

X12 Files

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824 - 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. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and 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. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
			LOOP ID - OTI			>1	
M	010	OTI	Original Transaction Identification	M	1		n1
	020	REF	Reference Identification	O	12		n2
	030	DTM	Date/Time Reference	O	2		n3
			LOOP ID - TED			>1	
	070	TED	Technical Error Description	O	1		

M	090	SE	Transaction Set Trailer	M	1
---	-----	----	-------------------------	---	---

Transaction Set Notes

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

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.

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: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes: None
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: None

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			824 Application Advice	
M	ST02	329	Transaction Set Control Number	M AN 1/9
			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.

2 BGN03 is the transaction set date.

3 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.

Comments: None

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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 Transaction Set or as specified by the Reference Identification Qualifier	
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:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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 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	
			SF Ship From	
			ST Ship To	
	N102	93	Name	X AN 1/50
			Free-form name	
	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			92 Assigned by Buyer or Buyer's Agent	
			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:	1
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
Syntax Notes:	1 If OTI09 is present, then OTI08 is required.
Semantic Notes:	1 OTI03 is the primary reference identification or number used to uniquely identify the original transaction set. 2 OTI06 is the group date. 3 OTI07 is the group time. 4 If OTI11 is present, it will contain the version/release under which the original electronic transaction was translated by the receiver. 5 OTI12 is the purpose of the original transaction set, and is used to assist in its unique identification. 6 OTI13 is the type of the original transaction set, and is used to assist in its unique identification. 7 OTI14 is the application type of the original transaction set, and is used to assist in its unique identification. 8 OTI15 is the type of action indicated or requested by the original transaction set, and is used to assist in its unique identification. 9 OTI16 is the action requested by the original transaction set, and is used to assist in its unique identification. 10 OTI17 is the status reason of the original transaction set, and is used to assist in its unique identification.
Comments:	1 OTI02 contains the qualifier identifying the business transaction from the original business application, and OTI03 will contain the original business application identification. 2 If used, OTI04 through OTI08 will contain values from the original electronic functional group generated by the sender. 3 If used, OTI09 through OTI10 will contain values from the original electronic transaction set generated by the sender.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	OTI01	110	Application Acknowledgment Code	M ID 1/2
			Code indicating the application system edit results of the business data	
			TR Transaction Set Reject	
M	OTI02	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			MA Ship Notice/Manifest Number	
			SI Shipper's Identifying Number for Shipment (SID)	
			A unique number (to the shipper) assigned by the shipper to identify the shipment	
M	OTI03	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: REF Reference Identification

Position: 020
Loop: OTI 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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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: DTM Date/Time Reference

Position: 030
Loop: OTI Mandatory
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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: None
Comments: None

Data Element Summary

	Ref. Des.	Data 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	
	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: None
Semantic Notes: None
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. Des.	Data Element	Name	Attributes
M	TED01	647	Application Error Condition Code Code indicating application error condition Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/3
	TED02	3	Free Form Message Free-form text	O AN 1/250

Segment: SE Transaction Set Trailer

Position: 090
Loop:
Level: Detail
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: None
Semantic Notes: None
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
M	SE02	329	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	M AN 4/9

824 Example

```
ISA*00*                *00*                *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 - 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.

Heading

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
			LOOP ID - N1			200	
	230	N1	Name	O	1		

Detail

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
M	010	LIN	Item Identification	M	1		
	020	UIT	Unit Detail	O	1		
	140	REF	Reference Identification	O	12		

150	PER	Administrative Communications Contact	O	3	
230	ATH	Resource Authorization	O	20	
LOOP ID - FST					>1
410	FST	Forecast Schedule	O	1	n1
LOOP ID - SHP					25
470	SHP	Shipped/Received Information	O	1	
480	REF	Reference Identification	O	5	

Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
	0	CTT	Transaction Totals	O	1		n2
	1						
	0						
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

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.

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: 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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 830 Planning Schedule with Release Capability	M ID 3/3
M	ST02	329	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	M AN 4/9

Segment: **BFR** Beginning Segment for Planning Schedule

Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
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: 1 At least one of BFR02 or BFR03 is required.
Semantic Notes: 1 If BFR01 contains the value "04" (Net Change), BFR09 is required.
 2BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.
 3BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins.
 4BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends.
 5BFR08 is the date forecast generated: The date the forecast data was generated.
 6BFR09 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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BFR01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
			04 Change	
			05 Replace	
	BFR03	328	Release Number	X AN 1/30
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
M	BFR04	675	Schedule Type Qualifier	M ID 2/2
			Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	
			DL Delivery Based	
			SH Shipment Based	
M	BFR05	676	Schedule Quantity Qualifier	M ID 1/1

Code identifying the type of quantities used when defining a schedule or forecast

A Actual Discrete Quantities

BFR06 373 Release Date O DT 8/8

Date expressed as CCYYMMDD

This is for the outbound 830.

BFR08 373 Release Date O DT 8/8

Date expressed as CCYYMMDD

This is for the inbound 830.

BFR11 324 Purchase Order Number O AN 1/22

Identifying number for Purchase Order assigned by the orderer/
purchaser

Segment: N1 Name

Position: 230

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: 1

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

Syntax Notes:

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

Semantic Notes:

Comments:

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

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

.Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			MI Planning Schedule/Material Release Issuer	
			ST Ship To	
			SU Supplier/Manufacturer	
	N102	93	Name	X AN 1/60
			Free-form name	
	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			92 Assigned by Buyer or Buyer's Agent	
	N104	67	Identification 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:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	LIN01	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
M	LIN02	235	Product/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	LIN03	234	Product/Service ID	M AN 1/48
			Buyer's Part Number	
	LIN04	235	Product/Service ID Qualifier	X ID 2/2

		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PO Purchase Order Number		
LIN05	234	Product/Service ID	X	AN 1/48
		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)		
		PL Purchaser's Order Line Number		
LIN07	234	Product/Service ID	X	AN 1/48
		Purchase Order Line Number (when applicable)		
LIN08	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		EC Engineering Change Level		
LIN09	234	Product/Service ID	X	AN 1/48
		Engineering Change Level (when applicable)		
LIN10	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		RY Record Keeping or Model Year		
LIN11	234	Product/Service ID	X	AN 1/48
		Model Year (when applicable)		
LIN12	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PD Part Number Description		
LIN13	234	Product/Service ID	X	AN 1/48
		Buyer's Part Description (when applicable)		

Segment: UIT Unit Detail

Position: 020
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify item unit data
Syntax Notes: 1 If UIT03 is present, then UIT02 is required.
Semantic Notes: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification DK Dock Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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.
- 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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named SC Schedule Contact	M ID 2/2
	PER02	93	Name Free-form name	O AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80
	PER05	365	Communication Number Qualifier Code identifying the type of communication number FX Facsimile	X ID 2/2
	PER06	364	Communication Number Complete Facsimile number including country or area code when applicable	X AN 1/80
	PER07	365	Communication Number Qualifier Code identifying the type of communication number	X ID 2/2

		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:	<ol style="list-style-type: none"> 1 At least one of ATH02 or ATH03 is required. 2 If ATH03 is present, then ATH05 is required. 3 If ATH04 is present, then ATH05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller. 2 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ATH01	672	Resource Authorization Code	M ID 2/2
			Code identifying the resource which the buyer is authorizing the seller to commit to	
			FI Finished (Labor, Material, and Overhead/Burden)	
			MT Material	
			PQ Cumulative Quantity Required Prior to First Schedule Period	
	ATH03	380	Quantity	X R 1/15
			Numeric value of quantity	

ATH05

373

Date

X

DT 8/8

Date expressed 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. 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	FST01	380	Quantity Numeric value of quantity	M R 1/15
M	FST02	680	Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C Firm D Planning	M ID 1/1
M	FST03	681	Forecast Timing Qualifier Code specifying interval grouping of the forecast C Daily D Discrete M Monthly Bucket (Calendar Months) W Weekly Bucket (Monday through Sunday)	M ID 1/1
M	FST04	373	Requirement Date	M DT 8/8

		Date expressed 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	Quantity Qualifier	O ID 2/2
		Code specifying the type of quantity	
		01 Discrete Quantity	
		02 Cumulative Quantity	
		12 Ship Notice Quantity	
SHP02	380	Quantity	X R 1/15
		Numeric value of quantity	
SHP03	374	Date/Time Qualifier	X ID 3/3
		Code specifying type of date or time, or both date and time	
		011 Shipped	
		050 Received	
		051 Cumulative Quantity Start	
SHP04	373	Date	X DT 8/8
		Date expressed as CCYYMMDD	

Segment: **REF** Reference Identification

Position: 480
Loop: SHP Optional
Level: Detail
Usage: Optional
Max Use: 5
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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier 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	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items	M NO 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	

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: None
Semantic Notes: None
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
M	SE02	329	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	M AN 4/9

830 Example

