

### Introduction

The purpose of this document is to explain the requirements for a customer wanting to send electronic purchase orders to 3M via EDI. 3M EDI 850 works only on this standard guide/map thus cannot accommodate any customer specific requirements. If a customer signs up to transmission of EDI 850 they must agree to send/receive the suite of EDI procure to pay transactions (850, 855, 860, 865 856 and 810)

The ASC X12 version presented in this guideline is 004010.

### **Key Points**

- Unless specifically stated otherwise, all purchase orders will be processed in US Dollars. When CUR01 is sent as BY (Buyer) the value of CUR02 i.e., Currency Code can be equal to the buyer currency for example CAD if Buyer is in Canada. However when CUR01 is sent as SE (Selling Party) the value of CUR02 should always be "USD".
- PO1 Baseline item Data Customer Item or Service Identifiers should be identified using the following qualifiers
  - o BP Buyer Part Number
  - o UK U.P.C./EAN Shipping Container Code (1-2-5-5-1
  - UP U.P.C. Consumer Package Code (1-5-5-1)
  - o VP Vendor's (Seller's) Part Number
- Customers may use "\*", "}" or "|" as separators in EDI files
- Customers should not send PO Changes via 850 BEG01 04 (Change). The only values allowed in BEG01 are 00 – Original and 07-Duplicate
- When providing ST in N1 Segment N101, you MUST provide N103 and N104
- Customer should only apply Contract in the REF segment at the Heading level when that contract applies to all lines. If there are multiple contracts on a purchase order, the customer should provide Contract at the Detail level.

### **PO Structure**

• The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.



# 850

Purchase Order

Functional Group=PO

**Purpose:** This document 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. PO Changes should be submitted via EDI 860. All usages under the label "Req" denote X12 usages. All usages under the label "Usage" denote Company's usages. Basic Purchase Order Information. One 850 transaction will be required for each purchase order.

#### **Heading:**

Pos	ld	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
001	ISA	Interchange Control Header	М	1			Mandatory
002	GS	Functional Group Header	Μ	1			Mandatory
010	ST	Transaction Set Header	Μ	1			Mandatory
020	BEG	Beginning Segment for Purchase Order	М	1			Mandatory
040	CUR	Currency	0	1			Mandatory
050	REF	Reference Identification	М	>1			Mandatory
060	PER	Administrative Communications Contact	0	3			Mandatory
070	TAX	Тах	0	>1			Mandatory
080	FOB	F.O.B. Related Instructions	0	>1			Mandatory
120	SAC	Service, Promotion, Allowance, or Charge Information	0	1			Optional
130	ITD	Terms of Sale/Deferred Terms of Sale	0	5			Optional
150	DTM	Date/Time Reference	0	10			Mandatory
240	TD5	Carrier Details (Routing/Sequence Transit Time)	0	12			Optional

LOOP I	<u>D – N9</u>				1	
285	N9	Reference Information	0	1		Mandatory
290	MSG	Message Text	0	1		Optional
LOOP IE	D - N1				<u>200</u>	
310	xN1	Name	0	1		Optional
320	N2	Additional Name Information	0	2		Optional
330	N3	Address Information	0	2		Optional
340	N4	Geographic Location	М	>1		Mandatory
350	REF	Reference Identification	0	12		Optional
360	PER	Administrative Communications Contact	0	>1		Optional

Detail:

Pos	ld	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID	) - PO1				<u>100000</u>	<u>N2/010L</u>	
010	PO1	Baseline Item Data	М	1		N2/010	Mandatory
040	CTP	Pricing Information	0	>1			Optional
LOOP II	LOOP ID - PID				<u>1000</u>		
050	PID	Product/Item Description	0	1			Optional
LOOP II	LOOP ID - SAC				<u>25</u>		
130	SAC	Service, Promotion, Allowance, or Change					
250	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12			Optional

200

DD

3М	Information Technology	1.			3
295	SCH Line Item Schedule	0	1	Optional	

### Summary:

Pos	ld	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP I	D - CTT				<u>1</u>	<u>N3/010L</u>	
010	CTT	Transaction Totals	0	1		N3/010	Mandatory
030	SE	Transaction Set Trailer	М	1			Mandatory
031	GE	Functional Group Trailer	М	1			Mandatory
032	IEA	Interchange Control Trailer	М	1			Mandatory

#### **Transaction Set Notes**

#### 1. PO102 is required.

2. The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.

3. 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.





### Interchange Control Header

Pos: 001 Max: 1 Heading - Mandatory Loop: N/A Elements: 16

User Option (Usage): Mandatory

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

### **Element Summary:**

<u>Ref</u> ISA01	<u>ld</u> 101	<u>Element Name</u> Authorization	2 Information Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Mandatory			
		Description: C	code to identify the type of infor	mation in	the Authori	zation Informatio	n			
		<u>Code</u> 00	Name No Authorization Informatior	n Present	(No Meanin	gful Information i	n 102)			
ISA02	102	Authorization	Information	М	AN	10/10	Mandatory			
		interchange se	nformation used for additional i nder or the data in the intercha nformation Qualifier (I01)				he			
ISA03	103	Security Infor	mation Qualifier	M	ID	2/2	Mandatory			
		Description: C	code to identify the type of infor	rmation in	the Securit	y Information				
		<u>Code</u> 00	<u>Name</u> No Security Information Pres	sent (No N	leaningful I	nformation in 104	)			
ISA04	104	Security Inform	mation	М	AN	10/10	Mandatory			
		sender or the d	<b>Description:</b> 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	105	Interchange I	D Qualifier	М	ID	2/2	Mandatory			
			Qualifier to designate the syster sender or receiver ID element b			ucture used to				
ISA06	106	Interchange S	ender ID	М	AN	15/15	Mandatory			
			dentification code published by oute data to them; the sender a							
ISA07	105	Interchange II	D Qualifier	М	ID	2/2	Mandatory			
			Qualifier to designate the syster sender or receiver ID element b			ucture used to				
ISA08	107	Interchange R	eceiver ID	М	AN	15/15	Mandatory			
		used by the ser	lentification code published by nder as their sending ID, thus o o route data to them	the receiv ther partie	er of the da s sending t	ta; When sending o them will use th	g, it is iis as			
ISA09	108	Interchange D	ate	М	DT	6/6	Mandatory			
		Description: D	Date of the interchange							
ISA10	109	Interchange T	ime	М	ТМ	4/4	Mandatory			
		Description: T	ime of the interchange							
ISA11	l10	Interchange C	ontrol Standards Identifier	М	ID	1/1	Mandatory			
			ode to identify the agency resp nat is enclosed by the interchar				by			
ISA12	l11	Interchange C	control Version Number	М	ID	5/5	Mandatory			
		Description: T	his version number covers the	interchan	ge control s	segments				
			¥12 \/40	10						

