



EDI Guideline

X12/V4010/850 : 850 Purchase Order

Version: 2.1

Author:	InterTrade
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Document Change Log

Version	Date	Page	Description
2.1	10/19/2020	10	PER correction added PER05, PER06, PER07 & PER08
2.1	10/19/2020	24	DTM Segment Added
2.1	10/19/2020	25	MSG Segment Added
2.1	10/19/2020	31 - 32	Sample Data Added

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850

Purchase Order

Functional Group=PO

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Not Defined:

<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>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

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	BEG	Beginning Segment for Purchase Order	M	1			Must use
050	REF	Reference Identification	M	>1			Must use
060	PER	Administrative Communications Contact	M	3			Must use
150	DTM	Date/Time Reference	O	10			Used
LOOP ID - N9					1000		
300	MSG	Message Text	O	1000			Used
LOOP ID - N1					3		
310	N1	Name	M	1			Must use
330	N3	Address Information	M	2			Must use
340	N4	Geographic Location	M	>1			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 - PO1					100000	N2/010L	
010	PO1	Baseline Item Data	M	1		N2/010	Must use
LOOP ID - PID					1000		
050	PID	Product/Item Description	M	1			Must use
210	DTM	Date/Time Reference	O	10			Used
289	MSG	Message Text	O	>1			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>
LOOP ID - CTT					1	N3/010L	
010	CTT	Transaction Totals	M	1		N3/010	Must use
030	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<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>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

2/010L PO102 is required.
2/010 PO102 is required.

- 3/010L The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.
- 3/010 The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control 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>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Authorization Information All valid standard codes are used. (Total Codes: 7)				
ISA02	I02	Authorization Information	M	AN	10/10	Must use
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)				
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Security Information All valid standard codes are used. (Total Codes: 2)				
ISA04	I04	Security Information	M	AN	10/10	Must use
		Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)				
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used. (Total Codes: 38)				
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
		Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element				
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used. (Total Codes: 38)				
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
		Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them				
ISA09	I08	Interchange Date	M	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	I09	Interchange Time	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used. (Total Codes: 1)				

ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use				
Description: Code specifying the version number of the interchange control segments										
Code List Summary (Total Codes: 14, Included: 1)										
<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00401</td> <td>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </tbody> </table>							<u>Code</u>	<u>Name</u>	00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997
<u>Code</u>	<u>Name</u>									
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997									
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use				
Description: A control number assigned by the interchange sender										
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use				
Description: Code sent by the sender to request an interchange acknowledgment (TA1)										
All valid standard codes are used. (Total Codes: 2)										
ISA15	I14	Usage Indicator	M	ID	1/1	Must use				
Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information										
All valid standard codes are used. (Total Codes: 3)										
ISA16	I15	Component Element Separator	M		1/1	Must use				
Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator										

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

Purpose: To indicate the beginning of a functional group and to provide control 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>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use
Description: Code identifying a group of application related transaction sets						
Code List Summary (Total Codes: 240, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		PO		Purchase Order (850)		
GS02	142	Application Sender's Code	M	AN	2/15	Must use
Description: Code identifying party sending transmission; codes agreed to by trading partners						
GS03	124	Application Receiver's Code	M	AN	2/15	Must use
Description: Code identifying party receiving transmission; codes agreed to by trading partners						
GS04	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						
GS05	337	Time	M	TM	4/8	Must use
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)						
GS06	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						
GS07	455	Responsible Agency Code	M	ID	1/2	Must use
Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480						
All valid standard codes are used. (Total Codes: 2)						
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use
Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed						
Code List Summary (Total Codes: 39, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		004010		Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997		

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.

3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

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

Code List Summary (Total Codes: 298, Included: 1)

<u>Code</u>	<u>Name</u>
850	Purchase Order

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

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BEG Beginning Segment for Purchase Order

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

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>
BEG01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set				
		Code List Summary (Total Codes: 65, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		00		Original		
BEG02	92	Purchase Order Type Code	M	ID	2/2	Must use
		Description: Code specifying the type of Purchase Order				
		Code List Summary (Total Codes: 69, Included: 3)				
		<u>Code</u>		<u>Name</u>		
		NE		New Order		
		RO		Rush Order		
		SA		Stand-alone Order		
BEG03	324	Purchase Order Number	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
BEG05	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				

Semantics:

1. BEG05 is the date assigned by the purchaser to purchase order.

REF Reference Identification

Pos: 050	Max: >1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1503, Included: 1)

<u>Code</u>	<u>Name</u>
28	Employee Identification Number

REF02	127	Reference Identification	X	AN	1/30	Used
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

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

Semantics:

- 1.