```
ISA*00*                *00*                *ZZ*KARENSCUST      *ZZ*X12SUPPLIER
*040728*1446*U*00400*000000021*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*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*3*BP*X12-Part03*****EC*ECL***PD*X12-Part03 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*
SHP*02*1000*050*20040715
LIN*4*BP*Kanban-01*****EC*ECL***PD*Kanban-01 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
LIN*5*BP*Kanban-02*****EC*ECL***PD*Kanban-02 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
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*000000021

850 - Generic 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.

Heading

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BEG	Beginning Segment for Purchase Order	M	1		
	040	CUR	Currency	O	1		
	050	REF	Reference Identification	O	>1		
	060	PER	Administrative Communications Contact	O	3		
	070	TAX	Tax Reference	O	>1		
	080	FOB	F.O.B. Related Instructions	O	>1		
			LOOP ID - SAC			25	
	120	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	150	DTM	Date/Time Reference	O	10		
	285	TXI	Tax Information	O	>1		
			LOOP ID - AMT			>1	
	287	AMT	Monetary Amount	O	1		

		LOOP ID - N1		200	
310	N1	Name	O	1	
300	MSG	Message Text	O	1000	

Detail

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
		LOOP ID - PO1		100000		
M	010	PO1	Baseline Item Data	M	1	n1
		LOOP ID - PID		1000		
	050	PID	Product/Item Description	O	1	
	100	REF	Reference Identification	O	>1	
		LOOP ID - SAC		25		
	130	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
	210	DTM	Date/Time Reference	O	10	
	289	MSG	Message Text	O	>1	

Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and 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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 Purchase Order	M ID 3/3
M	ST02	329	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	M AN 4/9

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 BEG05 is the date assigned by the purchaser to purchase order.
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BEG01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 01 Cancellation 02 Add 04 Change 05 Replace	M ID 2/2
M	BEG02	92	Purchase Order Type Code Code specifying the type of Purchase Order SA Stand-alone Order	M ID 2/2
M	BEG03	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/ purchaser	M AN 1/22
	BEG04	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
M	BEG05	373	Date Date expressed as CCYYMMDD	M DT 8/8

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
Syntax Notes:	<ol style="list-style-type: none"> 1 If CUR08 is present, then CUR07 is required. 2 If CUR09 is present, then CUR07 is required. 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required. 4 If CUR11 is present, then CUR10 is required. 5 If CUR12 is present, then CUR10 is required. 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required. 7 If CUR14 is present, then CUR13 is required. 8 If CUR15 is present, then CUR13 is required. 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required. 10 If CUR17 is present, then CUR16 is required. 11 If CUR18 is present, then CUR16 is required. 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required. 13 If CUR20 is present, then CUR19 is required. 14 If CUR21 is present, then CUR19 is required.
Semantic Notes:	None
Comments:	1 See Figures Appendix for examples detailing the use of the CUR segment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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: >1
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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CR Customer Reference Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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.
- 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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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	
	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: >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.
 - 3 If either TAX04 or TAX05 is present, then the other is required.
 - 4 If either TAX06 or TAX07 is present, then the other is required.
 - 5 If either TAX08 or TAX09 is present, then the other is required.
 - 6 If either TAX10 or TAX11 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TAX01	325	Tax Identification Number Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	X AN 1/20
TAX02	309	Location Qualifier Code identifying type of location CC Country CI City SP State/Province	X ID 1/2
TAX03	310	Location Identifier Code which identifies a specific location	X AN 1/30
TAX12	441	Tax Exempt Code Code identifying exemption status from sales and use tax	O ID 1/1

- | | |
|---|---------------------|
| 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.
- 2 If FOB04 is present, then FOB05 is required.
- 3 If FOB07 is present, then FOB06 is required.
- 4 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: None

Data Element Summary

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

- Syntax Notes:
- 1 At least one of SAC02 or SAC03 is required.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 is required.

- 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.
 - 3 SAC08 is the allowance or charge rate per unit.
 - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 7 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	SAC05	610	Amount Monetary amount	O N2 1/15
	SAC15	352	Description A free-form description to clarify the related data elements and their content	X 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
Syntax Notes:	<ol style="list-style-type: none"> 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required. 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required. 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:	<ol style="list-style-type: none"> 1 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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: DTM Date/Time Reference

Position: 150
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
 1 At least one of DTM02 DTM03 or DTM05 is required.
 2 If DTM04 is present, then DTM03 is required.
 3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	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
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.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments: None

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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	
	TXI02	782 Monetary Amount	X R 1/18
		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: None
Semantic Notes: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AMT01	522	Amount Qualifier Code Code to qualify amount TT Total Transaction Amount	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount	M R 1/18

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:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Element</u>		
M	N101	98	Entity Identifier Code
			M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual
		MI	Planning Schedule/Material Release Issuer
		SF	Ship From
		ST	Ship To
	N102	93	Name
			X AN 1/60
			Free-form name
	N103	66	Identification Code Qualifier
			X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)
		1	D-U-N-S Number, Dun & Bradstreet
		92	Assigned by Buyer or Buyer's Agent
	N104	67	Identification Code
			X AN 2/80
			Code identifying a party or other code

Segment: MSG Message Text

Position: 3 00
Loop:
Level: Heading
Usage: Optional
Max Use: 1000
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.
Comments: 1 MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2 If MSG0 2 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MSG01	933	Free-Form Message Text Free-form message text	M AN 1/264

