

# X12 Specification Infor Supplier Exchange

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## 810 Infor Supplier Exchange – Generic Invoice / Version 004010

# Functional Group ID=

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) 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 billing for goods and services provided.

#### Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
	040	CUR	Currency	М	1		
	050	REF	Reference Identification	0	12		
			LOOP ID - N1			200	
	070	N1	Name	M	1		
	090	N3	Address Information	0	2		
	100	N4	Geographic Location	Ο	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	0	>1		

#### Detail:

Pos. No.	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes and Repeat Comments	
		LOOP ID - IT1		200000
010	IT1	Baseline Item Data (Invoice)	O 1	
040	TXI	Tax Information	O 1	
		LOOP ID - SAC		25
180	SAC	Service, Promotion, Allowance, or Charge Information	O 1	

Summary:

Pos.	Seg.		Req.	Loop	Notes a	nd
No.	ID	Name	Des.	Max.Use	Repeat	Comments

M	010	TDS	Total Monetary Value Summary	M	1			
	020	TXI	Tax Information	0	1			
	030	CAD	Carrier Detail	0	1			
			LOOP ID - SAC			25		
	040	SAC	Service, Promotion, Allowance, or Charge Information	0	1			
	070	CTT	Transaction Totals	0	1		n1	
M	080	SE	Transaction Set Trailer	M	1			

#### **Transaction Set Notes**

Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use:

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

**Syntax Notes:** 

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

Comments:

**Data Element Summary** 

	Des. Eler	nent	Name Attributes		
M	ST01	143	Transaction Set Identifier Code	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			Refer to 004010 Data Element Dictionary for acceptable	ole cod	de values.
M	ST02	329	Transaction Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: **BIG** Beginning Segment for Invoice

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying

numbers and dates

Syntax Notes:

**Semantic Notes:** 1 BIG01 is the invoice issue date.

**Data Element Summary** 

	Ref. Data Des. Elem		Name Attributes		
M	BIG01	373	Invoice Date	M	DT 8/8
			Date expressed as CCYYMMDD		
M	BIG02	76	Invoice Number	M	AN 1/22

Identifying number assigned by issuer

Segment: CUR Currency

Position: 040

Loop:

Level: Heading Usage: Optional Max Use: 1

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

**Data Element Summary** 

Ref. Data

<u>Des.</u> <u>Element</u> <u>Name</u> <u>Attributes</u>

M CUR01 98 Entity Identifier Code M ID 2/3

Code identifying an organizational entity, a physical location, property or

an individual

BY Buying Party (Purchaser)

M CUR02 100 Currency Code

M ID 3/3

Code (Standard ISO) for country in whose currency the charges are

specified

Segment: REF Reference Identification

Position: 050

Loop:

Level: Heading Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

O REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

BM Bill of Lading Number

SI Shipper's Identifying Number for Shipment (SID)

A unique number (to the shipper) assigned by the shipper to identify the shipment

REF02 127 **Reference Identification**  X AN 1/30

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

AN 1/80

Segment: N1 Name

Position: 070

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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

**Comments:** 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.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M N101 98 Entity Identifier Code M ID 2/3

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

BT Bill-to-Party

MI Material Issuer (Facility ID)

RI Remit To

SF Ship From

ST Ship To

SU Supplier/Manufacturer

N104 67 Identification Code X AN 2/80

Code identifying a party or other code

Segment: N3 Address Information

Position: 090

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

O N301 166 Address Information M AN 1/55

Address information

N302 166 Address Information O AN 1/55

Address information

Segment: N4 Geographic Location

Position: 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

**Purpose:** To specify the geographic place of the named party

Syntax Notes: If N406 is present, then N405 is required.

Semantic Notes:

Comments: A combination of either N401 through N404, or N405 and N406 may be adequate

to specify a location.

#### **Data Element Summary**

Ref.	Data		Data Elomont Gammary		
Des.	Eleme	<u>nt</u>	Name Attributes		
N40	)1	19	City Name	0	AN 2/30
			Free-form text for city name		
N40	)2	156	State or Province Code	0	ID 2/2
			Code (Standard State/Province) as defined by appropriagency	ate g	overnment
N40	03	116	Postal Code	0	ID 3/15
			Code defining international postal zone code excluding blanks (zip code for United States)	punc	tuation and
N40	)4	26	Country Code	0	ID 2/3
			Code identifying the country		

Segment: ITD Terms of Sale/Deferred Terms of Sale

Position: 130 Usage: Optional Max Use: >1

**Purpose:** To specify terms of sale

**Data Element Summary** 

Ref. Data Des. **Element** Name Attributes ITD01 336 **Terms Type Code** 0 ID 2/2 Code identifying type of payment terms (NOT USED) 08 - Basic Discount ITD03 338 **Terms Discount Percent** R 1/6 0

Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

#### ITD05 351 Terms Discount Days Due

O N0 1/3

Number of days in the terms discount period by which payment is due if terms discount is earned

#### ITD07 386 Terms Net Days

O N0 1/3

Number of days until total invoice amount is due (discount not applicable)

Segment: **IT1** Baseline Item Data (Invoice)

Position: 010

Loop: IT1 Level: Detail Usage: Mandatory Max Use: >1

**Purpose:** To specify the basic and most frequently used line item data for the invoice and

related transactions

TOTALOG LIGHTOGOLIOTTO	
Syntax Notes: 1	If any of IT102 IT103 or IT104 is present, then all are required.
2	If either IT106 or IT107 is present, then the other is required.
3	If either IT108 or IT109 is present, then the other is required.
4	If either IT110 or IT111 is present, then the other is required.
5	If either IT112 or IT113 is present, then the other is required.
6	If either IT114 or IT115 is present, then the other is required.
7	If either IT116 or IT117 is present, then the other is required.
8	If either IT118 or IT119 is present, then the other is required.
9	If either IT120 or IT121 is present, then the other is required.
10	If either IT122 or IT123 is present, then the other is required.
11	If either IT124 or IT125 is present, then the other is required.

**Semantic Notes:** 1 IT101 is the purchase order line item identification.

2 IT106 through IT125 provide for ten different product/service IDs for each item.

For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

#### **Data Element Summary**

Product/Service ID (234)

Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes				
IT1	01	350	Assigned Identification	0	AN 1/20		
			Alphanumeric characters assigned for differentiation wit set	:hin a	transaction		
IT1	02	358	Quantity Invoiced	X	R 1/10		
			Number of units invoiced (supplier units)				
IT1	03	355	Unit or Basis for Measurement Code	X	ID 2/2		
			Code specifying the units in which a value is being expressed, in which a measurement has been taken				
			Refer to 004010 Data Element Dictionary for acceptable	e cod	e values.		
IT1	04	212	Unit Price	X	R 1/17		
			Price per unit of product, service, commodity, etc.				
IT1	06	235	Product/Service ID Qualifier	X	ID 2/2		
			Code identifying the type/source of the descriptive number	ber us	sed in		

		BP	Buyer's Part Number		
		PL	Purchase Order Line Number		
		PO	Purchase Order Number		
		VP	Vendor's (Seller's) Part Number		
IT107	234	Product/Service	ID	X	AN 1/50
		Identifying number	er for a product or service		
IT108	235	Product/Service	ID Qualifier	X	ID 2/2
		Code identifying t Product/Service I	he type/source of the descriptive nun D (234)	nber u	used in
		BP	Buyer's Part Number		
		PL	Purchase Order Line Number		
		PO	Purchase Order Number		
		VP	Vendor's (Seller's) Part Number		
IT109	234	Product/Service	ID	X	AN 1/50
		Identifying number	er for a product or service		
IT110	235	Product/Service	ID Qualifier	X	ID 2/2
		Code identifying t Product/Service I	he type/source of the descriptive nun D (234)	nber u	used in
		BP	Buyer's Part Number		
		PL	Purchase Order Line Number		
		PO	Purchase Order Number		
		VP	Vendor's (Seller's) Part Number		
IT111	234	Product/Service	ID	X	AN 1/50
		Identifying number	er for a product or service		
IT112	235	Product/Service	ID Qualifier	X	ID 2/2
		Code identifying t Product/Service I	he type/source of the descriptive nun D (234)	nber u	used in
		BP	Buyer's Part Number		

		PL	Purchase Order Line Number		
		PO	Purchase Order Number		
		VP	Vendor's (Seller's) Part Number		
IT113	234	Product/Service	ID	X	AN 1/50
		Identifying number	er for a product or service		
IT114	235	Product/Service	ID Qualifier	X	ID 2/2
		Code identifying Product/Service I	the type/source of the descriptive nun D (234)	nber (	used in
		BP	Buyer's Part Number		
		PL	Purchase Order Line Number		
		РО	Purchase Order Number		
		VP	Vendor's (Seller's) Part Number		
IT115	234	Product/Service	ID	X	AN 1/50
		Identifying number	er for a product or service		

Segment: TXI Total Monetary Value for Line Item

Position: 040

Loop:

Level: Detail Usage: Optional

Max Use:

**Purpose:** To specify tax information for a line item

**Syntax Notes:** 

**Data Element Summary** 

	Ref.	Data		Data Elomont Sammary				
Des. Element		<u>ent</u>	Name Attributes					
0	TXI	01	963	Tax Type Code	M	ID 2/2		
				To specify tax information				
				Code Name				
				GS - Goods and Services Tax				
				LS - State and Local Sales Tax				
				TX - All Taxes				
	TXI	02	782	Taxable Amount	Χ	R 1/15		
				Monetary amount				
	TXI	03	954	Tax Rate Percent	Χ	R 1/10		
				Monetary amount				
	TXI	09	325	Tax Identification Number	0	AN 1/20		
				Monetary amount				

Segment: SAC Service, Promotion, Allowance, or Charge Information

Position: 180

Loop: SAC Optional

Level: Detail Usage: Optional

Max Use:

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

amount or percentage for the service, promotion, allowance, or charge

Syntax Notes: 1 SAC02 is required.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

0	SAC01	248	Allowance or Charge Indicator		M	ID 1/1
			Code which indicates an allowance or charge for the		ervice	e specified
			А	Allowance		
			С	Charge		
	SAC02	1300	Service, Promot	ion, Allowance, or Charge Code	Χ	ID 4/4
			Code identifying	Code identifying the surcharge		
			H550	Surcharge		
	SAC03	1300	Service, Promot	ion, Allowance, or Charge Code	Χ	ID 1/6
			Customer Interna	al Code identifying the surcharge		
	SAC05	610	Surcharge Amo	unt	0	N2 1/15
			Monetary amoun	t		
	SAC15	352	Surcharge Com	ment/Description	Χ	AN 1/80
			A free-form description to clarify the related data elements and the content			and their

Segment: TDS Total Monetary Value Summary

Position: 010

Loop:

Level: Summary Usage: Mandatory

Max Use:

**Purpose:** To specify the total invoice discounts and amounts

**Syntax Notes:** 

**Comments:** This segment is not used, but it is required to signify the start of the summary

segments.

**Data Element Summary** 

Ref. Data

<u>Des.</u> <u>Element</u> <u>Name</u> <u>Attributes</u>

M TDS01 610 Amount M N2 1/15

Monetary amount

TDS02 610 Amount O N2 1/15

Monetary amount

Segment: **TXI** Total Monetary Value Summary

Position: 010

Loop:

Level: Summary Usage: Optional

Max Use:

**Purpose:** To specify tax information

**Syntax Notes:** 

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

O TXI01 963 Tax Type Code M ID 2/2

To specify tax information

**Code Name** 

GS - Goods and Services Tax LS - State and Local Sales Tax

TX - All Taxes

TXI02	782	Taxable Amount	Χ	R 1/15
		Monetary amount		
TXI03	954	Tax Rate Percent	X	R 1/10
		Monetary amount		
TXI09	325	Tax Identification Number	0	AN 1/20
		Monetary amount		

Segment: CAD Carrier Detail

Position: 010

Loop:

Level: Summary Usage: Optional

Max Use:

**Purpose:** To specify transportation details for the transaction

**Syntax Notes:** 

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

O CAD01 91 Transportation Method/Type Code M ID 1/2

CAD03 207 Freight Carrier Number O AN 1/10

Segment: SAC Service, Promotion, Allowance, or Charge Information

**Position:** 040 **Loop:** SAC Optional

Level: Summary Usage: Optional Max Use: 1

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

amount or percentage for the service, promotion, allowance, or charge

Syntax Notes: 1 SAC02 is required.

**Data Element Summary** 

			Data Licincii	. Odminiar y		
	Ref. Dat <u>Des.</u> <u>Ele</u>	ta ment	Name Attribute	<u>s</u>		
0	SAC01	248	Allowance or C	harge Indicator	M	ID 1/1
			Code which indic	cates an allowance or charge for the s	service	specified
			А	Allowance		
			С	Charge		
	SAC02	1300	Service, Promo	tion, Allowance, or Charge Code	X	ID 4/4
			Code identifying	the surcharge		
			H550	Surcharge		
	SAC05	610	Surcharge Amo	punt	0	N2 1/15

### Monetary amount

## SAC15 352 Surcharge Comment/Description X AN 1/80

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

Segment: CTT Transaction Totals

Position: 070

Loop:

Level: Summary Usage: Optional

Max Use:

Purpose: To transmit a hash total for a specific element in the transaction set
 Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M CTT01 354 Number of Line Items M N0 1/6

Total number of line items in the transaction set

Segment: SE Transaction Set Trailer

Position: 080

Loop:

Level: Summary Usage: Mandatory

Max 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)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary** 

	Ref. Data	a <u>nent</u>	Name Attributes		
M	SE01	96	Number of Included Segments	M	N0 1/10
			Total number of segments included in a transaction se SE segments	t inclu	uding ST and
M	SE02	329	Transaction Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

#### **Generic Invoice Example**

```
*00*
                              *16*senderId *16*receiverId
*101207*1007*U*00401*00000002*1*P*>
GS*IN*senderId*receiverId*20101207*1007*2*X*004010
ST*810*0000001
BIG*20030721*002698
CUR*SU*USD
REF*BM*billOfLadingNo
N1*ST***ShipToId
N1*MI***FacilityId
N1*SF***ShipFromId
N1*SU***supplierId
N1*BT*BillToAddress*92
N3*123*MAINSTREET
N4*CITY*MI*12345*US
ITD*08*0.5*10*10
IT1**10*EA*30.00**BP*buyerPartNo*VP*supplierPartNo*PO*poNo*PL*poLineNo
TXI*TX*10,000.01*0.07*****TaxCodeId
SAC*C*H550*CODE1**5.55*********Comment
IT1**11*EA*2.67**BP*buyerPartNo2*VP*supplierPartNo2*PO*poNo2*PL*poLineNo2
TXI*TX*955*0.12*****TaxCodeId2
SAC*C*H550*CODE2**1.20*********Comment2
TDS*32937
TXI*TX*10955.01*1.27*****TaxCodeId3
CAD*PT*Truck-10212
SAC*C*H550*CODE3**6.75*******Summary comment
CTT*2
SE*10*000001
GE*1*2
IEA*1*000000002
```

# 824 Infor Supplier Exchange – Generic Application Advice / Version 004010

# Functional Group ID=AG

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Application Advice Transaction Set (824) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgment sent in response to a purchase order).

#### Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Loop Name Des. Max.Use	Notes and Repeat Comments	
M	010	ST	Transaction Set Header	M 1	
M	020	BGN	Beginning Segment	M 1	
			LOOP ID - N1		>1
	030	N1	Name	O 1	

#### Detail:

	Pos. No.	Seg. <u>ID</u>		otes and epeat <u>C</u>	d <u>omments</u>		
			LOOP ID - OTI			>1	
M	010	OTI	Original Transaction Identification	М	1		n1
	020	REF	Reference Identification	0	12		n2
	030	DTM	Date/Time Reference	0	2		n3
			LOOP ID - TED			>1	
	070	TED	Technical Error Description	0	1		
M	090	SE	Transaction Set Trailer	M	1		

#### **Transaction Set Notes**

1. The OTI loop is intended to provide a unique identification of the transaction set that is the subject of this application acknowledgment.

- 2. The REF segment allows for the provision of secondary reference identification or numbers required to uniquely identify the original transaction set. The primary reference identification or number should be provided in elements OTI02-03.
- 3. The DTM segment allows for the provision of date, time, or date and time information required to uniquely identify the original transaction set.

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use:

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

**Syntax Notes:** 

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

Comments:

**Data Element Summary** 

	Ref. Data <u>Des.</u> <u>Eler</u>	a <u>nent</u>	Name Attribu	<u>ites</u>		
M	ST01	143	Transaction S	Set Identifier Code	M	ID 3/3
			Code uniquely	identifying a Transaction Set		
			824	Application Advice		
M	ST02	329	Transaction S	Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: **BGN** Beginning Segment

Position: 020

Loop:

**Level:** Heading **Usage:** Mandatory **Max Use:** 1

**Purpose:** To indicate the beginning of a transaction set

**Syntax Notes: 1** If BGN05 is present, then BGN04 is required.

**Semantic Notes:** 1 BGN02 is the transaction set reference number.

BGN03 is the transaction set date.BGN04 is the transaction set time.

**4** BGN05 is the transaction set time qualifier.

**5** BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

anected by the current trans

Comments:

**Data Element Summary** 

Ref. Data

<u>Des. Element Name Attributes</u>

M BGN01 353 Transaction Set Purpose Code M ID 2/2

Code identifying purpose of transaction set

00 Original

M	BGN02	127	Reference Identification	M	AN 1/30
			Reference information as defined for a particular Trans specified by the Reference Identification Qualifier	actio	n Set or as
M	BGN03	373	Date	M	DT 8/8
			Date expressed as CCYYMMDD		
	BGN04	337	Time	X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMMSS, where H= hours (00-23), M= minutes (00-59) and S= integer seconds (00-59)

Segment: N1 Name

Position: 030

**Loop:** N1 Optional

Level: Heading Usage: Optional

Max Use:

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

N105 and N106 further define the type of entity in N101.

#### **Data Element Summary**

	Ref. Data		Name Attribute	es_		
M	N101	98	Entity Identifie	r Code	M	ID 2/3
			Code identifying an individual	g an organizational entity, a physical lo	cation	n, property or
			SF	Ship From		
			ST	Ship To		
	N102	93	Name		X	AN 1/50
			Free-form name	9		
	N103	66	Identification (	Code Qualifier	X	ID 1/2
			Code designation Identification Co	ng the system/method of code structurode (67)	e used	d for
			1	D-U-N-S Number, Dun & Bradstre	et	
			92	Assigned by Buyer or Buyer's Age	nt	
			ZZ	Mutually Defined		
	N104	67	Identification (	Code	X	AN 2/30

Code identifying a party or other code

Segment: OTI Original Transaction Identification

Position: 010

**Loop:** OTI Mandatory

Level: Detail Usage: Mandatory

Max Use:

**Purpose:** To identify the edited transaction set and the level at which the results of the edit

are reported, and to indicate the accepted, rejected, or accepted-with-change edit result

**Comments:** 1 OTI02 contains the qualifier identifying the business transaction from the

original business application, and OTI03 will contain the original business application

identification.

**Data Element Summary** 

	Ref. Des.	Data Elem	ent	<u>Name</u>	Attributes			
M	ОТ	101	110	Appli	cation Ackn	nowledgment Code	M	ID 1/2
				Code	indicating th	e application system edit results of th	e bus	siness data
				TR		Transaction Set Reject		
M	ОТ	102	128	Refer	ence Identif	fication Qualifier	M	ID 2/3
				Code				
				MA		Ship Notice/Manifest Number		
				SI		Shipper's Identifying Number for Shi	pme	nt (SID)
						A unique number (to the shipper) as shipper to identify the shipment	signe	ed by the

Reference Identification

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

Segment: REF Reference Identification

127

Position: 020

M

**Loop:** OTI Mandatory

OTI03

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.

If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

REF04 contains data relating to the value cited in REF02.

Comments:

**Data Element Summary** 

AN 1/30

		ata <u>lement</u>	Name Attributes	<u>.</u>				
M	REF01	128	Reference Identi	fication Qualifier	M	ID 2/3		
			Code qualifying th	Code qualifying the Reference Identification				
			SI	Shipper's Identifying Number for Sh	ipme	nt (SID)		
			A unique number (to the shipper) as shipper to identify the shipment		ssign	ed by the		
	REF02	2 127	Reference Identi	fication	X	AN 1/30		
				ation as defined for a particular Trans Reference Identification Qualifier	actio	n Set or as		

Segment: DTM Date/Time Reference

Position: 030

Loop: OTI Mandatory

3

**Data** 

Level: Detail Usage: Optional

Max Use: 2

**Purpose:** To specify pertinent dates and times

**Syntax Notes: 1** At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

Ref.

M

**Data Element Summary** 

Des. Element Name Attributes

DTM01 374 Date/Time Qualifier

M ID 3/3

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

009 Process

DTM02 373 Date X DT 8/8

Date expressed as CCYYMMDD

DTM03 337 Time X TM 4/8

Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59)

Segment: **TED** Technical Error Description

**Position:** 070 **Loop:** TED Optional

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To identify the error and, if feasible, the erroneous segment, or data element, or

both

Syntax Notes: Semantic Notes:

**Comments:** 1 If used, TED02 will contain a generic description of the data in error (e.g.,

part number, date, reference number, etc.).

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M TED01 647 Application Error Condition Code M ID 1/3

Code indicating application error condition

Refer to 004010 Data Element Dictionary for acceptable code values.

#### TED02 3 Free Form Message

AN 1/250

Free-form text

**SE** Transaction Set Trailer Segment:

Position: 090

Loop:

Level: Detail **Usage:** Mandatory Max Use:

To indicate the end of the transaction set and provide the count of the transmitted Purpose:

segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:** Semantic Notes:

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

#### **Data Element Summary**

		Data <u>Element</u>	Name Attributes		
M	SE01	96	Number of Included Segments	M	N0 1/10
			Total number of segments included in a transaction set SE segments	t inclu	iding ST and
M	SE02	329	Transaction Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

#### **Application Advice Example**

\* () () \* \*01\*602117442 \*01\*047695523 \*040811\*1402\*U\*00400\*000002506\*0\*P\*> GS\*AG\*602117442\*047695523\*20040811\*1402\*2507\*X\*004010 ST\*824\*1 BGN\*00\*667273\*20040811\*1402 N1\*SF\*\*92\*SCOTTSBURG N1\*ST\*\*92\*WIN OTI\*TR\*MA\*61259 REF\*SI\*61259 DTM\*009\*20040811\*1140 TED\*024\*There are no requirements available to ship for combination of part and pull signal with part number 66879 and pull signal P418351. SE\*9\*1 GE\*1\*2507 IEA\*1\*000002506

# 830 Infor Supplier Exchange – Generic Planning Schedule with Release Capability / Version 004010

Functional Group ID=PS

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Planning Schedule with Release Capability Transaction Set (830) 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 practice relative to the transfer of forecasting/material release information between organizations. The planning schedule transaction may be used in various ways or in a combination of ways, such as: (1) a simple forecast; (2) a forecast with the buyer's authorization for the seller to commit to resources, such as labor or material; (3) a forecast that is also used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets," such as weekly, monthly, or quarterly. The order release forecast may also contain all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

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	Pos. No.	Seg. <u>ID</u>	<u>Name</u>	Req. Des.		Notes a <u>Repeat</u>	nd <u>Comments</u>	
M	010	ST	Transa	ction Set	Header	M	1	
M	020	BFR	Beginni Schedu	0 0	nent for Planning	М	1	
			LOOP	ID - N1				200
	230	N1	Name			0	1	

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Detail.	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Name Des.	Loop <u>Max.Use</u>	Notes an	nd Comments		
			LOOP ID - LIN				>1	
M	010	LIN	Item Identification	on	M	1		
	020	UIT	Unit Detail		0	1		
	140	REF	Reference Iden	tification	0	12		
	150	PER	Administrative ( Contact	Communications	0	3		
	230	ATH	Resource Author	orization	0	20		
			LOOP ID - FST				>1	
	410	FST	Forecast Sched	lule	0	1		n1

		LOOP ID - SHP			25	
470	SHP	Shipped/Received Information	0	1		
480	REF	Reference Identification	0	5		

#### Summary:

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

#### **Transaction Set Notes**

- 1. At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
- 2. Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

Segment: **ST** Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

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

**Syntax Notes:** 

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

Comments:

#### **Data Element Summary**

	Ref. Data Des. Eler	a <u>nent</u>	Name Attribu	<u>ites</u>		
M	ST01	143	Transaction S	Set Identifier Code	M	ID 3/3
			Code uniquely	identifying a Transaction Set		
			830	Planning Schedule with Release	Capabi	lity
M	ST02	329	Transaction S	Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: BFR Beginning Segment for Planning Schedule

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

**Purpose:** To indicate the beginning of a planning schedule transaction set; whether a ship

or delivery based forecast; and related forecast envelope dates **Syntax Notes:** At least one of BFR02 or BFR03 is required.

**Semantic Notes:** 

- 1. If BFR01 contains the value "04" (Net Change), BFR09 is required.
- 2. BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.
- 3. BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins.
- 4. BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends.
- 5. BFR08 is the date forecast generated: The date the forecast data was generated.
- 6. BFR09 is the date forecast updated: The date the forecast was updated with "net change" data. (Used only when data element 353 in BFR01 contains the value "04", meaning net change.)

#### Comments:

	Def Dete		Data Element	Summary		
	Ref. Data Des. Elem	<u>ent</u>	Name Attributes	<u>i</u>		
M	BFR01	353	Transaction Set	Purpose Code	M	ID 2/2
			Code identifying p	ourpose of transaction set		
			00	Original		
			04	Change		
			05	Replace		
	BFR03	328	Release Number	•	X	AN 1/30
				ng a release against a Purchase Orde olved in the transaction	r prev	viously placed
M	BFR04	675	Schedule Type C	Qualifier	M	ID 2/2
				he type of dates used when defining schedule or forecast	a ship	oping or
			DL	Delivery Based		
			SH	Shipment Based		
M	BFR05	676	Schedule Quant	ity Qualifier	M	ID 1/1
			Code identifying t forecast	he type of quantities used when defir	ing a	schedule or

		A Actual Discrete Quantities		
BFR06	373	Release Date	0	DT 8/8
		Date expressed as CCYYMMDD		
		This is for the outbound 830.		
BFR08	373	Release Date	0	DT 8/8
		Date expressed as CCYYMMDD		
		This is for the inbound 830.		
BFR11	324	Purchase Order Number	0	AN 1/22
		Identifying number for Purchase Order assigned by the	orde	rer/purchaser

Segment: N1 Name

Position: 230

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

N105 and N106 further define the type of entity in N101.

## **Data Element Summary**

	Ref. Data Des. Elen	_	Name Attribute	<u>es</u>		
M	N101	98	Entity Identifier	r Code	M	ID 2/3
			Code identifying an individual	an organizational entity, a physical lo	cation	n, property or
			MI	Planning Schedule/Material Release	se Iss	uer
			ST	Ship To		
			SU	Supplier/Manufacturer		
	N102	93	Name		X	AN 1/60
			Free-form name			
	N103	66	Identification C	Code Qualifier	X	ID 1/2
			Code designatin Identification Co	ng the system/method of code structur ide (67)	e used	d for
			1	D-U-N-S Number, Dun & Bradstre	et	
			92	Assigned by Buyer or Buyer's Age	nt	
	N104	67	Identification C	Code	X	AN 2/80

Code identifying a party or other code

Segment: LIN Item Identification

Position: 010

**Loop:** LIN Mandatory

Level: Detail Usage: Mandatory

Max Use: 1

**Purpose:** To specify basic item identification data

**Syntax Notes: 1** If either LIN04 or LIN05 is present, then the other is required.

If either LIN06 or LIN07 is present, then the other is required.
If either LIN08 or LIN09 is present, then the other is required.
If either LIN10 or LIN11 is present, then the other is required.
If either LIN12 or LIN13 is present, then the other is required.