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		<u>Code</u> 004010	<u>Name</u> Standard Issued as AN	SI X12			
ISA13	112	Interchange Co Description: A	ontrol Number control number assigned	M by the interchan	N0 ge senc	9/9 ler	Mandatory
ISA14	113	Acknowledgm Description: Co <u>Code</u>	ent Requested ode sent by the sender to Name	M request an inter	ID change	1/1 acknowledgment ( <sup>-</sup>	Mandatory ΓΑ1)
		0	No Acknowledgment Re	-			
ISA15	114	Usage Indicato Description: Co test, production <u>Code</u> P T	ode to indicate whether d	M ata enclosed by t	ID this inte	1/1 rchange envelope is	Mandatory s
ISA16	115	<b>Description:</b> Ty not a data elem elements within	ement Separator /pe is not applicable; the ent; this field provides the a composite data structu tor and the segment term	e delimiter used to re; this value mu	o separa	ate component data	l

### Segment Data Example:

ISA*00*	*00*	*ZZ*005103494	*01*078678760	*240117*1422*U*00401*000863303*0*P*<~





GS

### **Functional Group Header**

Pos: 002 Max: 1 Heading - Mandatory Loop: N/A **Elements: 8** 

User Option (Usage): Mandatory

Purpose: To indicate the beginning of a functional group and to provide control information

#### Element Summary: Min/Max Ref **Element Name** ld Req Type Usage GS01 479 **Functional Identifier Code** Μ ID 2/2 Mandatory Description: Code identifying a group of application related transaction sets Code Name PO Purchase Order (850) GS02 142 **Application Sender's Code** М AN 2/15Mandatory **Description:** Code identifying party sending transmission: codes agreed to by trading partners GS03 124 **Application Receiver's Code** Μ AN 2/15 Mandatory Description: Code identifying party receiving transmission. Codes agreed to by trading partners GS04 373 Μ DT 8/8 Date Mandatory Description: Date expressed as CCYYMMDD **GS05** 337 Time M TM 4/8 Mandatory 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** М N0 1/9 Mandatory Description: Assigned number originated and maintained by the sender GS07 455 ID **Responsible Agency Code** Μ 1/2Mandatory Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard Code Name Х Accredited Standards Committee X12 **GS08** 480 1/12 Version / Release / Industry Identifier M AN Mandatory Code **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 Name Code 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

### Segment Data Example:

GS\*PO\*005103494\*078678760\*20240117\*1422\*74352\*X\*004010~





Pos: 010

Loop: N/A

Heading - Mandatory

Max: 1

Elements: 2

### ST

### **Transaction Set Header**

User Option (Usage): Mandatory

Purpose: To indicate the start of a transaction set and to assign a control number

### **Element Summary:**

<u>Ref</u>	ld	Element N	ame	Req	Type	Min/Max	<u>Usage</u>
ST01	143	Transactio	Transaction Set Identifier Code		ID	3/3	Mandatory
		Descriptio	n: Code uniquely identifying a	Transaction S	et		
		<u>Code</u>	<u>Name</u>				
		850	Purchase Order				
ST02	329	Transactio	on Set Control Number	М	AN	4/9	Mandatory
			n: Identifying control number the assigned by the original group assigned by the original				

### Segment Data Example:

ST\*850\*00000001\



User Option (Usage): Mandatory

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

#### **Element Summary:**

_	D-(				Dee	<b>T</b>	NA: /NA	
	<u>Ref</u> BEG01	<u>ld</u> 353	Element Name Transaction Se	t Durnaga Cada	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Mondotor/
	BEGUI	303		-			212	Mandatory
			-	de identifying purpose of transa	action set			
			<u>Code</u>	Name				
			00	Original				
	55000		07	Duplicate			2/2	•••
	BEG02	92	Purchase Orde		М	ID	2/2	Mandatory
			Description: Co	de specifying the type of Purch	ase Orde	er		
			<u>Code</u>	<u>Name</u>				
			BK	Blanket Order (Quantity Firm)				
			CN	Consigned Order				
			DR	Direct Ship (Vendor ships direct	ctly to cus	tomer)		
			DS	Dropship				
				Purchase Order (Procurement purchasing threshold)	instrume	nt within the	small	
				New Order				
			OS	Special Order				
			RO	Rush Order				
			SA	Stand-alone Order				
			ZZ	Mutually Defined (Indirect PO)				
	BEG03	324	Purchase Order	r Number	М	AN	1/22	Mandatory
			Description: Ide orderer/purchase	entifying number for Purchase C er	Order ass	igned by the	9	
	BEG04	328	Release Numbe	er	0	AN	1/30	Optional
				mber identifying a release agai rties involved in the transaction		chase Orde	r previously	
	BEG05	373	Date		М	DT	8/8	Mandatory
			Description: Da	te expressed as CCYYMMDD				2
	BEG06	367	Contract Numbe	ar	0	AN	1/30	Optional
			Description: Co		-		.,	- P
			•					

### Segment Data Example:

BEG\*00\*DR\*4641444015\*1503798239\*20240117~n



**Description:** Code (Standard ISO) for country in whose currency the charges are specified

#### Segment User Note:

All orders will be transmitted with a Currency Code.