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:	<ol style="list-style-type: none"> 1 If PO103 is present, then PO102 is required. 2 If PO105 is present, then PO104 is required. 3 If either PO106 or PO107 is present, then the other is required. 4 If either PO108 or PO109 is present, then the other is required. 5 If either PO110 or PO111 is present, then the other is required. 6 If either PO112 or PO113 is present, then the other is required. 7 If either PO114 or PO115 is present, then the other is required. 8 If either PO116 or PO117 is present, then the other is required. 9 If either PO118 or PO119 is present, then the other is required. 10 If either PO120 or PO121 is present, then the other is required. 11 If either PO122 or PO123 is present, then the other is required. 12 If either PO124 or PO125 is present, then the other is required.
Semantic Notes:	None
Comments:	<ol style="list-style-type: none"> 1 See the Data Element Dictionary for a complete list of IDs. 2 PO101 is the line item identification. 3 PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
PO101	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		Purchase Order Line Number	
PO102	330	Quantity Ordered	X R 1/10
		Quantity ordered	
PO103	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		EA Each	

		FT	Foot		
		LB	Pound		
		PC	Piece		
PO104	212	Unit Price		X	R 1/17
		Price per unit of product, service, commodity, etc.			
PO105	639	Basis of Unit Price Code		O	ID 2/2
		Code identifying the 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 number used in Product/Service ID (234)			
		BP	Buyer's Part Number		
PO107	234	Product/Service ID		X	AN 1/48
		Buyer's Part Number			
PO108	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		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 1/48
		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
Syntax Notes:	<ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID04 is required. 5 If PID09 is present, then PID05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 Use PID03 to indicate the organization that publishes the code list being referred to. 2 PID04 should be used for industry-specific product description codes. 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate. 4 PID09 is used to identify the language being used in PID05.
Comments:	<ol style="list-style-type: none"> 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349	Item Description Type Code indicating the format of a description F Free-form	M ID 1/1
	PID05	352	Description Buyer's Part Description	X AN 1/80

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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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
Syntax Notes:	<ol style="list-style-type: none">1 At least one of SAC02 or SAC03 is required.2 If either SAC03 or SAC04 is present, then the other is required.3 If either SAC06 or SAC07 is present, then the other is required.4 If either SAC09 or SAC10 is present, then the other is required.5 If SAC11 is present, then SAC10 is required.6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.7 If SAC14 is present, then SAC13 is required.8 If SAC16 is present, then SAC15 is required.
Semantic Notes:	<ol style="list-style-type: none">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.3 SAC08 is the allowance or charge rate per unit.4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.7 SAC16 is used to identify the language being used in SAC15.
Comments:	<ol style="list-style-type: none">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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	SAC05	610	Amount Monetary amount	O N2 1/15
	SAC15	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	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 expressed as 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
Syntax Notes: 1 If MSG03 is present, then MSG02 is required.
Semantic Notes: 1 MSG03 is the number of lines to advance before printing.
Comments: 1 MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2 If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MSG01	933	Free-Form Message Text Free-form message text	M AN 1/264

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments	M NO 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	

850 Example

ISA*00* *00* *ZZ*X12SUPPLIER *ZZ*KARENSCUST
*040610*1009*U*00400*000000013*0*P*~
GS*PO*X12SUPPLIER*KARENSCUST*20040610*1009*23*X*004010
ST*850*0001
BEG*05*SA*X12-PO1*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
N1*MI*Facility 10*1*10
N1*ST*Ship To 10*1*10
N1*SU*X12 Supplier*1*X12SUPPLIER
PO1*001*000000001*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 - 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.

Heading

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

		LOOP ID - SPI		>1
450	SPI	Specification Identifier	O	1
480	MSG	Message Text	O	50

Detail

Pos.	Seg. No.	ID	Req. Name	Des.	Max. Use	Loop Repeat	Notes and Comments
			LOOP ID - PO1			100000	
M	010	PO1	Baseline Item Data	M	1		n1
			LOOP ID - PID			1000	
	050	PID	Product/Item Description	O	1		
	100	REF	Reference Identification	O	>1		
			LOOP ID - SAC			25	
	130	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	289	MSG	Message Text	O	>1		

Summary

Pos.	Seg. No.	ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and 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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 Purchase Order	M ID 3/3
M	ST02	329	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	M AN 4/9

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 BEG05 is the date assigned by the purchaser to purchase order.
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</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 (Not firm Commitment)	
			BK Blanket Order (Quantity Firm)	
			KB Blanket Purchase Agreement	
			A charge account established with qualified sources of supply to satisfy repetitive requirements	
M	BEG03	324	Purchase Order Number	M AN 1/40
			Identifying number for Purchase Order assigned by the orderer/purchaser	
	BEG04	328	Release Number	O 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	O	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
Syntax Notes:	<ol style="list-style-type: none"> 1 If CUR08 is present, then CUR07 is required. 2 If CUR09 is present, then CUR07 is required. 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required. 4 If CUR11 is present, then CUR10 is required. 5 If CUR12 is present, then CUR10 is required. 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required. 7 If CUR14 is present, then CUR13 is required. 8 If CUR15 is present, then CUR13 is required. 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required. 10 If CUR17 is present, then CUR16 is required. 11 If CUR18 is present, then CUR16 is required. 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required. 13 If CUR20 is present, then CUR19 is required. 14 If CUR21 is present, then CUR19 is required.
Semantic Notes:	
Comments:	1 See Figures Appendix for examples detailing the use of the CUR segment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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: 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.
- 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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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	
	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 code when applicable	
	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 AN 1/80

Complete Facsimile number including country or area code when applicable.

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.
 - 3 If either TAX04 or TAX05 is present, then the other is required.
 - 4 If either TAX06 or TAX07 is present, then the other is required.
 - 5 If either TAX08 or TAX09 is present, then the other is required.
 - 6 If either TAX10 or TAX11 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>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	
TAX02	309	Location Qualifier	X ID 1/2
		Code identifying type of location	
		CC Country	
		CI City	
		SP State/Province	
TAX03	310	Location Identifier	X AN 1/30
		Code which identifies a specific location	
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
Syntax Notes:	<ol style="list-style-type: none"> 1 If FOB03 is present, then FOB02 is required. 2 If FOB04 is present, then FOB05 is required. 3 If FOB07 is present, then FOB06 is required. 4 If FOB08 is present, then FOB09 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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)	
	FOB06	309	Location Qualifier	X ID 1/2
			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
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of SAC02 or SAC03 is required. 2 If either SAC03 or SAC04 is present, then the other is required. 3 If either SAC06 or SAC07 is present, then the other is required. 4 If either SAC09 or SAC10 is present, then the other is required. 5 If SAC11 is present, then SAC10 is required. 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required. 7 If SAC14 is present, then SAC13 is required. 8 If SAC16 is present, then SAC15 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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. 3 SAC08 is the allowance or charge rate per unit. 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge. 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used. 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion. 7 SAC16 is used to identify the language being used in SAC15.
Comments:	<ol style="list-style-type: none"> 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	SAC05	610	Amount Monetary amount	O N2 1/15
	SAC15	352	Description A free-form description to clarify the related data elements and their content	X 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
Syntax Notes:	<ol style="list-style-type: none"> 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required. 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required. 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:	1 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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 NO 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 NO 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:	<ol style="list-style-type: none"> 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required. 2 If TD502 is present, then TD503 is required. 3 If TD507 is present, then TD508 is required. 4 If TD510 is present, then TD511 is required. 5 If TD513 is present, then TD512 is required. 6 If TD514 is present, then TD513 is required. 7 If TD515 is present, then TD512 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 TD515 is the country where the service is to be performed.
Comments:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TD501	133	Routing Sequence Code	O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		B Origin/Delivery Carrier (Any Mode)	
TD505	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.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments: None

