	O	ID	2/10	Used
		Description: Code identifying the special service. All valid standard codes are used. (Total Codes: 151)				
CS14	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
CS15	212	Unit Price	O	R	1/14	Used
		Description: Price per unit of product, service, commodity, etc.				
CS16	336	Terms Type Code	O	ID	2/2	Used
		Description: Code identifying type of payment terms. All valid standard codes are used. (Total Codes: 28)				
CS17	1073	Yes/No Condition or Response Code	O	ID	1/1	Used
		Description: Code indicating a Yes or No condition or response. All valid standard codes are used. (Total Codes: 3)				
CS18	1073	Yes/No Condition or Response Code	O	ID	1/1	Used
		Description: Code indicating a Yes or No condition or response. All valid standard codes are used. (Total Codes: 3)				

Syntax Rules:

1. P0405 - If either CS04 or CS05 is present, then the other is required.

Semantics:

1. CS09 is the permissible overage as a percentage of the total contract line item number (CLIN) quantity.
2. CS10 is the permissible shortage as a percentage of the total contract line item number (CLIN) quantity.
3. CS11 is the permissible overage dollar value specified by the contract above which discrepancy action is taken.
4. CS14 is the Unit of Measure stipulated in the contract.
5. CS15 is the contract line item number (CLIN) unit price specified in the contract.
6. CS17 conveys the Critical Application Indicator. A ``Y" indicates that a Critical Application Indicator is specified in the contract. A ``N" indicates that no Critical Application Indicator is specified in the contract.
7. CS18 conveys the Special Requirements Indicator. A ``Y" indicates that a Special Requirements Indicator (requiring special testing and or evaluation) is specified in the contract. A ``N" indicates that no Special Requirements Indicator is specified in the contract.

Comments:

1. CS04 may be used to identify the Contract Line Item Number (CLIN) or Extended (or Exhibit) Line Item Number (ELIN).
2. CS07 and CS13 (DE 560) can be used to indicate two different types of special services required.

DD Demand Detail

Pos: 250	Max: 1
Detail - Optional	
Loop: LIN	Elements: 10

User Option (Usage): Used

Purpose: To describe the type of demand and the intended use of material

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DD01	1271	Industry Code	X	AN	1/20	Used
		Description: Code indicating a code from a specific industry code list				
DD02	1270	Code List Qualifier Code	O	ID	1/3	Used
		Description: Code identifying a specific industry code list All valid standard codes are used. (Total Codes: 183)				
DD03	128	Reference Number Qualifier	X	ID	2/2	Used
		Description: Code qualifying the Reference Number. All valid standard codes are used. (Total Codes: 859)				
DD04	127	Reference Number	X	AN	1/30	Used
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				
DD05	1271	Industry Code	X	AN	1/20	Used
		Description: Code indicating a code from a specific industry code list				
DD06	1270	Code List Qualifier Code	O	ID	1/3	Used
		Description: Code identifying a specific industry code list All valid standard codes are used. (Total Codes: 183)				
DD07	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
DD08	1073	Yes/No Condition or Response Code	O	ID	1/1	Used
		Description: Code indicating a Yes or No condition or response. All valid standard codes are used. (Total Codes: 3)				
DD09	1271	Industry Code	X	AN	1/20	Used
		Description: Code indicating a code from a specific industry code list				
DD10	1270	Code List Qualifier Code	O	ID	1/3	Used
		Description: Code identifying a specific industry code list All valid standard codes are used. (Total Codes: 183)				

Syntax Rules:

1. C0201 - If DD02 is present, then DD01 is required.
2. P03040507 - If either DD03, DD04, DD05 or DD07 are present, then the others are required.
3. C0605 - If DD06 is present, then DD05 is required.
4. C1009 - If DD10 is present, then DD09 is required.

Semantics:

1. DD08 transmits the stock level indicator. ``Y" indicates that the material is normally carried in stock. ``N" indicates that the material is not normally stocked

G53 Maintenance Type

Pos: 255	Max: 1
Detail - Optional	
Loop: LIN	Elements: 1

User Option (Usage): Used

Purpose: To identify the specific type of item maintenance.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
G5301	875	Maintenance Type Code	M	ID	3/3	Must use

Description: Code identifying the specific type of item maintenance.