When CUR01 is sent as BY (Buyer) the value of CUR02 i.e., Currency Code can be equal to the buyer currency for example CAD if Buyer is in Canada. However when CUR01 is sent as SE (Selling Party) the value of CUR02 should always be "USD". The most desired currency for transactions is USD.

### Segment Data Example:

CUR\*SE\*USD\

X12-V4010

REF





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

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User Option (Usage): Mandatory

-6

Purpose: To specify identifying information at the header level.

#### **Element Summary:**

<u>Ref</u> REF01	<u>ld</u> 128	Element Name Reference Iden	tification Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Mandatory
			de identifying an organization	al entity.	a physical l	ocation, property	
		or an individual	22 · 22 ·	<b>,</b> ,			
		Code	Name				
		AN	Associated Purchase Orders				
		BC	Buyer's Contract Number				
		СО	Customer Order Number				
		CR	Customer Reference Numb	er			
		СТ	Contract Number				
		DI	Distributor Invoice				
			Number				
		DP	Department Number				
		IA	Internal Vendor Number				
		IL	Internal Order Number				
		IT	Internal Customer Number				
		KD	Special Instructions Number				
		L1	Letters or Notes				
		PD	Promotion/Deal Number				
		PO	Purchase Order Number				
		ST	Store Number				
		SU	Special Processing Code				
			(Unique code identifying the				
			special handling				
			requirements for the claim)				
		VN	Vendor Order Number				
		VR	Vendor ID Number				
		Y9	Current Certificate Number				
		ZA	Supplier				
REF02	127	Reference Iden	tification	С	AN	1/30	Conditional

#### Segment User Example:

REF\*IA\*20008625~ REF\*IT\*4551412869~ REF\*DP\*1007107021~ REF\*CR\*0883353591~ REF\*KD\*10~

3М	Information Technology		
PER	Administrative Comm Contact	Pos: 060 Max: 3	
		Heading – Optional	
	<b>Usage):</b> Mandatory dentify a person or office to whom administrative communica	Loop: N/A Element	ts: 8

### **Element Summary:**

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<u>Ref</u> PER01	<u>ld</u> 366	<u>Element Nar</u> Contact Fun		<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Mandatory
		Description:	Code identifying the major duty of	or respon	sibility of th	e person or group	named
		<u>Code</u>	<u>Name</u>				
		BD	Buyer Name or Department				
		CN	General Contact				
		DC	Delivery Contact				
		EA	EDI Coordinator				
		OC	Order Contact				
		WH	Warehouse				
PER02	93	Name		0	AN	1/60	Optional
		Description:	Free-form name				
PER03	365	Communica	tion Number Qualifier	С	ID	2/2	Conditional
		Description:	Code identifying the type of com	municatio	on number		
		<u>Code</u> TE	<u>Name</u> Telephone				
PER04	364	Communicat	ion Number	С	AN	1/80	Conditional
		Description: when applica	Complete communications numb	per includ	ing country	or area code	
PER05	365	Communica	tion Number Qualifier	С	ID	2/2	Conditional
		Description:	Code identifying the type of com	municatio	on number		
		<u>Code</u>	<u>Name</u>				
		FX	Facsimile				
PER06	364	Communicat	ion Number	С	AN	1/80	Conditional
			Complete communications ding country or area code when				
PER07	365	Communicat	ion Number Qualifier	С	ID	2/2	Conditional
		Description:	Code identifying the type of com	municatio	on number		
		Code	<u>Name</u>				
		EM	Electronic Mail				
PER08	364	Communicat	ion Number	С	AN	1/80	Conditional
Segment I	lsor Fva	applicable	Complete communications number	r including	country or	area code when	

### Segment User Example:

PER\*BD\*Purchasing Dept\*TE\*123-456-7890\*\*\*EM\*Smith.Purchasing@company.com~ PER\*DC\*JOHN SMITH\*TE\*1234567890~

11



User Option (Usage): Optional

ЗM

Purpose: To provide data required for proper notification/determination of applicable taxes applying to the transaction or business described in the transaction

### **Element Summary:**

Ref	ld	Element Nar	ne	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TAX01	325	Tax Identific	cation Number	С	AN	1/20	Conditional
		-	Number assigned to a purchaser (bu y, etc.); often called a tax exemption n	-			
TAX02	309	Location Qu	alifier	С	ID	1/3	Conditional
		Description:	: Code identifying type of location				
		Code	Name				
		CI	City				
		SP	State/Province				
		ZZ	Mutually Defined				
TAX03	310	Location Ide	entifier	С	AN	1/30	Conditional
		Description	: Code which identifies a specific locat	tion			
TAX04	309	Location Qu	alifier	С	ID	1/2	Conditional
		Description:	: Code identifying type of location				
		<u>Code</u>	<u>Name</u>				
		SP	State/Province				
TAX05	310	Location Ide	entifier	С	AN	1/30	Conditional
		Description:	: Code which identifies a specific locat	tion			
TAX12	441	Tax Exempt	Code	0	ID	1/1	Optional
		Description:	: Code identifying exemption status fro	om sales	and use ta	х	
		Code	Name				
		1	Yes (Tax Exempt)				
		2	No (Not Tax Exempt)				
		7	Direct Pay ID				





### Segment User Example:

TAX\*86-3904752\*CI\*LONDON\*SP\*ON\*1~







Pos: 080 Max: >1 Heading - Optional Loop: N/A Elements: 2

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User Option (Usage): Mandatory

Purpose: To specify transportation instructions relating to shipment

### **Element Summary:**

Ref	ld	Element Name	<u>e</u>	Req	Type	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Met	hod of Payment	М	ID	2/2	Mandatory
		Description: (	Code identifying payment terms f	for transpo	rtation charg	ges	
		<u>Code</u>	<u>Name</u>				
		CC	Collect				
		PC	Prepaid but Charged to Cust	omer			
		PP	Prepaid (by Seller)				
		TP	Third Party Pay				
FOB02	309	Location Qua	lifier	С	ID	1/2	Conditional
		Description: (	Code identifying type of location				
		<u>Code</u>	<u>Name</u>				
		DC	Distribution Center Number				
		DE	Destination (Shipping)				
		DL	Delivery Location				
		FV	Free Alongside Vessel (Free	On Board [	F.O.B.]		
			Point)				
		OR	Origin (Shipping Point)				
		SN	Store Number				
		WH	Warehouse				
		ZZ	Mutually Defined				

