Message Implementation Guideline

850 - Purchase Order
997 - Functional Acknowledgement
855 - Purchase Order Acknowledgment
860 - Purchase Order Change
856 - Advance Ship Notice
820 - Payment Advice/ Remittance Advice (RCTI)

Version 2.0

Document Release Notice

This Message Implementation Guide has been created for Harris Scarfe.

The holder is responsible for incorporating revisions into his copy of the document and keeping the contents up-to-date.

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Purpose of this Implementation Guide

The purpose of this guide is to provide suppliers with the necessary information to enable the implementation of receiving electronic purchase orders from Harris Scarfe.

Who should use this Guide?

This guide is intended for use by Harris Scarfe suppliers to prepare for the implementation of Electronic Data Interchange (EDI) and to assist with applications integration, thereby ensuring successful electronic trading.

Harris Scarfe EDI Document Formats

The following sections outline the format for the messages:

- ANSI X12 Envelope Structure
- 850 Version 2040 Purchase Order
- 997 Version 2040 Functional Acknowledgement
- 855 Version 3020 Purchase Order Acknowledgment / Response
- 860 Version 3020 Purchase Order Change
- 856 Version 3020 Advance Ship Notice
- 820 Version 3010 Payment Advice / Remittance Advice (RCTI)

All describe the relevant segments, elements and codes for Harris Scarfe EDI transactions.

ANSI X12 envelope structure

Interchange Control Structure

Version 00200

The ISA segment marks the beginning of the transmission and provides sender/receiver identification.

Each GS segment marks the beginning of a functional group. There may be one or more than one functional groups within each transmission. The ST segment marks the beginning of each transaction set (electronic document). There can be up to 999,999 transactions sets within each functional group.

The interchange control structure is common to all the transaction sets.

ISA	INTERCHANGE CONTROL HEADER	MANDATORY
GS	FUNCTIONAL GROUP HEADER	MANDATORY
ST	TRANSACTION SET HEADER (FOLLOWED BY TRANSACTION SET SEGMENTS)	MANDATORY
SE	TRANSACTION SET TRAILER	MANDATORY
GE	FUNCTIONAL GROUP TRAILER	MANDATORY
IEA	INTERCHANGE CONTROL TRAILER	MANDATORY

Data Element Type

The following types of data elements apply in the present documentation:

Nn	Numeric (n indicates decimal positions)
R	Decimal
ID	Identifier
AN	String
DT	Date (YYMMDD)
TM	Time (HHMMSSd..d)
B	Binary

Status Indicators

There are five types of status used in the following pages, whether for simple, component or composite data elements. They are listed below and can be identified when relevant by the abbreviations.

MANDATORY	M/ Must Use/ Used or >>	Indicates that the entity is required and must be sent.
RECOMMENDED	R	Indicates that the entity is advised or recommended.
CONDITIONAL	C	Indicates that the entity must be sent in certain conditions, as defined by the relevant explanatory note.
OPTIONAL	O	Indicates that the entity is optional and may be sent at the discretion of the user.
NOT USED	X	Indicates that the entity is not used and should be omitted.

Segment: **ISA** **Interchange Control Header**
Position:
Loop:
Level: Envelope
Usage: Mandatory
Max Use: 1
Purpose: To start and identify an interchange of one or more functional groups and interchange related control segments.
Syntax Notes:
Semantic Notes:
Comments: The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ISA01**	**101**	**Authorisation Information Qualifier** Code to identify the type of information in the authorisation information. Authorisation information is used to accommodate a UCS communications ID. It is only used when using ANSI standard and UCS communications. Normally the value is 00. 00=No authorisation information is present (no meaningful information in I02). The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.	**M**	**ID 2/2**
M	**ISA02**	**102**	**Authorisation Information** Information used for additional identification or authorisation of the sender or the data in the interchange. The type of information is set by the authorisation information qualifier. Normally this field is blank. If ISA01 is 01 this field will contain the UCS communications IS. The first occurrence of the <gs> (byte 4) defines the actual value of the data element separator and is graphically displayed as an asterisk " " in other ANSIX12 data segment documentation (eg the PO1 segment). The first occurrence of the <tr>, 1 byte after the data element ISA16, defines the actual value of the segment terminator and is graphically displayed as NL in other ANSI ASCX12 data segment documentation (eg the BFR segment in ANSIX12.22).	**M**	**AN 10/10**
M	**ISA03**	**103**	**Security Information Qualifier** Code to identify the type of information in the Security Information. Security Information is only used when using the UCS Communication standard. Normally the value is 00. 00=No security information present (no meaningful information in 104).	**M**	**ID 2/2**
M	**ISA04**	**104**	**Security Information** This is used for identifying the security information about the sender on the data in the interchange. The type of information is set by the security information qualifier. Normally this field is blank. If ISA03 is 01 this field will contain a password that has been agreed to by the sender and receiver.	**M**	**AN 10/10**
M	**ISA05**	**105**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver id element being qualified. The interchange ID qualifier is used to define the code used in ISA06 to identify sender of the interchange. ZZ=mutually defined.	**M**	**ID 2/2**
M	**ISA06**	**106**	**Interchange Sender** Harris Scarfe ID Identification code published by the sender for other parties to use as the receiver ID to route data to them. The sender always codes this number in the sender ID element. The identification code described by ISA05. Left justified, blank fill.	**M**	**ID 15/15**
M	**ISA07**	**105**	**Interchange ID Qualifier**	**O**	**ID 2/2**

Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.

The interchange ID qualifier is used to define the code used, in ISA08, to identify receiver of the interchange.
ZZ=mutually defined.

M	**ISA08**	**107**	**Interchange Receiver**	**M**	**ID 15/15**

Supplier ID.

Identification code published by the receiver of the data. When sending, it is used by the sender as their ID, thus other parties sending to them will use this as receiving ID to route data to them.
The identification code described by ISA07. Left justified, blank fill.

M	**ISA09**	**108**	**Date**	**M**	**DT 6/6**

Date of the interchange ISA generated (YYMMDD).
The date the interchange was created in the sender's system; submit date.

M	**ISA10**	**109**	**Time**	**M**	**TM 4/4**

Time of the interchange created (HHMM) in the sender's system; submit time.
24 hour clock.

M	**ISA11**	**110**	**Interchange Standards Identifier**	**M**	**ID 1/1**

Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.

U US EDI Community of X12, TDCC and UCS.

M	**ISA12**	**111**	**Interchange Version ID**	**M**	**ID 5/5**

This version number covers the interchange control segment only. Positions 1-3 of the field = major version, 4-5 of the field = release level of the version.

This version number is for the envelope only. It is not the same as the version number is the GS segments.
00200=The current value, Version 2, Release 0.

M	**ISA13**	**112**	**Interchange Control Number**	**M**	**N 9/9**

Generated by Harris Scarfe.

This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with sender ID, it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver and all third parties be able to maintain an audit trail of interchanges using this number.
The number is sequentially assigned, by the sender, starting with one within each trading partner. The trading partner at the interchange level is defined by the interchange receiver ID (ISA08). The control number is incremented by one for each interchange envelope sent to the trading partner. When the control numbers reaches 999999999 (maximum size) the next interchange envelope will have the control number of 000000001.

M	**ISA14**	**113**	**Acknowledgment Requested**	**M**	**ID 1/1**

Code set by the sender to request an interchange acknowledgment.

The retail industry is not using transmission acknowledgments. The transmission is not the same as the functional group acknowledgment.
O=No acknowledgment requested.

M	**ISA15**	**114**	**Test Indicator**	**M**	**ID 1/1**

Code to indicate whether data enclosed by this interchange envelope is test or production.

The test indicator is valuable for startup system tests. The indicator applies to the entire transmission.

P=Production data.
T=Test data.

M	**ISA16**	**115**	**Subelement Separator**	**M**	**AN 1/1**

This is a field reserved for future expansion in separating data element subgroups.
>=The value identified for retail use.

NOTES The purpose of this segment is to start and identify and interchange of one or more functional groups and interchange related control segments.

The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.

The first occurrence of the <gs> (byte 4) defines the actual value of the data element separator and is graphically displayed as an asterisk *** in other ANSIX12 data segment documentation (for example, the PO1 segment). The first occurrence of the <tr>, 1 byte after the data element ISA16, defines the actual value of the segment terminator and is graphically displayed as NL in other ANSI ASCX12 data segment documentation (for example, the BFR segment in ANSIX12.22).

The ISA segment is fixed length (min/max are equal for each element), however, data element separators are used between data elements to be consistent with the basic syntax of segment structure.

The following control characters have been identified for use in the retail industry ...