**Semantic Notes:** 1 LIN01 is the line item identification

**Comments:** 1 See the Data Dictionary for a complete list of IDs.

**2** LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

#### **Data Element Summary** Ref. Data Des. **Element** Name Attributes LIN01 350 **Assigned Identification** AN 1/20 Alphanumeric characters assigned for differentiation within a transaction **Product/Service ID Qualifier** M LIN02 235 ID 2/2 M Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buver's Part Number LIN03 234 **Product/Service ID** AN 1/48 M Buyer's Part Number LIN04 235 ID 2/2 Product/Service ID Qualifier X Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number AN 1/48 LIN05 234 **Product/Service ID** X Purchase Order Number (when applicable) LIN06 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Purchaser's Order Line Number

PL

LIN07	234	Product/Service	e ID	X	AN 1/48
		Purchase Order	Line Number (when applicable)		
LIN08	235	Product/Service	e ID Qualifier	X	ID 2/2
		Code identifying Product/Service	the type/source of the descriptive nur ID (234)	nber (	used in
		EC	Engineering Change Level		
LIN09	234	Product/Service	e ID	X	AN 1/48
		Engineering Cha	nge Level (when applicable)		
LIN10	235	Product/Service	e ID Qualifier	X	ID 2/2
		Code identifying Product/Service	the type/source of the descriptive nur ID (234)	nber (	used in
		RY	Record Keeping or Model Year		
LIN11	234	Product/Service	e ID	X	AN 1/48
		Model Year (whe	en applicable)		
LIN12	235	Product/Service	e ID Qualifier	X	ID 2/2
		Code identifying Product/Service	the type/source of the descriptive nur ID (234)	nber (	used in
		PD	Part Number Description		
LIN13	234	Product/Service	e ID	X	AN 1/48
		Buyer's Part Des	scription (when applicable)		

Segment: UIT Unit Detail

Position: 020

**Loop:** LIN Mandatory

Level: Detail Usage: Optional

Max Use:

**Purpose:** To specify item unit data

**Syntax Notes: 1** If UIT03 is present, then UIT02 is required.

Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M UIT01 C001 Composite Unit of Measure M

To identify a composite unit of measure (See Figures Appendix for

examples of use)

M C00101 355 Unit or Basis for Measurement Code M ID 2/2

Code specifying the units in which a value is being expressed, or manner

in which a measurement has been taken

EA Each

PC Piece

Segment: REF Reference Identification

Position: 140

**Loop:** LIN Mandatory

Level: Detail
Usage: Optional
Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

**Comments:** 

**Data Element Summary** 

Ref. Data
Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

# DK Dock Number

# REF02 127 Reference Identification X AN 1/30

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

Segment: PER Administrative Communications Contact

Position: 150

Loop: LIN Mandatory

Level: Detail Usage: Optional

Max Use: 3

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

directed

**Syntax Notes: 1** If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.
If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

## **Data Element Summary**

	Ref. Data		Data Element	Summary		
	Des. Elem	<u>nent</u>	Name Attributes	5		
M	PER01	366	Contact Functio	n Code	M	ID 2/2
			Code identifying named	the major duty or responsibility of the	perso	on or group
			IC	Information Contact		
	PER02	93	Name		0	AN 1/60
			Free-form name			
	PER03	365	Communication	Number Qualifier	X	ID 2/2
			Code identifying	the type of communication number		
			TE	Telephone		
	PER04	364	Communication	Number	X	AN 1/80
			Complete commu applicable	unications number including country o	r area	a code when
	PER05	365	Communication	Number Qualifier	X	ID 2/2
			Code identifying	the type of communication number		
			FX	Facsimile		
	PER06	364	Communication	Number	X	AN 1/80
			Complete Facsim applicable	nile number including country or area	code	when
	PER07	365	Communication	Number Qualifier	X	ID 2/2

Code identifying the type of communication number

EM Electronic Mail

PER08 364 Communication Number X AN 1/80

Complete Email address when applicable

Segment: ATH Resource Authorization

Position: 230

**Loop:** LIN Mandatory

Level: Detail
Usage: Optional
Max Use: 20

**Purpose:** To specify resource authorizations (i.e., finished labor, material, etc.) in the

planning schedule

**Syntax Notes: 1** At least one of ATH02 or ATH03 is required.

If ATH03 is present, then ATH05 is required.
If ATH04 is present, then ATH05 is required.

**Semantic Notes:** 1 ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.

2 ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02).

**3** ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other.

**Comments:** 1 It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.

ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.

	Def Det		Data Element	Summary		
	Ref. Dat <u>Des. Elei</u>	a ment	Name Attributes	6		
M	ATH01	672	Resource Author	orization Code	M	ID 2/2
			Code identifying to	the resource which the buyer is author	orizing	the seller to
			FI	Finished (Labor, Material, and Ove	rheac	l/Burden)
			MT	Material		
			PQ	Cumulative Quantity Required Price Period	r to F	irst Schedule
	ATH03	380	Quantity		X	R 1/15
			Numeric value of	quantity		
	ATH05	373	Date		X	DT 8/8
			Date expressed a	as CCYYMMDD		

Segment: FST Forecast Schedule

**Position:** 410 **Loop:** FST Optional

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify the forecasted dates and quantities

**Syntax Notes: 1** If either FST06 or FST07 is present, then the other is required.

If either FST08 or FST09 is present, then the other is required.

**Semantic Notes:** 1 If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval.

**Comments:** 1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly, quarterly, etc.) or the start date of a flexible interval.

**2** FST06 qualifies the time in FST07. The purpose of the FST07 element is to express the specific time of day in a 24-hour clock to satisfy "just-in-time" requirements. As an alternative, the ship/delivery pattern segment (SDP) may be used to define an approximate time, such as a.m. or p.m.

	Ref. Data		Data Eleme	nt Summary		
	Ref. Data Des. Elem		Name Attribut	<u>tes</u>		
M	FST01	380	Quantity		M	R 1/15
			Numeric value	of quantity		
M	FST02	680	Forecast Qual	lifier	M	ID 1/1
				g the sender's confidence level of the f ed with a forecast	orecas	st data or an
			С	Firm		
			D	Planning		
M	FST03	681	Forecast Timi	ng Qualifier	M	ID 1/1
			Code specifyin	g interval grouping of the forecast		
			С	Daily		
			D	Discrete		
			M	Monthly Bucket (Calendar Months	)	
			W	Weekly Bucket (Monday through S	Sunday	<b>/</b> )
M	FST04	373	Requirement I	Date	M	DT 8/8
			Date expressed	d as CCYYMMDD		
	FST07	337	Time		X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMMSSD, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59)

FST08 128 Reference Identification Qualifier X ID 2/3

Code qualifying the Reference Identification

DO Delivery Order Number

This qualifier will be used for inbound and outbound

files.

KB Beginning Kanban Serial Number

This qualifier will be used with inbound files only.

FST09 127 Reference Identification X AN 1/30

Dealer Order Number or Pull Signal (when applicable)

Segment: SHP Shipped/Received Information

Position: 470

Loop: SHP Optional

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify shipment and/or receipt information

**Syntax Notes: 1** If SHP01 is present, then SHP02 is required.

2 If SHP03 is present, then at least one of SHP04 or SHP05 is required.

3 If SHP04 is present, then SHP03 is required.4 If SHP05 is present, then SHP03 is required.

Semantic Notes: 1 SHP04 is the date shipped, delivered, received, or the

cumulative quantity start date (as qualified by SHP03).

**2** SHP06 is the cumulative quantity end date.

Comments: 1 The SHP segment is used to communicate shipment, delivery, or receipt

information and may include discrete or cumulative quantities, dates, and times.

2 If SHP01 equals "02", "07", "08", "09", or "10" (indicating cumulative quantities), then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.

# **Data Element Summary**

Ref.	Data		Data Elemen	•		
Des.	Eleme		Name Attribute			
SH	HP01	673	Quantity Qualif	ier	0	ID 2/2
			Code specifying	the type of quantity		
			01	Discrete Quantity		
			02	Cumulative Quantity		
			12	Ship Notice Quantity		
SH	HP02	380	Quantity		X	R 1/15
			Numeric value o	of quantity		
SH	HP03	374	Date/Time Qual	lifier	X	ID 3/3
			Code specifying	type of date or time, or both date and	time	
			011	Shipped		
			050	Received		
			051	Cumulative Quantity Start		
SH	HP04	373	Date		X	DT 8/8

**REF** Reference Identification Segment:

Position: 480

Loop: SHP Optional

Level: Detail Usage: Optional

Max Use:

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

> 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required. REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data Name Attributes **Element** Des.

M **Reference Identification Qualifier** REF01 128 M ID 2/3

Code qualifying the Reference Identification

SI Shipper's Identifying Number for Shipment (SID)

A unique number (to the shipper) assigned by the

shipper to identify the shipment

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Optional Max Use: 1

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

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

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

**Semantic Notes:** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

#### **Data Element Summary**

	Ref. Data Des. Elen		Name Attributes		
M	CTT01	354	Number of Line Items	M	N0 1/6
			Total number of line items in the transaction set		
	CTT02	347	Hash Total	0	R 1/10

Segment: **SE** Transaction Set Trailer

Position: 020

Loop:

Level: Summary Usage: Mandatory Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

Ref.

**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary** 

Des. Element Name Attributes

M SE01 96 Number of Included Segments M N0 1/10

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

Data

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

## **Generic Planning Schedule Example**

```
*00*
                               *ZZ*KARENSCUST
                                                  *77*X12SUPPLIER
*040728*1446*U*00400*00000021*0*P*~
GS*PS*KARENSCUST*X12SUPPLIER*20040728*1446*21*X*004010
ST*830*0001
BFR*00**Rel-X12*DL*A***20040715
N1*ST*Ship To 10*ZZ*10
N1*SU*X12 Supplier*ZZ*X12SUPPLIER
N1*MI*FACILITY ID: 10*ZZ*10
LIN*1*BP*X12-Part01*****EC*ECL***PD*X12-Part01 Description
UIT*EA
PER*SC*ContactName*TE*ContactPhone*EM*Contact@email.com*FX*ContactFax
ATH*PQ**1000**20040701
ATH*FI**200000**20040701
ATH*MT**175000**20040701
FST*11000*D*M*20040801
FST*26000*D*W*20040901
FST*41000*D*W*20041001
FST*81000*D*W*20041101
FST*121000*D*W*20041201
FST*161000*D*W*20050101
SHP*02*1000*011*20040715
SHP*02*1000*050*20040715
LIN*2*BP*X12-Part02*****EC*ECL***PD*X12-Part02 Description
UIT*EA
PER*SC*ContactName*TE*ContactPhone*EM*Contact@email.com*FX*ContactFax
ATH*PO**1000**20040701
ATH*FI**200000**20040701
ATH*MT**175000**20040701
FST*11000*D*M*20040801
FST*26000*D*W*20040901
FST*41000*D*W*20041001
FST*81000*D*W*20041101
FST*121000*D*W*20041201
FST*161000*D*W*20050101
SHP*02*1000*011*20040715
SHP*02*1000*050*20040715
LIN*3*BP*X12-Part03*****EC*ECL***PD*X12-Part03 Description
UTT*EA
PER*SC*ContactName*TE*ContactPhone*EM*Contact@email.com*FX*ContactFax
ATH*PO**1000**20040701
ATH*FI**200000**20040701
ATH*MT**175000**20040701
FST*11000*D*M*20040801
FST*26000*D*W*20040901
FST*41000*D*W*20041001
FST*81000*D*W*20041101
FST*121000*D*W*20041201
FST*161000*D*W*20050101
SHP*02*1000*011*
SHP*02*1000*050*20040715
LIN*4*BP*Kanban-01*****EC*ECL***PD*Kanban-01 Description
UTT*EA
PER*SC*ContactName*TE*ContactPhone*EM*Contact@email.com*FX*ContactFax
ATH*PO**1000**20040701
ATH*FI**100000**20040701
ATH*MT**150000**20040701
FST*11000*D*M*20040801
FST*26000*D*W*20040901
```

```
FST*41000*D*W*20041001
SHP*02*1000*011*
SHP*02*1000*050*20040715
LIN*5*BP*Kanban-02*****EC*ECL***PD*Kanban-02 Description
PER*SC*ContactName*TE*ContactPhone*EM*Contact@email.com*FX*ContactFax
ATH*PQ**1000**20040701
ATH*FI**100000**20040701
ATH*MT**150000**20040701
FST*11000*D*M*20040801
FST*26000*D*W*20040901
FST*41000*D*W*20041001
SHP*02*1000*011*
SHP*02*1000*050*20040715
LIN*6*BP*Kanban-03*****EC*ECL***PD*Kanban-03 Description
UIT*EA
PER*SC*ContactName*TE*ContactPhone*EM*Contact@email.com*FX*ContactFax
ATH*PQ**1000**20040701
ATH*FI**100000**20040701
ATH*MT**150000**20040701
FST*11000*D*M*20040801
FST*26000*D*W*20040901
FST*41000*D*W*20041001
SHP*02*1000*011*
SHP*02*1000*050*20040715
CTT*6
SE*76*0001
GE*1*21
IEA*1*00000021
```

# 850 Infor Supplier Exchange – Generic Purchase Order / Version 004010 (for inbound publication by customer)

Functional Group ID=PO

#### Introduction

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.

|--|

	Pos. No.	Seg. <u>ID</u>	Req. Name Des.	Loop <u>Max.Use</u>	Notes ar Repeat C	nd Comments	
M	010	ST	Transaction Se	et Header	M	1	
M	020	BEG	Beginning Seg Order	ment for Purchas	e M	1	
	040	CUR	Currency		0	1	
	050	REF	Reference Ider	ntification	0	>1	
	060	PER	Administrative Contact	Communications	0	3	
	070	TAX	Tax Reference		0	>1	
	080	FOB	F.O.B. Related	Instructions	0	>1	
			LOOP ID - SAG	C			25
	120	SAC		otion, Allowance,	or O	1	25
	120 130	SAC	Service, Promo	otion, Allowance,		1 >1	25
			Service, Promo Charge Informa Terms of Sale/	otion, Allowance, ation Deferred Terms o			25
	130	ITD	Service, Promo Charge Informa Terms of Sale/ Sale	otion, Allowance, ation  Deferred Terms of erence	of O	>1	25
	130 150	ITD DTM	Service, Promo Charge Informa Terms of Sale/ Sale Date/Time Refe	otion, Allowance, ation  Deferred Terms of erence	of O	>1	25
	130 150	ITD DTM	Service, Promo Charge Informa Terms of Sale/ Sale Date/Time Refe	otion, Allowance, ation  Deferred Terms of erence	of O	>1	

310	N1	Name	Ο	1	
		LOOP ID – N9			200
295	N9	Reference Indication	0	1	
300	MSG	Message Text	0	100	

Detail:	Pos. No.	Seg. <u>ID</u>	- 1	otes an epeat <u>C</u>	nd Comments		
			LOOP ID - PO1			100000	
М	010	PO1	Baseline Item Data	М	1		n1
			LOOP ID - PID			1000	
	050	PID	Product/Item Description	0	1		
	100	REF	Reference Identification	0	>1		
			LOOP ID - SAC			25	
	130	SAC	Service, Promotion, Allowance, or Charge Information	0	1		
	210	DTM	Date/Time Reference	0	10		
	289	MSG	Message Text	0	>1		

# **Summary:**

	Pos. <u>No.</u>	Seg. ID	<u>Name</u>	Req. Des.	Loop <u>Max.Use</u>	Notes an Repeat (	nd Comments	3	
			LOOP	ID - CT	Г			1	
	010	CTT	Transa	ction To	otals	0	1		n2
M	030	SE	Transa	ction Se	et Trailer	M	1		

#### **Transaction Set Notes**

- 1. PO102 is required.
- 2. 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: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use:

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

**Syntax Notes:** 

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

Data	<b>Element</b>	<b>Summary</b>
------	----------------	----------------

	Ref. Data <u>Des.</u> Elei	a <u>ment</u>	Name Attribu	<u>ites</u>		
M	ST01	143	Transaction S	Set Identifier Code	M	ID 3/3
			Code uniquely	/ identifying a Transaction Set		
			850	Purchase Order		
M	ST02	329	Transaction S	Set Control Number	М	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: BEG Beginning Segment for Purchase Order

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To indicate the beginning of the Purchase Order Transaction Set and transmit

identifying numbers and dates

Ref.

Data

**Syntax Notes:** 

**Semantic Notes:** 1 BEG05 is the date assigned by the purchaser to purchase order.

Comments:

**Data Element Summary** 

	Des. Elem	nent	Name Attributes			
M	BEG01	353	Transaction Set Purpose Code	M	ID 2/2	

Code identifying purpose of transaction set

00 Original

01 Cancellation

			02	Add		
			04	Change		
			05	Replace		
M	BEG02	92	Purchase Order	Type Code	M	ID 2/2
			Code specifying t	the type of Purchase Order		
			SA	Stand-alone Order (for a Discrete P	O)	
			BE	Proposed PO		
			KB	Blanket PO		
M	BEG03	324	Purchase Order	Number	M	AN 1/22
			Identifying number	er for Purchase Order assigned by the	e orde	erer/purchaser
	BEG04	328	Release Number	r	0	AN 1/30
				ng a release against a Purchase Orde olved in the transaction	r pre\	viously placed
M	BEG05	373	Date		M	DT 8/8
			Date expressed a	as CCYYMMDD		

Segment: CUR Currency

Position: 040

Loop:

Level: Heading Usage: Optional Max Use: 1

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

**Semantic Notes:** 

**Comments:** 1 See Figures Appendix for examples detailing the use of the CUR

segment.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M CUR01 98 Entity Identifier Code M ID 2/3

Code identifying an organizational entity, a physical location, property or

an individual

By Buying Party (Purchaser)

M CUR02 100 Currency Code M ID 3/3

Code (Standard ISO) for country in whose currency the charges are

specified

Segment: REF Reference Identification

Position: 050

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

CR Customer Reference Number

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: PER Administrative Communications Contact

Position: 060

Loop:

Level: Heading Usage: Optional Max Use: 3

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

directed

**Syntax Notes: 1** If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

**Data Element Summary** 

	Ref. Data Des. Elem		Name Attributes		
M	PER01	366	Contact Function Code	M	ID 2/2
			Code identifying the major duty or responsibility of the named	perso	on or group
			IC Information Contact		
	PER02	93	Name	0	AN 1/60
			Free-form name		
	PER03	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		
			TE Telephone		
	PER04	364	Communication Number	X	AN 1/80
			Complete communications number including country o applicable	r area	a code when
M	PER09	443	Contact Inquiry Reference	M	AN 1/20

Segment: TAX Tax Reference

Position: 070

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To provide data required for proper notification/determination of applicable taxes

Contact ID Number

applying to the transaction or business described in the transaction **Syntax Notes: 1** At least one of TAX01 or TAX03 is required.

**Semantic Notes:** 

**Comments:** 1 Tax ID number is, in many instances, referred to as a Tax Exemption Number. The paired (combined) use of data elements 309 and 310 provides for the designation of five taxing jurisdictions.

**2** TAX01 is required if tax exemption is being claimed.

# **Data Element Summary**

		Data Element Summary					
Ref. Data Des. Elem	•	Name Attributes					
TAX01	325	Tax Identification Number	X	AN 1/20			
		Number assigned to a purchaser (buyer, orderer) by a (state, county, etc.); often called a tax exemption number					
TAX12	441	Tax Exempt Code	0	ID 1/1			
Code identifying exemption status from sales and use tax							
		1 Yes (Tax Exempt)					

Segment: FOB F.O.B. Related Instructions

Position: 080

Loop:

M

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify transportation instructions relating to shipment

2

Comments:

#### **Data Element Summary**

Ref. <u>Des.</u>	Data Elen	•	Name	Attributes
FO	B01	146	Shipn	nent Method of Payment

Code identifying payment terms for transportation charges

No (Not Tax Exempt)

CC Collect

PC Prepaid but Charged to Customer

PP Prepaid (by Seller)

M

ID 2/2

Segment: SAC Service, Promotion, Allowance, or Charge Information

Position: 120

Loop: SAC Optional

Level: Heading Usage: Optional

Max Use:

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

amount or percentage for the service, promotion, allowance, or charge

#### **Data Element Summary**

	Ret. Dat <u>Des.</u> <u>Ele</u>	a <u>ment</u>	Name Attribu	<u>utes</u>				
M	SAC01	248	Allowance or	Allowance or Charge Indicator				
			Code which in	Code which indicates an allowance or charge for the service specified				
			А	Allowance				
			С	Charge				
	SAC05	610	Amount		0	N2 1/15		
			Monetary amo	ount				
	SAC15	352	Description		X	AN 1/80		

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

Segment: ITD Terms of Sale/Deferred Terms of Sale

Position: 130

Loop:

Level: Heading Usage: Optional Max Use: >

**Purpose:** To specify terms of sale

#### **Data Element Summary**

terms discount is earned

Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes		
ITD	03	338	Terms Discount Percent	0	R 1/6
			Terms discount percentage, expressed as a percent, av purchaser if an invoice is paid on or before the Terms D		
ITD	05	351	Terms Discount Days Due	X	N0 1/3
			Number of days in the terms discount period by which p	ayme	ent is due if

61

ITD07 386 Terms Net Days O N0 1/3

Number of days until total invoice amount is due (discount not applicable)

Segment: DTM Date/Time Reference

Position: 150

Loop:

Level: Heading Usage: Optional Max Use: 10

Purpose: To

To specify pertinent dates and times

Syntax Notes: 1

At least one of DTM02 DTM03 or DTM05 is required.

2

If DTM04 is present, then DTM03 is required.

3

If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

M

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

DTM01 374 Date/Time Qualifier

M ID 3/3

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

002 Delivery Requested

010 Requested Ship

DTM02 373 Date X DT 8/8

Date expressed as CCYYMMDD

Segment: TXI Tax Information

Position: 285

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify tax information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M TXI01 963 Tax Type Code M ID 1/3

Code specifying the type of tax

CA City Tax

Service Tax imposed by City

FD Federal Tax

Usage tax imposed by federal (US and Canadian)

government

SP State/Provincial Tax

State tax levied which excludes sales or excise taxes

Monetary amount

TXI03 954 Percent X R 1/10

Percentage expressed as a decimal

Segment: AMT Monetary Amount

Position: 287 Loop: AMT Optional

Level: Heading Usage: Optional Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M AMT01 522 Amount Qualifier Code M ID 1/3

Code to qualify amount

TT Total Transaction Amount

M AMT02 782 Monetary Amount M R 1/18

Monetary amount

Segment: N1 Name

Position: 310 Loop: N1 Optional

Level: Heading Usage: Optional Max Use:

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

SU

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

2 N105 and N106 further define the type of entity in N101.

**Data Element Summary** 

	Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes	· · · · · · · · · · · · · · · · · · ·		
M	N10	)1	98	Entity Identifier C	Code	M	ID 2/3
				Code identifying a an individual	n organizational entity, a physical loca	ation,	, property or
				MI	Planning Schedule/Material Release Facility)	lssu	er (indicates

Supplier

		ST	Ship To		
N102	93	Name		X	AN 1/60
		Free-form name			
N103	66	Identification Co	ode Qualifier	X	ID 1/2
		Code designating Identification Cod	the system/method of code structure (e (67)	e used	d for
		1	D-U-N-S Number, Dun & Bradstree	et	
		92	Assigned by Buyer or Buyer's Ager	nt	
N104	67	Identification Co	ode	X	AN 2/80
		Code identifying a	a party or other code		

Segment: N9 Reference Identification

Position: 295

Loop:

Level: Heading Usage: Optional Max Use: 1000

**Purpose:** To provide a free-form format that allows the transmission of text information **Comments:** The N9 segment is a start of a loop that only contains the MSG segment. The

data in this segment is not mapped or used.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M N901 128 Reference Identification Qualifier M AN 2/2

'ZZ'

N902 128 Reference Identification M AN 2/2

Segment: MSG Message Text

Position: 300

Loop:

Level: Heading Usage: Optional Max Use: 1000

**Purpose:** To provide a free-form format that allows the transmission of text information

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

Segment: PO1 Baseline Item Data

Position: 010

**Loop:** PO1 Mandatory

Level: Detail Usage: Mandatory Max Use: 1

**Purpose:** To specify basic and most frequently used line item data

# **Data Element Summary**

Ref.	Data		Data Element Summary						
Des.	Eleme	<u>ent</u>	Name Attributes						
PC	)101	350	Assigned Identif	0	AN 1/20				
			Alphanumeric characters assigned for differentiation within a transaction set						
			Purchase Order Line Number						
PO102 330		330	Quantity Ordered	Х	R 1/10				
			Quantity ordered						
PC	103	355	Unit or Basis for	Measurement Code	0	ID 2/2			
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
			EA	Each					
			FT	Foot					
			LB	Pound					
			PC	Piece					
PC	104	212	Unit Price		X	R 1/17			
			Price per unit of product, service, commodity, etc.						
PC	105	639	Basis of Unit Pri	ce Code	0	ID 2/2			
			Code identifying the type of unit price for an item						
			UM	Price per Unit of Measure					
PC	106	235	Product/Service	ID Qualifier	X	ID 2/2			
Code identifying the type/source of the descriptive r Product/Service ID (234)					iber u	used in			
			BP	Buyer's Part Number					

PO107	234	Product/Service ID			AN 1/50	
		Buyer's Part Numl	ber			
PO108	235	Product/Service ID Qualifier			ID 2/2	
		Code identifying the type/source of the descriptive number Product/Service ID (234)			sed in	
		EC	Engineering Change Level			
PO109	234	Product/Service	ID	X	AN 1/48	
		Engineering Change Level				
PO110	235	Product/Service	ID Qualifier	X	ID 2/2	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		VP	Vendor's (Seller's) Part Number			
PO111	234	Product/Service	ID	X	AN 1/50	
		Vendor's Part Nun	nber			

Segment: PID Product/Item Description

**Position:** 050 **Loop:** PID Optional

Level: Detail Usage: Optional Max Use: 1

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

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M PID01 349 Item Description Type M ID 1/1

Code indicating the format of a description

F Free-form

PID05 352 Description X AN 1/80

Buyer's Part Description

Segment: REF Reference Identification

Position: 100

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

DK Dock Number

MY Model year number

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: SAC Service, Promotion, Allowance, or Charge Information

**Position:** 130 **Loop:** SAC Optional

Level: Detail Usage: Optional Max Use: 1

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

amount or percentage for the service, promotion, allowance, or charge

#### **Data Element Summary**

	Ref. Data Des. Elen	_	Name Attribute	<u>s</u>			
M	SAC01	248	Allowance or Charge Indicator			ID 1/1	
			Code which indicates an allowance or charge for the service specified				
			А	Allowance			
			С	Charge			
	SAC05	610	Amount		0	N2 1/15	
			Monetary amour	nt			
	SAC15	352	Description		X	AN 1/80	

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

Segment: DTM Date/Time Reference

Position: 210

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: 10

**Purpose:** To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

# **Data Element Summary**

	Ref. Des.	Data Elem	<u>ent</u>	<u>Name</u>	<u>Attributes</u>	•		
M	DT	M01	374	Date/	Time Qualif	ier	M	ID 3/3
				Code	specifying ty	pe of date or time, or both date and t	ime	
				002		Delivery Requested		
				007		Effective		
				010		Requested Ship		
				036	i	Expiration		
						Date coverage expires		
	DT	M02	373	Date			X	DT 8/8
				Date	expressed a	s CCYYMMDD		

Segment: MSG Message Text

Position: 289

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: >1

**Purpose:** To provide a free-form format that allows the transmission of text information

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

**Segment:** CTT Transaction Totals

Position: 010 Loop: CTT Optional

Level: Summary Usage: Optional Max Use: 1

**Purpose:** To transmit a hash total for a specific element in the transaction set **Syntax Notes:** 1 If either CTT03 or CTT04 is present, then the other is required.

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

Semantic Notes:

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

**Data Element Summary** 

	Ref. Data <u>Des.</u> <u>Element</u>		Name Attributes		
M	CTT01	354	Number of Line Items	M	N0 1/6
			Total number of line items in the transaction set		
	CTT02	3/17	Hash Total	0	R 1/10

Segment: **SE** Transaction Set Trailer

Position: 030

Loop:

**Level:** Summary **Usage:** Mandatory **Max Use:** 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

# **Data Element Summary**

	Ref. Des.			Name Attributes		
M	SE0	1	96	Number of Included Segments	M	N0 1/10
				Total number of segments included in a transaction set SE segments	inclu	ding ST and
M	SE0	2	329	Transaction Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

### **Generic Purchase Order Example**

```
*ZZ*customerId
ISA*00*
                *00*
                                                *ZZ*supplierId
*040610*1009*U*00400*00000013*0*P*~
GS*PO*customerId*supplierId*20040610*1009*23*X*004010
ST*850*0001
BEG*05*SA*X12-P01*Rel-X12*20040512
CUR*BY*USD
REF*CR*000004308
PER*IC*ContactName******ContID
TAX*121807*********
FOB*PP
ITD*****000**030
AMT*TT*000000720.25
N1*MI*Facility 10*1*facilityId
N1*ST*Ship To 10*1*ShipToId
N1*SU*X12 Supplier*1*supplierId
PO1*001*00000001*EA*00000720.250*EA*BP*X12-Part06*EC*IHS
PID*F****X12-Part06 Descr
DTM*002*20040815
DTM*007*20040512
CTT*1*1
SE*16*0001
GE*1*23
IEA*1*000000013
```

# 850 Infor Supplier Exchange – Generic Purchase Order / Version 004010 (for outbound export to suppliers)

Functional Group ID=PO

#### Introduction

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.