### Segment User Example:

FOB\*CC\*OA ~





SAC

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# Service, Promotion, Allowance, or Charge Information

Pos: 120		Max: 1
Loop: N/A	 -	Elements: 6

User Option (Usage): Optional

**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

### **Element Summary:**

<u>Ref</u> SAC01	<u>ld</u> 248	<u>Element Name</u> Allowance or Charge Indicator	<u>Req</u> M	Type ID	<u>Min/Max</u> 1/1	<u>Usage</u> Mandatory
OACOT	240	<b>Description:</b> Code indicating an allowance of			., .	Mandatory
		Code     Name       A     Allowance       C     Charge       N     No Allowance or Charge				
		P Promotion				
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the agency as	C signing th	ID e code val	4/4 ues	Conditional
		CodeNameA206Assigned by Buyer or BuyerD240FreightD500HandlingE740New Store AllowanceE760New Warehouse DiscountF050Other (see related descriptionF780Proforma InvoiceF800Promotional AllowanceH151Special ServicesH730Tax – Local Sales Tax (all a authorities below the State In	on) pplicable	sales taxes	s by taxing	
SAC03	559	Agency Identifier Code	С	ID	2/2	Conditional
SAC04	1301	Description: Code identifying the agency as Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identi	Ċ	AN	1/10	Conditional
SAC05	610	allowance, or charge Amount Description: Code identifying the agency as	O signing th	N2 e code val	1/15 ues	Optional
SAC15	352	CodeName02Off InvoiceDescription	М	ID	1/1	Mandatory
SAC15	002	<b>Description:</b> A free-form description to clarif content			., .	Mandatory

### Segment User Example:

15



Information Technology



### Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: 1
Headin	g - Optional
Loop: N/A	Elements: 15

User Option (Usage): Optional

Purpose: To specify terms of sale

### **Element Summary:**

Dof	. ر	Element Neme		Dee	Turne	Min/Max	Llagge
<u>Ref</u> ITD01	<u>ld</u> 336	<u>Element Name</u> Terms Type Code		Req O	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Optional
11B01	000		entifying type of payment	Ŭ			optional
		Code	Name	terms			
		05	Discount Not Applicable				
		08	Basic Discount Offered				
		41	Letter of Credit				
ITD02	333	Terms Basis Date C		0	ID	1/2	Optional
11D02	333			-	U	1/2	Optional
			entifying type of payment	lenns			
		<u>Code</u>	<u>Name</u>				
		1	Ship Date				
		2	Delivery Date				
		3	Invoice Date				
		5	Invoice Receipt Date				
		12	Approval of Sample Date				
		15	Receipt of Goods	•	_	4.10	
ITD03	338	Terms Discount Per		0	R	1/6	Optional
			discount percentage, expr e is paid on or before the				
ITD04	370	Terms Discount Due	-	C	DT	8/8	Conditional
		<b>Description:</b> Date pa	yment is due if discount is	s to be ea	arned expre	essed in format	
ITD05	351	Terms Discount Day	/s Due	С	N0	1/3	Conditional
		<b>Description:</b> Number	r of days in the terms disc arned	ount peri	od by whicł	n payment is due	
ITD06	446	Terms Net Due Date		0	DT	8/8	Optional
		Description: Date wh CCYYMMDD	nen total invoice amount b	ecomes	due expres	sed in format	
ITD07	386	Terms Net Days		0	N0	1/3	Optional
		<b>Description:</b> Number applicable)	r of days until total invoice	amount	is due (disc	count not	
		Description: Amount	of invoice payable expres	ssed in p	ercent		
ITD12	352	Description		0	AN	1/80	Optional
		Description: A free-fo	orm description to clarify t	he relate	d data elen	nents and their	
ITD13	765	Day of Month		С	N0	1/2	Conditional
			neric value of the day of t nonth being referenced X12-V4010		ı between 1	and the	

3М	31	Information Technology		1	<b>S</b>	
ITD14	107	Payment Method Code	0	ID	1/2	Optional
		Description: Code identifying type of pays	ment procedu	res		
ITD15	954	Percent	0	R	1/10	Optional
		Description: Percentage expressed as a	decimal			

### Segment User Example:

ITD\*\*\*\*\*\*\*\*Net 27 days after invoice date~



User Option (Usage): Mandatory

Purpose: To specify pertinent dates and times

### **Element Summary:**

Ref	ld	Element Nam	<u>ne</u>	Req	Туре	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qu	ualifier	Μ	ID	3/3	Mandatory
		Description:	Code specifying type of date or	time, or b	oth date ar	id time	
		Code	<u>Name</u>				
		002	Delivery Requested				
		010	Requested Ship				
		037	Ship Not Before				
		038	Ship No Later				
		061	Cancel if Not Delivered By				
		063	Do Not Deliver After				
		064	Do Not Deliver Before				
		069	Promised for Delivery				
		071	Requested for Delivery (After	or Includin	ıg)		
		073	Scheduled for Delivery (Prior	to and Incl	uding)		
		074	Requested for Delivery (Prior	to and Inc	luding)		
		075	Promised for Delivery (Prior to	o and Inclu	ding)		
DTM02	373	Date		С	DT	8/8	Conditional
		Description:	Date expressed as CCYYMMD	D			

### Segment User Example:

DTM\*002\*20230901~

Elements: 2

Loop: N/A

TD5





DD

User Option (Usage): To specify the carrier and sequence of routing and provide transit time information