Segment terminator NEW LIN - (HEX “15” in EBCDIC)
LF - (HEX”OA” in ASCII)

- The segment terminator that is to be used in the transmission is defined by the first occurrence of the segment terminator in the ISA segment, for example, ISA*00...N/L
- Whichever character is used for the segment terminator must be used throughout the transmission

Element separator Recommended character BELL - (HEX “2F” in EBCDIC)
(HEX “07” in ASC11)
Alternate character “”” - (HEX “5C” in EBCDIC)
(HEX “2A” in ASCII)

- The element separator that is to be used in the transmission is defined by the first occurrence of the element separator in the ISA segment, for example, ISA*00...

Subelement separator“>“ - (HEX “6E” in EBCDIC)
(HEX “3E” in ASCII)

Caution any time a printable character is used to control the translation of data, that control character cannot be used as data within the transmission. Some systems/network protocols may translate control characters when going from EBCDIC to ASCII and back.

The ISA supports the UCS communication standard as well as the normal ANSIX12 convention for identification of the receiver and the sender.

ISA01 through ISA04 are only used if the trading partners are using the UCS communication standard. If the UCS communication standard is NOT used ISA01 and ISA03 will contain 00. ISA02 and ISA04 will contain spaces. If the UCS communication standard is being used ISA01, ISA03 and ISA05 will contain 01, 01 and 13 respectively. ISA02, ISA04 and ISA06 will contain the UCS communication ID, password and the telephone number for the receiver’s modem.

SEGMENT EXAMPLE:

ISA*00* *00* *01*9377777248357 *01*9088877320000 *090416*1219*U*00200*000000001*0*T*:

Segment: **GS** **Functional Group Header**
Position:
Loop:
Level: Group
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information.
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**GSA01**	**479**	**Functional ID** Code identifying a group of application related transaction sets. P O (850)=Purchase order.	**M**	**ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code Identifying party sending transmission. A unique code to identify the sender. This is usually the same as the code used in ISA06. It could be used to define sub organisations, ie companies of a corporation, departments etc. The trading partners must agree on the codes.	**M**	**ID 2/12**
M	**GS03**	**124**	**Application Receiver's Code** Supplier ID. Code identifying party receiving transmission. This is usually the same as the code used in ISA08. It could be used to define sub organisations, ie companies or a corporation, departments etc. The trading partners must agree on the codes.	**M**	**ID 2/12**
M	**GS04**	**29**	**Data Interchange Date** Date GE segment generated (YYMMDD). Date sender generated a functional group of transaction sets. The date the group was created in the sender's system; submit date.	**M**	**DT 6/6**
M	**GS05**	**30**	**Data Interchange Time** (HHMM) expressed in 24 hour clock time when the sender generated. The time the group was created in the sender's system; submit time.	**M**	**TM 4/4**
M	**GS06**	**28**	**Data Interchange Control** Assigned number originated and maintained by the sender. The number assigned by the sender must be unique within each trading partner. The trading partner at the group level is defined by the application receiver code (GS03). The uniqueness must be maintained until such time that a functional acknowledgment is received for that group.	**M**	**N 1/9**
M	**GS07**	**455**	**Responsible Agency Code** Code used in conjunction with the version data element to identify the issuer of the standard. X Accredited Standards Committee X12.	**M**	**ID 1/2**
M	**GS08**	**480**	**Version** The version code is used in conjunction with the Functional Identifier to specify an exact version of and EDI standard. Format of the version is ... *Position* *Content* 1-3 Major version number 4-6 Release level of version 7-12 Industry or trade assoc ID (optionally assigned by user) Version/release number is the Version and release of the transaction sets within the group. This is not the same as the version number in the ISA segment.	**M**	**ID 1/12**

SEGMENT EXAMPLE:

GS*PO*937777724835*908887732000*090416*1219*1*T*002040

Segment: **GE** **Group Control Trailer**

Position:
Loop:
Level: Group
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information.
Syntax Notes:
Semantic Notes:
Comments: The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximise functional group integrity. The control number is the same as that used in the corresponding header.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**GE01**	**97**	**Number of Transaction Sets** Generated by Harris Scarfe Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element. The count of ST segments within the group.	**M N 1/6**
M	**GE02**	**28**	**Group Control Number** Generated by Harris Scarfe. Assigned numbers originated and maintained by the sender. Must be the same number as in the GS segment (GS06) for the group.	**M N 1/9**

SEGMENT EXAMPLE:

GE*5*952

Segment: **IEA** **Interchange Control Trailer**
Position:
Loop:
Level: Envelope
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange of one or more functional groups and interchange related control segments.
Syntax Notes:
Semantic Notes:
Comments: The interchange control number in this trailer must match the value in the same data element in the corresponding interchange control header. The value of the data element separator represented by <gs> and the data segment terminator represented by <tr> are set by the interchange control header ISA for this interchange.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**IEA01**	**116**	**Number of Included Groups**	**M N 1/5**
			Generated by Harris Scarfe	
			A count of the number of functional groups included in a transmission.	
			The count of GS segments within the transmission.	
M	**IEA02**	**112**	**Intercahnge Control Number**	**M N 1/9**
			Generated by Harris Scarfe.	
			This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender, receiver and all third parties be able to maintain an audit trail of interchange using this number.	
			Must be the same number as in the ISA segment (ISA13) for the transmission.	