All valid standard codes are used. (Total Codes: 41)

Loop Code Source Information

Pos: 260	Repeat: 10
Optional	
Loop: LM	Elements: N/A

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
260	LM	Code Source Information	O	1		Used
270	LQ	Industry Code	M	100		Must use

LM Code Source Information

Pos: 260	Max: 1
Detail - Optional	
Loop: LM	Elements: 2

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LM01	559	Agency Qualifier Code	M	ID	2/2	Must use

Description: Code identifying the agency assigning the code values.

All valid standard codes are used. (Total Codes: 80)

LM02	822	Source Subqualifier	O	AN	1/15	Used
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Description: A reference that indicates the table or text maintained by the Source Qualifier.

Comments:

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

LQ Industry Code

Pos: 270	Max: 100
Detail - Mandatory	
Loop: LM	Elements: 2

User Option (Usage): Must use

Purpose: Code to transmit standard industry codes

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LQ01	1270	Code List Qualifier Code	O	ID	1/3	Used
		Description: Code identifying a specific industry code list All valid standard codes are used. (Total Codes: 183)				
LQ02	1271	Industry Code	X	AN	1/20	Used
		Description: Code indicating a code from a specific industry code list				

Syntax Rules:

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

Loop Subline Item Detail

Pos: 280	Repeat: 1000
Optional	
Loop: SLN	Elements: N/A

User Option (Usage): Used

Purpose: To specify product subline detail item data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
280	SLN	Subline Item Detail	O	1		Used
290	PID	Product/Item Description	O	200		Used
300	MEA	Measurements	O	40		Used
310	PKG	Marking, Packaging, Loading	O	25		Used
312		Loop MAN	O		100	Used

SLN Subline Item Detail

Pos: 280	Max: 1
Detail - Optional	
Loop: SLN	Elements: 28

User Option (Usage): Used

Purpose: To specify product subline detail item data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification	M	AN	1/11	Must use
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
SLN02	350	Assigned Identification	O	AN	1/11	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
SLN03	661	Configuration Code	M	ID	1/1	Must use
		Description: Code indicating the relationship of the subline item to the baseline item.				
		All valid standard codes are used. (Total Codes: 4)				
SLN04	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity.				
SLN05	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		All valid standard codes are used. (Total Codes: 719)				
SLN06	212	Unit Price	X	R	1/14	Used
		Description: Price per unit of product, service, commodity, etc.				
SLN07	639	Basis of Unit Price Code	O	ID	2/2	Used
		Description: Code identifying the type of unit price for an item.				
		All valid standard codes are used. (Total Codes: 81)				
SLN08	662	Price Relationship Code	O	ID	1/1	Used
		Description: Code indicating the relationship of the price or amount to the associated segment.				
		All valid standard codes are used. (Total Codes: 4)				
SLN09	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN10	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN11	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN12	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN13	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN14	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN15	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN16	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN17	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN18	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN19	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN20	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN21	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN22	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN23	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN24	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN25	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN26	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN27	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN28	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				

Syntax Rules:

1. C0706 - If SLN07 is present, then SLN06 is required.
2. C0806 - If SLN08 is present, then SLN06 is required.
3. C0910 - If SLN09 is present, then SLN10 is required.
4. C1112 - If SLN11 is present, then SLN12 is required.
5. C1314 - If SLN13 is present, then SLN14 is required.
6. C1516 - If SLN15 is present, then SLN16 is required.
7. C1718 - If SLN17 is present, then SLN18 is required.
8. C1920 - If SLN19 is present, then SLN20 is required.
9. C2122 - If SLN21 is present, then SLN22 is required.
10. C2324 - If SLN23 is present, then SLN24 is required.
11. C2526 - If SLN25 is present, then SLN26 is required.
12. C2728 - If SLN27 is present, then SLN28 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.