PER Administrative Communications Contact

Pos: 060	Max: 3
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use

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

Code List Summary (Total Codes: 230, Included: 1)

<u>Code</u>	<u>Name</u>
BD	Buyer Name or Department

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

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

Code List Summary (Total Codes: 40, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER04	364	Communication Number	X	AN	1/80	Used
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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

Code List Summary (Total Codes: 40, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER06	364	Communication Number	X	AN	1/80	Used
-------	-----	----------------------	---	----	------	------

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

PER07	365	Communication Number Qualifier	X	ID	2/2	Used
-------	-----	--------------------------------	---	----	-----	------

Description: Code identifying the type of communication number

Code List Summary (Total Codes: 40, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER08	364	Communication Number	X	AN	1/80	Used
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Description: Complete communications number including country or area code when applicable

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.

DTM Date/Time Reference

Pos: 150	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
002	Delivery Requested

DTM02	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

Loop Reference Identification

Pos: 295	Repeat: 1000
Optional	
Loop: N9	Elements: N/A

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
300	MSG	Message Text	O	1000		Used

MSG Message Text

Pos: 300	Max: 1000
Heading - Optional	
Loop: N9	Elements: 1

User Option (Usage): Used

Purpose: To provide a free-form format that allows the transmission of text 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>
MSG01	933	Free-Form Message Text	M	AN	1/264	Must use

Description: Free-form message text

Loop Name

Pos: 310	Repeat: 3
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>
310	N1	Name	M	1		Must use
330	N3	Address Information	M	2		Must use
340	N4	Geographic Location	M	>1		Must use

N1

Name

Pos: 310	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

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

Code List Summary (Total Codes: 1312, Included: 3)

<u>Code</u>	<u>Name</u>
BT	Bill-to-Party
ST	Ship To
VN	Vendor

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

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

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

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

Syntax Rules:

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

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

N3 Address Information

Pos: 330	Max: 2
Heading - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Must use
Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 340	Max: >1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

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	M	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	M	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	M	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	M	ID	2/3	Must use
		Description: Code identifying the country				

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 U.S. or Canada.

Loop Baseline Item Data

Pos: 010	Repeat: 100000
Mandatory	
Loop: PO1	Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic and most frequently used line 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>
010	PO1	Baseline Item Data	M	1		Must use
050		Loop PID	M		1000	Must use
210	DTM	Date/Time Reference	O	10		Used
289	MSG	Message Text	O	>1		Used

PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 10

User Option (Usage): Must use

Purpose: To specify basic and most frequently used line 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>
PO101	350	Assigned Identification	O	AN	1/20	Must use
Description: Alphanumeric characters assigned for differentiation within a transaction set						
PO102	330	Quantity Ordered	M	R	1/15	Must use
Description: Quantity ordered						
PO103	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						
User Note 1: Standard X12 codes are used as per contract agreement						
Code List Summary (Total Codes: 794, Included: 2)						
		<u>Code</u>	<u>Name</u>			
		CA	Case			
		EA	Each			
PO104	212	Unit Price	M	R	1/17	Must use
Description: Price per unit of product, service, commodity, etc.						
PO106	235	Product/Service ID Qualifier	M	ID	2/2	Must use
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
Code List Summary (Total Codes: 477, Included: 2)						
		<u>Code</u>	<u>Name</u>			
		VC	Vendor's (Seller's) Catalog Number			
		VN	Vendor's (Seller's) Item Number			
PO107	234	Product/Service ID	M	AN	1/48	Must use
Description: Identifying number for a product or service						
PO108	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)						
Code List Summary (Total Codes: 477, Included: 1)						
		<u>Code</u>	<u>Name</u>			
		IN	Buyer's Item Number			
PO109	234	Product/Service ID	O	AN	1/48	Used
Description: Identifying number for a product or service						
PO110	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)						
Code List Summary (Total Codes: 477, Included: 1)						
		<u>Code</u>	<u>Name</u>			
		SN	Serial Number			
PO111	234	Product/Service ID	O	AN	1/48	Used