SEGMENT EXAMPLE

IEA*1*000000789

Harris Scarfe Business Rules involved in Electronic Trading

1. Harris Scarfe reserves the right to amend this document from time to time.

2. Harris Scarfe will be sending Purchase orders to their suppliers.

3. All Purchase orders received from Harris Scarfe must be acknowledged within eight business hours with a Functional Acknowledgment (FA/997) message.

4. Purchase Order Acknowledgment:

    - Suppliers are required to send a Purchase Order Acknowledgment (PR/855) message within 48 business hours of Harris Scarfe sending the Purchase Order or Purchase Order Change. The PR/855 message is to contain all order lines in the original message

    - For suppliers in transition to developing Purchase Order Acknowledgment (PR) capabilities, the Supplier is required to validate the Purchase order on receipt, and contact Harris Scarfe within 48 business hours regarding any discrepancies or errors related to the following:
        - Item barcode
        - Item price
        - Quantity
        - Delivery date
        - Delivery location

      If no contact is made by a Supplier within 48 business hours of Harris Scarfe sending the order, then Harris Scarfe will consider that the Purchase Order is accepted in its entirety.

5. Harris Scarfe will send a Purchase Order Change (PC/860) if the order is cancelled.

6. Suppliers wishing to substitute products must do so by calling Harris Scarfe, not via the Order Response - invalid Item Barcodes should show zero quantity for the lines involved.

7. Harris Scarfe will re-send the same Purchase Order with updated information if there is any change made to the original Purchase Order until the supplier has implemented the Purchase Order Change message.

8. The Purchase Order Types are defined as follows:

    RE: Harris Scarfe uses RE for replenishment of basic merchandise.

    BK: Blanket Orders are not currently used by Harris Scarfe.

    SA: Harris Scarfe uses SA for indent and promotional orders.

    RL: Release orders are not currently used by Harris Scarfe.

9. Suppliers are required to process the Purchase order and transmit the Advance Ship Notice (ASN) message to Harris Scarfe prior to shipping the goods.

850 Purchase Order

Functional Group ID=PO

Introduction:

This standard provides the format and establishes the data contents of a purchase order transaction set. The purchase order transaction set provides 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:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	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		
D	040	CUR	Currency	O	1		
Rec	050	REF	Reference Numbers	O	12		
D	080	FOB	F.O.B. Related Instructions	O	1		
D	100	SSS	Special Services	O	25		
Must Use	150	DTM	Date/Time/Period	O	10		
Rec	170	SHH	General Schedule	O	5		
D	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
			LOOP ID - N1			200	
Must Use	310	N1	Name	O	1		
D	340	N4	Geographic Location	O	1		

Detail:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PO1			100000	
M	010	PO1	Purchase Order Baseline Item Data	M	1		
Rec	040	CTP	Pricing Information	O	25		
Rec	050	PID	Product/Item Description	O	1000		
Must Use	090	PO4	Item Physical Details	O	1		
Rec	100	REF	Reference Numbers	O	12		
Rec	120	SSS	Special Services	O	25		
Used	190	SDQ	Destination Quantity	O	500		

Summary:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	CTT	Transaction Totals	M	1		
M	030	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:
Comments: **1** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 850 X12.1 Purchase Order	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number 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:
Comments:
Notes: Example :

BEG*00*SA*99AKDF9DAL393**090416

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**BEG01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original 01 Cancellation Cancellation of Original purchase order. 07 Duplicate By agreement with receiver.	**M ID 2/2**
M	**BEG02**	**92**	**Purchase Order Type Code** Code specifying the type of Purchase Order BK Blanket Order (Quantity Firm) RE Reorder RL Release (Blanket Order) An order for goods and services placed against a pre-existing contract or blanket 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**
X	**BEG04**	**328**	**Release Number**	**O AN 1/30**
M	**BEG05**	**323**	**Purchase Order Date** Date assigned by the purchaser to Purchase Order Date expressed in YYMMDD	**M DT 6/6**