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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	
	TXI02	782 Monetary Amount	X R 1/18
		Monetary amount	
	TXI03	954 Percent	X R 1/10
		Percentage expressed as a decimal	

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:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Element</u>		
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		MI Planning Schedule/Material Release Issuer	
		SF Ship From	
		ST Ship To	
	N102	93 Name	X AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		92 Assigned by Buyer or Buyer's Agent	
	N104	67 Identification Code	X AN 2/80
		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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	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.
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

	<u>Ref. Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MSG01	933	Free-Form Message Text Free-form message text	M AN 1/264

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:	<ol style="list-style-type: none"> 1 If PO103 is present, then PO102 is required. 2 If PO105 is present, then PO104 is required. 3 If either PO106 or PO107 is present, then the other is required. 4 If either PO108 or PO109 is present, then the other is required. 5 If either PO110 or PO111 is present, then the other is required. 6 If either PO112 or PO113 is present, then the other is required. 7 If either PO114 or PO115 is present, then the other is required. 8 If either PO116 or PO117 is present, then the other is required. 9 If either PO118 or PO119 is present, then the other is required. 10 If either PO120 or PO121 is present, then the other is required. 11 If either PO122 or PO123 is present, then the other is required. 12 If either PO124 or PO125 is present, then the other is required.
Semantic Notes:	None
Comments:	<ol style="list-style-type: none"> 1 See the Data Element Dictionary for a complete list of IDs. 2 PO101 is the line item identification. 3 PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
PO101	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		Purchase Order Line Number	
PO102	330	Quantity Ordered	X R 1/10
		Quantity ordered	
PO103	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		
		FT	Foot		
		LB	Pound		
		PC	Piece		
PO104	212	Unit Price		X	R 1/17
		Price per unit of product, service, commodity, etc.			
PO105	639	Basis of Unit Price Code		O	ID 2/2
		Code identifying the 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 number used in Product/Service ID (234)			
		BP	Buyer's Part Number		
PO107	234	Product/Service ID		X	AN 1/48
		Buyer's Part Number			
PO108	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		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 1/48
		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
Syntax Notes:	<ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID04 is required. 5 If PID09 is present, then PID05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 Use PID03 to indicate the organization that publishes the code list being referred to. 2 PID04 should be used for industry-specific product description codes. 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate. 4 PID09 is used to identify the language being used in PID05.
Comments:	<ol style="list-style-type: none"> 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349	Item Description Type Code indicating the format of a description F Free-form	M ID 1/1
	PID05	352	Description Buyer's Part Description	X AN 1/80

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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification DK Dock Number MY Model year number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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
Syntax Notes:	<ol style="list-style-type: none">1 At least one of SAC02 or SAC03 is required.2 If either SAC03 or SAC04 is present, then the other is required.3 If either SAC06 or SAC07 is present, then the other is required.4 If either SAC09 or SAC10 is present, then the other is required.5 If SAC11 is present, then SAC10 is required.6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.7 If SAC14 is present, then SAC13 is required.8 If SAC16 is present, then SAC15 is required.
Semantic Notes:	<ol style="list-style-type: none">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.3 SAC08 is the allowance or charge rate per unit.4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.7 SAC16 is used to identify the language being used in SAC15.
Comments:	<ol style="list-style-type: none">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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	SAC05	610	Amount Monetary amount	O N2 1/15
	SAC15	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MSG01	933	Free-Form Message Text Free-form message text	M AN 1/264

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	

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: None
Semantic Notes: None
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
M	SE02	329	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	M AN 4/9

850 Blanket Example

ISA*00* *00* *ZZ*X12SUPPLIER *ZZ*KARENSCUST
*040610*1009*U*00400*000000013*0*P*~
GS*PO*X12SUPPLIER*KARENSCUST*20040610*1009*23*X*004010
ST*850*0001
BEG*00*KB*X12-PO1*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*000000013

856 - Generic Ship Notice - Manifest

Version 004010

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

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
010	ST	Transaction Set Header	M	1		
020	BSN	Beginning Segment for Ship Notice	M	1		
030	DTM	Date/Time Reference	O	10		

Detail

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
		LOOP ID - HL	200000			
040	HL	Hierarchical Level	M	1		Shipment level, HL03. Valid value "S."
050	MEA	Measurements	O	40		
060	TD1	Carrier Details (quantity and weight)	O	20		
070	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
080	TD3	Carrier Details (Equipment)	O	12		

90 REF Reference Identification O 12

LOOP ID - N1 200

100 N1 Name O 1

110 FOB F.O.B. Related Instructions O 1

LOOP ID - HL 200 Item level. For loose containers only. Valid value "I."

120 HL Hierarchical Level M 1

130 CLD Load Detail O 1 loose containers

140 REF Reference Identification O 1

LOOP ID - HL 20,000 Order level, HL03. Valid value "O."

150 HL Hierarchical Level M 1

160 LIN Item Identification O 1

170 REF Reference Identification O 1

180 SN1 Item Detail (Shipment) O 1

190 PRF Purchase Order Reference O 1

200 ETD Excess Transportation Detail O >1

LOOP ID - HL 200 Tare level, HL03. Valid value "T."

210 HL Hierarchical Level M 1

220 LIN Item Identification Indicates the following CLD segment refers to a returnable container

230 CLD Load Detail O 1 Master container

240 REF Reference Identification O 1

		LOOP ID - HL		200	Item level, HL03. Valid value "I."
250	HL	Hierarchical Level	M	1	
260	CLD	Load Detail	O	1	Detail containers
270	REF	Reference Identification	O	1	

Summary

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

Transaction Set Notes

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

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

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: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	M ID 3/3
ST02	329	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	M AN 4/9

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
Syntax Notes: 1 If BSN07 is present, then BSN06 is required.
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.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
BSN01	353	Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		00 Original	
		01 Cancellation	
BSN02	396	Shipment Identification	M AN 2/30
		A unique control number assigned by the original shipper to identify a specific shipment	
BSN03	373	Date	M DT 8/8
		Date expressed as CCYYMMDD	
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:	030
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	<ol style="list-style-type: none"> 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:	None
Comments:	None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
DTM01	374	Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		011 Shipped	
		017 Estimated Delivery	
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: HL Hierarchical Level

Position:	040
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:	None
Semantic Notes:	None
Comments:	<p>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.</p> <p>The HL segment defines a top-down/left-right ordered structure.</p> <p>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.</p> <p>3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.</p> <p>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.</p> <p>5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.</p>