Comments:

1. See the Data Dictionary for a complete list of ID's.
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 (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

PID Product/Item Description

Pos: 290	Max: 200
Detail - Optional	
Loop: SLN	Elements: 8

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use
		Description: Code indicating the format of a description. All valid standard codes are used. (Total Codes: 3)				
PID02	750	Product/Process Characteristic Code	O	ID	2/3	Used
		Description: Code identifying the general class of a product or process characteristic All valid standard codes are used. (Total Codes: 173)				
PID03	559	Agency Qualifier Code	X	ID	2/2	Used
		Description: Code identifying the agency assigning the code values. All valid standard codes are used. (Total Codes: 80)				
PID04	751	Product Description Code	X	AN	1/12	Used
		Description: A code from an industry code list which provides specific data about a product characteristic.				
PID05	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PID06	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
PID07	822	Source Subqualifier	O	AN	1/15	Used
		Description: A reference that indicates the table or text maintained by the Source Qualifier.				
PID08	1073	Yes/No Condition or Response Code	O	ID	1/1	Used
		Description: Code indicating a Yes or No condition or response. All valid standard codes are used. (Total Codes: 3)				

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. C0803 - If PID08 is present, then PID03 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. A ``N'' indicates it does not apply. Any other value is indeterminate.

Comments:

1. If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``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.

MEA Measurements

Pos: 300	Max: 40
Detail - Optional	
Loop: SLN	Elements: 10

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
<p>Description: Code identifying the broad category to which a measurement applies All valid standard codes are used. (Total Codes: 80)</p>						
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
<p>Description: Code identifying a specific product or process characteristic to which a measurement applies All valid standard codes are used. (Total Codes: 720)</p>						
MEA03	739	Measurement Value	X	R	1/10	Used
<p>Description: The value of the measurement.</p>						
MEA04	C001	Composite Unit of Measure	X	Comp		Used
<p>Description: To identify a composite unit of measure(See Figures Appendix for examples of use.)</p>						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
<p>Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)</p>						
MEA04-02	1018	Exponent	O	R	1/15	Used
<p>Description: Power to which a unit is raised.</p>						
MEA04-03	649	Multiplier	O	R	1/10	Used
<p>Description: Value to be used as a multiplier to obtain a new value</p>						
MEA04-04	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
<p>Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)</p>						
MEA04-05	1018	Exponent	O	R	1/15	Used
<p>Description: Power to which a unit is raised.</p>						
MEA04-06	649	Multiplier	O	R	1/10	Used
<p>Description: Value to be used as a multiplier to obtain a new value</p>						
MEA04-07	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
<p>Description: Code specifying the units in which a value is being expressed, or manner in</p>						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-08	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-09	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-10	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-11	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-12	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-13	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-14	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-15	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA05	740	Range Minimum	X	R	1/10	Used
		Description: The value specifying the minimum of the measurement range.				
MEA06	741	Range Maximum	X	R	1/10	Used
		Description: The value specifying the maximum of the measurement range.				
MEA07	935	Measurement Significance Code	O	ID	2/2	Used
		Description: Code used to benchmark, qualify or further define a measurement value. All valid standard codes are used. (Total Codes: 38)				
MEA08	936	Measurement Attribute Code	X	ID	2/2	Used
		Description: Code used to express an attribute response when a numeric measurement value cannot be determined. All valid standard codes are used. (Total Codes: 40)				
MEA09	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
MEA10	1373	Measurement Method or Device	X	ID	2/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: The method or device used to record the measurement						
All valid standard codes are used. (Total Codes: 7)						

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0304 - If MEA03 is present, then MEA04 is required.
3. C0504 - If MEA05 is present, then MEA04 is required.
4. C0604 - If MEA06 is present, then MEA04 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