ы	ea	പ	ın	$\sim$	ш
	ca	uı		ч	

	Pos. No.	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes an	nd Comments	
M	010	ST	Transaction Set Header	M	1	
M	020	BEG	Beginning Segment for Purchase Order	e M	1	
	040	CUR	Currency	0	1	
	050	REF	Reference Identification	0	>1	
	060	PER	Administrative Communications Contact	Ο	3	
	070	TAX	Tax Reference	0	>1	
	080	FOB	F.O.B. Related Instructions	0	>1	
			LOOP ID - SAC			25
			LOOP ID - SAC			25
	120	SAC	Service, Promotion, Allowance, Charge Information	or O	1	23
	120	SAC	Service, Promotion, Allowance,		1 >1	
			Service, Promotion, Allowance, Charge Information  Terms of Sale/Deferred Terms of			
	130	ITD	Service, Promotion, Allowance, of Charge Information  Terms of Sale/Deferred Terms of Sale	of O	>1	
	130 150	ITD DTM	Service, Promotion, Allowance, Charge Information  Terms of Sale/Deferred Terms of Sale  Date/Time Reference	of O	>1	>1
	130 150	ITD DTM	Service, Promotion, Allowance, Charge Information  Terms of Sale/Deferred Terms of Sale  Date/Time Reference  Tax Information	of O	>1	

310	N1	Name	Ο	1	
330	N3	Address Information	0	3	
340	N4	Geographical Location	Ο	1	
		LOOP ID – N9			200
295	N9	Reference Indication	0	1	
300	MSG	Message Text	Ο	100	

#### Detail:

Detail:	Pos. <u>No.</u>	Seg. <u>ID</u>		Req. <u>Des.</u>	Loop <u>Max.Use</u>		es and eat C	d omments		
			LOOP II	D - PO1					100000	
M	010	PO1	Baseline	e Item D	Data		M	1		n1
			LOOP II	D - PID					1000	
	050	PID	Product	/Item D	escription		0	1		
	100	REF	Referen	ce Iden	tification		0	>1		
			LOOP II	D - SAC	>				25	
	130	SAC	Service, Charge		tion, Allowance, ation	or	Ο	1		
	210	DTM	Date/Tir	ne Refe	erence		0	10		
			LOOP II	D – N9					25	
	330	N9	Referen	ce Iden	tification		0	1	1	
	335	MSG	Messag	e Text			0	100		

# Summary:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	·	Notes an Repeat C	d comments		
			LOOP ID - CTT	LC			1	
	010	CTT	Transaction Totals	Tr	0	1		n2
M	030	SE	Transaction Set Trailer	Tr	М	1		

# **Transaction Set Notes**

- PO102 is required.
   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: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

**Data Element Summary** 

	Ref. Data Des. Eler	a <u>nent</u>	Name Attribu	<u>tes</u>		
M	ST01	143	Transaction S	Set Identifier Code	M	ID 3/3
			Code uniquely	identifying a Transaction Set		
			850	Purchase Order		
M	ST02	329	Transaction S	Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: **BEG** Beginning Segment for Purchase Order

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To indicate the beginning of the Purchase Order Transaction Set and transmit

identifying numbers and dates

Data

**Syntax Notes:** 

Rof

**Semantic Notes:** BEG05 is the date assigned by the purchaser to purchase order.

Comments:

**Data Element Summary** 

	Des. Element		Name	<u>Attributes</u>			
M	BEG01	353	Trans	saction Set P	urpose Code	M	ID 2/2
			Code	identifying pu	rpose of transaction set		
			00		Original		
			01		Cancellation		

			02	Add		
			04	Change		
			05	Replace		
M	BEG02	92	Purchase Order	Type Code	M	ID 2/2
			Code specifying t	he type of Purchase Order		
			SA	Stand-alone Order		
M	BEG03	324	Purchase Order	Number	M	AN 1/22
			Identifying number	er for Purchase Order assigned by the	orde	erer/purchaser
	BEG04	328	Release Number	r	0	AN 1/30
				ng a release against a Purchase Orde olved in the transaction	r pre\	viously placed
M	BEG05	373	Date		M	DT 8/8
			Date expressed a	as CCYYMMDD		

Segment: CUR Currency

Position: 040

Loop:

Level: Heading Usage: Optional Max Use: 1

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

**Semantic Notes:** 

**Comments:** See Figures Appendix for examples detailing the use of the CUR segment.

**Data Element Summary** 

				Data Licino	in Gammary		
		Data Elemei	<u>nt</u>	Name Attribut	tes		
M	CUR	)1	98	Entity Identifie	er Code	M	ID 2/3
				Code identifyin an individual	ng an organizational entity, a physical loo	cation	, property or
				BY	Buying Party (Purchaser)		
M	CUR	)2	100	Currency Cod	le	M	ID 3/3

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

Segment: REF Reference Identification

Position: 050

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

CR Customer Reference Number

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: PER Administrative Communications Contact

Position: 060

Loop:

Level: Heading Usage: Optional Max Use: 3

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

directed

**Syntax Notes: 1** If either PER03 or PER04 is present, then the other is required.

Semantic Notes: Comments:

**Data Element Summary** 

	Ref. Data <u>Des. Elem</u>		Name Attributes	<u> </u>		
M	PER01	366	Contact Function Code			ID 2/2
			Code identifying to named	the major duty or responsibility of the	perso	on or group
			IC	Information Contact		
	PER02	93	Name		0	AN 1/60
			Free-form name			
	PER03	365	Communication	Number Qualifier	X	ID 2/2

Code identifying the type of communication number

TE Telephone

PER04 364 Communication Number X AN 1/80

Complete communications number including country or area code when

applicable

M PER09 443 Contact Inquiry Reference M AN 1/20

Contact ID Number

Segment: TAX Tax Reference

Position: 070

Loop:

Level: Heading Usage: Optional Max Use: >

**Purpose:** To provide data required for proper notification/determination of applicable taxes

applying to the transaction or business described in the transaction

2

## **Data Element Summary**

Ref. Data Des. Elem	-	Name Attributes					
TAX01 325		Tax Identification Number	Χ	AN 1/20			
		g jurisdiction certificate					
TAX12	441	Tax Exempt Code	0	ID 1/1			
		Code identifying exemption status from sales and use tax					
		1 Yes (Tax Exempt)					

No (Not Tax Exempt)

Segment: FOB F.O.B. Related Instructions

Position: 080

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify transportation instructions relating to shipment

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M FOB01 146 Shipment Method of Payment M ID 2/2

Code identifying payment terms for transportation charges

CC Collect

PC Prepaid but Charged to Customer

PP Prepaid (by Seller)

Segment: SAC Service, Promotion, Allowance, or Charge Information

**Position:** 120 **Loop:** SAC Optional

Level: Heading Usage: Optional Max Use: 1

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

amount or percentage for the service, promotion, allowance, or charge

**Data Element Summary** 

	Ref. Data Des. Eler	a <u>nent</u>	Name Attributes	•		
M	SAC01	248	Allowance or Ch	narge Indicator	M	ID 1/1
			Code which indic	ates an allowance or charge for the s	ervice	especified
			А	Allowance		
			С	Charge		
	SAC05	610	Amount		0	N2 1/15
			Monetary amoun	t		
	SAC15	352	Description		X	AN 1/80

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

content

Segment: ITD Terms of Sale/Deferred Terms of Sale

Position: 130

Loop:

Level: Heading Usage: Optional Max Use: >1

Purpose: To specify terms of sale

**Data Element Summary** 

Ref. Data

<u>Des. Element</u> Name Attributes

ITD03 338 Terms Discount Percent O R 1/6

Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

ITD05 351 Terms Discount Days Due X N0 1/3

Number of days in the terms discount period by which payment is due if

terms discount is earned

ITD07 386 Terms Net Days O N0 1/3

Number of days until total invoice amount is due (discount not applicable)

Segment: TXI Tax Information

Position: 285

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify tax information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M TXI01 963 Tax Type Code M ID 1/3

Code specifying the type of tax

CA City Tax

Service Tax imposed by City

FD Federal Tax

Usage tax imposed by federal (US and Canadian)

government

SP State/Provincial Tax

State tax levied which excludes sales or excise taxes

Monetary amount

TXI03 954 Percent X R 1/10

Percentage expressed as a decimal

Segment: AMT Monetary Amount

**Position:** 287 **Loop:** AMT Optional

Level: Heading Usage: Optional Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M AMT01 522 Amount Qualifier Code M ID 1/3

Code to qualify amount

TT Total Transaction Amount

M AMT02 782 Monetary Amount M R 1/18

Monetary amount

Segment: N9 Reference Identification

Position: 295

Loop:

Level: Heading Usage: Optional Max Use: 1000

**Purpose:** To provide a free-form format that allows the transmission of text information

Comments: If the Purchase Order has a header level note, the N9 and MSG segments will be

created.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M N901 128 Reference Identification Qualifier M AN 2/2

'ZZ'

N902 128 Reference Identification M AN 2/2

'Header text'

Segment: MSG Message Text

Position: 300

Loop:

Level: Heading

Usage: Optional

**Max Use:** 1000

**Purpose:** To provide a free-form format that allows the transmission of text information

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

Segment: N1 Name

Position: 310

Loop: N1 Optional

Level: Heading Usage: Optional Max Use: 1

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

2 N105 and N106 further define the type of entity in N101.

### **Data Element Summary**

	Ref. Data Des. Elem		Name Attributes			
M	N101	98	Entity Identifier	Code	M	ID 2/3
			Code identifying an individual	an organizational entity, a physical loc	cation	, property or
			MI	Planning Schedule/Material Releas Facility)	e Issı	uer (indicates
			SU	Supplier		
			ST	Ship To		
			DA	Direct Deliver/Drop Shipment		
	N102	93	Name		X	AN 1/60
			Free-form name			
	N103	66	Identification Co	ode Qualifier	X	ID 1/2
			Code designating Identification Cod	g the system/method of code structure le (67)	used	d for
			1	D-U-N-S Number, Dun & Bradstree	t	
			92	Assigned by Buyer or Buyer's Agen	t	
	N104	67	Identification Co	ode	X	AN 2/80

Code identifying a party or other code

Segment: N3 Address Information

**Position:** 330 **Loop:** N1 Optional

Level: Heading

**Usage:** Optional Max Use:

Purpose: To specify the location of the named party

**Syntax Notes:** Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. **Element** Name Attributes

0 N301 166 **Address Information** AN 1/55

Address information

N302 166 **Address Information** AN 1/55

Address information

Segment: **N4** Geographic Location

Position: 340 Loop: N1 Optional

Level: Heading **Usage:** Optional Max Use:

Purpose: To specify the geographic place of the named party Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be

adequate to specify a location.

#### **Data Element Summary**

Ref.	Data		,		
Des.	Elemer	<u>nt</u> _	Name Attributes		
N40	)1	19	City Name	0	AN 2/30
			Free-form text for city name		
N40	)2	156	State or Province Code	0	ID 2/2
			Code (Standard State/Province) as defined by appropria agency	ate g	overnment
N40	)3	116	Postal Code	0	ID 3/15
			Code defining international postal zone code excluding blanks (zip code for United States)	punc	tuation and
N40	)4	26	Country Code	0	ID 2/3
			Code identifying the country		

Segment: PO1 Baseline Item Data

Position: 010

**Loop:** PO1 Mandatory

Level: Detail Usage: Mandatory Max Use: 1

Purpose: To specify basic and most frequently used line item data

Data	Element	Summary
------	---------	---------

Ref. Da	ta	Data Eler	nent Summary		
	ement	Name Attrib	<u>outes</u>		
PO101	350	Assigned lo	dentification	0	AN 1/20
		Alphanumer set	ic characters assigned for differentiation	ı within a	a transaction
		Purchase O	rder Line Number		
PO102	330	Quantity Or	dered	Х	R 1/10
		Quantity ord	lered		
PO103	355	Unit or Bas	is for Measurement Code	0	ID 2/2
			ying the units in which a value is being eneasurement has been taken	expresse	ed, or manner
		EA	Each		
		FT	Foot		
		LB	Pound		
		PC	Piece		
PO104	212	Unit Price		X	R 1/17
		Price per un	it of product, service, commodity, etc.		
PO105	639	Basis of Un	it Price Code	0	ID 2/2
		Code identif	ying the type of unit price for an item		
		UM	Price per Unit of Measure		
PO106	235	Product/Se	rvice ID Qualifier	Х	ID 2/2
			ying the type/source of the descriptive n vice ID (234)	umber u	used in

Buyer's Part Number

BP

PO107	234	Product/Service ID			AN 1/50	
		Buyer's Part Numb	oer			
PO108	235	Product/Service	ID Qualifier	X	ID 2/2	
		Code identifying the Product/Service ID	ne type/source of the descriptive num 0 (234)	ber u	sed in	
		EC	Engineering Change Level			
PO109	234	Product/Service	ID	X	AN 1/48	
		Engineering Chan	ge Level			
PO110	235	Product/Service	ID Qualifier	X	ID 2/2	
		Code identifying the Product/Service ID	ne type/source of the descriptive num 0 (234)	ber u	sed in	
		VP	Vendor's (Seller's) Part Number			
PO111	234	Product/Service	ID	X	AN 1/50	
		Vendor's Part Number				

Segment: PID Product/Item Description

**Position:** 050 **Loop:** PID Optional

Level: Detail Usage: Optional Max Use: 1

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

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M PID01 349 Item Description Type M ID 1/1

Code indicating the format of a description

F Free-form

PID05 352 Description X AN 1/80

**Buyer's Part Description** 

Segment: REF Reference Identification

Position: 100

**Loop:** PO1 Mandatory

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

DK Dock Number

MY Model year number

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: SAC Service, Promotion, Allowance, or Charge Information

**Position:** 130 **Loop:** SAC Optional

Level: Detail

Usage: Optional Max Use: 1

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

amount or percentage for the service, promotion, allowance, or charge

#### **Data Element Summary**

	Def	Dete		Dat	a Elomont Gammary		
	Ref. Des.	Data Eleme	ent	<u>Name</u>	<u>Attributes</u>		
M	SA	C01	248	Allow	ance or Charge Indicator	M	ID 1/1
				Code	which indicates an allowance or charge for the	ne service	specified
				Α	Allowance		
				С	Charge		
	SA	C05	610	Amou	nt	0	N2 1/15
				Monet	ary amount		
	SA	C15	352	Descr	iption	X	AN 1/80

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

Segment: **DTM** Date/Time Reference

Position: 210

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes: 1** At least one of DTM02 DTM03 or DTM05 is required.

If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

#### **Data Element Summary**

	Ref.	Data		Data Liomont Gammary		
	Des.	Elem	<u>ent</u>	Name Attributes		
M	DT	M01	374	Date/Time Qualifier	M	ID 3/3

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

002	Delivery Requested
007	Effective
010	Requested Ship
036	Expiration

# Date coverage expires

DTM02 373 Date X DT 8/8

Date expressed as CCYYMMDD

Segment: N9 Reference Identification

Position: 330

Loop: Level: Detail Usage: Optional Max Use: 1000

**Purpose:** To provide a free-form format that allows the transmission of text information

Comments: If the Purchase Order has a header level note, the N9 and MSG segments will be

created.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M N901 128 Reference Identification Qualifier M AN 2/2

'ZZ'

N902 128 Reference Identification M AN 2/2

'Detail text'

Segment: MSG Message Text

Position: 340

Loop:

Level: Heading Usage: Detail

**Max Use:** 1000

**Purpose:** To provide a free-form format that allows the transmission of text information

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

Segment: CTT Transaction Totals

**Position:** 010 **Loop:** CTT Optional

Level: Summary Usage: Optional Max Use: 1

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

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

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

**Semantic Notes:** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

#### **Data Element Summary**

			Total number of line items in the transaction set		
M	CTT01	354	Number of Line Items  Total number of line items in the transaction set	M	N0 1/6
	Ref. Data Des. Elen	nent	Name Attributes		

Segment: SE Transaction Set Trailer

Position: 030

Loop:

**Level:** Summary **Usage:** Mandatory **Max Use:** 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary** 

Ref. Data

<u>Des. Element</u> <u>Name Attributes</u>

M SE01 96 Number of Included Segments M N0 1/10

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

# M SE02 329 Transaction Set Control Number M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

# **Generic Purchase Order Example**

```
*00*
                              *ZZ*customerId *ZZ*supplierId
*040610*1009*U*00400*00000013*0*P*~
GS*PO*customerId*supplierId*20040610*1009*23*X*004010
ST*850*0001
BEG*05*SA*X12-P01*Rel-X12*20040512
CUR*BY*USD
REF*CR*000004308
PER*IC*ContactName*******ContID
TAX*121807********2
FOB*PP
ITD*****000**030
AMT*TT*000000720.25
N9*ZZ*Header Text
MSG*Header PO full comment line
N1*MI*Facility 10*1*facilityId
N1*ST*Ship To 10*1*ShipToId
N1*SU*X12 Supplier*1*supplierId
N1*DA**92*Deliver Name 2
N3*Address1*Address2
N4*City*State*ZipCode*Country
PO1*001*125*EA*720.250*UM*BP*X12-Part06*EC*HIS*VP*VendorPart1
PID*F****X12-Part06 Descr
DTM*002*20040815
DTM*007*20040512
N9*ZZ*Detail Text
MSG*Detail PO line full comment line
CTT*1*1
SE*25*0001
GE*1*23
IEA*1*000000013
```

# 850 Infor Supplier Exchange – Generic Blanket Purchase Order / Version 004010

# Functional Group ID=PO

### Introduction

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.

Н	ea	di	n	a	

neauii	Pos. No.	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes ar Repeat C	nd Comments	
M	010	ST	Transaction Set Header	M	1	
М	020	BEG	Beginning Segment for Purchas Order	e M	1	
	040	CUR	Currency	0	1	
	060	PER	Administrative Communications Contact	0	3	
	070	TAX	Tax Reference	0	>1	
	080	FOB	F.O.B. Related Instructions	0	>1	
			LOOP ID - SAC			25
	120	SAC	Service, Promotion, Allowance, Charge Information	or O	1	
	130	ITD	Terms of Sale/Deferred Terms of Sale	of O	>1	
	240	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12	
	285	TXI	Tax Information	0	>1	
			LOOP ID - N1			200
	310	N1	Name	0	1	
			LOOP ID - SPI			>1
	450	SPI	Specification Identifier	0	1	

480	MSG	Message Text	(	0	50
-----	-----	--------------	---	---	----

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Loop <u>Max.Use</u>	Notes a Repeat	nd <u>Comments</u>		
			LOOP I	D - PO	1			100000	
M	010	PO1	Baselin	Baseline Item Data  LOOP ID - PID		М	1		n1
			LOOP I					1000	
	050	PID	Product	t/Item D	escription	0	1		
	100	REF	Referer	nce Ider	ntification	0	>1		
			LOOP I	D - SAC				25	

1

>1

0

Service, Promotion, Allowance, or O

Charge Information

Message Text

# Summary:

Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Loop Name Des. Max.Use	Notes and Repeat Comments	
			LOOP ID - CTT		1
	010	CTT	Transaction Totals	O 1	n2
M	030	SE	Transaction Set Trailer	M 1	

## **Transaction Set Notes**

130 SAC

MSG

289

- 1. PO102 is required.
- 2. 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: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

			Data Elen	nent Summary		
	Ref. Dat <u>Des.</u> <u>Ele</u>	a <u>ment</u>	Name Attrib			
M	M ST01 143		Transaction Set Identifier Code			ID 3/3
			Code unique	ly identifying a Transaction Set		
			850	Purchase Order		
M	ST02	329	Transaction	Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: **BEG** Beginning Segment for Purchase Order

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To indicate the beginning of the Purchase Order Transaction Set and transmit

identifying numbers and dates

**Syntax Notes:** 

Semantic Notes: 1

Comments:

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

# **Data Element Summary**

	Ref. Data <u>Des.</u> <u>Element</u>		Name Attributes	<u> </u>		
M	BEG01	353	Transaction Set	Purpose Code	M	ID 2/2
			Code identifying	purpose of transaction set		
			00	Original		
			01	Cancellation		
			02	Add		
			04	Change		
			05	Replace		
M	BEG02	92	Purchase Order	Type Code	M	ID 2/2
			Code specifying	the type of Purchase Order		
			BE	Blanket Order/Estimated Quantities Commitment)	s (Not	firm
			BK	Blanket Order (Quantity Firm)		
			KB	Blanket Purchase Agreement		
				A charge account established with supply to satisfy repetitive requirem		ied sources of
M	BEG03	324	Purchase Order	Number	M	AN 1/40
			Identifying number	er for Purchase Order assigned by the	e orde	erer/purchaser
	BEG04	328	Release Number	r	0	AN 1/30

Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

M	BEG05	373	Date	M	DT 8/8
			Purchase Order Date, expressed as CCYYMMDD		
	BEG06	367	Contract Number	0	AN 1/30
			Contract number		

Segment: CUR Currency

Position: 040

Loop:

Level: Heading Usage: Optional Max Use: 1

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

**Semantic Notes:** 

**Comments:** 1 See Figures Appendix for examples detailing the use of the CUR

segment.

**Data Element Summary** 

Ref. Data Name Attributes Des. **Element** M CUR01 98 **Entity Identifier Code** M ID 2/3 Code identifying an organizational entity, a physical location, property or an individual BY Buying Party (Purchaser) M CUR02 100 **Currency Code** M ID 3/3

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

Segment: PER Administrative Communications Contact

Position: 060

Loop:

Level: Heading Usage: Optional Max Use: 3

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

directed

**Syntax Notes: 1** If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.
If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

# **Data Element Summary**

	Ref. Data <u>Des.</u> <u>Element</u>		Name Attributes		
M	PER01	366	Contact Function Code	M	ID 2/2
			Code identifying the major duty or responsibility of the named	perso	on or group
			IC Information Contact		
	PER02	93	Name	0	AN 1/60
			Free-form name		
	PER03	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		
			TE Telephone		
	PER04	364	Communication Number	X	AN 1/80
			Complete telephone number including country or area applicable	code	when
	PER05	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		
			EM Electronic Mail		
	PER06	364	Communication Number	X	AN 1/80
			Complete Email Address when applicable		
	PER07	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		

# FX Facsimile

# PER08 364 Communication Number X

Complete Facsimile number including country or area code when applicable.

AN 1/80

Segment: TAX Tax Reference

Position: 070

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To provide data required for proper notification/determination of applicable taxes

applying to the transaction or business described in the transaction

Syntax Notes: 1 At least one of TAX01 or TAX03 is required.

2 If either TAX02 or TAX03 is present, then the other is required.

Semantic Notes:

**Comments:** 1 Tax ID number is, in many instances, referred to as a Tax Exemption Number. The paired (combined) use of data elements 309 and 310 provides for the designation of five taxing jurisdictions.

**2** TAX01 is required if tax exemption is being claimed.

Ref.	Data		Data Elem	nent Summary			
Des.	Elem	<u>ent</u>	Name Attrib	utes			
TA	X01	325	Tax Identific	ation Number	X	AN 1/20	
				gned to a purchaser (buyer, orderer , etc.); often called a tax exemption			
TA	X02	309	Location Qu	X	ID 1/2		
			Code identifying type of location				
			CC	Country			
			CI	City			
			SP	State/Province			
TA	X03	310	Location Ide	entifier	Х	AN 1/30	
			Code which identifies a specific location				
TAX12 441		Tax Exempt	0	ID 1/1			
	Code identifying exemption status from sales and use				d use tax		
			1	Yes (Tax Exempt)			
			2	No (Not Tax Exempt)			

Segment: **FOB** F.O.B. Related Instructions

Position: 080

Loop:

Level: Heading

Usage: Optional Max Use: >1

Purpose: To specify transportation instructions relating to shipment Syntax Notes: 1 If FOB03 is present, then FOB02 is required.

If FOB04 is present, then FOB05 is required.
If FOB07 is present, then FOB06 is required.
If FOB08 is present, then FOB09 is required.

**Semantic Notes:** 1 FOB01 indicates which party will pay the carrier.

**2** FOB02 is the code specifying transportation responsibility location.

**3** FOB06 is the code specifying the title passage location.

4 FOB08 is the code specifying the point at which the risk of loss transfers.

This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Comments:

**Data Element Summary** 

Ref. Data Des. Element

M FOB01 146 Shipment Method of Payment

M ID 2/2

ID 1/2

Code identifying payment terms for transportation charges

CC Collect

PC Prepaid but Charged to Customer

PP Prepaid (by Seller)

FOB06 309 Location Qualifier

Code identifying type of location

DE Destination (Shipping)

OR Origin (Shipping Point)

Segment: SAC Service, Promotion, Allowance, or Charge Information

**Position:** 120 **Loop:** SAC Optional

**Level:** Heading **Usage:** Optional **Max Use:** 1

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

amount or percentage for the service, promotion, allowance, or charge

Semantic Notes: 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or

SAC08 is required.

2 SAC05 is the total amount for the service, promotion, allowance, or

charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

#### **Data Element Summary**

	Ref. <u>Des.</u>	Data <u>Element</u>		<u>Name</u>	<u>Attributes</u>			
M	SAC	01	248	Allow	ance or Charge Indicator	M	١	ID 1/1
				Code	which indicates an allowance or cha	rge for the servi	ice	specified
				Α	Allowance			
				С	Charge			
	SAC	05	610	Amou	nt	0	)	N2 1/15
				Monet	ary amount			

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

Segment: ITD Terms of Sale/Deferred Terms of Sale

352

Position: 130

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify terms of sale

SAC15

**Syntax Notes:** If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required. **Semantic Notes:** ITD15 is the percentage applied to a base amount used to determine a

late payment charge.

Comments: If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or

ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

**Description** 

#### **Data Element Summary**

Ref. Data

Des. Element Name Attributes

ITD03 338 Terms Discount Percent O R 1/6

X

AN 1/80

Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

ITD05 351 Terms Discount Days Due X N0 1/3

Number of days in the terms discount period by which payment is due if terms discount is earned

ITD07 386 Terms Net Days O N0 1/3

Number of days until total invoice amount is due (discount not applicable)

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 240

Loop:

Level: Heading Usage: Optional Max Use: 12

**Purpose:** To specify the carrier and sequence of routing and provide transit time

information

Syntax Notes: At least one of TD502 TD504 TD505 TD506 or TD512 is required.

**Comments:** When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

#### **Data Element Summary**

Ref. Des.	Data <u>Elem</u>	<u>ent</u>	Name Attributes			
TD	501	133	Routing Sequen	ce Code	0	ID 1/2
			Code describing t movement	he relationship of a carrier to a speci	fic shi	pment
			В	Origin/Delivery Carrier (Any Mode)		
TD	505	387	Routing		X	AN 1/35

Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

Segment: TXI Tax Information

Position: 285

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify tax information

**Syntax Notes: 1** At least one of TXI02 TXI03 or TXI06 is required.

2 If either TXI04 or TXI05 is present, then the other is required.

3 If TXI08 is present, then TXI03 is required.

**Semantic Notes:** 1 TXI02 is the monetary amount of the tax.

2 TXI03 is the tax percent expressed as a decimal.

TXI07 is a code indicating the relationship of the price or amount to the

associated segment.