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
HL01	628	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
HL02	734	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
HL03	735	Hierarchical Level Code	M ID 1/2

Code defining the characteristic of a level in a hierarchical structure

S Shipment

Segment: MEA Measurements

Position:	050
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:	<ol style="list-style-type: none"> 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. 2 If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
MEA01	737	Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		PD Physical Dimensions	
MEA02	738	Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		G Gross Weight	
		N Actual Net Weight	
		T 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 for 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 expressed, or
manner in which a measurement has been taken

KG Kilogram

LB Pound

Segment: TD1 Carrier Details (Quantity and Weight)

Position:	060
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:	<ol style="list-style-type: none"> 1 If TD101 is present, then TD102 is required. 2 If TD103 is present, then TD104 is required. 3 If TD106 is present, then TD107 is required. 4 If either TD107 or TD108 is present, then the other is required. 5 If either TD109 or TD110 is present, then the other is required.
Semantic Notes:	1
Comments:	1

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
TD101	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. Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
TD102	80	Lading Quantity Number of units (pieces) of the lading commodity.	X NO 1/7
TD103	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code. Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
TD104	22	Commodity Code Code describing a commodity or group of commodities.	X AN 1/30
TD105	79	Lading Description Description of an item as required for rating and billing purposes.	O AN 1/50
TD106	187	Weight Qualifier Code defining the type of weight. Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
TD107	81	Weight Numeric value of weight.	X R 1/10

TD108	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
TD109	183	Volume Value of volumetric measure.	X R 1/8
TD110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2

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

Position:	070
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required. 2 If TD502 is present, then TD503 is required. 3 If TD507 is present, then TD508 is required. 4 If TD510 is present, then TD511 is required. 5 If TD513 is present, then TD512 is required. 6 If TD514 is present, then TD513 is required. 7 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. Des.	Data Elmt.	Name	Attributes
TD501	133	Routing Sequence Code	O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		B 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 (SCAC)	
TD503	67	Identification Code	X AN 2/4
		Code identifying a party or other code	
TD504	91	Transportation Method/Type Code	X ID 1/2
		Code specifying the method or type of transportation for the shipment	
		A Air	

AC	Air Charter
AE	Air Express
C	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: 080
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.
- 2 If TD302 is present, then TD303 is required.
- 3 If TD304 is present, then TD305 is required.
- 4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes: None
Comments: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
TD301	40	Equipment Description Code	X 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	
TD302	206	Equipment Initial	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
TD303	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: 90
Loop: HL 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.
 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.
Semantic Notes:
 1 REF04 contains data relating to the value cited in REF02.
Comments: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
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 Route Routing Code	
REF02	127	Reference Identification	X AN 1/30
		Bill of Lading Number (if applicable)	

Segment: N1 Name

Position:	100
Loop:	N1 Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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 Elmt.	Name	Attributes
	N101	98	Entity Identifier Code	M ID 4/4
			Code identifying an organizational entity, a physical location, property or an individual	
			MI Planning Schedule/Material Release Issuer	
			SF Ship From	
			ST Ship To	
			SU Supplier/Manufacturer	
>>	N102	93	Name	X AN 1/30
			Free-form name	
>>	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
		1	D-U-N-S Number, Dun & Bradstreet	
		92	Assigned by Buyer or Buyer's Agent	
>>	N104	67	Identification Code	X AN 2/30
			Code identifying a party or other code	

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

Position:	110
Loop:	N1 Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify transportation instructions relating to shipment
Syntax Notes:	<ol style="list-style-type: none">1 If FOB03 is present, then FOB02 is required.2 If FOB04 is present, then FOB05 is required.3 If FOB07 is present, then FOB06 is required.4 If FOB08 is present, then FOB09 is required.
Semantic Notes:	<ol style="list-style-type: none">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:	None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
FOB01	146	Shipment Method of Payment	M ID 2/2
		Code identifying payment terms for transportation charges	
		CC	Collect
		PP	Prepaid (by Seller)

Segment: HL Hierarchical Level

Position:	120
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:	None
Semantic Notes:	None
Comments:	<p>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.</p> <p>The HL segment defines a top-down/left-right ordered structure.</p> <p>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.</p> <p>3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.</p> <p>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.</p> <p>5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.</p>

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
HL01	628	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
HL02	734	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
HL03	735	Hierarchical Level Code	M ID 1/2

Code defining the characteristic of a level in a hierarchical structure

I Item

Segment: CLD Container Load Detail

Position:	130
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the number of material loads shipped
Syntax Notes:	1 If CLD05 is present, then CLD04 is required.
Semantic Notes:	1 CLD05 is used to dimension the value given in CLD04
Comments:	1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
CLD01	622	Number of Loads Number of customer-defined loads shipped by the supplier.	M NO 1/5
CLD02	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.	M R 1/10
CLD03	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 Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
CLD04	357	Size Size of supplier units in pack	X R 1/8
CLD05	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

Segment: REF Reference Identification

Position: 140
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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
REF01	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		DK Dock Number	
		KB Beginning Kanban Serial Number	
		KP Health Certificate Number	
		A certificate given by the veterinary authorities regarding the health of animals being shipped	
		This qualifier is used for Kanban Number.	
		LF Assembly Line Feed Location	
		LT Lot Number	
		RL Reserve Assembly Line Feed Location	
REF02	127	Reference Identification	X AN 1/30
		Dock Number, Line Feed and/or Reserve Line Feed (when applicable)	

Segment: HL Hierarchical Level

Position:	150
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:	None
Semantic Notes:	None
Comments:	<p>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.</p> <p>The HL segment defines a top-down/left-right ordered structure.</p> <p>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.</p> <p>3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.</p> <p>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.</p> <p>5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.</p>

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
HL01	628	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
HL02	734	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
HL03	735	Hierarchical Level Code	M ID 1/2

Code defining the characteristic of a level in a hierarchical structure

O Order

Segment: LIN Item Identification

Position:	160
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 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. Des.	Data Elmt.	Name	Attributes
LIN01	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
LIN02	235	Product/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	
LIN03	234	Product/Service ID	M AN 1/30
		Buyer's Part Number	

LIN04	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PO Purchase Order Number		
LIN05	234	Product/Service ID	X	AN 1/20
		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)		
		EC Engineering Change Level		
LIN07	234	Product/Service ID	X	AN 1/20
		Engineering Change Level (when applicable)		
LIN08	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		RY Record Keeping or Model Year		
LIN09	234	Product/Service ID	X	AN 1/20
		Model Year (if applicable)		
LIN12	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		KB Data Category Code		
		KP Kanban Plan Number		
LIN13	234	Product/Service ID	X	AN 1/30
		Pull Signal (when applicable)		

Segment: REF Reference Identification

Position: 170
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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
REF01	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		DK	Dock Number
		KB	Beginning Kanban Serial Number
		KP	Health Certificate Number
			A certificate given by the veterinary authorities regarding the health of animals being shipped
			This qualifier is used for Kanban Number.
		LF	Assembly Line Feed Location
		LT	Lot Number
		RL	Reserve Assembly Line Feed Location
REF02	127	Reference Identification	X AN 1/30
		Dock Number, Line Feed and/or Reserve Line Feed (when applicable)	

Segment: SN1 Item Detail (Shipment)

Position: 180
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 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 Elmt.	Name	Attributes
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.	