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Type	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing Sequence Code	ID	1/2	Optional
		Description:Code describing the relationship of a movementCodeName11st Carrier after Origin Carrier22nd Carrier after Origin CarrierBOrigin/Delivery Carrier (Any Mode)OOrigin Carrier (Air, Motor, or Ocean)ZMutually Defined	a carrier to a spe	cific shipment	
TD502	66	Identification Code Qualifier	ID	1/2	Optional
		Description:       Code designating the system/methol         Identification       Code (67)         Code       Name         2       Standard Carrier Alpha Code (SCAC)         25       Carrier's Customer Code         92       Assigned by Buyer or Buyer's Agent	d of code structu	ire used for	
		<ul><li>93 Code assigned by the organization originating the transaction set</li><li>ZZ Mutually Defined</li></ul>			
TD503	67	Identification Code	AN	2/80	Conditional
		Description- Code identifying a party or other code	е		
TD504	91	Transportation Method/Type Code	ID	1/2	Conditional
		Description: Code specifying the method or type o	f transportation f	or the shipment	
		Code <u>Name</u>			

A	1st Carrier after Origin Carrier
AE	2nd Carrier after Origin Carrier
AF	Origin/Delivery Carrier (Any Mode)

### Information Technology

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- C Origin Carrier (Air, Motor, or Ocean)
- CE Mutually Defined
- H Customer Pickup
- J Motor
- K Backhaul
- L Contract Carrier
- LT Less Than Trailer Load
- M Motor (common carrier)
- MP Motor (package carrier)
- N Private Vessel
- SR Supplier Truck
- T Best Way (shippers option)
- TC Cab (taxi)
- U Private Parcel Service
- ZZ Mutually Defined

TD505	387	Routing	AN	1/35	Conditional
		<b>Description:</b> Free-form description of the routing or r	equested routing	for shipment,	
TD506	368	or the originating carrier's identity Shipment/Order Status Code	ID	2/2	Conditional
		<b>Description:</b> Code indicating the status of an order of any difference between the quantity ordered and the or transaction	1		
TD507	309	Location Qualifier	ID	1/2	Optional
		Description: Code identifying type of location			
TD508	310	Location Identifier	AN	1/30	Conditional
		<b>Description:</b> Code identifying type of location			

Description: Code identifying type of location

#### Segment User Example:

TD5\*B\*92\*5945\*AF\* Shortest Possible Distance\*CC\*WH\* West Side Warehouse Dock~

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20



### Pos: 285 Heading - Optional

Loop: N9

User Option (Usage): Mandatory

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

**Reference Information** 

Information Technology

### **Element Summary:**

**N9** 

<u>Ref</u>	ld	Element Name	2	Req	Type	Min/Max	<u>Usage</u>
N901	128	Reference Ide	ntification Qualifier	Μ	ID	2/3	Mandatory
		Description: C	ode qualifying the Reference lo	dentificatio	n		
		<u>Code</u>	<u>Name</u>				
		AN	Associated Purchase Orders				
		BC	Buyer's Contract Number				
		CO	Customer Order Number				
		CP	Condition of Purchase Docum	ent Numbe	er		
		CT	Contract Number				
		DI	Distributor Invoice Number				
		IA	Internal Vendor Number				
		IL	Internal Order Number				
		L1	Letters or Notes				
		PD	Promotion/Deal Number				
		PO	Purchase Order Number				
		Q1	Quote Number				
N902	127	Reference Ide	ntification	С	AN	1/30	Conditional
		•	eference information as define Reference Identification Quali	•	ticular Tra	nsaction Set or a	

#### Segment User Example:

N9\*L1\*\*REFER TO MSG SEGMENT~

Max: 1

Elements: 2



<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
MSG01	933	Free-Form Message Text	М	AN	1/264	Mandatory
		Description: To transmit large volumes of n	nessage tex	ĸt		

#### Segment User Example:

MSG\*A full statement of Company's terms and conditions is available on www.company.com and is incorporated by reference.~ MSG\*If you wish to return the merchandise, KEEP THE ORIGINAL CARTON AND CALL 1-800-123-4567 for instructions.~ MSG\*For any questions, please call 1-800-123-4567 Order Online at www.company.com~



### Segment User Example:

N1\*OB\*WW COMPANY INC~ N1\*VN\*3M OFFICE SUPPLIES OFSD~ N1\*SO\*SMITH UNIVERSITY/EPRO~



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

### **Element Summary:**

<u>Ref</u>	ld	Element Name	Req	Type	Min/Max	<u>Usage</u>
N201	93	Name	Μ	ID	1/60	Mandatory
		Description: Free-form name				
N202	93	Name	0	AN	1/60	Optional
		Description: Free-form name				

### Segment User Example:

N2\*3101/JOHN SMITH 1234567890~

Max: 2

Elements: 2

DD

**Heading - Optional** 

Loop: N1



### N3

### **Address Information**

Information Technology

User Option (Usage): Mandatory

Purpose: To specify the location of the named party

**Element Summary:** 

<u>Ref</u> N301	<u>ld</u> 166	Element Name Address Information	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 1/55	<u>Usage</u> Mandatory
N302	166	Description: Address information Address Information	0	AN	1/55	Optional
11302	100	Description: Address information	0	AN	1/55	Optional

### Segment User Example:

N3\*1234 SOUTH WAY~

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



### N4

### **Geographic Location**

Information

Technology

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

User Option (Usage): Mandatory

Purpose: To specify the geographic place of the named party

### **Element Summary:**

Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Mandatory
		Description: Free-form text for city name				
N402	156	State or Province Code	0	ID	0/3	Optional
		Description: Code (Standard State/Province) as d	efined by	appropria	te government a	agency
N403	116	Postal Code	0	ID	0/15	Optional
		<b>Description:</b> Code defining international postal zon and blanks (zip code for United States)	ne code e	excluding p	ounctuation	
N404	26	Country Code	0	ID	2/3	Optional
		Description: Code identifying the country				