Comments:

**Data Element Summary** 

	Ref. Des.	Data Elem	<u>ent</u>		Attributes	,		
M	TXI	101	963	Tax T	ype Code		M	ID 1/3
				Code	specifying th	ne type of tax		
				CA		City Tax		
						Service Tax imposed by City		
				FD		Federal Tax		
						Usage tax imposed by federal (US a government	and C	anadian)
				SP		State/Provincial Tax		
						State tax levied which excludes sale	es or	excise taxes
	TXI	02	782	Mone	tary Amoun	t	X	R 1/18
				Monet	ary amount			
	TXI	103	954	Perce	nt		X	R 1/10

Percentage expressed as a decimal

Segment: N1 Name

Position: 310

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

2 N105 and N106 further define the type of entity in N101.

#### Data Element Summary

Ref. Des.	Data Eleme	ent .			summary		
N10		98	Entity	Identifier C	Code	M	ID 2/3
					n organizational entity, a physical loca	ation,	property or
			MI		Planning Schedule/Material Release	lssu	er
			SU		Supplier		
			ST		Ship To		
N10	02	93	Name			X	AN 1/60
			Free-f	orm name			
N10	03	66	Identi	fication Cod	de Qualifier	X	ID 1/2
						used	for
			1		D-U-N-S Number, Dun & Bradstreet		
			92		Assigned by Buyer or Buyer's Agent	:	
N10	04	67	Identi	fication Cod	de	X	AN 2/80
	N10		Des.       Element         N101       98    N102 93 N103 66	Ref. Data Des. Element Name  N101 98 Entity  Code is an ind  MI  SU  ST  N102 93 Name  Free-fo  N103 66 Identifi  1 92	Ref. Data Des. Element Name Attributes  N101 98 Entity Identifier Code identifying a an individual  MI SU ST  N102 93 Name Free-form name  N103 66 Identification Code Code designating Identification Code  1 92	Name Attributes  Name Intity Identifier Code  Code identifying an organizational entity, a physical local an individual  MI Planning Schedule/Material Release SU Supplier  ST Ship To  N102 93 Name  Free-form name  N103 66 Identification Code Qualifier  Code designating the system/method of code structure Identification Code (67)  1 D-U-N-S Number, Dun & Bradstreet 92 Assigned by Buyer or Buyer's Agent	Ref. Data Des. Element N101 98 Entity Identifier Code M  Code identifying an organizational entity, a physical location, an individual  MI Planning Schedule/Material Release Issu SU Supplier ST Ship To  N102 93 Name X Free-form name  N103 66 Identification Code Qualifier X Code designating the system/method of code structure used Identification Code (67)  1 D-U-N-S Number, Dun & Bradstreet 92 Assigned by Buyer or Buyer's Agent

Code identifying a party or other code

Segment: SPI Specification Identifier

**Position:** 450 **Loop:** SPI Optional

Level: Heading Usage: Optional Max Use: 1 **Purpose:** To provide a description of the included specification or technical data items

**Syntax Notes: 1** If either SPI02 or SPI03 is present, then the other is required.

Semantic Notes: Comments:

M

**Data Element Summary** 

Ref. Data

<u>Des. Element</u>

SPI01 786 Security Level Code

M ID 2/2

Code indicating the level of confidentiality assigned by the sender to the information following

ZZ Mutually Defined

Segment: MSG Message Text

**Position:** 480 **Loop:** SPI Optional

Level: Heading Usage: Optional Max Use: 50

**Purpose:** To provide a free-form format that allows the transmission of text information

**Syntax Notes: 1** If MSG03 is present, then MSG02 is required.

Semantic Notes:

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

MSG02 is not related to the specific characteristics of a printer, but

identifies top of page, advance a line, etc.

If MSG02 is "AA - Advance the specified number of lines before print"

then MSG03 is required.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

Segment: PO1 Baseline Item Data

Position: 010

**Loop:** PO1 Mandatory

Level: Detail Usage: Mandatory Max Use: 1

Purpose: To specify basic and most frequently used line item data Syntax Notes: 1 If PO103 is present, then PO102 is required.

2 If PO105 is present, then PO104 is required.

If either PO106 or PO107 is present, then the other is required.
If either PO108 or PO109 is present, then the other is required.
If either PO110 or PO111 is present, then the other is required.

# **Data Element Summary**

Rof	Data Element Summary Ref. Data							
Des.	Eleme	<u>ent</u>	Name Attributes					
РО	101	350	Assigned Identif	ication	0	AN 1/20		
			Alplhanumeric chaset	aracters assigned for differentiation w	/ithin	a transaction		
			Purchase Order L					
РО	102	330	Quantity Ordere	d	Х	R 1/10		
			Quantity ordered					
РО	103	355	Unit or Basis for	Jnit or Basis for Measurement Code				
				he units in which a value is being exp rement has been taken	resse	ed, or manner		
			EA	Each				
			FT	Foot				
			LB	Pound				
			PC	Piece				
РО	104	212	Unit Price		X	R 1/17		
			Price per unit of p	product, service, commodity, etc.				
РО	105	639	Basis of Unit Pri	ce Code	0	ID 2/2		
			Code identifying t	he type of unit price for an item				
			PE	Price per Each				
			PP	Price per Pound				

		UM	Price per Unit of Measure			
PO106	235	Product/Service	ID Qualifier	X	ID 2/2	
			Code identifying the type/source of the descriptive num Product/Service ID (234)			
		BP	Buyer's Part Number			
PO107	234	Product/Service	Product/Service ID			
		Buyer's Part Nun				
PO108	235	Product/Service	Product/Service ID Qualifier			
			Code identifying the type/source of the descriptive num Product/Service ID (234)			
		EC	Engineering Change Level			
PO109	234	Product/Service	e ID	X	AN 1/48	
		Engineering Cha	nge Level			
PO110	235	Product/Service	e ID Qualifier	X	ID 2/2	
		Code identifying Product/Service	the type/source of the descriptive nur ID (234)	nber	used in	
		VP	Vendor's (Seller's) Part Number			
PO111	234	Product/Service	e ID	X	AN 1/48	
		Vendor's Part Nu	ımber			

Segment: PID Product/Item Description

**Position:** 050 **Loop:** PID Optional

Level: Detail Usage: Optional Max Use: 1

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

Comments: 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04

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

2 Use PID06 when necessary to refer to the product surface or layer being

described in the segment.

3 PID07 specifies the individual code list of the agency specified in PID03.

# **Data Element Summary**

	Ref. Data Des. Eler	a ment	Name Attribut	res_		
M	PID01	349	Item Descripti	on Type	M	ID 1/1
			Code indicating	g the format of a description		
			F	Free-form		
	PID05	352	Description		X	AN 1/80

Buyer's Part Description

Segment: REF Reference Identification

Position: 100

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.

If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

Comments:

#### **Data Element Summary**

	Ref. Data <u>Des.</u> <u>Elen</u>		Name Attrib	utes		
M	REF01	128	Reference Ic	lentification Qualifier	M	ID 2/3
			Code qualifyi	ng the Reference Identification		
			DK	Dock Number		
			MY	Model year number		
	REF02	127	Reference Io	lentification	X	AN 1/30

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

Segment: SAC Service, Promotion, Allowance, or Charge Information

**Position:** 130 **Loop:** SAC Optional

Level: Detail Usage: Optional Max Use: 1

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

amount or percentage for the service, promotion, allowance, or charge

Semantic Notes: 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or

SAC08 is required.

D - f

D-4-

**2** SAC05 is the total amount for the service, promotion, allowance, or

charge.

If SAC05 is present with SAC07 or SAC08, then SAC05 takes

precedence.

3 SAC16 is used to identify the language being used in SAC15.

**Comments:** 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.

2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

#### **Data Element Summary**

	Ref. Des.	Eleme	<u>ent</u>	Name	<u>Attributes</u>			
M	SAC	01	248	Allowance or Charge Indicator				ID 1/1
				Code	which indica	ates an allowance or charge for the	service	specified
				Α		Allowance		
				С		Charge		
	SAC	05	610	Amou	ınt		0	N2 1/15
				Monet	tary amount			
	SAC	C15	352	Descr	ription		X	AN 1/80

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

Segment: MSG Message Text

Position: 289

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: >1

**Purpose:** To provide a free-form format that allows the transmission of text information

**Syntax Notes:** If MSG03 is present, then MSG02 is required.

**Semantic Notes:** 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.

**Data Element Summary** 

Ref. Data

<u>Des. Element Name Attributes</u>

M

MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

Segment: CTT Transaction Totals

**Position:** 010 **Loop:** CTT Optional

Level: Summary Usage: Optional Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set
 Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.

**Semantic Notes:** 

**Comments:** This segment is intended to provide hash totals to validate transaction

completeness and correctness.

#### **Data Element Summary**

	Ref. Data <u>Des.</u> <u>Elen</u>	-	Name Attributes		
M	CTT01	354	Number of Line Items	M	N0 1/6
			Total number of line items in the transaction set		
	CTT02	347	Hash Total	0	R 1/10

Segment: SE Transaction Set Trailer

Position: 030

Loop:

**Level:** Summary **Usage:** Mandatory **Max Use:** 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary** 

Ref. Data

<u>Des. Element Name Attributes</u>

M SE01 96 Number of Included Segments M N0 1/10

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

# M SE02 329 Transaction Set Control Number M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

#### **Generic Blanket Purchase Order Example**

```
*ZZ*X12SUPPLIER *ZZ*KARENSCUST
*040610*1009*U*00400*00000013*0*P*~
GS*PO*X12SUPPLIER*KARENSCUST*20040610*1009*23*X*004010
ST*850*0001
BEG*00*KB*X12-P01*ReleaseNbr*20040730*ContractNbr
CUR*BY*USD
PER*IC*ContactName*TE*ContactPhone
TAX*TaxID********2
FOB*PaymentMethod****OR
SAC*C****100.00************HdrAdjText
ITD***.10**10**5
TD5*B****FOBShipVia
TXI*FD**.50
TXI*SP**.40
TXI*CI**.30
N1*MI**1*10
N1*ST*Ship To 10*1*10
N1*SU*X12 Supplier*1*X12SUPPLIER
MSG*HdrMessage
PO1*1*5000*EA*1.12345*EA*BP*X12-Part01*EC*ECL*VP*V-X12-Part01
PID*F*X12-Part01 Descr
REF*MY*MY
REF*DK*Dock
SAC*A****50.50********DtlAdjText
MSG*DtlMessage
CTT*1*0
SE*24*0001
GE*1*23
IEA*1*00000013
```

# 850 Infor Supplier Exchange – Generic Proposed Purchase Order / Version 004010 (for outbound export to suppliers)

Functional Group ID=PO

#### Introduction

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.

#### Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>		lotes an Repeat C	d Comments	
M	010	ST	Transaction Set Header	M	1	
М	020	BEG	Beginning Segment for Purchase Order	М	1	
	040	CUR	Currency	0	1	
	050	REF	Reference Identification	0	>1	
	060	PER	Administrative Communications Contact	0	3	
	070	TAX	Tax Reference	0	>1	
	080	FOB	F.O.B. Related Instructions	0	>1	
			LOOP ID - SAC			25
	120	SAC	LOOP ID - SAC  Service, Promotion, Allowance, or Charge Information	. 0	1	25
	120 130	SAC	Service, Promotion, Allowance, or	0	1 >1	25
			Service, Promotion, Allowance, or Charge Information  Terms of Sale/Deferred Terms of			25
	130	ITD	Service, Promotion, Allowance, or Charge Information  Terms of Sale/Deferred Terms of Sale	0	>1	25
	130 150	ITD DTM	Service, Promotion, Allowance, or Charge Information  Terms of Sale/Deferred Terms of Sale  Date/Time Reference	0	>1	>1
	130 150	ITD DTM	Service, Promotion, Allowance, or Charge Information  Terms of Sale/Deferred Terms of Sale  Date/Time Reference  Tax Information	0	>1	

310	N1	Name	0	1	
330	N3	Address Information	0	1	
340	N4	Geographic Location	0	1	
		LOOP ID – N9			200
295	N9	LOOP ID – N9  Reference Indication	0	1	200

#### Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	•	lotes and <u>lepeat</u> C	d omments		
			LOOP ID - PO1			100000	
M	010	PO1	Baseline Item Data	M	1		n1
			LOOP ID - PID			1000	
	050	PID	Product/Item Description	Ο	1		
	100	REF	Reference Identification	0	>1		
			LOOP ID - SAC			25	
	130	SAC	Service, Promotion, Allowance, or Charge Information	0	1		
	210	DTM	Date/Time Reference	0	10		
			LOOP ID – N9			25	
	330	N9	Reference Identification	Ο	1	1	
	335	MSG	Message Text	Ο	100		

# Summary:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Loop Name Des. Max.Use	Notes and Repeat Comments	
			LOOP ID - CTT		1
	010	CTT	Transaction Totals	O 1	n2
M	030	SE	Transaction Set Trailer	M 1	

# **Transaction Set Notes**

- PO102 is required.
   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: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

**Data Element Summary** 

	Ref. Data Des. Eler	a <u>nent</u>	Name Attrib	<u>utes</u>		
M	ST01	143	Transaction	Set Identifier Code	M	ID 3/3
			Code uniquel	y identifying a Transaction Set		
			850	Purchase Order		
M	ST02	329	Transaction	Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: **BEG** Beginning Segment for Purchase Order

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To indicate the beginning of the Purchase Order Transaction Set and transmit

identifying numbers and dates

	Ref. Data	Data Element Summary				
M	Des. Element  BEG01 353	Name Attribut	<u>ites</u> Set Purpose Code	М	ID 2/2	
		Code identifyii	ng purpose of transaction set			
		00	Original			
		01	Cancellation			
		02	Add			
		04	Change			

			05	Replace		
M	BEG02	92	Purchase Order	Type Code	M	ID 2/2
			Code specifying t	he type of Purchase Order		
			BE	Blanket order – Not Firm commitme	ent	
M	BEG03	324	Purchase Order	Number	M	AN 1/22
			Identifying number	er for Purchase Order assigned by the	orde	erer/purchaser
	BEG04	328	Release Number	•	0	AN 1/30
				ng a release against a Purchase Order olved in the transaction	r pre\	viously placed
M	BEG05	373	Date		M	DT 8/8
			Date expressed a	as CCYYMMDD		

Segment: CUR Currency

Position: 040

Loop:

Level: Heading Usage: Optional Max Use: 1

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

**Semantic Notes:** 

**Comments:** See Figures Appendix for examples detailing the use of the CUR segment.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M CUR01 98 Entity Identifier Code M ID 2/3

Code identifying an organizational entity, a physical location, property or

an individual

BY Buying Party (Purchaser)

M CUR02 100 Currency Code

M ID 3/3

Code (Standard ISO) for country in whose currency the charges are

specified

Segment: REF Reference Identification

Position: 050

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

CR Customer Reference Number

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: PER Administrative Communications Contact

Position: 060

Loop:

Level: Heading **Usage:** Optional Max Use:

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

directed

M

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

**Semantic Notes:** Comments:

**Data Element Summary** 

Ref. Data

PER01

Des. **Element** Name Attributes

366

**Contact Function Code** M ID 2/2

Code identifying the major duty or responsibility of the person or group

named

IC **Information Contact** 

PER02 93 Name AN 1/60 0

Free-form name

PER03 365 **Communication Number Qualifier** Χ ID 2/2

Code identifying the type of communication number

TE Telephone

PER04 364 **Communication Number** X AN 1/80

Complete communications number including country or area code when

applicable

PER09 **Contact Inquiry Reference** AN 1/20 M 443 M

Contact ID Number

TAX Tax Reference Segment:

Position: 070

Loop:

Level: Heading

**Usage:** Optional Max Use:

To provide data required for proper notification/determination of applicable taxes Purpose:

applying to the transaction or business described in the transaction

**Data Element Summary** 

Ref. **Data** 

Name Attributes Des. **Element** 

**Tax Identification Number** TAX01 325 Χ AN 1/20 Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

0

ID 1/1

# TAX12 441 Tax Exempt Code

Code identifying exemption status from sales and use tax

- 1 Yes (Tax Exempt)
- 2 No (Not Tax Exempt)

Segment: **FOB** F.O.B. Related Instructions

Position: 080

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify transportation instructions relating to shipment

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M FOB01 146 Shipment Method of Payment M ID 2/2

Code identifying payment terms for transportation charges

CC Collect

PC Prepaid but Charged to Customer

PP Prepaid (by Seller)

Segment: SAC Service, Promotion, Allowance, or Charge Information

Position: 120 Loop: SAC Optional

Level: Heading Usage: Optional Max Use: 1

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

amount or percentage for the service, promotion, allowance, or charge

**Data Element Summary** 

	Ref. Data <u>Des.</u> <u>Eler</u>	nent	Name Attri	<u>butes</u>		
M	SAC01	248	Allowance	or Charge Indicator	M	ID 1/1
			Code which	indicates an allowance or charge for	r the service	specified
			А	Allowance		
			С	Charge		
	SAC05	610	Amount		0	N2 1/15
			Monetary ar	mount		
	SAC15	352	Description	1	Х	AN 1/80

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

content

Segment: ITD Terms of Sale/Deferred Terms of Sale

Position: 130

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify terms of sale

**Data Element Summary** 

Ref. **Data Element** Des. Name Attributes ITD03 338 **Terms Discount Percent** R 1/6 Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date ITD05 351 **Terms Discount Days Due** Χ N0 1/3

Number of days in the terms discount period by which payment is due if

terms discount is earned

ITD07 386 Terms Net Days O N0 1/3

Number of days until total invoice amount is due (discount not applicable)

Segment: TXI Tax Information

Position: 285

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify tax information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M TXI01 963 Tax Type Code

**ID 1/3** 

Code specifying the type of tax

CA City Tax

Service Tax imposed by City

FD Federal Tax

Usage tax imposed by federal (US and Canadian)

government

SP State/Provincial Tax

State tax levied which excludes sales or excise taxes

Monetary amount

TXI03 954 Percent X R 1/10

Percentage expressed as a decimal

Segment: AMT Monetary Amount

Position: 287 Loop: AMT Optional

Level: Heading Usage: Optional Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M AMT01 522 Amount Qualifier Code M ID 1/3

Code to qualify amount

TT Total Transaction Amount

M AMT02 782 Monetary Amount M R 1/18

Monetary amount

Segment: N9 Reference Identification

Position: 295

Loop:

Level: Heading Usage: Optional Max Use: 1000

**Purpose:** To provide a free-form format that allows the transmission of text information

Comments: If the Purchase Order has a header level note, the N9 and MSG segments will be

created.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M N901 128 Reference Identification Qualifier M AN 2/2

'ZZ'

N902 128 Reference Identification M AN 2/2

'Header text'

Segment: MSG Message Text

Position: 300

Loop:

Level: Heading Usage: Optional Max Use: 1000 **Purpose:** To provide a free-form format that allows the transmission of text information

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

Segment: N1 Name

**Position:** 310 **Loop:** N1 Optional

Level: Heading Usage: Optional Max Use: 1

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

2 N105 and N106 further define the type of entity in N101.

#### **Data Element Summary**

	Ref. Data Des. Elem		Name Attribute	<u>.</u>		
M	N101	98	Entity Identifier		M	ID 2/3
			Code identifying an individual	an organizational entity, a physical loc	cation	, property or
			MI	Planning Schedule/Material Releas Facility)	e Issi	uer (indicates
			SU	Supplier		
			ST	Ship To		
			DA	Direct Deliver/Drop Shipment		
	N102	93	Name		X	AN 1/60
			Free-form name			
	N103	66	Identification C	ode Qualifier	X	ID 1/2
			Code designatin Identification Co	g the system/method of code structure de (67)	e used	d for
			1	D-U-N-S Number, Dun & Bradstree	et	
			92	Assigned by Buyer or Buyer's Ager	nt	
	N104	67	Identification C	ode	X	AN 2/80

Code identifying a party or other code

Segment: N3 Address Information

**Position:** 090 **Loop:** N1 Optional

Level: Heading

Usage: Optional Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

Address information

	Ref. Data Des. Elemer		Attributes		
0	N301	166 Addre	ess Information	M	AN 1/55
		Addre	ess information		
	N302	166 Addre	ess Information	0	AN 1/55
	N302	166 Addre	ess Information	0	

N4 Geographic Location Segment:

Position: 100 Loop: N1 Optional

Level: Heading **Usage:** Optional Max Use:

**Purpose:** To specify the geographic place of the named party Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be

adequate to specify a location.

# **Data Element Summary**

Dof	Doto		Data Element Janimary		
Ref. Des.	Data Elemen	<u>nt</u>	Name Attributes		
N40	)1	19	City Name	0	AN 2/30
			Free-form text for city name		
N40	)2	156	State or Province Code	0	ID 2/2
			Code (Standard State/Province) as defined by appropria	ate g	overnment
N40	)3	116	Postal Code	0	ID 3/15
			Code defining international postal zone code excluding blanks (zip code for United States)	punc	tuation and
N40	)4	26	Country Code	0	ID 2/3
			Code identifying the country		

Code identifying the country

<sup>\*\*</sup>The N3 and N4 segments will only be created for Drop Shipment / Direct Delivery addresses\*\*\*

Segment: PO1 Baseline Item Data

Position: 010

**Loop:** PO1 Mandatory

Level: Detail Usage: Mandatory Max Use: 1

Purpose: To specify basic and most frequently used line item data

# **Data Element Summary**

Ref.	Data		Data Element	Summary			
Des.	Eleme	<u>ent</u>	Name Attributes				
PC	)101	350	Assigned Identif	ication	0	AN 1/20	
			Alphanumeric characters assigned for differentiation within a transaction set				
			Purchase Order L	ine Number			
PC	102	330	Quantity Ordered	d	Х	R 1/10	
			Quantity ordered				
PC	103	355	Unit or Basis for	Measurement Code	0	ID 2/2	
				he units in which a value is being exp rement has been taken	resse	ed, or manner	
			EA	Each			
			FT	Foot			
			LB	Pound			
			PC	Piece			
PC	104	212	Unit Price		X	R 1/17	
			Price per unit of p	roduct, service, commodity, etc.			
PC	105	639	Basis of Unit Pri	ce Code	0	ID 2/2	
			Code identifying t	he type of unit price for an item			
			UM	Price per Unit of Measure			
PC	106	235	Product/Service	ID Qualifier	X	ID 2/2	
			Code identifying t Product/Service II	he type/source of the descriptive num D (234)	iber u	used in	
			BP	Buyer's Part Number			

PO107	234	Product/Service ID		X	AN 1/50
		Buyer's Part Numl	ber		
PO108	235	Product/Service	ID Qualifier	X	ID 2/2
		Code identifying the Product/Service II	ne type/source of the descriptive num O (234)	nber u	sed in
		EC	Engineering Change Level		
PO109	234	Product/Service	ID	X	AN 1/48
		Engineering Chan	ge Level		
PO110	235	Product/Service	ID Qualifier	X	ID 2/2
		Code identifying the Product/Service ID	ne type/source of the descriptive num D (234)	nber u	sed in
		VP	Vendor's (Seller's) Part Number		
PO111	234	Product/Service	ID	X	AN 1/50
		Vendor's Part Nun	nber		

Segment: PID Product/Item Description

**Position:** 050 **Loop:** PID Optional

Level: Detail Usage: Optional Max Use: 1

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

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M PID01 349 Item Description Type M ID 1/1

Code indicating the format of a description

F Free-form

PID05 352 Description X AN 1/80

**Buyer's Part Description** 

Segment: REF Reference Identification

Position: 100

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

DK Dock Number

MY Model year number

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: SAC Service, Promotion, Allowance, or Charge Information

**Position:** 130 **Loop:** SAC Optional

Level: Detail Usage: Optional Max Use: 1

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

amount or percentage for the service, promotion, allowance, or charge

#### **Data Element Summary**

	Ref. Dat Des. Ele	a <u>ment</u>	Name Attribut	tes		
M	SAC01	248	Allowance or	Charge Indicator	M	ID 1/1
			Code which inc	dicates an allowance or charge for	the service	specified
			А	Allowance		
			С	Charge		
	SAC05	610	Amount		0	N2 1/15
			Monetary amou	unt		
	SAC15	352	Description		Х	AN 1/80

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

Segment: DTM Date/Time Reference

Position: 210

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes: 1** At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

M

**Data Element Summary** 

Ref. Data

<u>Des. Element Name Attributes</u>

DTM01 374 Date/Time Qualifier

M ID 3/3

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

002 Delivery Requested

		007	Effective		
		010	Requested Ship		
		036	Expiration		
			Date coverage expires		
DTM02	373	Date		X	DT 8/8
		Date eynressed a	s CCYYMMDD		

Date expressed as CCYYMMDD

Segment: N9 Reference Identification

Position: 330

Loop: Level: Detail Usage: Optional Max Use: 100

**Purpose:** To provide a free-form format that allows the transmission of text information

Comments: If the Purchase Order has a header level note, the N9 and MSG segments will be

created.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M N901 128 Reference Identification Qualifier M AN 2/2

'ZZ'

N902 128 Reference Identification M AN 2/2

'Detail text'

Segment: MSG Message Text

Position: 340

Loop:

Level: Heading Usage: Detail

**Max Use:** 1000

**Purpose:** To provide a free-form format that allows the transmission of text information

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

Segment: CTT Transaction Totals

**Position:** 010 **Loop:** CTT Optional

Level: Summary Usage: Optional Max Use: 1

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

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

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

**Semantic Notes:** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

### **Data Element Summary**

	Ref. Data Des. Elen		Name Attributes		
M	CTT01	354	Number of Line Items	M	N0 1/6
			Total number of line items in the transaction set		
	CTT02	347	Hash Total	0	R 1/10

Segment: SE Transaction Set Trailer

Position: 030

Loop:

Level: Summary Usage: Mandatory Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary** 

Ref. Data

<u>Des. Element</u> <u>Name</u> <u>Attributes</u>

M SE01 96 Number of Included Segments M N0 1/10

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

# M SE02 329 Transaction Set Control Number M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

## **Generic Proposed Purchase Order Example**

```
*00*
ISA*00*
                               *ZZ*customerId
                                                  *ZZ*supplierId
*040610*1009*U*00400*00000013*0*P*~
GS*PO*customerId*supplierId*20040610*1009*23*X*004010
ST*850*0001
BEG*05*BE*X12-P01*Rel-X12*20040512
CUR*BY*USD
REF*CR*000004308
PER*IC*ContactName*******ContID
TAX*121807********
FOB*PP
ITD*****000**030
AMT*TT*000000720.25
N9*ZZ*Header Text
MSG*Header PO full comment line
N1*MI*Facility 10*1*facilityId
N1*ST*Ship To 10*1*ShipToId
N1*SU*X12 Supplier*1*supplierId
N1*DA**92*Deliver Name 2
N3*Address1*Address2
N4*City*State*ZipCode*Country
PO1*001*125*EA*720.250*UM*BP*X12-Part06*EC*HIS*VP*VendorPart1
PID*F****X12-Part06 Descr
DTM*002*20040815
DTM*007*20040512
N9*ZZ*Detail Text
MSG*Detail PO line full comment line
CTT*1*1
SE*25*0001
GE*1*23
IEA*1*000000013
```

# 855 Infor Supplier Exchange – Generic Purchase Order Acknowledgement / Version 004010

Functional Group ID=PR

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Acknowledgement Transaction Set (855) 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 a seller's acknowledgement of a buyer's purchase order. This transaction set can also be used as notification of a vendor generated order.

## Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Name Des. Max.Use	Loop <u>Repeat</u>	Notes and Comments	
M	010	ST	Transaction Set Header	M	1	
M	020	BAK	Beginning Segment for Pu Order Acknowledgement	urchase M	1	
	040	CUR	Currency	0	1	
	050	REF	Reference Identification	0	>1	
	060	PER	Admin Communication Co	ontact O	3	
	070	TAX	Tax Reference	0	>1	
	080	FOB	FOB Related Instructions	0	>1	
			LOOP ID - SAC			25
	120	SAC	Service, Allowance, Charg Information	ge O	1	
	130	ITD	Terms of Sale	Ο	5	
	287	AMT	Monetary Amount	Ο	1	
	275	TXI	Tax Information	Ο	>1	
			LOOP ID – N1			200
	300	N1	Name	0	1	
	420	MSG	Message Text	0	>1	

## Detail:

Pos. <u>No.</u>	Seg. ID	•	Loop Repeat	Notes and Comments	
		LOOP ID – PO1			100000
010	PO1	Baseline Item Data	Ο	1	
		LOOP ID – PID			1000
050	PID	Product/Item Description	0	1	
100	REF	Reference Identification	0	>1	
		LOOP ID - SAC			25
130	SAC	Service, Allowance, Charge Information	0	1	
200	DTM	Date/time Reference	Ο	12	
		LOOP ID – ACK			104
270	ACK	Line Item Acknowledgment	0	1	

# Summary:

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

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

### **Data Element Summary**

	Ref. Data Des. Eler	n <u>ent</u>	Name Attributes	<u> </u>		
M	ST01	143	Transaction Set	Identifier Code	M	ID 3/3
			Code uniquely ide	entifying a Transaction Set		
			855	Purchase Order Acknowledgment		
M	ST02	329	Transaction Set	Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: BAK Beginning Segment for Purchase Order Acknowledgment

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To indicate the beginning of a Purchase Order Acknowledgement Transaction

Set and transmit an identifying numbers and dates.