Segment: **CUR** **Currency**
Position: 040
Loop:
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:
1 If CUR08 is present, then CUR07 is required.
2 If CUR09 is present, then CUR07 is required.
3 If CUR11 is present, then CUR10 is required.
4 If CUR12 is present, then CUR10 is required.
5 If CUR14 is present, then CUR13 is required.
6 If CUR15 is present, then CUR13 is required.
7 If CUR17 is present, then CUR16 is required.
8 If CUR18 is present, then CUR16 is required.
9 If CUR20 is present, then CUR19 is required.
10 If CUR21 is present, then CUR19 is required.
Semantic Notes:
Comments:
1 Monetary values are assumed to be expressed in thecurrency of the country of the transaction originatorunless the optional CUR segment is used to specify adifferent currency. The CUR segment also permits thetransaction originator to indicate a specific exchangerate, foreign exchange location and date/time as thebasis for a currency conversion. Example 1. Assuming thecurrency of the transaction originator is U.S. dollars,the following CUR segment, when used in the heading areaof a transaction, would indicate that all monetary valuesappearing in the transaction are expressed in CanadianDollars (CAD). (In this example the exchange rate is atthe discretion of the receiver). CUR*BY*CAD* N/L Example 2. Assuming the currency of the transactionoriginator is U.S. dollars, the following CUR segment,when used in the detail area of a transaction, describesa currency conversion for that particular item from U.S.dollars to Canadian dollars. It also indicates that aspecific exchange rate, at a specified foreign exchangelocation on a given date/time be used as the basis forthe currency conversion. Notes below the diagramdescribe the meaning of the element values. CUR*BY*USD*1.20*SE*CAD*NY*007* 840821*1400 N/L A B C D A. Identifies the buyer's (BY) currency as U.S. dollars(USD). B. The multiplier (1.20) is the exchange rate factor forthe conversion. C. Identifies the seller's (SE) currency as Canadiandollars (CAD). D. Indicates the basis for the exchange rate as the NewYork Foreign Exchange (NY) and the effective date/time(007) as August 21, 1984 (840821) at 2:00 P.M. (1400). The value for this item is to be converted to Canadiandollars (CAD) at the exchange rate of 1.20, based on theNew York Foreign Exchange (NY) at 2:00 P.M. (1400) onAugust 21, 1984. The actual unit price conversion forthe item would be: The unit price value 7.50 (U.S. dollars) multiplied bythe exchange rate (1.20) equals 9.00 Canadian dollars(7.50 X 1.20 = 9.00) CUR07 through CUR21 provide forfive (5) dates/times relating to the currency conversion,i.e., effective date, expiration date, etc.
Notes: FOR INTERNATIONAL ORDERS ONLY :

Example :

CUR*BY*AUD*SU*HKD

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**CUR01**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. BY Buying Party (Purchaser)	**M ID 2/2**
M	**CUR02**	**100**	**Currency Code** Code (Standard ISO) for country in whose currency the charges are specified	**M ID 3/3**

X	**CUR03**	**280**	**Exchange Rate**	**O**	**R 4/6**
O	**CUR04**	**98**	**Entity Identifier Code**	**O**	**ID 2/2**
			Code identifying an organizational entity or a physical location. SU Supplier/Manufacturer		
O	**CUR05**	**100**	**Currency Code**	**O**	**ID 3/3**
			Code (Standard ISO) for country in whose currency the charges are specified		

Segment: **REF** **Reference Numbers**
Position: 050
Loop:
Level: Heading
Usage: Optional (Recommended)
Max Use: 12
Purpose: To specify identifying numbers.
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example :

REF*DP*3920394930203

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. DP Department Number PD Promotion/Deal Number Also referred to as "Catalog Establishment Week".	**M ID 2/2**
M	**REF02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**M AN 1/30**

Segment: **FOB** **F.O.B. Related Instructions**
Position: 080
Loop:
Level: Heading
Usage: Optional (Dependent)
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:
Comments:
1 FOB01 indicates which party will pay the carrier.
2 FOB02 is the code specifying transportation responsibility location.
3 FOB06 is the code specifying 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.
Notes: FOR INTERNATIONAL ORDERS ONLY :

Example :