PKG Marking, Packaging, Loading

Pos: 310	Max: 25
Detail - Optional	
Loop: SLN	Elements: 6

User Option (Usage): Used

Purpose: To describe marking, packaging, loading and unloading requirements.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PKG01	349	Item Description Type	X	ID	1/1	Used
		Description: Code indicating the format of a description. All valid standard codes are used. (Total Codes: 3)				
PKG02	753	Packaging Characteristic Code	O	ID	1/5	Used
		Description: Code specifying the marking, packaging, loading and related characteristics being described. All valid standard codes are used. (Total Codes: 22)				
PKG03	559	Agency Qualifier Code	X	ID	2/2	Used
		Description: Code identifying the agency assigning the code values. All valid standard codes are used. (Total Codes: 80)				
PKG04	754	Packaging Description Code	X	AN	1/7	Used
		Description: A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product.				
PKG05	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PKG06	400	Unit Load Option Code	O	ID	2/2	Used
		Description: Code identifying loading or unloading a shipment All valid standard codes are used. (Total Codes: 6)				

Syntax Rules:

1. R040506 - At least one of PKG04, PKG05 or PKG06 is required.
2. C0401 - If PKG04 is present, then PKG01 is required.
3. C0501 - If PKG05 is present, then PKG01 is required.

Semantics:

1. PKG04 should be used for industry-specific packaging description codes.

Comments:

1. Use MEA (Measurements) segment to define dimensions, tolerances weights, counts, physical restrictions, etc.
2. If PKG01 = ``F'', then PKG05 is used. If PKG01 = ``S'', then PKG04 is used. If PKG01 = ``X'', then both PKG04 and PKG05 are used.
3. Use PKG03 to indicate the organization that publishes the code list being referred to.
4. Special marking or tagging data can be given in PKG05 (Description).

Loop Marks and Numbers

Pos: 312	Repeat: 100
Optional	
Loop: MAN	Elements: N/A

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
312	MAN	Marks and Numbers	O	1		Used
314	MEA	Measurements	O	40		Used

MAN Marks and Numbers

Pos: 312	Max: 1
Detail - Optional	
Loop: MAN	Elements: 6

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use
Description: Code specifying the application or source of Marks and Numbers (87). All valid standard codes are used. (Total Codes: 16)						
MAN02	87	Marks and Numbers	M	AN	1/45	Must use
Description: Marks and numbers used to identify a shipment or parts of a shipment.						
MAN03	87	Marks and Numbers	O	AN	1/45	Used
Description: Marks and numbers used to identify a shipment or parts of a shipment.						
MAN04	88	Marks and Numbers Qualifier	O	ID	1/2	Used
Description: Code specifying the application or source of Marks and Numbers (87). All valid standard codes are used. (Total Codes: 16)						
MAN05	87	Marks and Numbers	O	AN	1/45	Used
Description: Marks and numbers used to identify a shipment or parts of a shipment.						
MAN06	87	Marks and Numbers	O	AN	1/45	Used
Description: Marks and numbers used to identify a shipment or parts of a shipment.						

Semantics:

1. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
2. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

MEA Measurements

Pos: 314	Max: 40
Detail - Optional	
Loop: MAN	Elements: 10

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
Description: Code identifying the broad category to which a measurement applies All valid standard codes are used. (Total Codes: 80)						
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
Description: Code identifying a specific product or process characteristic to which a measurement applies All valid standard codes are used. (Total Codes: 720)						
MEA03	739	Measurement Value	X	R	1/10	Used
Description: The value of the measurement.						
MEA04	C001	Composite Unit of Measure	X	Comp		Used
Description: To identify a composite unit of measure(See Figures Appendix for examples of use.)						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-02	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-03	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-04	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-05	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-06	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-07	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-08	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-09	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-10	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-11	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-12	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-13	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-14	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-15	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA05	740	Range Minimum	X	R	1/10	Used
		Description: The value specifying the minimum of the measurement range.				
MEA06	741	Range Maximum	X	R	1/10	Used
		Description: The value specifying the maximum of the measurement range.				
MEA07	935	Measurement Significance Code	O	ID	2/2	Used
		Description: Code used to benchmark, qualify or further define a measurement value. All valid standard codes are used. (Total Codes: 38)				
MEA08	936	Measurement Attribute Code	X	ID	2/2	Used
		Description: Code used to express an attribute response when a numeric measurement value cannot be determined. All valid standard codes are used. (Total Codes: 40)				
MEA09	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
MEA10	1373	Measurement Method or Device	X	ID	2/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: The method or device used to record the measurement						
All valid standard codes are used. (Total Codes: 7)						

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0304 - If MEA03 is present, then MEA04 is required.
3. C0504 - If MEA05 is present, then MEA04 is required.
4. C0604 - If MEA06 is present, then MEA04 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Loop Quantity

Pos: 320	Repeat: 99
Optional	
Loop: QTY	Elements: N/A

User Option (Usage): Used

Purpose: To specify quantity information.