**Syntax Notes:** 

**Semantic Notes:** 1 BRK04 is the date assigned by the purchaser to purchase order.

## Comments:

## **Data Element Summary**

	Ref. Data Des. Elem		Name Attributes		
M	BAK01	353	Transaction Set Purpose Code	M	ID 2/2
			Code identifying purpose of transaction set		
			00 Original		
M	BAK02	587	Acknowledgement Type	M	ID 2/2
			Assigned number originated and maintained by the sen "AC" Acknowledge with Detail Change	der	
	BAK03	324	Purchase Order Number	M	AN 1/22
			Identifying number for Purchase Order assigned by the	orde	erer/purchaser
	BAK04	373	Purchase Order Date	M	DT 8/8
			Date expressed as CCYYMMDD		
	BAK05	328	Release Number	0	AN1/30
	BAK06	326	Purchase Order Acknowledgement Number	0	AN1/45
	BAK07	373	Purchase Order Acknowledgement Date  Date expressed as CCYYMMDD	0	DT8/8

Segment: CUR Currency

Position: 040

Loop:

Level: Heading Usage: Optional Max Use: 1

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

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M CUR01 98 Entity Identifier Code M ID 2/3

Code identifying an organizational entity, a physical location, property or

an individual

By Buying Party (Purchaser)

M CUR02 100 Currency Code

M ID 3/3

Code (Standard ISO) for country in whose currency the charges are

specified

Segment: REF Reference Identification

Position: 050

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

CR Reference Number

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: PER Administrative Communications Contact

Position: 060

Loop:

Level: Headingl Usage: Optional

Max Use: 3

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

directed

**Syntax Notes: 1** If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.
If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

**Data Element Summary** 

	Ref. Data		Data Element	Summary		
		nent	Name Attribute	<u>s</u>		
M	PER01	366	Contact Function	on Code	M	ID 2/2
			Code identifying named	the major duty or responsibility of the	perso	on or group
			IC	Information Contact		
	PER02	93	Name		0	AN 1/60
			Free-form name			
	PER03	365	Communication	Number Qualifier	X	ID 2/2
			Code identifying	the type of communication number		
			TE	Telephone		
	PER04	364	Communication	Number	X	AN 1/80
			Complete comm applicable	unications number including country c	or area	a code when
	PER09	443	Contact Inquiry	Reference	0	ID 1/20

Segment: TAX Tax Reference

Position: 070

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To provide data required for proper notification/determination of applicable taxes

applying to the transaction or business described in the transaction

Syntax Notes: 1 At least one of TAX01 or TAX03 is required.

**Semantic Notes:** 

**Comments:** 1 Tax ID number is, in many instances, referred to as a Tax Exemption Number. The paired (combined) use of data elements 309 and 310 provides for the designation of five taxing jurisdictions.

2 TAX01 is required if tax exemption is being claimed.

#### **Data Element Summary**

Ref. Data

<u>Des. Element Name Attributes</u>

TAX01 325 Tax Identification Number X AN 1/20

Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate

number

TAX12 441 Tax Exempt Code

O ID 1/1

Code identifying exemption status from sales and use tax

1 Yes (Tax Exempt)

2 No (Not Tax Exempt)

Segment: FOB F.O.B. Related Instructions

Position: 080

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify transportation instructions relating to shipment

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M FOB01 146 Shipment Method of Payment M ID 2/2

Code identifying payment terms for transportation charges

CC Collect

PP Prepaid (by Seller)

Segment: SAC Service, Promotion, Allowance, or Charge Information

Position: 120

Loop: SAC Optional

SAC15

352

Level: Heading Usage: Optional

Max Use:

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

amount or percentage for the service, promotion, allowance, or charge

Data Element Summary								
	Ref. Data Des. Elem		Name Attrib	<u>putes</u>				
M	SAC01	248	Allowance of	or Charge Indicator	M	ID 1/1		
			Code which	indicates an allowance or charge for the	e service	e specified		
			А	Allowance				
			С	Charge				
	SAC05	610	Amount		0	N2 1/15		

Monetary amount

Description

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

Χ

AN 1/80

Segment: ITD Terms of Sale/Deferred Terms of Sale

Position: 130

Loop:

Level: Heading Usage: Optional Max Use: >1

Purpose: To specify terms of sale

## **Data Element Summary**

Dof	Doto		Data Element Summary		
Ref. <u>Des.</u>	Data <u>Eleme</u>	<u>ent</u>	Name Attributes		
ITE	003	338	Terms Discount Percent	0	R 1/6
			Terms discount percentage, expressed as a percent, a purchaser if an invoice is paid on or before the Terms I		
ITE	005	351	Terms Discount Days Due	X	N0 1/3
			Number of days in the terms discount period by which terms discount is earned	oaym	ent is due if
ITC	007	386	Terms Net Days	0	N0 1/3

Number of days until total invoice amount is due (discount not applicable)

Segment: TXI Tax Information

Position: 275

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify tax information

Comments:

**Data Element Summary** 

	Ref. Des.				Attributes	<b>,</b>		
M	TXI		963		ype Code		M	ID 1/3
				Code	specifying th	ne type of tax		
				CI		City Tax		
						Service Tax imposed by City		
				FD		Federal Tax		
						Usage tax imposed by federal (US a government	and C	anadian)
				SP		State/Provincial Tax		

State tax levied which excludes sales or excise taxes

Monetary amount

TXI03 954 Percent X R 1/10

Percentage expressed as a decimal

Segment: AMT Monetary Amount

Position: 287 Loop: AMT Optional

Level: Heading Usage: Optional Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M AMT01 522 Amount Qualifier Code M ID 1/3

Code to qualify amount

TT Total Transaction Amount

M AMT02 782 Monetary Amount M R 1/18

Monetary amount

Segment: N1 Name

Position: 300

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

2 N105 and N106 further define the type of entity in N101.

### **Data Element Summary**

	Ref. Da	ta e <u>ment</u>	Name Attri	<u>butes</u>		
M	N101	98	Entity Ident	tifier Code	M	ID 2/3
			Code identif an individua	ying an organizational entity, a	physical location	, property or
			MI	Facility Id		
			SF	Supplier Id		
			ST	Ship To		
	N102	93	Name		X	AN 1/60
			Free-form n	ame		
	N103	66	Identification	on Code Qualifier	X	ID 1/2
			Code design Identification	nating the system/method of coon Code (67)	de structure usec	l for
			1	D-U-N-S Number, Dun 8	& Bradstreet	
			92	Assigned by Buyer or Bu	uyer's Agent	
	N104	67	Identification	on Code	Х	AN 2/80

Code identifying a party or other code

Segment: MSG Message Text

**Position:** 420 **Loop:** N1 Optional

Level: Heading Usage: Optional Max Use: 50

**Purpose:** To provide a free-form format that allows the transmission of text information

Syntax Notes: Semantic Notes: Comments:

.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/264

Free-form message text

Segment: PO1 Baseline Item Data

Position: 010

**Loop:** PO1 Mandatory

Level: Detail Usage: Mandatory Max Use: 1

**Purpose:** To specify basic and most frequently used line item data

## **Data Element Summary**

Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes					
PO1	01	350	Assigned Identification	0	AN 1/20			
			Alphanumeric characters assigned for differentiation within a transaction set					
			Purchase Order Line Number					
PO1	PO102 330		Quantity Ordered	X	R 1/10			
			Quantity ordered					
PO1	03	355	Unit or Basis for Measurement Code	0	ID 2/2			
			Code specifying the units in which a value is being expr in which a measurement has been taken	essed	d, or manner			

EA Each

PO104	212	Unit Price	X	R 1/17
PO105	639	Price per unit of product, service, commodity, etc.  Basis of Unit Price Code  Code identifying the type of unit price for an item	0	ID 2/2
PO106	235	Product/Service ID Qualifier  Code identifying the type/source of the descriptive number of the description number of the descriptive number of the	<b>X</b> mber (	ID 2/2 used in
PO107	234	BP Buyer's Part Number  Product/Service ID  Buyer's Part Number	X	AN 1/50
PO108	235	Product/Service ID Qualifier  Code identifying the type/source of the descriptive number of the descriptive	<b>X</b> mber (	ID 2/2 used in
PO109	234	Product/Service ID  Engineering Change Level	X	AN 1/48
PO110	235	Product/Service ID Qualifier  Code identifying the type/source of the descriptive null Product/Service ID (234)	<b>X</b> mber (	ID 2/2 used in
PO111	234	VP Vendor's (Seller's) Part Number  Product/Service ID  Vendor's Part Number	X	AN 1/50

Segment: PID Product/Item Description

Position: 050 Loop: PID Optional

Level: Detail Usage: Optional Max Use: 1

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

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M PID01 349 Item Description Type

M ID 1/1

Code indicating the format of a description

F Free-form

PID05 352 Description X AN 1/80

Buyer's Part Description

Segment: REF Reference Identification

Position: 100

**Loop:** PO1 Mandatory

Level: Detail Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

DK Dock Number

MY Model year number

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: SAC Service, Promotion, Allowance, or Charge Information

Description

Position: 130 Loop: SAC Optional

SAC15

352

Level: Detail Usage: Optional Max Use: 1

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

amount or percentage for the service, promotion, allowance, or charge

			Data Elemen	t Summary		
	Ref. Data Des. Elem	ent	Name Attribute			
M	SAC01	248	Allowance or C	charge Indicator	M	ID 1/1
			Code which indi	cates an allowance or charge for the s	ervice	e specified
			Α	Allowance		
			С	Charge		
	SAC05	610	Amount		0	N2 1/15
			Monetary amour	nt		

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

Χ

AN 1/80

Segment: DTM Date/Time Reference

Position: 200

**Loop:** SAC Mandatory

3

Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes: 1** At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

M

**Data Element Summary** 

Ref. Data

<u>Des. Element Name Attributes</u>

DTM01 374 Date/Time Qualifier

M ID 3/3

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

007 Effective

036 Expiration

DTM02 373 Date X DT 8/8

Date expressed as CCYYMMDD

Segment: ACK Line Item Acknowledgement

**Position:** 270 **Loop:** ACK Optional

Level: Detail Usage: Optional Max Use: 10

**Purpose:** To acknowledge the ordered quantities.

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

<u>Des. Element Name Attributes</u>

M ACK01 668 Line Item Status Code M ID 2/2

IR Item Rejected

Other values or blank will be evaluated for changes and if no changes will be considered an acceptance.

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Optional Max Use: 1

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

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

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

**Semantic Notes:** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

### **Data Element Summary**

	Ref. Data Des. Elen	•	Name Attributes		
M	CTT01	354	Number of Line Items	M	N0 1/6
			Total number of line items in the transaction set		
	CTT02	347	Hash Total	0	R 1/10

Segment: SE Transaction Set Trailer

Position: 020

Loop:

Level: Summary Usage: Mandatory Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

#### **Data Element Summary**

Ref. Data

Des. Element Name Attributes

M SE01 96 Number of Included Segments M N0 1/10

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

# M SE02 329 Transaction Set Control Number M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

## **Generic Purchase Order Acknowledgement Example**

```
ISA*00*
                 *00*
                               *ZZ*BOBSVENDOR
*140121*1050*U*00400*00000493*0*P*~
GS*PR*BOBSVENDOR*22222*20140121*1050*493*X*004010
ST*855*000000001
BAK*00*AC*2006636*20130829**1382*20140121
CUR*BY*USD
TAX********
ITD*****0**0
AMT*TT*86915.5816
N1*MI*DB8.25 STD*1*DB8.25 STD
N1*ST*DB8.25 STD ShipTo*1*DB8.25_STD
N1*SF*BOBS VENDOR*1*7727
P01*1000*3920*EA*1.4963*USD*BP*380963*EC*J
PID*F*BODY - MOLDED
DTM*20130904
ACK*IA
PO1*2000*7840*EA*1.4963*USD*BP*380963*EC*J
PID*F*BODY - MOLDED
DTM*20130905
ACK*TA
PO1*3000*1728*EA*0.8469*USD*BP*381764*EC*D
PID*F*GUIDE-PRIMARY-LH
DTM*20130905
ACK*IA
P01*4000*5184*EA*0.7966*USD*BP*383618*EC*A
PID*F*CHAIN GUIDE - PRI RH
DTM*20130905
ACK*IA
PO1*5000*2772*EA*0.5436*USD*BP*5000350*EC*D
PID*F*BODY ARM - TENSIONER
DTM*20130904
ACK*TA
PO1*6000*2772*EA*0.5436*USD*BP*5000350*EC*D
PID*F*BODY ARM - TENSIONER
DTM*20130905
ACK*IA
PO1*7000*6300*EA*0.2378*USD*BP*5000351*EC*D
PID*F*FACE ARM - TENSIONER
DTM*20130905
ACK*IA
PO1*8000*3276*EA*0.5573*USD*BP*5000353*EC*C
PID*F*GUIDE - TIMING CHAIN
DTM*20130905
ACK*IA
PO1*9000*6300*EA*0.1959*USD*BP*5000464*EC*G
PID*F*LEVER, TENSIONER, B/S
DTM*20130905
ACK*IA
P01*10000*6300*EA*0.1887*USD*BP*5000466*EC*D
PID*F*GUIDE - B/S Chain
DTM*20130905
ACK*IA
P01*11000*250*EA*0.4466*USD*BP*5003231*EC*F
PID*F*FACE - ARM,
DTM*20130905
ACK*IA
PO1*12000*1600*EA*0.9065*USD*BP*5005721*EC*D
PID*F*GUIDE-ASSY LH
DTM*20130905
ACK*IA
PO1*13000*9702*EA*1.2233*USD*BP*5010408*EC*D
PID*F*Arm Assembly
DTM*20130905
ACK*TA
PO1*14000*15120*EA*0.4769*USD*BP*5011475*EC*G
```

PID\*F\*Primary Plastic Guide Assembly DTM\*20130905 ACK\*IA PO1\*15000\*1536\*EA\*2.1038\*USD\*BP\*5011670\*EC\*A PID\*F\*TENSIONER BODY DTM\*20130905 ACK\*IA PO1\*16000\*1440\*EA\*2.1527\*USD\*BP\*5011678\*EC\*A PID\*F\*TENSIONER BODY RH DTM\*20130905 ACK\*IA PO1\*17000\*42500\*EA\*0.0416\*USD\*BP\*5012011\*EC\*D PID\*F\*PLUG LOCK PIN DTM\*20130905 ACK\*IA PO1\*18000\*2016\*EA\*1.1749\*USD\*BP\*5012614\*EC\*A PID\*F\*Guide Assembly DTM\*20130905 PO1\*19000\*8400\*EA\*1.9918\*USD\*BP\*5013548\*EC\*E PID\*F\*CHAIN GUIDE LH DTM\*20130905 ACK\*IA PO1\*20000\*10000\*EA\*0.2116\*USD\*BP\*5013559\*EC\*C PID\*F\*Face DTM\*20130905 ACK\*IA PO1\*21000\*8400\*EA\*0.5093\*USD\*BP\*5014668\*EC\*C PID\*F\*GUIDE - PRI - SHORT - LB DTM\*20130905 ACK\*IA PO1\*22000\*1250\*EA\*0.5849\*USD\*BP\*5016113\*EC\*C PID\*F\*Guide-Cam to Cam DTM\*20130904 ACK\*IA CTT\*22\*148606 SE\*76\*000000001 GE\*1\*493 IEA\*1\*000000493

# 856 Infor Supplier Exchange – Generic Ship Notice – Manifest / Version 004010 (published into Infor Supplier Exchange)

Functional Group ID=SH

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

#### Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Loop <u>Max.Use</u>	Notes a	and Comments
M	010	ST	Transa	ction Se	t Header	M	1
M	020	BSN	Beginn	ing Segr	ment for Ship Not	tice M	1
	040	DTM	Date/T	ime Refe	erence	0	10

## Detail:

	Pos. No.	Seg. ID	<u>Name</u>	Req. Des.	Loc Max.Use	Notes ar Repeat C	nd Comments	
			LOOP I	D – HL -	- Shipment			200000
М	010	HL	Hierarcl	hical Lev	/el	M	1	
	080	MEA	Measur	ements		0	40	
	120	TD5			Routing sit Time)	0	12	
	130	TD3	Carrier	Details (	Equipment)	0	12	
	150	REF	Referer	nce Infor	mation	0	>1	
			LOOP I	D - N1				200
	220	N1	Name			0	1	

M	010	HL	Hierarchical Level	M	1	
	020	LIN	Item Identification	0	1	
	030	SN1	Item Detail (Shipment)	Ο	1	
	050	PRF	Purchase Order Reference	Ο	1	
	080	MEA	Measurements	0	>1	
	150	REF	Reference Identification	Ο	>1	
			LOOP ID - CLD			200
	170	CLD	Load Detail	0	>1	
	180	REF	Reference Information	0	>1	
	300	ETD	Excess Transportation Detail	0	1	

## **Summary:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes and Repeat Comments	
	010	CTT	Transaction Totals	O 1	n1
M	020	SE	Transaction Set Trailer	M 1	

#### **Transaction Set Notes**

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

#### **Transaction Set Comments**

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

The 856 ASN is the electronic representation of the supplier's physical shipment. The 856 uses hierarchal loops (HLs) to represent the physical shipment in electronic form. Hierarchal loops can be designated with a function by assigning the HL segment hierarchal level code HL03 to a specific value. The HL03 values used in the Infor Supplier Exchange implementation are S, O, T, and I. HL03 Explanations:

- S = HL Shipment (only one HLS per 856)
- O = HL Order (as Orders on the shipment, the HLO loops would repeat as children of the HLS). The HLO level represents the actual item being shipped and is required when containers are being used.
- T = HL Tare (Pallet/Master container level, the HLT loops would repeat as children of the HLO)

• I = HL Line Item (The HLI level represents a detail container of a pallet/master (child of HLT) or a loose/single container of the order (child of HLO). If no containers are being used, the HLI can be a child of the Shipment, to indicate the actual item being shipped.

The HL loops can be sent in the following nested combinations:

S-O: shipment header, shipped item

S-O-I: shipment header, shipped item, loose container

S-O-T-I: shipment header, shipped item, master container, detail container of master shipment header, shipped item, loose container, master container, detail

container of master

S-I: shipment header, shipped item

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

**Comments:** 

**Data Element Summary** 

M	Ref. Data <u>Des.</u> Eler  ST01	nent 143	Name Attrib	utes Set Identifier Code	M	ID 3/3
				y identifying a Transaction Set		
			856	Ship Notice/Manifest		
M	ST02	329	Transaction	Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: BSN Beginning Segment for Ship Notice

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the

transaction set

**Semantic Notes:** 1 BSN03 is the date the shipment transaction set is created.

2 BSN04 is the time the shipment transaction set is created.

3 BSN06 is limited to shipment related codes.

**Data Element Summary** 

		ata <u>Ilement</u>	Name Attrib	<u>outes</u>		
M	BSN0	1 353	Transaction	Set Purpose Code	M	ID 2/2
			Code identify	ying purpose of transaction set		
			00	Original		
			01	Cancellation		

M	BSN02	396	Shipment Identification	M	AN 2/30
			A unique control number assigned by the original shipp specific shipment	er to	identify a
M	BSN03	373	Date	M	DT 8/8
			Date expressed as CCYYMMDD		
M	BSN04	337	Time	M	TM 4/8

Time expressed in 24-hour clock time as follows: HHMMSS, where H= hours (00-23), M= minutes (00-59) and S= integer seconds (00-59)

Segment: DTM Date/Time Reference

Position: 040 Level: Heading Usage: Optional Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes: 1** At least one of DTM02 DTM03 or DTM05 is required.

If DTM04 is present, then DTM03 is required.

## **Data Element Summary**

	Ref. Des.	Data Elem	<u>ent</u>	<u>Name</u>	<u>Attributes</u>			
M	DTI	M01	374	Date/Time Qualifier M		ID 3/3		
				Code	specifying ty	pe of date or time, or both date and	time	
				011		Shipped		
				017		Estimated Delivery		
	DTI	M02	373	Date			X	DT 8/8
				Date 6	expressed as	s CCYYMMDD		
	DTI	M03	337	Time			X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59)

Segment: **HL** Hierarchical Level - Shipment

**Position:** 010 **Loop:** HL Mandatory

Level: Detail Usage: Mandatory Max Use: 1

Purpose: To identify dependencies among and the content of hierarchically related groups of

data segments

Comments:

- 1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
  - The HL segment defines a top-down/left-right ordered structure.
- 2. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, tare, or item-level information.
- 5. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

	Ref. Data		Data Element Summary					
	Ref. Data <u>Des.</u> <u>Element</u>		Name Attributes					
M	HL01	628	Hierarchical ID Number	M	AN 1/12			
			A unique number assigned by the sender to identify a pasegment in a hierarchical structure	artic	ular data			
	HL02	734	Hierarchical Parent ID Number	0	AN 1/12			
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to					
M	HL03	735	Hierarchical Level Code	M	ID 1/2			
			Code defining the characteristic of a level in a hierarch	ical s	tructure			
			S Shipment					

Segment: MEA Measurements

Position: 080 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 40

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances,

variances, and weights (See Figures Appendix for example of use of C001) **Syntax Notes:** At least one of MEA03 MEA05 MEA06 or MEA08 is required.

**Semantic Notes:** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06. **Comments:** 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.

## **Data Element Summary**

Ref. Data Des. Elem	ent	Name Attributes				
MEA01	737	Measurement Reference ID Code		0	ID 2/2	
		Code identifying the broad category to which a measurement applies				
		PD	Physical Dimensions			
MEA02	738	Measurement Qualifier		0	ID 1/3	
		Code identifying a specific product or process characteristic to which a measurement applies				
		G	Gross Weight			
		N	Actual Net Weight			
		Т	Tare Weight			
MEA03	739	Measurement Value		X	R 1/20	
		The value of the measurement				
MEA04	C001	Composite Unit of Measure X				
		To identify a composite unit of measure (See Figures Appendix examples of use)				
C00101	355	Unit or Basis for	Measurement Code	M	ID 2/2	
		Code specifying the units in which a value is being expresse in which a measurement has been taken			d, or manner	
		KG	Kilogram			
		LB	Pound			

M

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 120 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 12

To specify the carrier and sequence of routing and provide transit time

information
Syntax Notes:

Purpose:

1. At least one of TD502 TD504 TD505 TD506 or TD512 is required.

2. If TD502 is present, then TD503 is required.

**Semantic Notes:** TD515 is the country where the service is to be performed.

**Comments:** When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Dof	Doto		Data Element Summary				
Ref. Des.	Data Elem	<u>ent</u>	<u>Name</u>	<u>Attributes</u>			
TD	501	133	Routii	ng Sequenc	ce Code	0	ID 1/2
			Code describing the relationship of a carrier to a specific movement			ic shi	pment
			В		Origin/Delivery Carrier (Any Mode)		
TD502		66	Identification Code Qualifier		X	ID 1/2	
			Code designating the system/method of code structure used for Identification Code (67)				
			2		Standard Carrier Alpha Code (SCA	C)	
TD	503	67	Identification Code		de	X	AN 2/4
		Code identifying a party or other code			party or other code		
TD	504	91	Transportation Method/Type Code		X	ID 1/2	
			Code specifying the method or type of transportation for the shipm			shipment	
			Α		Air		
			AC		Air Charter		
			AE		Air Express		
			С		Consolidation		
			CE		Customer Pickup / Customer's Expe	ense	

E Expedited Truck

L Contract Carrier

LT Less Than Trailer Load (LTL)

M Motor (Common Carrier)

MP Motor (Package Carrier)

P Private Carrier

PT Pooled Truck

R Rail

RR Roadrailer

Used for shipments that travel by roadrailer, i.e., a

multimodal rail/highway trailer

S Ocean

SR Supplier Truck

W Inland Waterway

Segment: TD3 Carrier Details (Equipment)

Position: 130 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify transportation details relating to the equipment used by the carrier

**Syntax Notes: 1** Only one of TD301 or TD310 may be present.

If TD302 is present, then TD303 is required.If TD304 is present, then TD305 is required.

4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes: Comments:

## **Data Element Summary**

Ref.	Data	Data Lienient Summary					
Des.	Eleme	<u>ent</u>	<u>Name</u>				
TD	301	40	<b>Equipment Description Code</b>			ID 2/2	
			Code identifying type of equipment used for shipment				
			AP	Aircraft			
			RR	Rail Car			
			TL	Trailer (not otherwise specified)			
			VE	Vessel, Ocean			
			VL	Vessel, Lake			
TD	302	206	Equipment Initial		0	AN 1/4	
			Prefix or alphabetic part of an equipment unit's identifying number				
TD	303	207	Equipment Number		X	AN 1/10	

Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

Segment: REF Reference Identification

Position: 260 Loop: N1 Optional

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

# **Data Element Summary**

	Ref. Des.	Data Elem	<u>ent</u>	<u>Name</u>	Attributes	· · · · · · · · · · · · · · · · · · ·		
M	RE	F01	128	Refer	ence Identi	fication Qualifier	M	ID 2/3
				Code	qualifying th	e Reference Identification		
				BM		Bill of Lading Number		
				CN		Carrier's Reference Number (PRO/I	nvoid	ce)
				RC		Rail Routing Code		
				DK		Dock		
				SI		Shipment Number		
				OL		Shipment Number		
				PK		Shipment Number		
				MB		Shipment Number		
	RE	F02	127	Refer	ence Identi	fication	X	AN 1/30

The value of the indicated qualifier

Segment: N1 Name

Position: 220 Loop: N1 Optional

Level: Detail Usage: Optional Max Use: 1

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

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Comments: 1 The "ID Code" (N104) must provide a key to the table maintained by the

transaction processing party.

#### **Data Element Summary**

Ref. Data

<sup>\*\*</sup>Only one of the 'SI', 'OL', 'PK', or 'MB' qualifiers is expected\*\*

	Des. Element		Name Attrib	<u>utes</u>		
M	N101	98	Entity Identif	fier Code	M	ID 4/4
			Code identify an individual	ing an organizational entity, a physic	cal location	, property or
			MI	Planning Schedule/Material R	elease Issu	ıer
			SF	Ship From		
			ST	Ship To		
			SU	Supplier/Manufacturer		
	N102	93	Name		X	AN 1/30
			Free-form na	me		
	N103	66	Identification	n Code Qualifier	X	ID 1/2
			Code designation	ating the system/method of code stru Code (67)	ucture used	l for
			1	D-U-N-S Number, Dun & Brad	dstreet	
			92	Assigned by Buyer or Buyer's	Agent	
	N104	67	Identification	n Code	X	AN 2/30

Code identifying a party or other code

Segment: HL Hierarchical Level – Order/Tare/Item Level

Position: 010 Loop: HL Mandatory

Level: Detail Usage: Mandatory Max Use: 1

**Purpose:** To identify dependencies among and the content of hierarchically related groups

of data segments
Syntax Notes:
Semantic Notes:

**Comments:** 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

<sup>\*\*\*</sup>An N1 segment must be provided for each 'MI', 'ST', and 'SU'. Only the 'SF' Supplier Ship From N1 segment is optional.\*\*\*

- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

	Def Defe		Data Element	Summary		
	Ref. Data <u>Des.</u> <u>Element</u>		Name Attributes	<u>S</u>		
M	HL01	628	Hierarchical ID I	Number	M	AN 1/12
			•	assigned by the sender to identify a rarchical structure	partic	ular data
	HL02	734	Hierarchical Par	ent ID Number	0	AN 1/12
				nber of the next higher hierarchical da ing described is subordinate to	ıta se	gment that the
M	HL03	735	Hierarchical Lev	vel Code	M	ID 1/2
			Code defining the	e characteristic of a level in a hierarch	ical s	tructure
			1	Item (loose and detail container lev	el)	
			0	Order level		
			Т	Tare (master container)		

#### Examples:

#### **Detail ASN With master and detail containers:**

HL\*1\*\*S (shipment)

HL\*2\*1\*O (order)

HL\*3\*2\*T (first master container linked to order level)

HL\*4\*3\*I (detail container linked to first pallet)

HL\*5\*2\*T (second master container linked to order level)

HL\*6\*5\*I (detail container linked to second master)

HL\*7\*5\*I (detail container linked to second master)

#### Detail ASN With loose containers, master, and detail:

HL\*1\*\*S (shipment)

HL\*2\*1\*O (order)

HL\*3\*2\*I (first loose container linked to order level)

HL\*4\*2\*I (second loose container linked to order level)

\*\*\*HL with 'I' for loose containers always come before master/detail containers\*\*\*

HL\*5\*3\*T (first master container linked to order level)

HL\*6\*5\*I (detail container linked to first master)

HL\*7\*5\*I (detail container linked to first master)

#### **Detail ASN With only loose containers:**

HL\*1\*\*S (shipment)

HL\*2\*1\*O (order)

HL\*3\*2\*I (first loose container linked to order level)

HL\*4\*2\*I (second loose container linked to order level)

#### Detail ASN With no containers, order level only:

HL\*1\*\*S (shipment)

HL\*2\*1\*O (order)

#### Detail ASN With no containers, item level only:

HL\*1\*\*S (shipment)

HL\*2\*1\*I (item)

The X12 segments available for the Order, Tare, and Item levels are all the same, but their usage may differ.