FOB*DF*01*TT

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**FOB01**	**146**	**Shipment Method of Payment** Code identifying payment terms for transportation charges DF Defined by Buyer and Seller	**M**	**ID 2/2**
X	**FOB02**	**309**	**Location Qualifier** Refer to 002040 Data Element Dictionary for acceptable code values.	**C**	**ID 1/2**
X	**FOB03**	**352**	**Description**	**O**	**AN 1/80**
O	**FOB04**	**334**	**Transportation Terms Qualifier Code** Code identifying the source of the transportation terms 01 Incoterms	**O**	**ID 2/2**
O	**FOB05**	**335**	**Transportation Terms Code** Code identifying the trade terms which apply to the shipment transportation responsibility LC Letter of Credit OA Open Account TT Telegraphic Transfer	**C**	**ID 2/3**

Segment: **SSS** **Special Services**
Position: 100
Loop:
Level: Heading
Usage: Optional (Dependent)
Max Use: 25
Purpose: To specify special conditions or services associated with the purchased product
Syntax Notes:
Semantic Notes:
Comments: **1** SSS07 (description) is normally used to clarify or expand on the services to be provided.
Notes: Example :

SSS*N*VI*OH

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**SSS01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified N No Allowance or Charge	**M ID 1/1**
M	**SSS02**	**559**	**Agency Qualifier Code** Code identifying the association assigning the codevalues. VI Voluntary Inter-industry Communication Standards (VICS)	**M ID 2/2**
M	**SSS03**	**560**	**Special Services Code** Code identifying the special service There are four services identified by VICS: ticketing, order handling, inscription and monogramming. The first two characters identify the service. Ticketing and order handling use additional characters to further define the service. Service Type (positions 1 & 2) TC = Ticketing Service OH = Order Handling Order Processing type (Positions 3 & 4) 99 = Non-standard Ticket PR = Promotional Order OH Order Handling TC Ticketing Service	**M ID 2/10**

Segment: **DTM** **Date/Time/Period**
Position: 150
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Semantic Notes:
Comments:
Notes: Examples :

DTM*001*090430
DTM*015*090601
DTM*037*090531

International Orders :

DTM*010*090330

Data Element Summary

User Attribute	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			
			001	Cancel After		
			010	Requested Ship		
				FOR INTERNATIONAL ORDERS ONLY : Requested Shipment Date from FOB port.		
			015	Promotion Start		
			037	Ship Not Before		
O	**DTM02**	**373**	**Date**		**C**	**DT 6/6**
			Date (YYMMDD)			

Segment: **SHH** **General Schedule**
Position: 170
Loop:
Level: Heading
Usage: Optional (Recommended)
Max Use: 5
Purpose: To specify general scheduling conditions
Syntax Notes: **1** If SHH03 is present, then SHH02 is required.
2 If SHH04 is present, then SHH02 is required.
Semantic Notes:
Comments: **1** SHH02 specifies the interpretation to be used for SHH03 and SHH04.
Notes: Example :

SHH*SC

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**SHH01**	**562**	**Scheduling/Shipping Code** Code indicating general scheduling/shipping arrangements. SC Ship Complete	**M ID 2/2**

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time)**
Position: 240
Loop:
Level: Heading
Usage: Optional (Dependent)
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:
1 At least one of TD502 TD504 or TD505 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.
Semantic Notes:
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.
Notes: FOR INTERNATIONAL ORDERS ONLY :

Example:

TD5*B****CONTAINER SHIP

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
D	**TD501**	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement B Origin/Delivery Carrier (Any Mode)	**O**	**ID 1/2**
X	**TD502**	**66**	**Identification Code Qualifier** Refer to 002040 Data Element Dictionary for acceptable code values.	**C**	**ID 1/2**
X	**TD503**	**67**	**Identification Code**	**C**	**ID 2/17**
X	**TD504**	**91**	**Transportation Method/Type Code**	**C**	**ID 1/2**
D	**TD505**	**387**	**Routing** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity Free form Description of Transport Method	**C**	**AN 1/35**
X	**TD506**	**368**	**Shipment/Order Status Code** Refer to 002040 Data Element Dictionary for acceptable code values.	**O**	**ID 2/2**
D	**TD507**	**309**	**Location Qualifier** Code identifying type of Location Identifier (310) used. OR Origin (Shipping Point)	**O**	**ID 1/2**
D	**TD508**	**310**	**Location Identifier** Code which identifies a specific location Port of Loading	**C**	**AN 1/25**

Segment: **N1** **Name**
Position: 310
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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.
Notes: Examples :

N1*BS**92*1234

N1*SU**92*401234

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. BS Bill and Ship To SU Supplier/Manufacturer	**M**	**ID 2/2**
X	**N102**	**93**	**Name**	**C**	**AN 1/35**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer	**C**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party. Ship-to DC/Store, or Supplier/Vendor code.	**C**	**ID 2/17**

Segment: **N4** **Geographic Location**
Position: 340
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:
1 At least one of N401 or N405 is required.
2 If N401 is present, then N402 is required.
3 If either N405 or N406 is present, then the other is required.
Semantic Notes:
Comments:
1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the USA or Canada.
Notes: For international orders, Country Code in N4.04 used to indicate the Supplier Country of Origin in ISO form.