Segment: **PRF** Purchase Order Reference

Position: 190
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: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/ purchaser	M AN 1/20
PRF02	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/20

Segment: ETD Excess Transportation Detail

Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify information relating to premium transportation
Syntax Notes: 1 If either ETD03 or ETD04 is present, then the other is required.
Semantic Notes: 1 ETD03 qualifies the authorization number given in EDT04.
Comments: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
ETD01	626	Excess Transportation Reason Code	M ID 1/2
		Code identifying the reason for shipment via premium transportation rather than the normal mode of transportation	
		ZZ Mutually Defined	
ETD02	627	Excess Transportation Responsibility Code	M ID 1/1
		Code identifying the organization responsible for paying the premium transportation costs	
		Z Mutually Defined	
ETD03	128	Reference Identification Qualifier	X ID 2/3
		Code qualifying the Reference Identification	
		ZZ Mutually Defined	
ETD04	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: HL Hierarchical Level

Position:	210
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:	None
Semantic Notes:	None
Comments:	<p>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.</p> <p>The HL segment defines a top-down/left-right ordered structure.</p> <p>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.</p> <p>3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.</p> <p>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.</p> <p>5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.</p>

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
HL01	628	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
HL02	734	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
HL03	735	Hierarchical Level Code	M ID 1/2

Code defining the characteristic of a level in a hierarchical structure

T

Tare

Segment: LIN Item Identification

Position:	220
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 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. Des.	Data Elmt.	Name	Attributes
LIN01	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
LIN02	235	Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		RC Returnable Container	
LIN03	234	Product/Service ID	M AN 1/30
		Non-Returnable or Returnable	

Segment: CLD Container Load Detail

Position:	230
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the number of material loads shipped
Syntax Notes:	1 If CLD05 is present, then CLD04 is required.
Semantic Notes:	1 CLD05 is used to dimension the value given in CLD04
Comments:	1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
CLD01	622	Number of Loads Number of customer-defined loads shipped by the supplier.	M NO 1/5
CLD02	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.	M R 1/10
CLD03	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 Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
CLD04	357	Size Size of supplier units in pack	X R 1/8
CLD05	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

Segment: **REF** Reference Identification

Position: 240
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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
REF01	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		DK	Dock Number
		KB	Beginning Kanban Serial Number
		KP	Health Certificate Number
			A certificate given by the veterinary authorities regarding the health of animals being shipped
			This qualifier is used for Kanban Number.
		LF	Assembly Line Feed Location
		LT	Lot Number
		RL	Reserve Assembly Line Feed Location
REF02	127	Reference Identification	X AN 1/30
		Dock Number, Line Feed and/or Reserve Line Feed (when applicable)	

Segment: HL Hierarchical Level

Position:	250
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:	None
Semantic Notes:	None
Comments:	<p>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.</p> <p>The HL segment defines a top-down/left-right ordered structure.</p> <p>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.</p> <p>3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.</p> <p>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.</p> <p>5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.</p>

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
HL01	628	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
HL02	734	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
HL03	735	Hierarchical Level Code	M ID 1/2

Code defining the characteristic of a level in a hierarchical structure

I Item

Segment: CLD Container Load Detail

Position: 260
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the number of material loads shipped
Syntax Notes: 1 If CLD05 is present, then CLD04 is required.
Semantic Notes: 1 CLD05 is used to dimension the value given in CLD04
Comments: 1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
CLD01	622	Number of Loads Number of customer-defined loads shipped by the supplier.	M NO 1/5
CLD02	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.	M R 1/10
CLD03	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 Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
CLD04	357	Size Size of supplier units in pack	X R 1/8
CLD05	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

Segment: **REF** Reference Identification

Position: 270
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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
REF01	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		DK	Dock Number
		KB	Beginning Kanban Serial Number
		KP	Health Certificate Number
			A certificate given by the veterinary authorities regarding the health of animals being shipped
			This qualifier is used for Kanban Number.
		LF	Assembly Line Feed Location
		LT	Lot Number
		RL	Reserve Assembly Line Feed Location
REF02	127	Reference Identification	X AN 1/30
		Dock Number, Line Feed and/or Reserve Line Feed (when applicable)	

Segment: CTT Transaction Totals

Position: 280
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

Ref. Des.	Data Elmt.	Name	Attributes
CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6
CTT02	347	Hash Total Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O R 1/10

Segment: **SE** Transaction Set Trailer**Position:** 290**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 Elmt.	Name	Attributes
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
SE02	329	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	M AN 4/9

856 Example

```
ISA*00* 00* 01*supplier 01*buyer 070312*1742*U*00400*000000015*0*P*~
GS*SH*supplier*buyer*20070312*1742*24*X*4010
ST*856*0001
BSN*00*49*20070312*2113
DTM*011*20070312*1513*ED
DTM*017*20070314*1513*ED
HL*1**S
MEA*PD*G*208.5804*LB
MEA*PD*N*180*LB
TD1*PlBag*8
TD1*SmBox*8
TD1*LgBox*4
TD5*B*2*SCAC*S
TD3*VE**VH1
REF*RC*Route1
REF*BM*BOL
REF*CN*PRO
REF*DK*dock1
N1*SU*Supplier Name*1*SupplierID
N1*ST*ShipTo Name*1*ShipToID
N1*MI*Facility Name*1*FacilityID
FOB*PP
HL*2*1*O
LIN**BP*Part1
SN1**100*EA
HL*3*2*T
LIN**RC*RETURNABLE
CLD*1*50*LgBox
REF*LS*Serial1
REF*LT*Lot1
HL*4*3*I
CLD*2*25*SmBox
REF*LS*Serial2
REF*LT*Lot2
REF*LS*Serial3
REF*LT*Lot3
HL*5*2*T
LIN**RC*RETURNABLE
CLD*1*50*LgBox
REF*LS*Serial4
REF*LT*Lot4
HL*6*5*I
CLD*2*25*SmBox
REF*LS*Serial5
REF*LT*Lot5
REF*LS*Serial6
```

REF*LT*Lot6
HL*7*1*O
LIN**BP*Part2
SN1**100*EA
HL*8*7*T
LIN**RC*RETURNABLE
CLD*1*50*LgBox
REF*LS*Serial7
REF*LT*Lot7
HL*9*8*I
CLD*2*25*PlBag
REF*LS*Serial8
REF*LT*Lot8
REF*LS*Serial9
REF*LT*Lot9
HL*10*7*T
LIN**RC*NONRETURNABLE
CLD*1*50*LgBox
REF*LS*Serial10
REF*LT*Lot10
HL*11*10*I
CLD*2*25*PlBag
REF*LS*Serial11
REF*LT*Lot11
REF*LS*Serial12
REF*LT*Lot12
CTT*2
SE*28*0001
GE*1*24
IEA*1*000000015

861 - 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. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BRA	Beginning Segment for Receiving Advice or Acceptance Certificate	M	1		n1
	050	REF	Reference Identification	O	>1		
M	070	DTM	Date/Time Reference	M	10		
	100	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
	110	TD3	Carrier Details (Equipment)	O	12		
LOOP ID - N1							200
	130	N1	Name	O	1		

Detail

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
LOOP ID - RCD							200000
	010	RCD	Receiving Conditions	O	1		
	020	SN1	Item Detail (Shipment)	O	1		
	040	LIN	Item Identification	O	100		
	070	REF	Reference Identification	O	12		

Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
	0	CTT	Transaction Totals	O	1		n2
	1						
	0						
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

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.