Segment: LIN Item Identification

Position: 020

**Loop:** HL Mandatory

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify basic item identification data

**Syntax Notes: 1** If either LIN04 or LIN05 is present, then the other is required.

If either LIN06 or LIN07 is present, then the other is required.
If either LIN08 or LIN09 is present, then the other is required.
If either LIN10 or LIN11 is present, then the other is required.
If either LIN12 or LIN13 is present, then the other is required.

Semantic Notes: LIN01 is the line item identification

**Comments:** This segment will be required for HL-O, HL-T, and HL-I loops. The indicator that this segment is for identifying the customer part and item properties will be when LIN02 = 'BP'. Any other value in LIN02 will indicate a loose, master, or detail container. If this LIN is for the buyer part, then elements LIN03 – LIN13 will be used.

#### **Data Element Summary**

	Ref.	Data		Data E	lement Summary				
	Des.	Elen	<u>nent</u>	Name Att	<u>tributes</u>				
	LIN	101	350	Assigned	I Identification	0	AN 1/20		
				Alphanum set	neric characters assigned for differentiation w	rithin	a transaction		
M	LIN	102	235	Product/S	Service ID Qualifier	M	ID 2/2		
					Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
				BP	Buyer's Part Number				
M	LIN	103	234	Product/\$	Service ID	M	AN 1/30		
				Buyer's Pa	art Number				
	LIN	104	235	Product/\$	Service ID Qualifier	X	ID 2/2		
					ntifying the type/source of the descriptive nun dervice ID (234)	าber เ	used in		
				РО	Purchase Order Number				
	LIN	105	234	Product/S	Service ID	X	AN 1/20		
				Purchase	Order Number (when applicable)				
	LIN	106	235	Product/S	Service ID Qualifier	X	ID 2/2		
					ntifying the type/source of the descriptive nun dervice ID (234)	าber เ	used in		
				EC	Engineering Change Level				

LIN07	234	Product/Service	ID	X	AN 1/20
		Engineering Chan	ge Level (when applicable)		
LIN08	235	Product/Service	ID Qualifier	X	ID 2/2
		Code identifying the Product/Service ID	ne type/source of the descriptive num 0 (234)	ber u	sed in
		RY	Record Keeping or Model Year		
LIN09	234	Product/Service	ID	X	AN 1/20
		Model Year (if app	olicable)		
LIN12	235	Product/Service	ID Qualifier	X	ID 2/2
		Code identifying the Product/Service ID	ne type/source of the descriptive num 0 (234)	ber u	sed in
		KB	Data Category Code		
		KP	Kanban Plan Number		
LIN13	234	Product/Service	ID	X	AN 1/30
		Pull Signal (when	applicable)		

Segment: SN1 Item Detail (Shipment)

**Position:** 030 **Loop:** HL Mandatory

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify line-item detail relative to shipment

Syntax Notes: 1
Semantic Notes: 1
If either SN105 or SN106 is present, then the other is required.
SN101 is the ship notice line-item identification.

**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.

**Data Element Summary** 

	Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes		
M	M SN102 382		382	Number of Units Shipped	M	R 1/10
				Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
M	M SN103 355		355	Unit or Basis for Measurement Code	M	ID 2/2
			Code specifying the units in which a value is being exprin which a measurement has been taken	esse	d, or manner	
			Refer to 004010 Data Element Dictionary for acce	Refer to 004010 Data Element Dictionary for acceptable	e cod	e values.
	SN1	04	646	Number of Units Shipped to Date	M	R 1/10
				Numeric value of units shipped in manufacturer's shippi	na ur	nits for a line

Numeric value of units shipped in manufacturer's shipping units for a line

item or transaction set – a CUM shipped quantity

Segment: PRF Purchase Order Reference

**Position:** 050 **Loop:** HL Mandatory

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To provide reference to a specific purchase order

**Syntax Notes:** 

**Semantic Notes:** 1 PRF04 is the date assigned by the purchaser to purchase order.

Comments:

**Data Element Summary** 

Ref. Data
Des. Element
Name Attributes

M PRF01 324 Purchase Order Number

Identifying number for Purchase Order assigned by the orderer/purchaser

PRF02 328 Release Number

O AN 1/20

Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

Segment: MEA Measurements

Position: 080

Loop: HL Level: Detail Usage: Optional Max Use: 40

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances,

variances, and weights (See Figures Appendix for example of use of C001) **Syntax Notes:** At least one of MEA03 MEA05 MEA06 or MEA08 is required.

**Semantic Notes:** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06. **Comments:** 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.

#### **Data Element Summary**

Ref. Dat			Name Attributes					
Des. Ele MEA01	<u>737</u>	Name Attribute	es Reference ID Code	0	ID 2/2			
WEAT 101		Weasurement	Measurement Neierence ID Code O ID 2/2					
		Code identifying	g the broad category to which a meas	suremer	nt applies			
		PD	Physical Dimensions					
MEA02	738	Measurement	Qualifier	0	ID 1/3			
		Code identifying measurement a	g a specific product or process chara applies	cteristic	to which a			
		G	Gross Weight					
		N	Actual Net Weight					
		Т	Tare Weight					
MEA03	739	Measurement	Value	X	R 1/20			
		The value of the	e measurement					
MEA04	C001	Composite Un	it of Measure	X				
		To identify a co examples of us	mposite unit of measure (See Figure	es Appe	ndix for			
C00101	355	Unit or Basis f	or Measurement Code	M	ID 2/2			
			g the units in which a value is being e surement has been taken	expresse	ed, or manner			
		KG	Kilogram					
		LB	Pound					

M

\*\*This segment is used to indicate weight properties of the buyer part only\*\*

Segment: REF Reference Identification

Position: 150 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.

If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

Comments:

### **Data Element Summary**

	Ref. Data Des. Elei	a <u>ment</u>	Name Attribute	<u>s</u>		
M	REF01	128	Reference Ident	tification Qualifier	M	ID 2/3
			Code qualifying t	he Reference Identification		
			KB	Beginning Kanban Serial Number		
			KP			
				This qualifier is used for Kanban Nu	umbe	r.
			LT	Lot Number		

REF02 127 Reference Identification X AN 1/30

Dock Number, Line Feed and/or Reserve Line Feed (when applicable)

<sup>\*\*</sup>This segment is used to reference either Kanban pull signals or lot numbers for the buyer part only\*\*

SEGMENT: CLD Load Detail

LEVEL: Detail - Item LOOP: HL/CLD Repeat: 1

USAGE: Optional MAX USE: 1

**PURPOSE:** To specify the number and type of a container

**COMMENT:** 

**EXAMPLE:** CLD\*1\*700\* BIN52

#### **Data Element Summary**

M	Ref. <u>Des.</u> CLI	Data <u>Eleme</u> D01	ent 622	Name Attributes  Number of Loads  Number of customer-defined loads shipped by the supplier. This is the number of containers for this type.	M	NO 1/5
	CLI	D02	382	Number of Units Shipped  Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.  Total item/part quantity per container.	M	R 1/10
	CLD03 103		103	Packaging Code  Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required. Any valid X12 code value except mutually	M	AN 3/5

defined. This is the container code.

SEGMENT: REF Reference Identification

LEVEL: Detail - Item LOOP: HL/CLD USAGE: Optional MAX USE: 200

**PURPOSE:** To specify identifying information

**COMMENT:** 

Ref. Data

Des. Element Name Attributes

**REF01** 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

Either "LS" for serial number or "LT" for lot number

**REF02** 127 Reference Identification. X AN 1/20

The serial number or lot number value.

Segment: **ETD** Excess Transportation Detail

Position: 300 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify information relating to premium transportation

Syntax Notes: 1
 Semantic Notes: 1
 If either ETD03 or ETD04 is present, then the other is required.
 ETD03 qualifies the authorization number given in EDT04.

Comments:

Data Element	Summarv
--------------	---------

	Ref. Data Des. Elem		Name A	ttributes		
M	ETD01	626	Excess	Transportation Reason Code	M	ID 1/2
				entifying the reason for shipment via premium tr an the normal mode of transportation	ansp	ortation
			ZZ	Mutually Defined		
M	ETD02	627	Excess	Transportation Responsibility Code	M	ID 1/1
				entifying the organization responsible for paying tation costs	the	premium
			Z	Mutually Defined		
	ETD03	128	Referen	ce Identification Qualifier	X	ID 2/3
			Code qu	alifying the Reference Identification		
			ZZ	Mutually Defined		
	ETD04	127	Referen	ce Identification	Χ	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. **This is the AETC number.** 

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Optional Max Use: 1

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

**Semantic Notes:** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

# **Data Element Summary**

		ata <u>lement</u>	Name Attributes		
M	CTT0	354	Number of HL segments	M	N0 1/6
			Total number of line items in the transaction set		
	CTT02	2 347	Hash Total	0	R 1/10

Segment: **SE** Transaction Set Trailer

Position: 020

Loop:

**Level:** Summary **Usage:** Mandatory **Max Use:** 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

#### **Data Element Summary**

	Ref. Dat <u>Des.</u> <u>Ele</u>	a <u>ment</u>	Name Attributes		
M	SE01	96	Number of Included Segments	M	N0 1/10
			Total number of segments included in a transaction se SE segments	t inclu	uding ST and
M	SE02	329	Transaction Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

# **Generic Ship Notice Example**

# No containers being used

```
ISA*00*
                 * 0 0 *
                               *01*SWTESTSUPP5
                                                  *01*SWTESTCUST
*060608*1352*U*00401*00000041*0*T*~
GS*SH*SWTESTSUPP5*SWTESTCUST*20060608*1352*41*X*004010
ST*856*0001
BSN*00*77001363*20060608*1352
DTM*011*20060608*1256
DTM*017*20060608*1256
HL*1**S
MEA*PD*G*1504*LB
MEA*PD*N*1500*LB
TD5*B*2*SCAC
TD5***E
TD3*RR**RailCarNo
REF*BM*billOfLadingNo
REF*PK*shipperNo
REF*DK*dock1
N1*SU**1*supplierId
N1*ST**1*shipToId
N1*MI**92*facilityId
N1*SF**92*shipFromId
HL*2*1*0
LIN**BP*buyerPartNo*PO*poNumber1*EC*engineeringChg*RY*modelYear2012***KB*kbanPullSignalNo
SN1**800*EA*325200**EA
PRF*poNumber1*releaseNo
MEA*PD*N*1000*LB
MEA*PD*G*1100*LB
REF*KB*PullSignal1
REF*LT*LotNo1
ETD*ZZ*Z*ZZ*AetcNo
CTT*1*800
SE*44*0001
GE*1*41
IEA*1*000000041
```

#### Line Item with only Loose container

```
*00*
                               *01*SWTESTSUPP5
                                                *01*SWTESTCUST
*060608*1352*U*00401*00000041*0*T*~
GS*SH*SWTESTSUPP5*SWTESTCUST*20060608*1352*41*X*004010
ST*856*0001
BSN*00*77001363*20060608*1352
DTM*011*20060608*1256
DTM*017*20060608*1256
HL*1**S
MEA*PD*G*1504*LB
MEA*PD*N*1500*LB
TD5*B*2*SCAC
TD5***E
TD3*RR**RailCarNo
REF*BM*billOfLadingNo
REF*PK*shipperNo
REF*DK*dock1
N1*SU**1*supplierId
N1*ST**1*shipToId
N1*MI**92*facilityId
N1*SF**92*shipFromId
HT.*2*1*0
LIN**BP*buyerPartNo*PO*poNumber1*EC*engineeringChg*RY*modelYear2012***KB*kbanPullSignalNo
SN1**800*EA*325200**EA
PRF*poNumber1*releaseNo
MEA*PD*N*1000*LB
MEA*PD*G*1100*LB
REF*KB*PullSignal1
```

```
REF*LT*LotNo1
ETD*ZZ*Z*Z*Z*AetcNo
HL*3*2*I
LIN**LS*LOOSE CONTAINER
CLD*2*200*RTCXX
REF*LS*serialNo1
CTT*1*800
SE*44*0001
GE*1*41
IEA*1*000000041
```

#### Line Item with only Loose container

#### **Master and Detail Container example**

```
*01*SWTESTSUPP5
ISA*00*
               * 0 0 *
                                           *01*SWTESTCUST
*060608*1352*U*00401*00000041*0*T*~
GS*SH*SWTESTSUPP5*SWTESTCUST*20060608*1352*41*X*004010
ST*856*0001
BSN*00*77001363*20060608*1352
DTM*011*20060608*1256
DTM*017*20060608*1256
HL*1**S
MEA*PD*G*1504*LB
MEA*PD*N*1500*LB
TD5*B*2*SCAC
TD5***E
TD3*RR**RailCarNo
REF*BM*billOfLadingNo
REF*PK*shipperNo
N1*SU**1*supplierId
N1*ST**1*shipToId
N1*MI**92*facilityId
N1*SF**92*shipFromId
HL*2*1*0
SN1**800*EA*325200**EA
PRF*C1
MEA*PD*N*1000*LB
MEA*PD*G*1100*LB
REF*KB*PullSignal1
REF*LT*LotNo1
ETD*ZZ*Z*ZZ*AetcNo
HL*3*2*T
LIN**RC*RETURNABLE CONTAINER
CLD*2*200*RTC25
REF*LS*CJ1000009
HL*4*3*I
LIN**DT*DETAIL CONTAINER
CLD*2*200*RTCXX
REF*LS*CJ1000010
CTT*4*800
SE*44*0001
GE*1*41
IEA*1*000000041
```

# 856 Infor Supplier Exchange – Generic Ship Notice – Manifest / Version 004010 (exported from Infor Supplier Exchange)

Functional Group ID=SH

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

ea		

	Pos. No.	Seg. <u>ID</u>	Req. Name Des.	Loop <u>Max.Use</u>	Notes a	ind <u>Comments</u>
M	010	ST	Transaction Set	t Header	M	1
M	020	BSN	Beginning Segr	nent for Ship No	tice M	1
	040	DTM	Date/Time Refe	erence	0	10

#### Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>		Notes and Repeat Comments	
			LOOP ID – HL - Shipment		200000
M	010	HL	Hierarchical Level	M 1	c1
	080	MEA	Measurements	O 40	
	110	TD1	Carrier Details (Quantity and We	eight O 1	
	120	TD5	Carrier Details (Routing Sequence Time)	ce/Transit O 12	
	130	TD3	Carrier Details (Equipment)	O 12	
	150	REF	Reference Identification	O >1	
	210	FOB	F.O.B. Related Instructions	0 1	
			LOOP ID - N1		200

	220	N1	Name		0 1	
	280					
M	010	HL	Hierarchical Level – Order/Tare/Item	Leve	elM 1	
	020	LIN	Item Identification		O 1	
	150	REF	Reference Identification		0 >1	
	030	SN1	Item Detail (Shipment)		O 1	
	050	PRF	Purchase Order Reference		O 1	
	300	ETD	Excess Transportation Detail		0 1	
			LOOP ID - CLD			200
	170	CLD	Load Detail	0	>1	
	180	REF	Reference Information	0	>1	

#### **Summary:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes and Repeat Comments	
	010	CTT	Transaction Totals	O 1	n1
M	020	SE	Transaction Set Trailer	M 1	

#### **Transaction Set Notes**

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

#### **Transaction Set Comments**

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

The 856 ASN is the electronic representation of the supplier's physical shipment. The 856 uses hierarchal loops (HLs) to represent the physical shipment in electronic form. Hierarchal loops can be designated with a function by assigning the HL segment hierarchal level code HL03 to a specific value. The HL03 values used in the Infor Supplier Exchange implementation are S, O, T, and I. HL03 Explanations:

• S = HL Shipment (only one HLS per 856)

- O = HL Order (as Orders on the shipment, the HLO loops would repeat as children of the HLS). The HLO level represents the actual item being shipped and is required when containers are being used.
- T = HL Tare (Pallet/Master container level, the HLT loops would repeat as children of the HLO)
- I = HL Line Item (The HLI level represents a detail container of a pallet/master (child of HLT) or a loose/single container of the order (child of HLO). If no containers are being used, the HLI can be a child of the Shipment, to indicate the actual item being shipped.

The HL loops can be sent in the following nested combinations:

S-O: shipment header, shipped item

S-O-I: shipment header, shipped item, loose container

S-O-T-I: shipment header, shipped item, master container, detail container of master shipment header, shipped item, loose container, master container, detail

container of master

S-I: shipment header, shipped item

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

**Data Element Summary** 

	Ref. Data Des. Eler	a <u>nent</u>	Name Attribu	<u>utes</u>		
M	ST01	143	Transaction	Set Identifier Code	M	ID 3/3
			Code uniquely	y identifying a Transaction Set		
			856	Ship Notice/Manifest		
M	ST02	329	Transaction	Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: BSN Beginning Segment for Ship Notice

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the

transaction set

**Semantic Notes:** 1 BSN03 is the date the shipment transaction set is created.

**2** BSN04 is the time the shipment transaction set is created.

3 BSN06 is limited to shipment related codes.

**Data Element Summary** 

	Ref. Data <u>Des.</u> <u>Eler</u>	a <u>nent</u>	Name Attril	<u>outes</u>		
M	BSN01	353	Transaction	Set Purpose Code	M	ID 2/2
			Code identif	ying purpose of transaction set		
			00	Original		
			01	Cancellation		

M	BSN02	396	Shipment Identification	M	AN 2/30
			A unique control number assigned by the original shipper specific shipment	er to	identify a
M	BSN03	373	Date	M	DT 8/8
			Date expressed as CCYYMMDD		
M	BSN04	337	Time	M	TM 4/8
			T'	400	

Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59)

Segment: DTM Date/Time Reference

Position: 040

Loop:

Level: Heading Usage: Optional Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes: 1** At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

#### **Data Element Summary**

	Ref. Des.	Data Eleme	<u>ent</u>	<u>Name</u>	<u>Attributes</u>	,		
M	DTI	W01	374	Date/	Time Qualif	ier	M	ID 3/3
				Code	specifying ty	pe of date or time, or both date and t	ime	
				011		Shipped		
				017		Estimated Delivery		
	DTI	W02	373	Date			X	DT 8/8
				Date 6	expressed as	s CCYYMMDD		
	DTI	W03	337	Time			X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59)

Segment: **HL** Hierarchical Level - Shipment

**Position:** 010 **Loop:** HL Mandatory

Level: Detail Usage: Mandatory Max Use: 1

Purpose: To identify dependencies among and the content of hierarchically related groups

of data segments

#### Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

- 2. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

- 4. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, tare, or item-level information.
- 5. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

			Data Element Summary		
	Ref. Data <u>Des. Elem</u>		Name Attributes		
M	HL01	628	Hierarchical ID Number	M	AN 1/12
			A unique number assigned by the sender to identify a segment in a hierarchical structure	partic	ular data
	HL02	734	Hierarchical Parent ID Number	0	AN 1/12
			Identification number of the next higher hierarchical data segment being described is subordinate to	ita se	gment that the
M	HL03	735	Hierarchical Level Code	M	ID 1/2
			Code defining the characteristic of a level in a hierarch	ical s	tructure
			S Shipment		

Segment: MEA Measurements

Position: 080 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 40

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances,

variances, and weights (See Figures Appendix for example of use of C001)

# **Data Element Summary**

Ref. Data		Data Liement	•			
Des. Elen	<u>nent</u>	Name Attributes	<u>5</u>			
MEA01	737	Measurement Re	eference ID Code	0	ID 2/2	
		Code identifying t	Code identifying the broad category to which a measur			
		PD	Physical Dimensions			
MEA02	738	Measurement Qu	ualifier	0	ID 1/3	
		Code identifying a specific product or process characteristic to which a measurement applies				
		G	Gross Weight			
		N	Actual Net Weight			
		Т	Tare Weight			
MEA03	739	Measurement Va	alue	X	R 1/20	
		The value of the r	measurement			
MEA04	C001	Composite Unit	of Measure	X		
		To identify a compexamples of use)	posite unit of measure (See Figures	Appe	ndix for	
C00101	355	Unit or Basis for	Measurement Code	M	ID 2/2	
			he units in which a value is being exprement has been taken	resse	ed, or manner	
		KG	Kilogram			

Pound

Segment: TD1 Carrier Details (Quantity and Weight)

LB

Position: 110 Loop: HL Mandatory

Level: Detail Usage: Mandatory

M

Max Use: 12

Purpose: To specify the transportation details relative to commodity, weight, and quantity

Data Element Summary	Data	Element	Summary
----------------------	------	---------	---------

Ref. Data		Data Element Summary		
Des. Elem	•	Name Attributes		
TD101	103	Packaging Code Description	0	AN 3/5
		Codes are defined by the customer.		
TD102	80	Lading Quantity Description	X	N 1/10
		Number of units (pieces) of the lading		
		commodity		

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 120 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify the carrier and sequence of routing and provide transit time

information

**Comments:** 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Ref.	Data		Data Element Summary					
Des.	Eleme	<u>ent</u>	Name Attributes	<u>5</u>				
TD	501	133	Routing Sequen	ce Code	0	ID 1/2		
			Code describing movement	Code describing the relationship of a carrier to a specific shipment movement				
			В	Origin/Delivery Carrier (Any Mode)				
TD	502	66	Identification Co	ode Qualifier	X	ID 1/2		
			Code designating the system/method of code structure used for Identification Code (67)					
			2	Standard Carrier Alpha Code (SCA	C)			
TD	503	67	Identification Co	ode	X	AN 2/4		
			Code identifying	a party or other code				
TD	504	91	Transportation I	Method/Type Code	X	ID 1/2		
			Code specifying t	the method or type of transportation for	or the	shipment		
			А	Air				
			AC	Air Charter				
			AE	Air Express				
			С	Consolidation				
			CE	Customer Pickup / Customer's Expe	ense			
			Е	Expedited Truck				
			L	Contract Carrier				

LT Less Than Trailer Load (LTL)

M Motor (Common Carrier)

MP Motor (Package Carrier)

P Private Carrier

PT Pooled Truck

R Rail

RR Roadrailer

Used for shipments that travel by roadrailer, i.e., a

multimodal rail/highway trailer

S Ocean

SR Supplier Truck

W Inland Waterway

Segment: TD3 Carrier Details (Equipment)

**Position:** 130 **Loop:** HL Mandatory

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify transportation details relating to the equipment used by the carrier

# **Data Element Summary**

Ref. Des.	Data Eleme	<u>ent</u>	Name	<u>Attributes</u>	••••••••••••••••••••••••••••••••••••••		
TD:	301	40	Equip	ment Descri	iption Code	X	ID 2/2
			Code	dentifying typ	pe of equipment used for shipment		
			AP		Aircraft		
			RR		Rail Car		
			TL		Trailer (not otherwise specified)		
			VE		Vessel, Ocean		
			VL		Vessel, Lake		
TD	302	206	Equip	ment Initial		0	AN 1/4
			Prefix or alphabetic part of an equipment unit's identifying				mber
TD:	303	207	Equip	ment Numb	er	Χ	AN 1/10

Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

Segment: REF Reference Identification

**Position:** 260 **Loop:** N1 Optional

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

**Data Element Summary** 

Ref. Data

<u>Des. Element</u> <u>Name Attributes</u>

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

BM Bill of Lading Number

CN Carrier's Reference Number (PRO/Invoice)

RC Rail Routing Code

DK Dock

REF02 127 Reference Identification X AN 1/30

The value of the indicated qualifier

Segment: N1 Name

Position: 220 Loop: N1 Optional

Level: Detail Usage: Optional Max Use: 1

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

transaction processing party.

# **Data Element Summary**

	Ref. Data Des. <u>Element</u>		Name Attrib	<u>utes</u>		
M	N101	98	Entity Identi	fier Code	M	ID 4/4
			Code identify an individual	Code identifying an organizational entity, a physical local an individual		, property or
			MI	Planning Schedule/Material Rel	lease Issu	ıer
			ST	Ship To		
			SU	Supplier/Manufacturer		
	N102	93	Name		X	AN 1/30
			Free-form na	me		
	N103	66	Identification	n Code Qualifier	Χ	ID 1/2
			Code designal Identification	ating the system/method of code struction (67)	ture used	I for
			1	D-U-N-S Number, Dun & Brads	treet	
			92	Assigned by Buyer or Buyer's A	gent	
	N104	67	Identification	n Code	X	AN 2/30

Code identifying a party or other code

Segment: FOB F.O.B. Related Instructions

Position: 280 Loop: N1 Optional

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify transportation instructions relating to shipment

Comments:

# **Data Element Summary**

	Ref. Da			nent Summary		
M	Des. Ele	<u>ement</u> 146		outes lethod of Payment	М	ID 2/2
				ying payment terms for transportatio	n charges	
			CC	Collect		
			PP	Prepaid (by Seller)		

Segment: **HL** Hierarchical Level – Order/Tare/Item Level

Position: 010 Loop: HL Mandatory

Level: Detail Usage: Mandatory Max Use: 1

**Purpose:** To identify dependencies among and the content of hierarchically related groups

of data segments
Syntax Notes:
Semantic Notes:

**Comments:** 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

	Ref. Data <u>Des.</u> <u>Elem</u>		Name Attributes	<u> </u>		
M	HL01	628	Hierarchical ID I	Number	M	AN 1/12
		A unique number assigned by the sender to identify a particular segment in a hierarchical structure				
	HL02	734	Hierarchical Par	rent ID Number	0	AN 1/12
				nber of the next higher hierarchical da ing described is subordinate to	ıta seç	gment that the
M	HL03	735	Hierarchical Lev	vel Code	M	ID 1/2
			Code defining the	e characteristic of a level in a hierarch	nical s	tructure
			1	Item (loose and detail container lev	el)	
			Ο	Order level		
			Т	Tare (master container)		

#### Examples:

#### Detail ASN With master and detail containers:

```
HL*1**S (shipment)
HL*2*1*O (order)
HL*3*2*T (first master container linked to order level)
HL*4*3*I (detail container linked to first pallet)
HL*5*2*T (second master container linked to order level)
HL*6*5*I (detail container linked to second master)
HL*7*5*I (detail container linked to second master)
```

#### Detail ASN With loose containers, master, and detail:

```
HL*1**S (shipment)
HL*2*1*O (order)
HL*3*2*I (first loose container linked to order level)
HL*4*2*I (second loose container linked to order level)
```

# \*\*\*HL with 'I' for loose containers always come before master/detail containers\*\*\*

```
\rm HL^*5^*3^*T (first master container linked to order level) \rm HL^*6^*5^*I (detail container linked to first master) \rm HL^*7^*5^*I (detail container linked to first master)
```

#### **Detail ASN With only loose containers:**

```
HL*1**S (shipment)
HL*2*1*O (order)
HL*3*2*I (first loose container linked to order level)
HL*4*2*I (second loose container linked to order level)
```

#### Detail ASN With no containers, order level only:

```
HL*1**S (shipment)
HL*2*1*O (order)
```

#### Detail ASN With no containers, item level only:

```
HL*1**S (shipment)
HL*2*1*I (item)
```

The X12 segments available for the Order, Tare, and Item levels are all the same, but their usage may differ.

Segment: LIN Item Identification

Position: 020 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify basic item identification data

**Comments:** This segment will be required for HL-O, HL-T, and HL-I loops. The indicator that this segment is for identifying the customer part and item properties will be when LIN02 = 'BP'. Any other value in LIN02 will indicate a loose, master, or detail container. If this LIN is for the buyer part, then elements LIN03 – LIN13 will be used.