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
320	QTY	Quantity	O	1		Used
330	UIT	Unit Detail	O	12		Used
340	MEA	Measurements	O	25		Used
350	LDT	Lead Time	O	12		Used
360		Loop SCH	O		25	Used
380		Loop LS	O		1	Used

QTY Quantity

Pos: 320	Max: 1
Detail - Optional	
Loop: QTY	Elements: 3

User Option (Usage): Used

Purpose: To specify quantity information.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use

Description: Code specifying the type of quantity.

All valid standard codes are used. (Total Codes: 326)

QTY02	380	Quantity	M	R	1/15	Must use
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Description: Numeric value of quantity.

QTY03	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

All valid standard codes are used. (Total Codes: 719)

UIT Unit Detail

Pos: 330	Max: 12
Detail - Optional	
Loop: QTY	Elements: 3

User Option (Usage): Used

Purpose: To specify item unit data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
UIT01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use

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

All valid standard codes are used. (Total Codes: 719)

UIT02	212	Unit Price	X	R	1/14	Used
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Description: Price per unit of product, service, commodity, etc.

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

All valid standard codes are used. (Total Codes: 81)

Syntax Rules:

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

MEA Measurements

Pos: 340	Max: 25
Detail - Optional	
Loop: QTY	Elements: 10

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
Description: Code identifying the broad category to which a measurement applies All valid standard codes are used. (Total Codes: 80)						
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
Description: Code identifying a specific product or process characteristic to which a measurement applies All valid standard codes are used. (Total Codes: 720)						
MEA03	739	Measurement Value	X	R	1/10	Used
Description: The value of the measurement.						
MEA04	C001	Composite Unit of Measure	X	Comp		Used
Description: To identify a composite unit of measure(See Figures Appendix for examples of use.)						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-02	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-03	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-04	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-05	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-06	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-07	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-08	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-09	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-10	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-11	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-12	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-13	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-14	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-15	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA05	740	Range Minimum	X	R	1/10	Used
		Description: The value specifying the minimum of the measurement range.				
MEA06	741	Range Maximum	X	R	1/10	Used
		Description: The value specifying the maximum of the measurement range.				
MEA07	935	Measurement Significance Code	O	ID	2/2	Used
		Description: Code used to benchmark, qualify or further define a measurement value. All valid standard codes are used. (Total Codes: 38)				
MEA08	936	Measurement Attribute Code	X	ID	2/2	Used
		Description: Code used to express an attribute response when a numeric measurement value cannot be determined. All valid standard codes are used. (Total Codes: 40)				
MEA09	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
MEA10	1373	Measurement Method or Device	X	ID	2/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: The method or device used to record the measurement						
All valid standard codes are used. (Total Codes: 7)						

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0304 - If MEA03 is present, then MEA04 is required.
3. C0504 - If MEA05 is present, then MEA04 is required.
4. C0604 - If MEA06 is present, then MEA04 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

LDT Lead Time

Pos: 350	Max: 12
Detail - Optional	
Loop: QTY	Elements: 4

User Option (Usage): Used

Purpose: To specify lead time for availability of products and services.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LDT01	345	Lead Time Code	M	ID	2/2	Must use
		Description: Code indicating the time range. All valid standard codes are used. (Total Codes: 14)				
LDT02	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity.				
LDT03	344	Unit of Time Period or Interval	M	ID	2/2	Must use
		Description: Code indicating the time period or interval All valid standard codes are used. (Total Codes: 33)				
LDT04	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				

Semantics:

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

Comments:

1. LDT02 is the quantity of Unit of Time Periods.

Loop Line Item Schedule

Pos: 360	Repeat: 25
Optional	
Loop: SCH	Elements: N/A

User Option (Usage): Used

Purpose: To specify the data for scheduling a specific line item.