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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			861 Receiving Advice/Acceptance Certificate	
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: **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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BRA01	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
M	BRA02	373	Date Date expressed as CCYYMMDD	M DT 8/8
M	BRA03	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 01 Cancellation 05 Replace	M ID 2/2
M	BRA04	962	Receiving Advice or Acceptance Certificate Type Code Code specifying type of receiving advice 1 Receiving Dock Advice 2 Post Receipt Advice 3 Disposition Advice	M ID 1/1
	BRA05	337	Time	O 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)

BRA06 412 Receiving Condition Code O 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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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 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: 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:	<ol style="list-style-type: none"> 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required. 2 If TD502 is present, then TD503 is required. 3 If TD507 is present, then TD508 is required. 4 If TD510 is present, then TD511 is required. 5 If TD513 is present, then TD512 is required. 6 If TD514 is present, then TD513 is required. 7 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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TD501	133	Routing Sequence Code	O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
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 (SCAC)	
TD503	67	Identification Code	X AN 2/80
		Code identifying a party or other code	
TD504	91	Transportation Method/Type Code	X ID 1/2
		Code specifying the method or type of transportation for the shipment	
	A	Air	

AC	Air Charter
AE	Air Express
C	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:	<ol style="list-style-type: none"> 1 Only one of TD301 or TD310 may be present. 2 If TD302 is present, then TD303 is required. 3 If TD304 is present, then TD305 is required. 4 If either TD305 or TD306 is present, then the other is required.
Semantic Notes:	None
Comments:	None

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TD301	40	Equipment Description Code	X 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	
TD302	206	Equipment Initial	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
TD303	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: 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:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Element</u>		
M	N101	98	Entity Identifier Code
			M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual
		MI	Planning Schedule/Material Release Issuer
		SF	Ship From
		ST	Ship To
		SU	Supplier/Manufacturer
	N102	93	Name
			X AN 1/60
			Free-form name
	N103	66	Identification Code Qualifier
			X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)
		1	D-U-N-S Number, Dun & Bradstreet
		92	Assigned by Buyer or Buyer's Agent
	N104	67	Identification Code
			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:	<ol style="list-style-type: none"> 1 At least one of RCD02 RCD04 or RCD06 is required. 2 If either RCD02 or RCD03 is present, then the other is required. 3 If either RCD04 or RCD05 is present, then the other is required. 4 If any of RCD06 RCD07 or RCD08 is present, then all are required. 5 If any of RCD09 RCD10 or RCD11 is present, then all are required. 6 If any of RCD12 RCD13 or RCD14 is present, then all are required. 7 If any of RCD15 RCD16 or RCD17 is present, then all are required. 8 If any of RCD18 RCD19 or RCD20 is present, then all are required.
Semantic Notes:	<ol style="list-style-type: none"> 1 RCD01 is the receiving advice line item identification. 2 RCD21 is the cumulative quantity of goods received for a specific time period.
Comments:	<ol style="list-style-type: none"> 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	RCD01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
	RCD02	663	Quantity Units Received or Accepted Number of Units Received or Accepted	X R 1/9
	RCD06	667	Quantity in Question Number of units contested because of physical condition or status of units	X R 1/9
	RCD07	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2

EA	Each
FT	Foot
PC	Piece

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 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 SN101 is the ship notice line-item identification.
Comments: 1 SN103 defines the unit of measurement for both SN102 and SN104.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	SN101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
M	SN102	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M R 1/10
M	SN103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each FT Foot PC Piece	M ID 2/2
	SN104	646	Quantity Shipped to Date Number of units shipped to date	O R 1/15

Segment: LIN Item Identification

Position:	040
Loop:	RCD Optional
Level:	Detail
Usage:	Optional
Max Use:	100
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	LIN01	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
M	LIN02	235	Product/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	LIN03	234	Product/Service ID	M AN 1/48

		Buyer's Part Number		
LIN04	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PO Purchase Order Number		
LIN05	234	Product/Service ID	X	AN 1/48
		Purchase Order (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)		
		EC Engineering Change Level		
LIN07	234	Product/Service ID	X	AN 1/48
		Engineering Change Level (when applicable)		
LIN08	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		RY Record Keeping or Model Year		
LIN09	234	Product/Service ID	X	AN 1/48
		Model Year (when applicable)		
LIN10	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PL Purchaser's Order Line Number		
LIN11	234	Product/Service ID	X	AN 1/40
		Purchase Order Line Number (when applicable)		
LIN12	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		KB Data Category Code		
LIN13	234	Product/Service ID	X	AN 1/48
		Pull Signal (when applicable)		
LIN14	235	Product/Service ID Qualifier	X	ID 2/2

Code identifying the type/source of the descriptive number used in
Product/Service ID (234)

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.
 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.
Semantic Notes:
 1 REF04 contains data relating to the value cited in REF02.
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification DK Dock Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	

Segment: SE Transaction Set Trailer

Position: 020

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic Notes:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
M	SE02	329	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	M AN 4/9

861 Example

ISA*00* *00* *ZZ*X12SUPPLIER *ZZ*KARENSCUST
*040610*1009*U*00400*000000013*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 - Generic Shipping Schedule

Version 004010

Functional Group ID=SS

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. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1		
			LOOP ID - N1			200	
	050	N1	Name	O	1		

Detail

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			10000	
M	010	LIN	Item Identification	M	1		
M	020	UIT	Unit Detail	M	1		
	045	PRS	Part Release Status	O	1		

050	REF	Reference Identification	O	12
-----	-----	--------------------------	---	----

060	PER	Administrative Communications Contact	O	1
-----	-----	---------------------------------------	---	---

LOOP ID - FST			100	
---------------	--	--	-----	--

080	FST	Forecast Schedule	O	1
-----	-----	-------------------	---	---

LOOP ID - SHP			10	
---------------	--	--	----	--

140	SHP	Shipped/Received Information	O	1
-----	-----	------------------------------	---	---

150	REF	Reference Identification	O	12
-----	-----	--------------------------	---	----

Summary

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

Transaction Set Notes

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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 862 Shipping Schedule	M ID 3/3
M	ST02	329	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	M AN 4/9

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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BSS01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 04 Change 05 Replace	M ID 2/2
	BSS02	127	Release Number Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Used in the outbound file only.	O AN 1/30
	BSS03	373	Release Date Date expressed as CCYYMMDD	O DT 8/8
M	BSS04	675	Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	M ID 2/2