	Def	Data Element Summary Ref. Data						
	Ref. <u>Des.</u>			<u>Name</u>	Attributes	<u>5</u>		
	LIN	101	350	Assig	ned Identif	fication	0	AN 1/20
				Alphar set	numeric cha	aracters assigned for differentiation w	ithin a	a transaction
M	LIN	102	235	Produ	ct/Service	ID Qualifier	M	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
				BP		Buyer's Part Number		
M	LIN	103	234	Produ	ct/Service	ID	M	AN 1/30
				Buyer's	Buyer's Part Number			
	LIN	104	235	Produ	ct/Service	ID Qualifier	X	ID 2/2
				Code identifying the type/source of the descriptive numb Product/Service ID (234)		ber used in		
				РО		Purchase Order Number		
	LIN	105	234	Produ	ct/Service	ID	X	AN 1/20
				Purcha	ase Order N	Number (when applicable)		
	LIN	106	235	Produ	Product/Service ID Qualifier		X	ID 2/2
				Code identifying the type/source of the descriptive numb Product/Service ID (234)		nber u	used in	
				EC		Engineering Change Level		
	LIN	107	234	Produ	ct/Service	ID	X	AN 1/20
				Engine	eering Char	nge Level (when applicable)		

LIN08	235	Product/Service	X	ID 2/2		
			Code identifying the type/source of the descriptive numl Product/Service ID (234)			
		RY	Record Keeping or Model Year			
LIN09	234	Product/Service	ID	X	AN 1/20	
		Model Year (if app	plicable)			
LIN12	235	Product/Service ID Qualifier			ID 2/2	
		, ,	Code identifying the type/source of the descriptive number Product/Service ID (234)		ised in	
		KB	Data Category Code			
		KP	Kanban Plan Number			
LIN13	234	Product/Service	ID	X	AN 1/30	
		Pull Signal (when				

Segment: REF Reference Identification

**Position:** 150 **Loop:** HL Mandatory

**Level:** Detail **Usage:** Optional **Max Use:** >1

**Purpose:** To specify identifying information

**Comments:** 

**Data Element Summary** 

Ref. Data
Des. Element

Name Attributes

M REF01 128 Reference Identification Qualifier

M ID 2/3

Code qualifying the Reference Identification

LF Line Feed

LT Lot Number

REF02 127 Reference Identification

K AN 1/30

Line Feed or Lot Number

Segment: SN1 Item Detail (Shipment)

Position: 030 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 1

M

**Purpose:** To specify line-item detail relative to shipment

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M SN102 382 Number of Units Shipped

M R 1/10

Numeric value of units shipped in manufacturer's shipping units for a line

item or transaction set

SN103 355 Unit or Basis for Measurement Code

M ID 2/2

Code specifying the units in which a value is being expressed, or manner

in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

# SN104 646 Number of Units Shipped to Date

M R 1/10

Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set – a CUM shipped quantity

Segment: PRF Purchase Order Reference

**Position:** 050 **Loop:** HL Mandatory

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To provide reference to a specific purchase order

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M PRF01 324 Purchase Order Number

M AN 1/20

Identifying number for Purchase Order assigned by the orderer/purchaser

PRF02 328 Release Number

O AN 1/20

Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

Segment: ETD Excess Transportation Detail

Position: 300 Loop: HL Mandatory

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify information relating to premium transportation

**Data Element Summary** 

	Ref. Data <u>Des.</u> <u>Element</u>		Name A	<u>attributes</u>	······································			
M	ETD01	626	Excess	tion Reason Code	M	ID 1/2		
				, ,	reason for shipment via premium nal mode of transportation	transp	oortation	
			ZZ	N	Mutually Defined			
M	ETD02	627	Excess	Transporta	tion Responsibility Code	M	ID 1/1	
			Code identifying the organization responsible for paying the premium transportation costs					
			Z	N	Mutually Defined			
	ETD03	128	Referen	ce Identific	eation Qualifier	X	ID 2/3	

Code qualifying the Reference Identification

# ZZ Mutually Defined

#### ETD04 127 Reference Identification X

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. **This is the AETC number.** 

AN 1/30

SEGMENT: CLD Load Detail

LEVEL: Detail - Item LOOP: HL/CLD Repeat: 1

USAGE: Optional MAX USE: 1

**PURPOSE:** To specify the number and type of a container

**COMMENT:** 

**EXAMPLE:** CLD\*1\*700\* BIN52

#### **Data Element Summary**

	Ref. Des.	Data <u>Element</u>		Name Attributes		
M	M CLD01 622		622	Number of Loads	M	NO 1/5
				Number of customer-defined loads shipped by the supplier. This is the number of containers for this type.		
	CLE	002	382	Number of Units Shipped	M	R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.  Total item/part quantity per container.			
	CLD	003	103	Packaging Code  Code identifying the type of packaging;	M	AN 3/5
				Part 1: Packaging Form Part 2: Packaging Material:		

Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always

required. Any valid X12 code value except mutually

defined. This is the container code.

SEGMENT: REF Reference Identification

LEVEL: Detail - Item LOOP: HL/CLD USAGE: Optional MAX USE: 200

**PURPOSE:** To specify identifying information

**COMMENT:** 

Ref. Data

Des. Element Name Attributes

REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

Either "LS" for serial number or "LT" for lot number

REF02 127 Reference Identification. X AN 1/20

The serial number or lot number value.

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Optional Max Use: 1

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

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

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

**Semantic Notes:** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

#### **Data Element Summary**

	Ref. Dat <u>Des.</u> Ele	a <u>ment</u>	Name Attributes		
M	CTT01	354	Number of HL segments	M	N0 1/6
			Total number of line items in the transaction set		
	CTT02	347	Hash Total	0	R 1/10

Segment: SE Transaction Set Trailer

Position: 020

Loop:

Level: Summary Usage: Mandatory Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

	Ref. D	ata	Data Element Summary						
	Des. E	lement	Name Attributes	ame Attributes					
M	SE01 96		Number of Included Segments	M	N0 1/10				
			Total number of segments included in a transaction set SE segments	inclu	uding ST and				
M	SE02	329	Transaction Set Control Number	M	AN 4/9				

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

#### **Generic Ship Notice Example**

#### No containers being used

```
ISA*00*
                 * 0 0 *
                               *01*SWTESTSUPP5
                                                   *01*SWTESTCUST
*060608*1352*U*00401*00000041*0*T*~
GS*SH*SWTESTSUPP5*SWTESTCUST*20060608*1352*41*X*004010
ST*856*0001
BSN*00*77001363*20060608*1352
DTM*011*20060608*1256
DTM*017*20060608*1256
HL*1**S
MEA*PD*G*1504*LB
MEA*PD*N*1500*LB
TD1*BOX1*2
TD1*CNT90*20
TD5*B*2*SCAC
TD5***E
TD3*RR**RailCarNo
REF*BM*billOfLadingNo
REF*PK*shipperNo
REF*DK*dock1
N1*SU**1*supplierId
N1*ST**1*shipToId
N1*MI**92*facilityId
FOB*CC
HL*2*1*0
LIN**BP*buyerPartNo*PO*poNumber1*EC*engineeringChg*RY*modelYear2012***KB*kbanPullSignalNo
REF*LT*LotNo
REF*LF*LineFeedNo
SN1**800*EA*325200**EA
PRF*poNumber1*releaseNo
ETD*ZZ*Z*ZZ*AetcNo
CTT*1*800
SE*44*0001
GE*1*41
IEA*1*000000041
```

#### Line Item with only Loose container

```
*00*
                               *01*SWTESTSUPP5
                                                 *01*SWTESTCUST
*060608*1352*U*00401*00000041*0*T*~
GS*SH*SWTESTSUPP5*SWTESTCUST*20060608*1352*41*X*004010
ST*856*0001
BSN*00*77001363*20060608*1352
DTM*011*20060608*1256
DTM*017*20060608*1256
HL*1**S
MEA*PD*G*1504*LB
MEA*PD*N*1500*LB
TD1*BOX1*2
TD1*CNT90*20
TD5*B*2*SCAC
TD5***E
TD3*RR**RailCarNo
REF*BM*billOfLadingNo
REF*PK*shipperNo
REF*DK*dock1
N1*SU**1*supplierId
N1*ST**1*shipToId
N1*MI**92*facilityId
HL*2*1*0
LIN**BP*buyerPartNo*PO*poNumber1*EC*engineeringChg*RY*modelYear2012***KB*kbanPullSignalNo
REF*LT*LotNo
REF*LF*LineFeedNo
SN1**800*EA*325200**EA
```

```
PRF*poNumber1*releaseNo
ETD*ZZ*Z*Z*AetcNo
HL*3*2*I
LIN**LS*LOOSE CONTAINER
CLD*Z*Z00*RTCXX
REF*LS*serialNo1
CTT*1*800
SE*44*0001
GE*1*41
IEA*1*000000041Line Item with only Loose container
```

#### **Master and Detail Container example**

```
*01*SWTESTSUPP5
                                                          *00*
                                                                                                                                                                       *01*SWTESTCUST
 *060608*1352*U*00401*00000041*0*T*~
 GS*SH*SWTESTSUPP5*SWTESTCUST*20060608*1352*41*X*004010
 ST*856*0001
BSN*00*77001363*20060608*1352
DTM*011*20060608*1256
DTM*017*20060608*1256
HL*1**S
MEA*PD*G*1504*LB
MEA*PD*N*1500*LB
TD1*BOX1*2
 TD1*CNT90*20
TD5*B*2*SCAC
TD5***E
TD3*RR**RailCarNo
REF*BM*billOfLadingNo
REF*PK*shipperNo
N1*SU**1*supplierId
N1*ST**1*shipToId
N1*MI**92*facilityId
 FOB*CC
HL*2*1*0
 \verb|LIN**BP*buyerPartNo*PO*poNumber1*EC*engineeringChg*RY*modelYear2012***KB*kbanPullSignal | AlbanPullSignal | AlbanPul
REF*LT*LotNo
REF*LF*LineFeedNo
 SN1**800*EA*325200**EA
PRF*poNumber1*releaseNo
ETD*ZZ*Z*ZZ*AetcNo
HL*3*2*T
LIN**RC*RETURNABLE CONTAINER
CLD*2*200*RTC25
REF*LS*CJ1000009
HL*4*3*I
 LIN**DT*DETAIL CONTAINER
CLD*2*200*RTCXX
REF*LS*CJ1000010
CTT*4*800
SE*44*0001
GE*1*41
 IEA*1*000000041
```

# 861 Infor Supplier Exchange – Generic Receiving Advice / Version 004010

# Functional Group ID=RC

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Receiving Advice/Acceptance Certificate Transaction Set (861) 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 notification of receipt or formal acceptance of goods and services.

#### Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Name Des.	Loop <u>Max.Use</u>		tes an <u>oeat</u> C	d Comments		
M	010	ST	Transaction Se	t Header		M	1		
M	020	BRA	0 0	ment for Receivir ptance Certificat	_	M	1		n1
	050	REF	Reference Ider	ntification		0	>1		
М	070	DTM	Date/Time Refe	erence		М	10		
	100	TD5	Carrier Details Sequence/Trar	,		0	12		
	110	TD3	Carrier Details	(Equipment)		0	12		
			LOOP ID - N1					200	
	130	N1	Name			Ο	1		

#### Detail:

Pos. No.	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes and Repeat Comments	
		LOOP ID - RCD		200000
010	RCD	Receiving Conditions	O 1	
020	SN1	Item Detail (Shipment)	0 1	
040	LIN	Item Identification	O 100	
070	REF	Reference Identification	O 12	

#### Summary:

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

#### **Transaction Set Notes**

- 1. This transaction set is a Receiving Advice unless BRA04 contains a value of "8". When BRA04 contains a value of "8", the transaction set is an Acceptance Certificate and the units received is the units accepted.
- 2. The number of line items (CTT01) is the accumulation of the number of RCD segments. If used, hash total (CTT02) is the sum of the value of quantities received (RCD02) for each RCD segment.

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

			Da	a Element Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Attributes		
M	STO	143	Trans	action Set Identifier Code	M	ID 3/3
			Code	uniquely identifying a Transaction	Set	
			861	Receiving Advice/Ac	ceptance Certificate	<del>)</del>
M	STO	2 329	Trans	action Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: BRA Beginning Segment for Receiving Advice or Acceptance Certificate

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To indicate the beginning of a Receiving Advice or Acceptance Certificate

Transaction Set and transmit an identifying number, date, and time

**Syntax Notes:** 

**Semantic Notes:** 1 BRA02 is the date that the receiving advice transaction set is

created.

**2** BRA05 is the time that the receiving advice transaction set is created.

#### Comments:

#### **Data Element Summary**

	Ref. Data	a nent		Attributes		
8.4					B.4	ANI 4/20
M	BRA01	127	Referen	ce Identification	M	AN 1/30
				ce information as defined for a particular Trans d by the Reference Identification Qualifier	actio	n Set or as
M	BRA02	373	Date		M	DT 8/8
			Date exp	pressed as CCYYMMDD		
M	BRA03	353	Transac	ction Set Purpose Code	M	ID 2/2
			Code ide	entifying purpose of transaction set		
			00	Original		
			01	Cancellation		
			05	Replace		
M	BRA04	962	Receivi Code	ng Advice or Acceptance Certificate Type	M	ID 1/1
			Code sp	ecifying type of receiving advice		
			1	Receiving Dock Advice		
			2	Post Receipt Advice		
			3	Disposition Advice		
	BRA05	337	Time		0	TM 4/8
				pressed in 24-hour clock time as follows: HHM 0-23), M = minutes (00-59) and S = integer sec		
	BRA06	412	Receivi	ng Condition Code	0	ID 2/2

Code designating physical condition or status of units received in a specific shipment

07 Good Condition

08 Rejected

BRA07 306 Action Code O ID 1/2

Code indicating type of action

This element is only used if no line items are being sent and then the action code with refer to the entire shipper.

U Reject

Inability to accept for processing due to the lack of

required information

WQ Accept

Segment: REF Reference Identification

Position: 050

Loop:

Level: Heading Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

BAF Receipt Number

BM Bill of Lading Number

PK Packing List Number

SI Shipper's Identifying Number for Shipment (SID)

A unique number (to the shipper) assigned by the

shipper to identify the shipment

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: DTM Date/Time Reference

Position: 070

Loop:

Level: Heading Usage: Mandatory Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes: 1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M DTM01 374 Date/Time Qualifier M ID 3/3

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

		009	Process		
		011	Shipped		
		050	Received		
DTM02	373	Date		X	DT 8/8
		Date express	sed as CCYYMMDD		
DTM03	337	Time		X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59)

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 100

Loop:

Level: Heading Usage: Optional Max Use: 12

**Purpose:** To specify the carrier and sequence of routing and provide transit time

information

Syntax Notes: 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.

If TD502 is present, then TD503 is required.
If TD507 is present, then TD508 is required.
If TD510 is present, then TD511 is required.
If TD513 is present, then TD512 is required.
If TD514 is present, then TD513 is required.
If TD515 is present, then TD512 is required.

**Semantic Notes:**1 TD515 is the country where the service is to be performed.

Comments: 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

#### **Data Element Summary**

Ref.	Data		Data Element Summary						
Des.	Eleme	<u>ent</u>	<u>Name</u>	<u>Attributes</u>					
TD501 133		133	Routi	0	ID 1/2				
				Code describing the relationship of a carrier to a specific ship movement					
			Refer	to 004010 D	Data Element Dictionary for acceptab	le cod	de values.		
TD502 66		66	Identi	X	ID 1/2				
			Code designating the system/method of code structure used for Identification Code (67)						
			2		Standard Carrier Alpha Code (SCA	C)			
TD	503	67	Identi	fication Co	de	X	AN 2/80		
			Code	identifying a	party or other code				
TD	504	91	Trans	portation N	lethod/Type Code	X	ID 1/2		
			Code	specifying th	ne method or type of transportation for	or the	shipment		
			Α		Air				
			AC		Air Charter				
			AE		Air Express				
			С		Consolidation				

CE Customer Pickup / Customer's Expense

E Expedited Truck

L Contract Carrier

LT Less Than Trailer Load (LTL)

M Motor (Common Carrier)

MP Motor (Package Carrier)

P Private Carrier

PT Pooled Truck

R Rail

RR Roadrailer

Used for shipments that travel by roadrailer, i.e., a

multimodal rail/highway trailer

S Ocean

SR Supplier Truck

W Inland Waterway

Segment: TD3 Carrier Details (Equipment)

Position: 110

Loop:

Level: Heading Usage: Optional Max Use: 12

**Purpose:** To specify transportation details relating to the equipment used by the carrier

**Syntax Notes: 1** Only one of TD301 or TD310 may be present.

If TD302 is present, then TD303 is required.

Semantic Notes: Comments:

#### **Data Element Summary**

Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes	<u>s</u>		
TD	TD301 40		Equipment Des	<b>Equipment Description Code</b>		
			Code identifying	Code identifying type of equipment used for shipment		
			AP	Aircraft		
			RR	Rail Car		
			TL	Trailer (not otherwise specified)		
			VE	Vessel, Ocean		
			VL	Vessel, Lake		
TD	302	206	Equipment Initia	al	0	AN 1/4
Prefix or alphabetic part of an equipment unit's identifying						umber
TD	303	207	Equipment Num	nber	X	AN 1/10

Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

Segment: N1 Name

**Position:** 130 **Loop:** N1 Optional

Level: Heading Usage: Optional Max Use: 1

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

#### **Data Element Summary**

	Ref. Data Des. Elen		Name Attribute	<u>s</u>		
M	N101	98	Entity Identifier	Code	M	ID 2/3
			Code identifying an individual	an organizational entity, a physical loc	cation	, property or
			MI	Planning Schedule/Material Releas	e Issi	uer
			SF	Ship From		
			ST	Ship To		
			SU	Supplier/Manufacturer		
	N102	93	Name		X	AN 1/60
			Free-form name			
	N103	66	Identification C	ode Qualifier	X	ID 1/2
			Code designating Identification Code	g the system/method of code structure de (67)	e used	d for
			1	D-U-N-S Number, Dun & Bradstree	t	
			92	Assigned by Buyer or Buyer's Ager	nt	
	N104	67	Identification C	ode	X	AN 2/80

Code identifying a party or other code

Segment: RCD Receiving Conditions

Position: 010 Loop: RCD Optional

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To report receiving conditions and specify contested quantities **Syntax Notes:** 1 At least one of RCD02 RCD04 or RCD06 is required.

If either RCD02 or RCD03 is present, then the other is required.
If either RCD04 or RCD05 is present, then the other is required.
If any of RCD06 RCD07 or RCD08 is present, then all are required.
If any of RCD09 RCD10 or RCD11 is present, then all are required.
If any of RCD12 RCD13 or RCD14 is present, then all are required.
If any of RCD15 RCD16 or RCD17 is present, then all are required.
If any of RCD18 RCD19 or RCD20 is present, then all are required.

**Semantic Notes:** 1 RCD01 is the receiving advice line item identification.

2 RCD21 is the cumulative quantity of goods received for a specific time period.

Comments: 1 See the Data Element Dictionary for a complete list of receiving condition IDs.

**2** RCD06 through RCD20 provide for five different quantities whose condition upon receipt is under question.

	Ref. Dat	a	Data Element S	Summary				
		<u>ment</u>	Name Attributes					
	RCD01	350	Assigned Identifi	cation	0	AN 1/20		
			Alphanumeric cha set	Alphanumeric characters assigned for differentiation within a transaction set				
	RCD02	663	Quantity Units R	eceived or Accepted	X	R 1/9		
			Number of Units Received or Accepted					
	RCD06 667		Quantity in Question			R 1/9		
			Number of units co	Number of units contested because of physical condition or status of units				
	RCD07	C001	Composite Unit of	of Measure	Χ			
			To identify a composite unit of measure (See Figures Appendix for examples of use)					
M	C00101	355	Unit or Basis for	Measurement Code	M	ID 2/2		
				ne units in which a value is being exprement has been taken	esse	d, or manner		
			EA	Each				
			FT	Foot				
			PC	Piece				

# RCD08 412 Receiving Condition Code X ID 2/2

Code designating physical condition or status of units received in a specific shipment

07 Good Condition

08 Rejected

Segment: SN1 Item Detail (Shipment)

Position: 020 Loop: RCD Optional

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify line-item detail relative to shipment

Syntax Notes: 1
Semantic Notes: 1
If either SN105 or SN106 is present, then the other is required.
SN101 is the ship notice line-item identification.

Semantic Notes:

1 SN101 is the ship notice line-item identification.

SN103 defines the unit of measurement for both SN102 and SN104.

	Ref. Data		Data Element	Summary		
	Des. Elem	ent	Name Attributes	<u> </u>		
	SN101	350	Assigned Identi	fication	0	AN 1/20
			Alphanumeric chaset	aracters assigned for differentiation w	ithin :	a transaction
M	SN102	382	Number of Units	s Shipped	M	R 1/10
			Numeric value of item or transaction	units shipped in manufacturer's shipp on set	oing u	ınits for a line
M	SN103	355	Unit or Basis for	r Measurement Code	M	ID 2/2
				the units in which a value is being expurement has been taken	oresse	ed, or manner
			EA	Each		
			FT	Foot		
			PC	Piece		
	SN104	646	Quantity Shippe	ed to Date	0	R 1/15

Number of units shipped to date

LIN Item Identification Segment:

Position: 040 Loop: RCD Optional

Level: Detail **Usage:** Optional Max Use: 100

Purpose: To specify basic item identification data

Syntax Notes: 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required.

11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required.

14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: LIN01 is the line item identification Comments:

See the Data Dictionary for a complete list of IDs. 2 LIN02 through LIN31 provide for fifteen different product/service IDs for

each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

#### **Data Element Summary**

	Ref. Des.				Attributes	•		
	LIN	01	350	Assig	ned Identif	ication	0	AN 1/20
				Alpha set	numeric cha	racters assigned for differentiation v	vithin	a transaction
M	LING	02	235	Produ	uct/Service	ID Qualifier	M	ID 2/2
					identifying t uct/Service II	he type/source of the descriptive nur D (234)	nber (	used in
				BP		Buyer's Part Number		
M	LIN	03	234	Produ	uct/Service	ID	M	AN 1/48
				Buyer	's Part Num	ber		
	LING	04	235	Produ	uct/Service	ID Qualifier	X	ID 2/2
				Code identifying the type/source of the descriptive number Product/Service ID (234)		nber (	used in	
				РО		Purchase Order Number		

LIN05	234	Product/Service	e ID	X	AN 1/48
		Purchase Order	(when applicable)		
LIN06	235	Product/Service	e ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number of the description of the description of the descriptive number of the description of		
		EC	Engineering Change Level		
LIN07	234	Product/Service	e ID	Χ	AN 1/48
		Engineering Cha	ange Level (when applicable)		
LIN08	235	Product/Service	e ID Qualifier	X	ID 2/2
		, ,	Code identifying the type/source of the descriptive numl Product/Service ID (234)		
		RY	Record Keeping or Model Year		
LIN09	234	Product/Service	e ID	X	AN 1/48
		Model Year (whe	en applicable)		
LIN10	235	Product/Service	e ID Qualifier	X	ID 2/2
		Code identifying Product/Service	the type/source of the descriptive nur ID (234)	nber (	used in
		PL	Purchaser's Order Line Number		
LIN11	234	Product/Service	e ID	X	AN 1/40
		Purchase Order	Line Number (when applicable)		
LIN12	235	Product/Service	e ID Qualifier	X	ID 2/2
		Code identifying Product/Service	the type/source of the descriptive nur ID (234)	nber (	used in
		KB	Data Category Code		
LIN13	234	Product/Service	e ID	X	AN 1/48
		Pull Signal (whe	n applicable)		
LIN14	235	Product/Service	e ID Qualifier	X	ID 2/2
		Code identifying Product/Service	the type/source of the descriptive nur ID (234)	nber (	used in

VP Vendor's (Seller's) Part Number

LIN15 234 Product/Service ID X AN 1/48

Identifying number for a product or service

Segment: REF Reference Identification

**Position:** 070 **Loop:** RCD Optional

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

Comments:

M

Ref.

**Data** 

**Data Element Summary** 

<u>Des. Element Name Attributes</u>

REF01 128 Reference Identification Qualifier

M ID 2/3

Code qualifying the Reference Identification

DK Dock Number

REF02 127 Reference Identification X AN 1/30

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

241

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Optional Max Use: 1

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

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

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

**Semantic Notes:** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction

completeness and correctness.

#### **Data Element Summary**

	Ref. Data <u>Des.</u> <u>Elen</u>		Name Attributes				
M	CTT01	354	Number of Line Items	M	N0 1/6		
			Total number of line items in the transaction set				
	CTT02	347	Hash Total	0	R 1/10		

Segment: SE Transaction Set Trailer

Position: 020

Loop:

Level: Summary Usage: Mandatory Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

#### **Data Element Summary**

Ref. Data

Des. Element Name Attributes

M SE01 96 Number of Included Segments M N0 1/10

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

#### M SE02 329 Transaction Set Control Number M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

# **Generic Receiving Advice Example**

```
ISA*00*
                 *00*
                               *ZZ*X12SUPPLIER *ZZ*KARENSCUST
*040610*1009*U*00400*00000013*0*P*~
GS*RC*X12SUPPLIER*KARENSCUST*20040610*1009*23*X*004010
ST*861*0001
BRA*X12-01*20040730*00*1*0846*08
REF*BAF*X12-02
REF*SI*S-X1201
DTM*011*20040729*0715
DTM*050*20040730*0846
TD5**2*SCAC*TL
TD3*LT**VNbr
N1*ST**92*10
N1*SU**92*X12SUPPLIER
N1*MI**92*10
RCD**1000****1000*EA*07
SN1**1000*EA*5000
LIN**BP*X12-Part01*PO*PONbr*EC*ECL*RY*MY*PL*1*KB*PullSignal
REF*DK*Dock
CTT*1
SE*17*0001
GE*1*23
IEA*1*000000013
```

# 862 Infor Supplier Exchange - Generic Shipping Schedule / Version 004010

Functional Group ID=\$\$

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipping Schedule Transaction Set (862) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a customer to convey precise shipping schedule requirements to a supplier, and is intended to supplement the planning schedule transaction set (830). The shipping schedule transaction set will supersede certain shipping and delivery information transmitted in a previous planning schedule transaction, but it does not replace the 830 transaction set. The shipping schedule transaction set shall not be used to authorize labor, materials or other resources. The use of this transaction set will facilitate the practice of Just-In-Time (JIT) manufacturing by providing the customer with a mechanism to issue precise shipping schedule requirements on a more frequent basis than with the issuance of a planning schedule transaction, e.g., daily shipping schedules versus weekly planning schedules. The shipping schedule transaction also provides the ability for a customer location to issue shipping requirements independent of other customer locations when planning schedule transactions are issued by a consolidated scheduling organization.

#### Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. Des.		Notes a Repeat	nd <u>Comments</u>	
M	010	ST	Transa	ction Set	Header	M	1	
M	020	BSS			nent for Shipping action Sequence	j M	1	
			LOOP	ID - N1				200
	050	N1	Name			Ο	1	

#### Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Name Des. Max	Loop . <u>Use</u>	Notes an	nd Comments	
			LOOP ID - LIN				10000
M	010	LIN	Item Identification		М	1	
M	020	UIT	Unit Detail		М	1	
	045	PRS	Part Release Status		0	1	
	050	REF	Reference Identificati	on	0	12	
	060	PER	Administrative Comm	nunications	0	1	

		Contact							
		LOOP ID - FST	100						
080	FST	Forecast Schedule	0	1					
		LOOP ID - SHP			10				
140	SHP	LOOP ID - SHP Shipped/Received Information	0	1	10				

# Summary:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes and Repeat Comments	
	010	CTT	Transaction Totals	O 1	n1
M	020	SE	Transaction Set Trailer	M 1	

#### **Transaction Set Notes**

1. The number of lines items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the value of the quantities (FST01) for each FST segment.

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

			Data Elem	ent Summary			
	Ref. Data <u>Des.</u> <u>Element</u>		Name Attrib	Name Attributes			
M	ST01	143	Transaction	Set Identifier Code	M	ID 3/3	
			Code uniquel	y identifying a Transaction Set			
			862	Shipping Schedule			
M	ST02	329	Transaction	Set Control Number	M	AN 4/9	

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: BSS Beginning Segment for Shipping Schedule/Production Sequence

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the

transaction set

Syntax Notes: 1 At least one of BSS07 or BSS08 is required.
Semantic Notes: 1 Use BSS02 to indicate a document number.