### Segment User Example:

N4\*city\*province\*zip\*country\ N4\*RED WING\*MN\*55066\*US~





### REF

### **Reference Identification**

Pos: 350 Max: 12 Heading - Optional Loop: N1 Elements:2

User Option (Usage): Optional

**Purpose:** To specify identifying information.

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name		Req	Type	Min/Max	Usage
REF01	128		ntification Qualifier	М	ID	2/2	Mandatory
		Description: C	ode identifying an organization	al entity,	a physical lo	cation, property	
		or an individual					
		<u>Code</u>	Name				
		AN	Associated Purchase Orders				
		BC	Buyer's Contract Number				
		CO	Customer Order Number				
		CR	Customer Reference Numbe	r			
		CT	Contract Number				
		DI	Distributor Invoice Number				
		DP	Department Number				
		IA	Internal Vendor Number				
		IL	Internal Order Number				
		IT	Internal Customer Number				
		KD	Special Instructions Number				
		L1	Letters or Notes				
		PD	Promotion/Deal Number				
		PO	Purchase Order Number				
		ST	Store Number				
			Special Processing Code (Ur	niaue cod	e identifvind		
		SU	the special handling requirem				
		VN	Vendor Order Number		,		
		VR	Vendor ID Number				
		Y9	Current Certificate Number				
		ZĂ	Supplier				
REF02	127	Reference Ider	tification	С	AN	1/9	Conditional

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

### Segment User Example:

REF\*IA\*20008625~ REF\*IT\*4551412869~ REF\*DP\*1007107021~ REF\*CR\*0883353591~ REF\*KD\*10~ Information Technology



### Administrative Communications Contact

Pos: 360 Max: >1 Heading - Optional Loop: N1 Elements: 8

User Option (Usage): Optional

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

### **Element Summary:**

<u>Ref</u> PER01	<u>ld</u> 366	<u>Element Na</u> Contact Fui		<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Mandatory			
		Description	: Code identifying the major duty of	de identifying the major duty or responsibility of the person or group named						
		<u>Code</u>	<u>Name</u>							
		BD	Buyer Name or Department							
		CN	General Contact							
		DC	Delivery Contact							
		EA	EDI Coordinator							
		OC	Order Contact							
		WH	Warehouse							
PER02	93	Name		0	AN	1/60	Optional			
		Description	: Free-form name							
PER03	365	Communica	ation Number Qualifier	С	ID	2/2	Conditional			
		Description	Description: Code identifying the type of communication number							
		<u>Code</u>	Name							
		TE	Telephone							
PER04	364	Communica	tion Number	С	AN	1/80	Conditional			
		Description when applica	: Complete communications numb able	per includ	ing country	or area code				
PER05	365	Communica	ation Number Qualifier	С	ID	2/2	Conditional			
		Description	: Code identifying the type of com	municatio	on number					
		<u>Code</u>	<u>Name</u>							
		FX	Facsimile							
PER06	364	Communica	tion Number	С	AN	1/80	Conditional			
			: Complete communications iding country or area code when							
PER07	365	Communica	tion Number Qualifier	С	ID	2/2	Conditional			
		Description	: Code identifying the type of com	municatio	on number					
		Code	Name							
		EM	Electronic Mail							
PER08	364	Communica	tion Number	С	AN	1/80	Conditional			
		<b>Description</b> : applicable	Complete communications number	r including	g country or	area code when				

### Segment User Example:

PER\*BD\*Purchasing Dept\*TE\*123-456-7890\*\*\*EM\*Smith.Purchasing@company.com~ PER\*DI\*JOHN SMITH\*TE\*1234567890~ 28



PO107	234	Product/Service ID	С	AN	1/48	Conditional
		Description: Identifying number for a product or se	ervice			
		Element User Note: This will be the item code sen	t in the co	orresponding	g item code in t	the purchase order
PO108	235	Product/Service ID Qualifier	С	ID	2/2	Conditional

PO109

PO110

PO111

PO112

Information
Technology



	Refer to 00	on: Code identifying the type/source 04010 Data Element Dictionary for Jser Note: This will be the item qua	acceptable coc	de values				
	Code	Name						
	BP	Buyer Part Number						
	UK	U.P.C./EAN Shipping Containe	er Code (1-2-5-5	i-1				
	UP	U.P.C. Consumer Package Co	de (1-5-5-1)					
	VP	Vendor's (Seller's) Part Numbe	r					
234	Product/S		C	AN	1/48	Conditional		
		on: Identifying number for a produc Jser Note: This will be the item code		rresponding	g item code in t	he purchase order		
235	Product/S	ervice ID Qualifier	С	ID	2/2	Conditional		
	Refer to 00	<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values						
	Element U	<b>Jser Note:</b> This will be the item qua	lifier sent in the	correspond	ding item qualif	ier in the purchase		
	BP	Buyer Part Number						
	UK	U.P.C./EAN Shipping Containe	er Code (1-2-5-5	5-1				
	UP	U.P.C. Consumer Package Co	de (1-5-5-1)					
	VP	Vendor's (Seller's) Part Numbe	r					
234	Product/S	ervice ID	с	AN	1/48	Conditional		
		on: Identifying number for a produc Iser Note: This will be the item code		prresponding	g item code in t	he purchase order		
235	Product/S	ervice ID Qualifier	С	ID	2/2	Conditional		
	<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (2 Refer to 004010 Data Element Dictionary for acceptable code values <b>Element User Note:</b> This will be the item qualifier sent in the corresponding item qualifier in the purchas order.							
	BP	Buyer Part Number						
	UK	U.P.C./EAN Shipping Containe	er Code (1-2-5-5	i-1				
	UP	U.P.C. Consumer Package Co	de (1-5-5-1)					
	VP	Vendor's (Seller's) Part Numbe	r					