Description: Identifying number for a product or service

Syntax Rules:

1. C0302 - If PO103 is present, then PO102 is required.
2. C0504 - If PO105 is present, then PO104 is required.
3. P0607 - If either PO106 or PO107 is present, then the other is required.
4. P0809 - If either PO108 or PO109 is present, then the other is required.
5. P1011 - If either PO110 or PO111 is present, then the other is required.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. PO101 is the line item identification.
3. PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Loop Product/Item Description

Pos: 050	Repeat: 1000
Mandatory	
Loop: PID	Elements: N/A

User Option (Usage): Must use

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

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>
050	PID	Product/Item Description	M	1		Must use

PID Product/Item Description

Pos: 050	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 2

User Option (Usage): Must use

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)

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

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.

DTM Date/Time Reference

Pos: 210	Max: 10
Detail - Optional	
Loop: PO1	Elements: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
002	Delivery Requested

DTM02	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

MSG Message Text

Pos: 289	Max: >1
Detail - Optional	
Loop: PO1	Elements: 1

User Option (Usage): Used

Purpose: To provide a free-form format that allows the transmission of text 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>
MSG01	933	Free-Form Message Text	M	AN	1/264	Used

Description: Free-form message text

Semantics:

1. MSG03 is the number of lines to advance before printing.

Comments:

1. MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2. If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Loop Transaction Totals

Pos: 010	Repeat: 1
Mandatory	
Loop: CTT	Elements: N/A

User Option (Usage): Must use

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

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	CTT	Transaction Totals	M	1		Must use

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Mandatory	
Loop: CTT	Elements: 2

User Option (Usage): Must use

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

Element Summary:

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

Description: Total number of line items in the transaction set

CTT02	347	Hash Total	O	R	1/10	Used
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Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

Comments:

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

SE Transaction Set Trailer

Pos: 030	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

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

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To indicate the end of a functional group and to provide control 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>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Must use
Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element						
GE02	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control 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>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Must use
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				

Sample 1 - 850:

ISA*00* *00* *ZZ*SENDERISAID *ZZ*RECEIVERISAID
 *201013*1224*U*00401*000002338*0*P*>~
 GS*PO*SENDERGSID*RECEVERGSID*20201013*1224*2338*X*004010~
 ST*850*0001~
 BEG*00*SA*FG31248**20201013~
 PER*BD*PURCAHSER NAEM/DEPT*EM*PURCHASEREMAIL@SSSS.GOUV.QC.CA*TE*999-999-
 9999*FX*999-998-8888~
 DTM*002*20201013~
 N1*BT*BILL TO NAME*ZZ*ACCTNUMBER~
 N3*BILL TO ADDRESS1*BILL TO ADDRESS2~
 N4*BAIE-COMEAU*QC*G5C 1P5*CA~
 N1*ST*SHIP TO NAME*ZZ*ACCTNUMBER~
 N3*1070, BOULEVARD DR-CAMILLE-MARCOUX*CASE POSTALE 130~
 N4*BLANC-SABLON (QUEBEC)*QC*G0G 1W0*CA~
 N1*VN*VENDOR BAME*ZZ*VENDORNR~
 N3*VENDOR ADDRESS1*VENDOR ADDRESS2~
 N4*MONTREAL*QC*H1J3A9*CA~
 PO1*1*1*CA*31.52**VN*355-B4800*IN*0220030-0005~
 PID*F****COMPRESSE TISSEE COTON 8 PLIS STERILE 10 X 10CM (4 X 4")~
 MSG*Porte: ST. AUGUSTIN~
 PO1*2*2*EA*142.40**VN*184-NN8000J*IN*0210200-0004~
 PID*F****OXYMETRE PULSATILE NONIN - CAPTEUR SPO2 FLEXIBLE REUTILISABL~
 PID*F****LE ADULTE SEUL~
 MSG*Porte: INHALO~
 PO1*3*10*BX*2.47**VN*333-33333*IN*0200330-0049~
 PID*F****AIGUILLE HYPO JETABLE BISEAU REGULIER 25G X 3.81CM (1 1/2")~
 PO1*4*5*BX*8.65**VN*655-SAM-4444M*IN*0220420-0004~
 PID*F****BANDAGE ELASTIQUE TUBULAIRE EN FILET NO 5 OU F~
 PO1*5*6*BX*7.00**VN*655-5555-S625M*IN*0220520-0005~
 PID*F****BANDAGE ELASTIQUE TUBULAIRE EN FILET NO 6 OU G ROULEAU~
 PO1*6*4*BX*14.24**VN*696-666666*IN*0216120-0022~
 PID*F****MICROPERFUSEUR 2 AILETTES 25G X 1.90CM (3/4") A/TUBULURE 30C~
 PID*F****CM (12") EMBOUT LL~
 CTT*6*28~
 SE*31*0001~
 GE*1*2338~
 IEA*1*000002338~