Example :

N4****HKH

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
X	**N401**	**19**	**City Name**	**C AN 2/19**
X	**N402**	**156**	**State or Province Code**	**C ID 2/2**
X	**N403**	**116**	**Postal Code**	**O ID 5/9**
D	**N404**	**26**	**Country Code** Code identifying the country	**O ID 3/3**

Segment: **PO1** **Purchase Order Baseline Item Data**
Position: 010
Loop: PO1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic and most frequently used purchase order line item data
Syntax Notes:
1 If PO105 is present, then PO104 is required.
2 If PO106 is present, then PO107 is required.
3 If PO108 is present, then PO109 is required.
4 If PO110 is present, then PO111 is required.
5 If PO112 is present, then PO113 is required.
6 If PO114 is present, then PO115 is required.
7 If PO116 is present, then PO117 is required.
8 If PO118 is present, then PO119 is required.
9 If PO120 is present, then PO121 is required.
10 If PO122 is present, then PO123 is required.
11 If PO124 is present, then PO125 is required.
Semantic Notes:
Comments:
1 See the Data Dictionary for a complete list of ID's.
2 PO101 is the line item identification.
3 PO106 through PO125 provide for ten (10) different product/service ID's per each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.
Notes: Example :

PO1*1*3*EA*100.00*TE*EN*9334998948008*ST*STYLE1*CL*CUST12345*SZ*ASSEMBLY*RN*BRAND

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**PO101**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiationwithin a transaction set. Application generated line item reference.	**M**	**AN 1/6**
M	**PO102**	**330**	**Quantity Ordered** Quantity ordered	**M**	**R 1/9**
M	**PO103**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. EA Each	**M**	**ID 2/2**
>>	**PO104**	**212**	**Unit Price** Price per unit of product, service, commodity, etc.	**C**	**R 1/14**
>>	**PO105**	**639**	**Basis of Unit Price Code** Code identifying the type of unit price for an item TE Contract Price per Each	**O**	**ID 2/2**
>>	**PO106**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) EN European Article Number (EAN) (2-5-5-1)	**O**	**ID 2/2**
>>	**PO107**	**234**	**Product/Service ID** Identifying number for a product or service	**C**	**AN 1/30**
>>	**PO108**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) ST Style Number	**O**	**ID 2/2**
>>	**PO109**	**234**	**Product/Service ID**	**C**	**AN 1/30**

			Identifying number for a product or service		
>>	**PO110**	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) CL Color		
>>	**PO111**	**234**	**Product/Service ID**	**C**	**AN 1/30**
			Identifying number for a product or service		
>>	**PO112**	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) SZ Vendor Alphanumeric Size Code (NRMA)		
>>	**PO113**	**234**	**Product/Service ID**	**C**	**AN 1/30**
			Identifying number for a product or service		
>>	**PO114**	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) RN Release Number Release/Story		
>>	**PO115**	**234**	**Product/Service ID**	**C**	**AN 1/30**
			Identifying number for a product or service "Story" as a form of product grouping		

Segment: **CTP** **Pricing Information**
Position: 040
Loop: PO1 Mandatory
Level: Detail
Usage: Optional (Recommended)
Max Use: 25
Purpose: To specify pricing information
Syntax Notes:
1 If CTP02 is present, then CTP03 is required.
2 If CTP04 is present, then CTP05 is required.
3 If CTP06 is present, then CTP07 is required.
Semantic Notes:
Comments:
1 Example of use of CTP03 and CTP04. PRICE QUANTITY RANGE 1.00 0 to 999 0.75 1000 to 4999 0.50 5000 to 9999 0.25 10000 and above CTP03 CTP04 1.00 0 0.75 1000 0.50 5000 0.25 10000
2 Example of use of CTP03, CTP04 and CTP07. CTP03 CTP04 CTP07 1.00 0 0.90 0.75 1000 0.90 0.50 5000 0.90 0.25 10000 0.90
3 CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of 90 would be the factor if a 10% discount is given.
Notes: Example :