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
360	SCH	Line Item Schedule	O	1		Used
370	MEA	Measurements	O	25		Used

SCH Line Item Schedule

Pos: 360	Max: 1
Detail - Optional	
Loop: SCH	Elements: 12

User Option (Usage): Used

Purpose: To specify the data for scheduling a specific line item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SCH01	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity.				
SCH02	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		All valid standard codes are used. (Total Codes: 719)				
SCH03	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual				
		All valid standard codes are used. (Total Codes: 687)				
SCH04	93	Name	X	AN	1/35	Used
		Description: Free-form name.				
SCH05	374	Date/Time Qualifier	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time.				
		All valid standard codes are used. (Total Codes: 601)				
SCH06	373	Date	M	DT	6/6	Must use
		Description: Date (YYMMDD).				
SCH07	337	Time	O	TM	4/8	Used
		Description: 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)				
SCH08	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time.				
		All valid standard codes are used. (Total Codes: 601)				
SCH09	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
SCH10	337	Time	O	TM	4/8	Used
		Description: 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)				
SCH11	326	Request Reference Number	O	AN	1/45	Used
		Description: Reference number or RFQ number to use to identify a particular transaction				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		set and query (additional reference number or description which can be used with contract number).				
SCH12	350	Assigned Identification	O	AN	1/11	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				

Syntax Rules:

1. C0304 - If SCH03 is present, then SCH04 is required.
2. C0908 - If SCH09 is present, then SCH08 is required.

Semantics:

1. SCH12 is the schedule identification.

Comments:

1. SCH05 specifies the interpretation to be used for SCH06 and SCH07.

MEA Measurements

Pos: 370	Max: 25
Detail - Optional	
Loop: SCH	Elements: 10

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
Description: Code identifying the broad category to which a measurement applies All valid standard codes are used. (Total Codes: 80)						
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
Description: Code identifying a specific product or process characteristic to which a measurement applies All valid standard codes are used. (Total Codes: 720)						
MEA03	739	Measurement Value	X	R	1/10	Used
Description: The value of the measurement.						
MEA04	C001	Composite Unit of Measure	X	Comp		Used
Description: To identify a composite unit of measure(See Figures Appendix for examples of use.)						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-02	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-03	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-04	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)						
MEA04-05	1018	Exponent	O	R	1/15	Used
Description: Power to which a unit is raised.						
MEA04-06	649	Multiplier	O	R	1/10	Used
Description: Value to be used as a multiplier to obtain a new value						
MEA04-07	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-08	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-09	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-10	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-11	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-12	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-13	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-14	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-15	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA05	740	Range Minimum	X	R	1/10	Used
		Description: The value specifying the minimum of the measurement range.				
MEA06	741	Range Maximum	X	R	1/10	Used
		Description: The value specifying the maximum of the measurement range.				
MEA07	935	Measurement Significance Code	O	ID	2/2	Used
		Description: Code used to benchmark, qualify or further define a measurement value. All valid standard codes are used. (Total Codes: 38)				
MEA08	936	Measurement Attribute Code	X	ID	2/2	Used
		Description: Code used to express an attribute response when a numeric measurement value cannot be determined. All valid standard codes are used. (Total Codes: 40)				
MEA09	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
MEA10	1373	Measurement Method or Device	X	ID	2/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: The method or device used to record the measurement						
All valid standard codes are used. (Total Codes: 7)						

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0304 - If MEA03 is present, then MEA04 is required.
3. C0504 - If MEA05 is present, then MEA04 is required.
4. C0604 - If MEA06 is present, then MEA04 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Loop Loop Header