Sample 2 - 850:

ISA^00^ ^00^ ^ZZ^SENDERISAID ^ZZ^RECEIVERISAID
 ^201013^1224^U^00401^000002338^0^P^>~
 GS^PO^SENDERGSID^RECEVERGSID^20201013^1224^2338^X^004010~
 ST^850^0001~
 BEG^00^SA^FG31248^^20201013~
 REF^28^59317~
 PER^BD^PURCAHSE NAEM/DEPT^EM^PURCHASEREMAIL@SSSS.GOUV.QC.CA^TE^999-999-
 9999^FX^999-998-8888~
 MSG^SPECIAL ORDER~
 MSG^DIFFERENT DELIVERY DATES FOR PRODUCT DELIVERY~
 N1^BT^BILL TO NAME^ZZ^ACCTNUMBER~
 N3^BILL TO ADDRESS1^BILL TO ADDRESS2~
 N4^BAIE-COMEAU^QC^G5C 1P5^CND~
 N1^ST^SHIP TO NAME^ZZ^ACCTNUMBER~
 N3^1070, BOULEVARD DR-CAMILLE-MARCOUX^CASE POSTALE 130~
 N4^BLANC-SABLON (QUEBEC)^QC^G0G 1W0^CND~
 N1^VN^VENDOR BAME^ZZ^VENDORNBR~
 N3^VENDOR ADDRESS1^VENDOR ADDRESS2~
 N4^MONTREAL^QC^HIJ3A9^CND~
 PO1^1^1^CA^31.52^^VN^355-B4800^IN^0220030-0005~
 PID^F^^^^COMPRESSE TISSEE COTON 8 PLIS STERILE 10 X 10CM (4 X 4")~
 DTM^002^20201015~
 MSG^Porte: ST. AUGUSTIN~
 PO1^2^2^EA^142.40^^VN^184-NN8000J^IN^0210200-0004~
 PID^F^^^^OXYMETRE PULSATILE NONIN - CAPTEUR SPO2 FLEXIBLE REUTILISABL~
 PID^F^^^^LE ADULTE SEUL~
 DTM^002^20201020~
 MSG^Porte: INHALO~
 PO1^3^10^BX^2.47^^VN^333-33333^IN^0200330-0049^SN^SN12348765~
 PID^F^^^^AIGUILLE HYPO JETABLE BISEAU REGULIER 25G X 3.81CM (1 1/2")~
 DTM^002^20201015~
 PO1^4^5^BX^8.65^^VN^655-SAM-4444M^IN^0220420-0004~
 PID^F^^^^BANDAGE ELASTIQUE TUBULAIRE EN FILET NO 5 OU F~
 DTM^002^20201015~
 PO1^5^6^BX^7.00^^VN^655-5555-S625M^IN^0220520-0005~
 PID^F^^^^BANDAGE ELASTIQUE TUBULAIRE EN FILET NO 6 OU G ROULEAU~
 DTM^002^20201015~
 PO1^6^4^BX^14.24^^VN^696-666666^IN^0216120-0022~
 PID^F^^^^MICROPERFUSEUR 2 AILETTES 25G X 1.90CM (3/4") A/TUBULURE 30C~
 PID^F^^^^CM (12") EMBOUT LL~
 DTM^002^20201015~
 CTT^6^28~
 SE^39^0001~
 GE^1^2338~
 IEA^1^000002338~