### Segment User Example:

PO1\*00001\*1EA\*145.8\*\*CB\*470W42\*VN\*1161223\*\*\*PL\*000001\*\*\*MG\*1161223

## CTP Pricing Information

Pos: 040 Max: >1 Detail - Optional Loop: PO1 Elements: 6

User Option (Usage): Optional

Purpose: To specify pricing information

### **Element Summary:**

Ref	<u>ld</u>	Element Na	me	Req	<u>Type</u>	<u>Min/Max</u>	Usage
CTP02	236	Price Identif	ier Code	С	ID	3/3	Conditional
		Description	: Code identifying pricing specification				
		<u>Code</u>	Name				
		NET	Net Item Price				
		PRP	Promotional Price				
		UCP	Unit Cost Price				
CTP03	212	Unit Price		С	R	1/17	Conditional
		Description	Price per unit of product, service, cor	nmodity, e	etc.		
CTP04	380	Quantity		С	R	1/15	Conditional
		Description	: Numeric value of quantity				
CTP05	C001	Composite	Unit of Measure	Μ			
		Description	: To identify a composite unit of measure	ure			
C00101	355	Unit or Basi	s for Measurement Code	М	ID	2/2	Mandatory
		-	Code specifying the units in which a which a measurement has been take		eing expre	essed,	
		All valid X12	codes used.				
CTP07	649	Multiplier		С	R	1/10	Conditional
		Description	: Value to be used as a multiplier to ol	btain a ne	w value		

### Segment User Example:



### PID

### **Product/Item Description**

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

User Option (Usage): Optional

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

Information

Technology

### **Element Summary:**

Ref	ld	Element Nam	<u>e</u>	Req	Type	Min/Max	<u>Usage</u>
PID01	349	Item Descript	tion Type	М	ID	1/1	Mandatory
		Description:	Code indicating the format o	f a descriptior	ı		
		<u>Code</u>	<u>Name</u>				
		F	Free-form				
PID05	352	Description		С	AN	1/80	Conditional
		Description: content	A free-form description to cla	arify the relate	d data elen	nents and their	

### Segment User Example:

PID\*F\*\*\*\*Full Body Harness,Protecta,S~



User Option (Usage): Optional

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

#### **Element Summary:**

<u>Ref</u> SAC01	<u>ld</u> 248	Element Name         Allowance or Charge Indicator         Description: Code indicating an allowance         Code       Name         A       Allowance         Code       Charge	Req M or charge f	Type ID for the servi	Min/Max 1/1 ice specified	<u>Usage</u> Mandatory
		C Charge N No Allowance or Charge				
SAC02	1300	P Promotion Service, Promotion, Allowance, or Charge Code Description: Code identifying the agency a	C Issigning th	ID e code valu	4/4 Jes	Conditional
		CodeNameA206Assigned by Buyer or BuyerD240FreightD500HandlingE740New Store AllowanceE760New Warehouse DiscountF050Other (see related descriptF780Proforma InvoiceF800Promotional AllowanceH151Special ServicesH730Tax – Local Sales Tax (all authorities below the State	er's Agent tion) applicable			
SAC03	559	Agency Identifier Code	C	ID	2/2	Conditional
SAC04	1301	Description: Code identifying the agency a Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code iden allowance, or charge	C	AN	1/10	Conditional
SAC05	610	Amount Description: Code identifying the agency a 02 Off Invoice	O ssigning th	N2 e code valu	1/15 les	Optional
SAC15	352	Description Description: A free-form description to clar content	C ify the relat	ID ted data ele	1/1 ements and thei	Conditional r

### Segment User Example:

SAC\*A\*F050\*ZZ\*ZZ\*\*1\*.9\*\*\*\*01\*\*\*OTHER~





Pos: 250 Max: 12 Detail - Optional Loop: PO1 Elements: 8

DD

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User Option (Usage): To specify the carrier and sequence of routing and provide transit time information

### **Element Summary:**

Ref	<u>ld</u>	Element N	Name	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing S	Sequence Code	ID	1/2	Optional
		-	on: Code describing the relationship of a c	arrier to a spe	cific shipment	
		Code	Name			
		1	1st Carrier after Origin Carrier			
		2	2nd Carrier after Origin Carrier			
		В	Origin/Delivery Carrier (Any Mode)			
		0	Origin Carrier (Air, Motor, or Ocean)			
		Z	Mutually Defined			
TD502	66	Identifica	tion Code Qualifier	ID	1/2	Optional
			on: Code designating the system/method c ion Code (67)	of code structu	re used for	
			Name			
		2	Standard Carrier Alpha Code (SCAC)			
		25	Carrier's Customer Code			
		92	Assigned by Buyer or Buyer's			
		-	Agent			
		93	Code assigned by the organization			
			originating the transaction set			
		ZZ	Mutually Defined			
TD503	67	Identification	n Code	AN	2/80	Conditional
		Description-	Code identifying a party or other code			
TD504	91	Transportat	tion Method/Type Code	ID	1/2	Conditional
		Descriptio	on: Code specifying the method or type of	transportation	for the shipment	
		Code	Name			
		A	1st Carrier after Origin Carrier			
		<u>۸</u> ۲	Orad Convious officer Original Convious			

AF Origin/Delivery Carrier (Any Mode)

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### Information Technology

С	Origin Carrier (Air, Motor, or Ocean)
CE	Mutually Defined
н	Customer Pickup
J	Motor
К	Backhaul
L	Contract Carrier
LT	Less Than Trailer Load
Μ	Motor (common carrier)
MP	Motor (package carrier)
Ν	Private Vessel
SR	Supplier Truck
Т	Best Way (shippers option)
тс	Cab (taxi)
U	Private Parcel Service
ZZ	Mutually Defined

TD505	387	Routing	AN	1/35	Conditional
		<b>Description:</b> Free-form description of the routing or or the originating carrier's identity	r requested rout	ing for shipmen	t,
TD506	368	Shipment/Order Status Code	ID	2/2	Conditional
		<b>Description:</b> Code indicating the status of an order of any difference between the quantity ordered and item or transaction	1		
TD507	309	Location Qualifier	ID	1/2	Optional
		Description: Code identifying type of location			
TD508	310	Location Identifier	AN	1/30	Conditional
		Description: Code identifying type of location			