DL Delivery Based

SH Shipment Based

BSS05 373 Release Date O DT 8/8

Date expressed as CCYYMMDD

Used in the outbound 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 O AN 1/22

Identifying number for Purchase Order assigned by the orderer/purchaser

BSS11 676 Schedule Quantity Qualifier O ID 1/1

Code identifying the type of quantities used when defining a schedule or forecast

A 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:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code
			M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual
		MI	Planning Schedule/Material Release Issuer
		ST	Ship To
		SU	Supplier/Manufacturer
	N102	93	Name
			X AN 1/50
			Free-form name
	N103	66	Identification Code Qualifier
			X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)
		1	D-U-N-S Number, Dun & Bradstreet
		92	Assigned by Buyer or Buyer's Agent
	N104	67	Identification Code
			X AN 2/30
			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:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	LIN01	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
M	LIN02	235	Product/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	LIN03	234	Product/Service ID	M AN 1/30

		Buyer's Part Number		
LIN04	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PO 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 number used in Product/Service ID (234)		
		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 number used in Product/Service ID (234)		
		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 number used in Product/Service ID (234)		
		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 number used in Product/Service ID (234)		
		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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	UIT01	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	M
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/4

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: None
Semantic Notes: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRS01	682	Part Release Status Code	M ID 1/2
			Code identifying the status of the specific part number being released or forecast or being used in an engineering change	
			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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Dock Number (when applicable) DK Dock Number	M ID 2/30
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M ID 2/2
	PER02	93	Name Free-form name	O AN 1/35
	PER03	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/30
	PER05	365	Communication Number Qualifier Code identifying the type of communication number FX Facsimile	X ID 2/2
	PER06	364	Communication Number Complete email address when applicable	X AN 1/80
	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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	FST01	380	Quantity Numeric value of quantity	M R 1/10
M	FST02	680	Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C Firm D Planning	M ID 1/1
M	FST03	681	Forecast Timing Qualifier Code specifying interval grouping of the forecast D Discrete M Monthly Bucket (Calendar Months) W Weekly Bucket (Monday through Sunday)	M ID 1/1

M	FST04	373	Date	M	DT 8/8
			Date expressed as CCYYMMDD		
	FST06	374	Date/Time Qualifier	X	ID 3/3
			Code specifying type of date or time, or both date and time		
			002 Delivery Requested		
			010 Requested Ship		
	FST07	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)		
	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 for 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:	140
Loop:	SHP Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify shipment and/or receipt information
Syntax Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	Quantity Qualifier	O ID 2/2
		Code specifying the type of quantity	
		02 Cumulative Quantity	
		12 Ship Notice Quantity	
SHP02	380	Quantity	X R 1/10
		Numeric value of quantity	
SHP03	374	Date/Time Qualifier	X ID 3/3
		Code specifying type of date or time, or both date and time	
		011 Shipped	
		051 Cumulative Quantity Start	
SHP04	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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier 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	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	

Segment: SE Transaction Set Trailer

Position: 020

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic Notes:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
M	SE02	329	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	M AN 4/9

862 Example

```
ISA*00*                *00*                *ZZ*KARENSCUST      *ZZ*X12SUPPLIER
*040727*0642*U*00400*000000017*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
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*2*BP*X12-Part02*PO*PONumber-01***EC*ECL*RY**PD*X12-Part02 Description
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
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

CTT*3

SE*40*0001

GE*1*17

IEA*1*000000017

864 - 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. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BMG	Beginning Segment For Text Mes- sage	M	1		
	030	DTM	Date/Time Reference	O	10		
			LOOP ID - N1			200	
	020	N1	Name	O	1		
	060	REF	Reference Identification	O	12		
	070	PER	Administrative Communications Contact	O	3		

Detail

	Pos. No.	Seg. ID	Name	Req. Des.	Loop Max. Use Repeat	Notes and Comments
			LOOP ID - MIT		>1	
M	010	MIT	Message Identification	M	1	
			LOOP ID - N1		200	
	020	N1	Name	O	1	
	060	REF	Reference Identification	O	12	
	070	PER	Administrative Communications Contact	O	3	
M	080	MSG	Message Text	M	100000	

Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Loop Max. Use Repeat	Notes and Comments
M	010	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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 864 Text Message	M ID 3/3
M	ST02	329	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	M AN 4/9

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: None
Semantic Notes: None
Comments: 1 BMG02 contains the message subject.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BMG01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
	BMG02	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80

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

Semantic Notes: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			007 Effective	
			043 Publication	
			097 Transaction Creation	
	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: **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:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Element</u>		
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	
		TO Message To	
	N102	93 Name	X AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		92 Assigned by Buyer or Buyer's Agent	
	N104	67 Identification 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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification ME Message Address or ID	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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
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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M ID 2/2
	PER02	93	Name Free-form name	O AN 1/60

Segment: MIT Message Identification

Position: 010

Loop: MIT Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To identify the beginning of a specific message and to allow the identification of a subject for the message

Syntax Notes:

Semantic Notes: 1 MIT01 contains the message number.

2 MIT02 contains the message subject.

Comments: 1 MIT03 default is 80 characters.

2 MIT04 default is 66 lines.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MIT01	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
	MIT02	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80

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:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	None
Comments:	<ol style="list-style-type: none"> 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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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
		TO	Message To
	N102	93	Name
			X AN 1/60
			Free-form name
	N103	66	Identification Code Qualifier
			X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)
		1	D-U-N-S Number, Dun & Bradstreet
		92	Assigned by Buyer or Buyer's Agent
	N104	67	Identification Code
			X AN 2/80
			Code identifying a party or other code

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.
- 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification ME Message Address or ID	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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.
 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: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M ID 2/2
	PER02	93	Name Free-form name	O AN 1/60

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.
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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	MSG01	933	Free-Form Message Text Free-form message text	M AN 1/60

Segment: SE Transaction Set Trailer

Position: 010
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: None
Semantic Notes: None
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
M	SE02	329	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	M AN 4/9

864 Example

```
ISA*00*                *00*                *ZZ*KARENSCUST      *ZZ*X12SUPPLIER
*040728*1446*U*00400*0000000020*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*0000000020
```

997 - 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. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		n1
M	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2				999999
	030	AK2	Transaction Set Response Header	O	1		n3
M	060	AK5	Transaction Set Response Trailer	M	1		
M	070	AK9	Functional Group Response Trailer	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.

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: None
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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction 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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK101	479	Functional Identifier Code Code identifying a group of application related transaction sets Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
M	AK102	28	Group Control Number Assigned number originated and maintained by the sender	M 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: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	M ID 3/3
M	AK202	329	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	M AN 4/9

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: None
Semantic Notes: None
Comments: None

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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: 1
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: None
Semantic Notes: None
Comments: 1 If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK901	715	Functional Group Acknowledge Code	M ID 1/1
			Code indicating accept or reject condition based on the syntax editing of the functional group	
			A Accepted	
			R Rejected	
M	AK902	97	Number of Transaction 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 Received Transaction Sets	M N0 1/6
			Number of Transaction Sets received	
M	AK904	2	Number of Accepted 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: None
Semantic Notes: None
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
M	SE02	329	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	M AN 4/9

997 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