Pos: 380	Repeat: 1
Optional	
Loop: LS	Elements: N/A

User Option (Usage): Used

Purpose: To indicate that the next segment begins a loop

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
380	LS	Loop Header	O	1		Used
390		Loop REF	O		>1	Used
440	LE	Loop Trailer	M	1		Used

LS Loop Header

Pos: 380	Max: 1
Detail - Optional	
Loop: LS	Elements: 1

User Option (Usage): Used

Purpose: To indicate that the next segment begins a loop

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LS01	447	Loop Identifier Code	M	AN	1/4	Must use

Description: The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE

Semantics:

1. One loop may be nested contained within another loop, provided the inner nested loop terminates before the outer loop. When specified by the standard setting body as ``mandatory'', this segment in combination with ``LE'', must be used. It is not to be used if not specifically set forth for use. The loop identifier in the loop header and trailer must be identical. The value for the identifier is the loop ID of the required loop segment. The loop ID number is given on the transaction set diagram in the appropriate ASC X12 version/release.

Comments:

1. See Figures Appendix for an explanation of the use of the LS and LE segments.

Loop Reference Numbers

Pos: 390	Repeat: >1
Optional	
Loop: REF	Elements: N/A

User Option (Usage): Used

Purpose: To specify identifying numbers.

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
390	REF	Reference Numbers	O	1		Used
400	DTM	Date/Time Reference	O	>1		Used
410	N1	Name	O	1		Used
420		Loop LM	O		10	Used

REF Reference Numbers

Pos: 390	Max: 1
Detail - Optional	
Loop: REF	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

All valid standard codes are used. (Total Codes: 859)

REF02	127	Reference Number	X	AN	1/30	Used
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Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

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

Syntax Rules:

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

DTM Date/Time Reference

Pos: 400	Max: >1
Detail - Optional	
Loop: REF	Elements: 7

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
Description: Code specifying type of date or time, or both date and time.						
All valid standard codes are used. (Total Codes: 601)						
DTM02	373	Date	X	DT	6/6	Used
Description: Date (YYMMDD).						
DTM03	337	Time	X	TM	4/8	Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
DTM04	623	Time Code	O	ID	2/2	Used
Description: 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.						
All valid standard codes are used. (Total Codes: 39)						
DTM05	624	Century	O	N0	2/2	Used
Description: The first two characters in the designation of the year (CCYY).						
DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3	Used
Description: Code indicating the date format, time format, or date and time format.						
All valid standard codes are used. (Total Codes: 22)						
DTM07	1251	Date Time Period	X	AN	1/35	Used
Description: Expression of a date, a time, or range of dates, times or dates and times.						

Syntax Rules:

1. R020306 - At least one of DTM02, DTM03 or DTM06 is required.
2. P0607 - If either DTM06 or DTM07 is present, then the other is required.

N1 Name

Pos: 410	Max: 1
Detail - Optional	
Loop: REF	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/2	Must use
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
N102	93	Name	X	AN	1/35	Used
		Description: Free-form name.				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67). All valid standard codes are used. (Total Codes: 138)				
N104	67	Identification Code	X	AN	2/17	Used
		Description: Code identifying a party or other code.				
N105	706	Entity Relationship Code	O	ID	2/2	Used
		Description: Code describing entity relationship. All valid standard codes are used. (Total Codes: 31)				
N106	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				

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.

Loop Code Source Information

Pos: 420	Repeat: 10
Optional	
Loop: LM	Elements: N/A

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
420	LM	Code Source Information	O	1		Used
430	LQ	Industry Code	M	100		Must use

LM Code Source Information

Pos: 420	Max: 1
Detail - Optional	
Loop: LM	Elements: 2

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LM01	559	Agency Qualifier Code	M	ID	2/2	Must use

Description: Code identifying the agency assigning the code values.

All valid standard codes are used. (Total Codes: 80)

LM02	822	Source Subqualifier	O	AN	1/15	Used
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Description: A reference that indicates the table or text maintained by the Source Qualifier.