**2** Use BSS03 to indicate the date of this document.

**3** Use BSS05 to indicate the schedule horizon start date (the date when the schedule begins).

**4** Use BSS06 to indicate the schedule horizon end date (the date when the schedule ends).

**5** BSS08 is the identifying number for a forecast assigned by the orderer/purchaser.

#### Comments:

M	Ref. Data <u>Des.</u> <u>Elem</u> BSS01		00	s Purpose Code purpose of transaction set Original	M	ID 2/2	
			04	Change			
			05	Replace			
	BSS02	127	Release Numbe	r	0	AN 1/30	
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
			Used in the outbo	ound file only.			
	BSS03	373	Release Date		0	DT 8/8	
			Date expressed	as CCYYMMDD			
M	BSS04	675	Schedule Type	Qualifier	M	ID 2/2	
				the type of dates used when defining schedule or forecast	a shi <sub>l</sub>	pping or	
			DL	Delivery Based			
			SH	Shipment Based			
	BSS05	373	Release Date		0	DT 8/8	

# Date expressed as CCYYMMDD

			Used in the outboo	und file only.				
M	BSS07	328	Release Number		M	AN 1/20		
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction					
			Used on the inbound 862 only.					
	BSS10	324	Purchase Order	Number	0	AN 1/22		
			Identifying number for Purchase Order assigned by the orderer/purchaser					
	BSS11	676	Schedule Quantity Qualifier			ID 1/1		
			Code identifying the type of quantities used when defining a sc forecast					
			А	Actual Discrete Quantities				

Segment: N1 Name

**Position:** 050 **Loop:** N1 Optional

Level: Heading Usage: Optional Max Use: 1

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

2 N105 and N106 further define the type of entity in N101.

	Ref. Data	a nent	Data Element Summary  Name Attributes					
M	Des. Eler N101	98	Entity Identi		M	ID 2/3		
				Code identifying an organizational entity, a physical location, property or an individual				
			MI	Planning Schedule/Material Rel	ease Issi	uer		
			ST	Ship To				
			SU	Supplier/Manufacturer				
	N102	93	Name		X	AN 1/50		
			Free-form na	ame				
	N103	66	Identificatio	Identification Code Qualifier		ID 1/2		
			Code designating the system/method of code structure used for Identification Code (67)					
			1	D-U-N-S Number, Dun & Brads	treet			
			92	Assigned by Buyer or Buyer's A	gent			
N104 67		67	Identification Code		X	AN 2/30		
			Code identifying a party or other code					

LIN Item Identification Segment:

Position: 010

Loop: LIN Mandatory

13

14

Level: Detail **Usage:** Mandatory Max Use:

Purpose: To specify basic item identification data

Syntax Notes: 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. If either LIN16 or LIN17 is present, then the other is required. 7 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required.

If either LIN30 or LIN31 is present, then the other is required. Semantic Notes: LIN01 is the line item identification

See the Data Dictionary for a complete list of IDs. Comments:

2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

If either LIN28 or LIN29 is present, then the other is required.

#### Data Flement Summary

				Data Element	Summary		
	Ref. Data						
	Des.	Elem	<u>ent</u>	Name Attributes	<u>s</u>		
	LIN	101	350	Assigned Identi	fication	0	AN 1/20
				Alphanumeric ch set	aracters assigned for differentiation w	rithin	a transaction
M	LIN	102	235	Product/Service	ID Qualifier	M	ID 2/2
				Code identifying Product/Service	the type/source of the descriptive num ID (234)	nber (	used in
				BP	Buyer's Part Number		
M	LIN	103	234	Product/Service	e ID	M	AN 1/30
				Buyer's Part Num	nber		
	LIN	104	235	Product/Service	e ID Qualifier	X	ID 2/2
				Code identifying Product/Service	the type/source of the descriptive num ID (234)	nber (	used in
				РО	Purchase Order Number		

LIN05	234	Product/Service ID	X	AN 1/40
		Purchase Order Number (when applicable)		
LIN06	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive nu Product/Service ID (234)	mber (	used in
		PL Purchaser's Order Line Number		
LIN07	234	Product/Service ID	X	AN 1/40
		Purchase Order Line Number (when applicable)		
LIN08	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive nu Product/Service ID (234)	mber ı	used in
		EC Engineering Change Level		
LIN09	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
LIN10	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive nu Product/Service ID (234)	mber ı	used in
		RY Record Keeping or Model Year		
LIN11	234	Product/Service ID	X	AN 1/20
		Model Year (when applicable)		
LIN12	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive nu Product/Service ID (234)	mber ı	used in
		PD Part Number Description		
LIN13	234	Product/Service ID	X	AN 1/50
		Buyer's Part Description (when applicable)		

Segment: UIT Unit Detail

Position: 020

Loop: LIN Mandatory

Level: Detail Usage: Mandatory Max Use: 1

**Purpose:** To specify item unit data

**Syntax Notes: 1** If UIT03 is present, then UIT02 is required.

Semantic Notes: Comments:

**Data Element Summary** 

	Ref. Dat <u>Des.</u> <u>Ele</u>	a <u>ment</u>	Name Attributes		
M	UIT01	C001	Composite Unit of Measure	M	
			To identify a composite unit of measure (See Figures / examples of use)	4pper	ndix for
M	C00101	355	Unit or Basis for Measurement Code	M	ID 2/4

Code specifying the units in which a value is being expressed, or manner

in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: PRS Part Release Status

Position: 045

Loop: LIN Mandatory

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To indicate the status of the part being ordered or forecast with respect to this

material release or planning document

Syntax Notes: Semantic Notes: Comments:

		_
Data	Element	Summary

	Ref. Da	ita ement	Name Attributes	
M	PRS01	682	Part Release Status Code	M ID 1/2
			Code identifying the status of the specific part forecast or being used in an engineering char	0
			Refer to 004010 Data Element Dictionary for	acceptable code values.
	PRS02	352	Description	O AN 1/80

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

Segment: REF Reference Identification

Position: 050

**Loop:** LIN Mandatory

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.

If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

Comments:

#### **Data Element Summary**

	Ref. Data Des. Elen		Name Attri	butes		
M	REF01	128	Reference	dentification Qualifier	M	ID 2/30
			Dock Numb	er (when applicable)		
			DK	Dock Number		
	REF02	127	Reference	dentification	X	AN 1/30

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

**Segment:** PER Administrative Communications Contact

Position: 060

**Loop:** LIN Mandatory

Level: Detail Usage: Optional Max Use: 1

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

directed

**Syntax Notes: 1** If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

#### **Data Element Summary**

	Ref. Data <u>Des.</u> <u>Elem</u>		Name Attributes		
M	PER01	366	Contact Function Code	M	ID 2/2
			Code identifying the major duty or responsibility of the named	perso	on or group
			IC Information Contact		
	PER02	93	Name	0	AN 1/35
			Free-form name		
	PER03	365	Communication Number Qualifier	Χ	ID 2/2
			Code identifying the type of communication number		
			TE Telephone		
	PER04	364	Communication Number	Χ	AN 1/30
			Complete communications number including country of applicable	r area	a code when
	PER05	365	Communication Number Qualifier	Χ	ID 2/2
			Code identifying the type of communication number		
			FX Facsimile		
	PER06	364	Communication Number	X	AN 1/80
			Complete email address when applicable		
	PER07	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		

EM Electronic Mail

PER09 443 Contact Inquiry Reference

O AN 1/20

Additional reference number or description to clarify a contact number

Segment: FST Forecast Schedule

**Position:** 080 **Loop:** FST Optional

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify the forecasted dates and quantities

Syntax Notes: 1 If either FST06 or FST07 is present, then the other is required.
2 If either FST08 or FST09 is present, then the other is required.

**Semantic Notes:** 1 If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05

would be used for the end date of the flexible interval.

**Comments:** 1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly, quarterly, etc.) or the start date of a flexible interval.

**2** FST06 qualifies the time in FST07. The purpose of the FST07 element is to express the specific time of day in a 24-hour clock to satisfy "just-in-time" requirements. As an alternative, the ship/delivery pattern segment (SDP) may be used to define an approximate time, such as a.m. or p.m.

	Ref. Data	Data Element Summary ef. Data					
		<u>nent</u>	Name Attribu	<u>ites</u>			
M	FST01	380	Quantity		M	R 1/10	
			Numeric value	e of quantity			
M	FST02	680	Forecast Qua	alifier	M	ID 1/1	
				ng the sender's confidence level of the fated with a forecast	orecas	st data or an	
			С	Firm			
			D	Planning			
M	FST03	681	Forecast Tim	ing Qualifier	M	ID 1/1	
			Code specifyii	ng interval grouping of the forecast			
			D	Discrete			
			M	Monthly Bucket (Calendar Months)	)		
			W	Weekly Bucket (Monday through S	unday	<b>/</b> )	
M	FST04	373	Date		M	DT 8/8	
			Date expresse	ed as CCYYMMDD			
	FST06	374	Date/Time Qu	ualifier	X	ID 3/3	
			Code specifyii	ng type of date or time, or both date and	time		

		002	Delivery Requested		
		010	Requested Ship		
FST07	337	Time		X	TM 4/8
			n 24-hour clock time as follows: HHM = minutes (00-59) and S = integer se		
FST08	128	Reference Identi	fication Qualifier	X	ID 2/3
		Code qualifying th	ne Reference Identification		
		DO	Delivery Order Number		
			This qualifier will be used for inbour files.	nd an	d outbound
		КВ	Beginning Kanban Serial Number		
			This qualifier will be used for inbour	nd file	es only.
FST09	127	Reference Identi	fication	X	AN 1/30
		Doolor Order Nun	phor or Bull Signal (when applicable)		

Dealer Order Number or Pull Signal (when applicable)

Segment: SHP Shipped/Received Information

**Position:** 140 **Loop:** SHP Optional

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify shipment and/or receipt information

**Syntax Notes: 1** If SHP01 is present, then SHP02 is required.

2 If SHP03 is present, then at least one of SHP04 or SHP05 is required.

3 If SHP04 is present, then SHP03 is required.4 If SHP05 is present, then SHP03 is required.

**Semantic Notes:** 1 SHP04 is the date shipped, delivered, received, or the

cumulative quantity start date (as qualified by SHP03).

**2** SHP06 is the cumulative quantity end date.

Comments: 1 The SHP segment is used to communicate shipment, delivery, or receipt

information and may include discrete or cumulative quantities, dates, and times.

2 If SHP01 equals "02", "07", "08", "09", or "10" (indicating cumulative quantities), then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.

	_		Data Element S	Summary		
Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes			
SHF	P01	673	Quantity Qualifie	r	0	ID 2/2
			Code specifying th	ne type of quantity		
			02	Cumulative Quantity		
			12	Ship Notice Quantity		
SHF	P02	380	Quantity		X	R 1/10
			Numeric value of o	quantity		
SHF	P03	374	Date/Time Qualif	ier	X	ID 3/3
			Code specifying ty	pe of date or time, or both date and	time	
			011	Shipped		
			051	Cumulative Quantity Start		
SHF	P04	373	Date		X	DT 8/10

Date expressed as CCYYMMDD

Segment: REF Reference Identification

**Position:** 150 **Loop:** SHP Optional

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.
REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

<u>Des. Element Name Attributes</u>

M REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

SI Shipper's Identifying Number for Shipment (SID)

A unique number (to the shipper) assigned by the

shipper to identify the shipment

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Optional Max Use: 1

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

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

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

**Semantic Notes:** 

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

#### **Data Element Summary**

	Ref. Dat <u>Des.</u> Ele	a <u>ment</u>	Name Attributes		
M	CTT01	354	Number of Line Items	M	N0 1/6
			Total number of line items in the transaction set		
	CTT02	347	Hash Total	0	R 1/10

Segment: SE Transaction Set Trailer

Position: 020

Loop:

Level: Summary Usage: Mandatory Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

#### **Data Element Summary**

	Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes		
M	SEO	)1	96	Number of Included Segments	M	N0 1/10
				Total number of segments included in a transaction set SE segments	inclu	ding ST and
M	SEO	)2	329	Transaction Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

#### **Generic Shipping Schedule Example**

```
*00*
                                                                          *ZZ*KARENSCUST
                                                                                                                      *77*X12SUPPLIER
*040727*0642*U*00400*00000017*0*P*~
GS*SS*KARENSCUST*X12SUPPLIER*20040727*0642*17*X*004010
ST*862*0001
BSS*00*Rel-X12*20040722*DL*20040722*****A
N1*ST*Ship To 02*ZZ*02
N1*SU*X12 Supplier*ZZ*X12SUPPLIER
N1*MI*FACILITY ID: 10*ZZ*10
LIN*1*BP*X12-Part01*PO*PONumber-01***EC*ECL*RY**PD*X12-Part01 Description
UIT*EA
PRS*B
{\tt PER*IC*ContactName*TE*ContactPhone*FX*ContactFax*EM*Contact@email.com}
FST*000013000*C*D*20040726
FST*000014500*C*D*20040728
FST*000016000*C*D*20040802
FST*000017500*C*D*20040804
FST*000019500*C*D*20040809
FST*000021000*C*D*20040814
FST*000022500*C*D*20040816
FST*000024000*C*D*20040821
SHP***051*20040701
\verb|LIN*2*BP*X12-Part02*PO*PONumber-01***EC*ECL*RY**PD*X12-Part02 | Description | Annual Content of the Content
UIT*EA
PRS*B
PER*IC*ContactName*TE*ContactPhone*FX*ContactFax*EM*Contact@email.com
FST*000013000*C*D*20040726
FST*000014500*C*D*20040728
FST*000016000*C*D*20040802
FST*000017500*C*D*20040804
FST*000019500*C*D*20040809
FST*000021000*C*D*20040814
FST*000022500*C*D*20040816
FST*000024000*C*D*20040821
SHP***051*20040701
LIN*3*BP*X12-Part03*PO*PONumber-01***EC*ECL*RY**PD*X12-Part03 Description
UTT*EA
PER*IC*ContactName*TE*ContactPhone*FX*ContactFax*EM*Contact@email.com
FST*000013000*C*D*20040726
FST*000014500*C*D*20040728
FST*000016000*C*D*20040802
FST*000017500*C*D*20040804
FST*000019500*C*D*20040809
FST*000021000*C*D*20040814
FST*000022500*C*D*20040816
FST*000024000*C*D*20040821
SHP***051*20040701
CTT*3
SE*40*0001
GE*1*17
IEA*1*00000017
```

## 864 Infor Supplier Exchange - Text Message / Version 004010

Functional Group ID=**TX** 

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data content of the Text Message Transaction Set (864) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide users with a capability to electronically move messages, contracts, explanations, and other one-time communications. It is the intent of this transaction set to provide electronic communication (messages) for people, not for computer processing. The use of the transaction set to transmit quasi or unique transaction set standards is discouraged. The use of the Text Message transaction set demands of the sender certain detailed information about the recipient. The transaction set's purpose is to provide communication to the recipient in some human-readable form. The recipient's network will dictate what capabilities are available for delivery of the information. It is the responsibility of the sender to obtain this information and include it in the transmission.

#### Heading:

	Pos. No.	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes an Repeat C	d Comments	
M	010	ST	Transaction Set Header	M	1	
M	020	BMG	Beginning Segment For Text Message	M	1	
	030	DTM	Date/Time Reference	0	10	
			LOOP ID - N1			200
						200
	020	N1	Name	0	1	200
	020 060	N1 REF		0	1 12	

#### Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Loop <u>Max.Use</u>	Notes ar Repeat C	nd Comments	
			LOOP	ID - MIT				>1
М	010	MIT	Messag	ge Identi	fication	M	1	
			LOOP	ID - N1				200
	020	N1	Name			0	1	

	060	REF	Reference Identification	0	12
	070	PER	Administrative Communications Contact	0	3
M	080	MSG	Message Text	M	100000

## Summary:

	Pos. Seg.		Req.		Loop	Notes a	Notes and		
	No.	ID	<u>Name</u>	Des.	Max.Use	Repeat (	Comments		
M	010	SE	Transa	ction Se	et Trailer	M	1		

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

	- 4		Data Elen	nent Summary				
	Ref. Dat <u>Des. Ele</u>	a <u>ment</u>	Name Attrib	Name Attributes				
M	ST01 143		Transaction	Transaction Set Identifier Code				
			Code unique	ely identifying a Transaction Set				
			864	Text Message				
M	ST02	329	Transaction	Set Control Number	M	AN 4/9		

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: BMG Beginning Segment For Text Message

Position: 020

Loop:

Level: Heading Usage: Mandatory Max Use: 1

**Purpose:** To indicate the beginning of a Text Message Transaction Set

Syntax Notes: Semantic Notes:

**Comments:** 1 BMG02 contains the message subject.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M BMG01 353 Transaction Set Purpose Code M ID 2/2

Code identifying purpose of transaction set

00 Original

BMG02 352 Description O AN 1/80

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

Segment: DTM Date/Time Reference

Position: 030

Loop:

Level: Heading Usage: Optional Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes: 1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

3

#### **Data Element Summary**

	Ref. <u>Des.</u>	Data Elem	<u>ent</u>	<u>Name</u>	Attributes			
M	DTM01 374		374	Date/Time Qualifier M				ID 3/3
				Code	Code specifying type of date or time, or both date and time			
				007		Effective		
				043		Publication		
				097		Transaction Creation		
	DTI	W02	373	Date			X	DT 8/8
				Date	expressed as	s CCYYMMDD		
	DTI	W03	337	Time			Χ	TM 4/8

Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59)

Segment: N1 Name

**Position:** 020 **Loop:** N1 Optional

Level: Heading Usage: Optional Max Use: 1

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

2 N105 and N106 further define the type of entity in N101.

	Ref. Data		Data Elem				
	Des. Elen	_	Name Attrib	utes			
M	N101	98	Entity Identif	fier Code	M	ID 2/3	
			Code identifying an organizational entity, a physical location, property or an individual				
			FR	Message From			
			ТО	Message To			
	N102	93	Name		X	AN 1/60	
			Free-form na	me			
	N103	66	Identification	n Code Qualifier	X	ID 1/2	
			Code designa Identification	ating the system/method of code structur Code (67)	e used	d for	
			1	D-U-N-S Number, Dun & Bradstre	et		
			92	Assigned by Buyer or Buyer's Age	nt		
	N104	67	Identification	n Code	X	AN 2/30	

Code identifying a party or other code

Segment: REF Reference Identification

Position: 060 Loop: N1 Optional

Level: Heading Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.
REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

	Ref. Data <u>Des.</u> <u>Eler</u>	nent	Name Attrib	<u>utes</u>		
M	REF01	1 128	Reference lo	M	ID 2/3	
			Code qualifyi	ng the Reference Identification		
			ME	Message Address or ID		
	REF02	127	Reference Id	lentification	X	AN 1/30

**Data Element Summary** 

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

Segment: PER Administrative Communications Contact

**Position:** 070 **Loop:** N1 Optional

Level: Heading Usage: Optional Max Use: 3

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

directed

M

**Syntax Notes: 1** If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.
If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

Ref.

Data

**Data Element Summary** 

Des. Element Name Attributes

PER01 366 Contact Function Code

Code identifying the major duty or responsibility of the person or group

named

IC Information Contact

PER02 93 Name O AN 1/60

Free-form name

ID 2/2

M

**MIT** Message Identification Segment:

Position: 010

Loop: MIT Mandatory

Level: Detail **Usage:** Mandatory Max Use:

Purpose: To identify the beginning of a specific message and to allow the identification of a

subject for the message

**Syntax Notes:** 

**Semantic Notes:** MIT01 contains the message number.

MIT02 contains the message subject.

es: 2 1 2 Comments: MIT03 default is 80 characters.

MIT04 default is 66 lines.

#### **Data Element Summary**

	Ref. Des.	Data Elem	<u>ent</u>	Name Attributes		
M	MIT	01	127	Reference Identification	M	AN 1/30
				Reference information as defined for a particular Trans specified by the Reference Identification Qualifier	actio	n Set or as
	MIT	02	352	Description	0	AN 1/80

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

Segment: N1 Name

Position: 020 Loop: N1 Optional

Level: Detail Usage: Optional Max Use: 1

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

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

N105 and N106 further define the type of entity in N101.

	Ref. Data		Data Element Summary				
	Des. Elem		Name Attributes				
M	N101	98	Entity Identifier	Code	M	ID 2/3	
			Code identifying an organizational entity, a physical location, property or an individual				
			FR	Message From			
			ТО	Message To			
	N102	93	Name		X	AN 1/60	
			Free-form name				
	N103	66	Identification Co	de Qualifier	X	ID 1/2	
			Code designating Identification Cod	the system/method of code structure e (67)	e used	d for	
			1	D-U-N-S Number, Dun & Bradstree	et		
			92	Assigned by Buyer or Buyer's Ager	nt		
	N104	67	Identification Co	de	X	AN 2/80	

Code identifying a party or other code

276

Segment: REF Reference Identification

Position: 060 Loop: N1 Optional

Level: Detail Usage: Optional Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes: 1** At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.

If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

Comments:

#### **Data Element Summary**

	Ref. Data Des. Eler	a <u>nent</u>	Name Attrib	<u>utes</u>		
M	M REF01 128		Reference Identification Qualifier			ID 2/3
			Code qualifying the Reference Identification			
			ME	Message Address or ID		
	REF02	127	Reference Id	lentification	X	AN 1/30

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

Segment: PER Administrative Communications Contact

**Position:** 070 **Loop:** N1 Optional

Level: Detail Usage: Optional Max Use: 3

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

directed

**Syntax Notes: 1** If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.
If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

Ref.

Data

**Data Element Summary** 

Des. Element Name Attributes

M PER01 366 Contact Function Code

M ID 2/2

Code identifying the major duty or responsibility of the person or group

named

IC Information Contact

PER02 93 Name O AN 1/60

Free-form name

Segment: MSG Message Text

Position: 080

**Loop:** MIT Mandatory

Level: Detail Usage: Mandatory Max Use: 100000

**Purpose:** To provide a free-form format that allows the transmission of text information

**Syntax Notes: 1** If MSG03 is present, then MSG02 is required.

Semantic Notes:

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

MSG02 is not related to the specific characteristics of a printer, but

identifies top of page, advance a line, etc.

If MSG02 is "AA - Advance the specified number of lines before print"

then MSG03 is required.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M MSG01 933 Free-Form Message Text M AN 1/60

Free-form message text

Segment: SE Transaction Set Trailer

Position: 010

Loop:

M

Level: Summary Usage: Mandatory Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

SE02

329

**Comments:** 1 SE is the last segment of each transaction set.

	Ref. Des.	Data Eleme	<u>ent</u>	Name Attributes		
M	M SE01		96	Number of Included Segments	M	N0 1/10
				Total number of segments included in a transaction set SE segments	inclu	ding ST and

**Transaction Set Control Number** 

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

AN 4/9

M

### **Generic Text Message Example**

```
*00*
                              *ZZ*KARENSCUST
                                                *ZZ*X12SUPPLIER
*040728*1446*U*00400*00000020*0*P*~
GS*TX*KARENSCUST*X12SUPPLIER*20040728*1446*20*X*004010
ST*864*0001
BMG*00*New message for Fac 03 X12 Supplier
DTM*43*20040728*0830
N1*FR**1*03
N1*TO*X12SUPPLIER*1*X12SUPPLIER
REF*ME*1
MIT*1*New message for Fac 03 X12 Supplier
MSG*This is the first line - X12 (10)
MSG*This is the second line - X12 (10)
MSG*This is the third line - X12 (10)
MSG*This is the fourth line - X12 (10)
SE*12*0001
GE*1*20
IEA*1*000000020
```

# 997 Infor Supplier Exchange - Generic Functional Acknowledgment / Version 004010

# Functional Group ID=FA

#### Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

	Pos. <u>No.</u>	Seg. <u>ID</u>	Req. Loop  Name Des. Max.Use	Notes and Repeat Comments		
M	010	ST	Transaction Set Header	M 1		n1
M	020	AK1	Functional Group Response He	ader M 1		n2
			LOOP ID - AK2		999999	
	030	AK2	Transaction Set Response Hea	der O 1		n3
M	060	AK5	Transaction Set Response Trail	er M 1		
M	070	AK9	Functional Group Response Tra	ailer M 1		
M	080	SE	Transaction Set Trailer	M 1		

#### **Transaction Set Notes**

- These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. Nor shall a Functional Acknowledgment be sent to report errors in a previous Functional Acknowledgment.
  - The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.
  - There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- 3. AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Segment: ST Transaction Set Header

Position: 010

Loop: Level:

Usage: Mandatory Max Use: 1

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

**Syntax Notes:** 

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

Comments:

**Data Element Summary** 

	Ref. Data Des. Elei	a <u>ment</u>	Name Attribu	<u>ites</u>		
M	ST01	143	Transaction S	Set Identifier Code	M	ID 3/3
			Code uniquely	identifying a Transaction Set		
			997	Functional Acknowledgment		
M	ST02	329	Transaction \$	Set Control Number	M	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: AK1 Functional Group Response Header

Position: 020

Loop: Level:

Usage: Mandatory
Max Use: 1

**Purpose:** To start acknowledgment of a functional group

**Syntax Notes:** 

**Semantic Notes:** 1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.

**2** AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

Comments:

M

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

AK101 479 Functional Identifier Code M ID 2/2

Code identifying a group of application related transaction sets

Refer to 004010 Data Element Dictionary for acceptable code values.

Assigned number originated and maintained by the sender

N0 1/9

Segment: AK2 Transaction Set Response Header

**Position:** 030 **Loop:** AK2 Optional

Level:

Usage: Optional Max Use: 1

**Purpose:** To start acknowledgment of a single transaction set

**Syntax Notes:** 

Semantic Notes: 1 AK201 is the transaction set ID found in the ST segment (ST01)

in the transaction set being acknowledged.

2 AK202 is the transaction set control number found in the ST segment in

the transaction set being acknowledged.

Comments:

**Data Element Summary** 

Ref. Data

<u>Des. Element Name Attributes</u>

M AK201 143 Transaction Set Identifier Code M ID 3/3

Code uniquely identifying a Transaction Set

856 Ship Notice/Manifest

M AK202 329 Transaction Set Control Number M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: AK5 Transaction Set Response Trailer

**Position:** 060 **Loop:** AK2 Optional

Level:

**Usage:** Mandatory **Max Use:** 1

**Purpose:** To acknowledge acceptance or rejection and report errors in a transaction set

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

M AK501 717 Transaction Set Acknowledgment Code M ID 1/1

Code indicating accept or reject condition based on the syntax editing of the transaction set

A Accepted

R

Rejected

Segment: AK9 Functional Group Response Trailer

Position: 070

Loop: Level:

**Usage:** Mandatory

Max Use:

**Purpose:** To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group

Syntax Notes: Semantic Notes:

**Comments:** If AK901 contains the value "A" or "E", then the transmitted functional group is

accepted.

#### **Data Element Summary**

	Ref. Data <u>Des.</u> <u>Element</u>		Name Attributes	<u>S</u>			
M	AK901	715	Functional Grou	ıp Acknowledge Code	M	ID 1/1	
			Code indicating accept or reject condition based on the the functional group			tax editing of	
			А	Accepted			
			R	Rejected			
M	AK902	97	Number of Tran	saction Sets Included	M	N0 1/6	
			Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
M	AK903	123	Number of Rece	eived Transaction Sets	M	N0 1/6	
			Number of Trans	action Sets received			
M	AK904	2	Number of Acce	epted Transaction Sets	M	N0 1/6	
			Number of accepted Transaction Sets in a Functional Group				

Segment: **SE** Transaction Set Trailer

Position: 080

Loop: Level:

Usage: Mandatory Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

**Comments:** 1 SE is the last segment of each transaction set.

## **Data Element Summary**

	Ref. Data <u>Des.</u> <u>Element</u>		Name Attributes				
M	SE01	96	Number of Included Segments	M	N0 1/10		
			Total number of segments included in a transaction set SE segments	t inclu	iding ST and		
M	SE02	329	Transaction Set Control Number	M	AN 4/9		

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

## **Generic Functional Acknowledgement Example**

ISA\*00\* \*00\* \*ZZ\*174080838CORP \*01\*119076131
\*040811\*1430\*U\*00204\*000000256\*0\*P\*~
GS\*FA\*174080838CORP\*119076131\*040811\*1430\*256\*X\*004010
ST\*997\*0001
AK1\*SH\*100
AK2\*856\*1000001
AK9\*A\*1\*1\*1
SE\*5\*0001
GE\*1\*256
IEA\*1\*000000256