Description: Code identifying type of location

### Segment User Example:

TD5\*B\*92\*5458\*AF\*Shortest Possible Distance\*CC\*WH\*West Side Warehouse Dock 3~

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### SCH Line Item Schedule

Pos: 295 Max: 1 Detail - Optional Loop: SCH Elements: 4

User Option (Usage): Optional

Purpose: To specify data for scheduling a specific line-item

#### **Element Summary:**

<u>Ref</u>	<u>ld</u>	<u>Element</u> Name		Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SCH01	380	Quantity		М	R	1/15	Mandatory
		Descriptior	: Numeric value of quantity				
SCH02	355	Unit or Bas	is for Measurement Code	М	ID	2/2	Mandatory
		manner in w	<ul> <li>Code specifying the units in whether the specifying the units in whether the specify the specified of the specif</li></ul>		e is being e	xpressed, or	
SCH05	374	Date/Time	Qualifier	М	ID	3/3	Mandatory
		Descriptior	: Code specifying type of date o	r time, or b	oth date an	d time	
		<u>Code</u> 002 010 037	<u>Name</u> Delivery Requested Requested Ship Ship Not Before				
SCH06	373	Date		М	DT	8/8	Mandatory
		Descriptior	: Date expressed as CCYYMME	D			

### Segment User Note:

The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.

### Segment User Example:

SCH\*10\*EA\*\*\*010\*20240122~



# CTT

### **Transaction Totals**

Information

Technology

User Option (Usage): Mandatory

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

### **Element Summary:**

Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	М	N0	1/6	Mandatory
		Description: Total number of line items in the	he transact	ion set		
CTT02	354	Number of Line Items	0	R	1/10	Optional
		<b>Description:</b> 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 hashed18 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.				

### Segment User Note:

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.

### Segment User Example:

CTT\*1\

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

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# SE Transaction Set Trailer

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

User Option (Usage): Mandatory

Information

Technology

**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>	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	М	N0	1/10	Mandatory
		<b>Description:</b> Total number of segments incluand SE segments	uded in a ti	ransaction s	et including ST	
SE02	329	Transaction Set Control Number	Μ	AN	4/9	Mandatory
		<b>Description:</b> Identifying control number that set functional group assigned by the originate				

### Segment User Example:

SE\*15\*00000001\



# **GE** Functional Group Trailer

Pos: 031 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

DD

User Option (Usage): Mandatory

Purpose: To indicate the end of a functional group and to provide control information

### **Element Summary:**

<u>Ref</u>	ld	Element Name	Req	Type	Min/Max	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	М	NO	1/6	Mandatory
		<b>Description:</b> Total number of transaction sets include (transmission) group terminated by the trailer contain			or interchange	
GE02	28	Group Control Number	М	N0	1/9	Mandatory
		Description: Assigned number originated and mainta	ained by the s	ender		

### Segment User Example:

GE\*6\*74352~



# IEA Interchange Control

Pos: 032	Max: 1
Heading -	
Loop: N/A	Elements:

User Option (Usage): Mandatory

**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments

### **Element Summary:**

<u>Ref</u>	ld	Element Name	Req	Type	Min/Max	<u>Usage</u>
IEA01	l16	Number of Included Functional Groups	М	N0	1/5	Mandatory
		Description: A count of the number of function	onal group	s included i	n an interchange	
IEA02	l12	Interchange Control Number	М	N0	9/9	Mandatory
		Description: A control number assigned by the interchange sender				

#### Segment User Example:

IEA\*1\*00000001\

### Transaction Example for Standard PO:

ISA\*00\* \*00\* \*ZZ\*SENDERID \*ZZ\*RECEIVERID

\*150217\*1316\*U\*00401\*000185215\*0\*P\*\*~

GS\*PO\*SENDERID\*RECEIVERID\*CCYYMMDD\*HHMM\*123\*X\*004010~

ST\*850\*45699~

BEG\*00\*KN\*PONUMBER\*\*CCYYMMDD\*~

CUR\*BY\*CAD~

REF\*ST\*12560~

REF\*PD\*2641~

PER\*BD\*Customer Buyer Name\*TE\*(123) 456-7890 Ext 123\*FX\*(123) 198-7654\*EM\*customer@companyname.com~

TAX\*86-3904752\*CI\*LONDON\*SP\*ON\*1~

FOB\*PP\*ZZ\*DESTINATION\*01\*DDP~

CSH\*SC

SAC\*A\*F050\*ZZ\*ZZ\*\*1\*.9\*\*\*\*\*01\*\*\*OTHER~

ITD\*05\*3\*\*\*\*60\*\*\*\*\*Net 60 Days\*0~

DTM\*002\*20240301~ N9\*KZ\*PO Terms and Conditions~

MSG\*For PO terms and conditions and MSDS treatment see www.3M.ca~

N9\*Q1\*518654~

MSG\*Quote Approved on 02-25-2024~

N1\*VN\*SUPPLIER\*92\*0001234567~

N3\*456 VENDOR ROAD ~

N4\*ANYTOWN\*ON\*A1A 1A1\*CA~

N1\*ST\*Contract Distributor\*92\*20001000~

N3\*60 CALIFORNIA AVENUE, BLDG # 501~

N4\*BROCKVILLE\*ON\*K6V 5W1\*CA\*34\*Company~

REF\*VN\*541214~

N1\*SO\*SUPPLIER\*92\*0001234567~

N3\*456 VENDOR ROAD~

N4\*ANYTOWN\*ON\*A1A 1A1\*CA~

N1\*BT\*3M CANADA COMPANY~

N3\*P.O. BOX 5840~

N4\*LONDON\*ON\*N6A 5S2\*CA~

PO1\*00010\*2280\*EA\*\*\*BP\*7000123456\*VP\*EX988955444~

CTP\*\*UCP\*155.57\*2280\*EA~

PID\*F\*\*\*\*ITEM DESCRIPTION~

SCH\*2280\*EA\*\*\*002\*20240122~ CTT\*1~

SE\*41\*45699~

GE\*1\*123~

IEA\*1\*000185214~