Comments:

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

LQ Industry Code

Pos: 430	Max: 100
Detail - Mandatory	
Loop: LM	Elements: 2

User Option (Usage): Must use

Purpose: Code to transmit standard industry codes

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LQ01	1270	Code List Qualifier Code	O	ID	1/3	Used
		Description: Code identifying a specific industry code list All valid standard codes are used. (Total Codes: 183)				
LQ02	1271	Industry Code	X	AN	1/20	Used
		Description: Code indicating a code from a specific industry code list				

Syntax Rules:

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

LE Loop Trailer

Pos: 440	Max: 1
Detail - Mandatory	
Loop: LS	Elements: 1

User Option (Usage): Used

Purpose: To indicate that the loop immediately preceding this segment is complete

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LE01	447	Loop Identifier Code	M	AN	1/4	Must use

Description: The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE

Semantics:

1. One loop may be nested contained within another loop, provided the inner nested loop terminates before the other loop. When specified by the standards setting body as ``mandatory'', this segment in combination with ``LS'', must be used. It is not to be used if not specifically set forth for use. The loop identifier in the loop header and trailer must be identical. The value for the identifier is the loop ID of the required loop beginning segment. The loop ID number is given on the transaction set diagram in the appropriate ASC X12 version/release.

Comments:

1. See Figures Appendix for an explanation of the use of the LE and LS segments.

Loop Name

Pos: 450	Repeat: 200
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
450	N1	Name	O	1		Used
460	N2	Additional Name Information	O	2		Used
470	N3	Address Information	O	2		Used
480	N4	Geographic Location	O	1		Used
490	REF	Reference Numbers	O	12		Used
500	PER	Administrative Communications Contact	O	3		Used

N1 Name

Pos: 450	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/2	Must use
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
N102	93	Name	X	AN	1/35	Used
		Description: Free-form name.				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67). All valid standard codes are used. (Total Codes: 138)				
N104	67	Identification Code	X	AN	2/17	Used
		Description: Code identifying a party or other code.				
N105	706	Entity Relationship Code	O	ID	2/2	Used
		Description: Code describing entity relationship. All valid standard codes are used. (Total Codes: 31)				
N106	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				

Syntax Rules:

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

Comments:

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

N2 Additional Name Information

Pos: 460	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name	M	AN	1/35	Must use
		Description: Free-form name.				
N202	93	Name	O	AN	1/35	Used
		Description: Free-form name.				

N3 Address Information

Pos: 470	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/35	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/35	Used
		Description: Address information				

N4 Geographic Location

Pos: 480	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name.				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency.				
N403	116	Postal Code	O	ID	3/9	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States).				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country.				
N405	309	Location Qualifier	X	ID	1/2	Used
		Description: Code identifying type of location.				
		All valid standard codes are used. (Total Codes: 83)				
N406	310	Location Identifier	O	AN	1/30	Used
		Description: Code which identifies a specific location.				

Syntax Rules:

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

Comments:

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

REF Reference Numbers

Pos: 490	Max: 12
Detail - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

All valid standard codes are used. (Total Codes: 859)

REF02	127	Reference Number	X	AN	1/30	Used
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Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

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

Syntax Rules:

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

PER Administrative Communications Contact

Pos: 500	Max: 3
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major duty or responsibility of the person or group named.				
		All valid standard codes are used. (Total Codes: 154)				
PER02	93	Name	O	AN	1/35	Used
		Description: Free-form name.				
PER03	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER04	364	Communication Number	X	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable.				
PER05	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER06	364	Communication Number	X	AN	1/80	Used
		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.

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 7

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set.

CTT02	347	Hash Total	O	R	1/10	Used
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Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Example:

-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

CTT03	81	Weight	O	R	1/10	Used
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Description: Numeric value of weight.

CTT04	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

All valid standard codes are used. (Total Codes: 719)

CTT05	183	Volume	O	R	1/8	Used
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Description: Value of volumetric measure.

CTT06	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

All valid standard codes are used. (Total Codes: 719)

CTT07	352	Description	O	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content.

Syntax Rules:

1. C0304 - If CTT03 is present, then CTT04 is required.
2. C0506 - If CTT05 is present, then CTT06 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use

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

SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Comments:

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