CTP*RS*RES*123.90

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
>>	**CTP01**	**687**	**Class of Trade Code** Code indicating class of trade RS Resale	**O**	**ID 2/2**
>>	**CTP02**	**236**	**Price Qualifier** Code identifying pricing specification RES Resale	**O**	**ID 3/3**
>>	**CTP03**	**212**	**Unit Price** Price per unit of product, service, commodity, etc. Retail Price for use on Tickets/Labels	**C**	**R 1/14**

Segment: **PID** **Product/Item Description**
Position: 050
Loop: PO1 Mandatory
Level: Detail
Usage: Optional (Recommended)
Max Use: 1000
Purpose: To describe a product or process in coded or free-form format
Syntax Notes:
1 If PID04 is present, then PID03 is required.
2 At least one of PID04 or PID05 is required.
Semantic Notes:
Comments:
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 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
Notes: Example :

PID*F**AB*W09E9*GENERAL PURPOSE

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**PID01**	**349**	**Item Description Type** Code indicating the format of a description F Free-form	**M ID 1/1**
X	**PID02**	**750**	**Product/Process Characteristic Code** Refer to 002040 Data Element Dictionary for acceptable code values.	**O ID 2/3**
>>	**PID03**	**348**	**Item Description Qualifier** Code identifying agency responsible for the code used. AB Assigned by Buyer	**C ID 2/2**
>>	**PID04**	**751**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic SSSAA Combined Season/Age Code For Ticketing Purposes. Season Code in the form SYY (Season/Year) Age Code in the form MY (Month A - L/Year) Examples: W09 (Season - Winter 2009) E9 (Age - May 2009)	**C ID 1/12**
>>	**PID05**	**352**	**Description** A free-form description to clarify the related data elements and their content Free form Product Description.	**C AN 1/80**

Segment: **PO4** **Item Physical Details**
Position: 090
Loop: PO1 Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
1 If PO402 is present, then PO403 is required.
2 If PO405 is present, then at least one of PO406 or PO407 is required.
3 If PO408 is present, then PO409 is required.
4 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
Semantic Notes:
Comments:
1 PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
2 PO410 defines the unit of measure for PO408, PO409, and PO410.
Notes: For expressing Pack Quantities,

FOR INTERNATIONAL ORDERS :

Weights and Volumes included also.

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
>>	**PO401**	**356**	**Pack**	**O**	**N0 1/6**
			Number of inner pack units per outer pack unit		
			Saleable Units per Pack		
X	**PO402**	**357**	**Size**	**O**	**R 1/8**
X	**PO403**	**355**	**Unit or Basis for Measurement Code**	**C**	**ID 2/2**
			Refer to 002040 Data Element Dictionary for acceptable code values.		
X	**PO404**	**103**	**Packaging Code**	**O**	**ID 5/5**
			Refer to 002040 Data Element Dictionary for acceptable code values.		
X	**PO405**	**187**	**Weight Qualifier**	**O**	**ID 1/2**
			Refer to 002040 Data Element Dictionary for acceptable code values.		
D	**PO406**	**384**	**Gross Weight per Pack**	**C**	**R 1/9**
			Numeric value of gross weight per pack		
D	**PO407**	**355**	**Unit or Basis for Measurement Code**	**C**	**ID 2/2**
			Code identifying the basic unit of measurement.		
			KG Kilogram		
D	**PO408**	**385**	**Gross Volume per Pack**	**O**	**R 1/9**
			Numeric value of gross volume per pack		
D	**PO409**	**355**	**Unit or Basis for Measurement Code**	**C**	**ID 2/2**
			Code identifying the basic unit of measurement.		
			CO Cubic Meters (Net)		

Segment: **REF** **Reference Numbers**
Position: 100
Loop: PO1 Mandatory
Level: Detail
Usage: Optional (Recommended)
Max Use: 12
Purpose: To specify identifying numbers.
Syntax Notes:
Semantic Notes:
Comments:
Notes: Denotes Department as printed on Carton Labels/Tickets.

Can vary by line item.

Example :

REF*DP*12345678

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. DP Department Number	**M ID 2/2**
M	**REF02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**M AN 1/30**

Segment: **SSS** **Special Services**
Position: 120
Loop: PO1 Mandatory
Level: Detail
Usage: Optional (Recommended)
Max Use: 25
Purpose: To specify special conditions or services associated with the purchased product
Syntax Notes:
Semantic Notes:
Comments: **1** SSS07 (description) is normally used to clarify or expand on the services to be provided.
Notes: Example :

SSS*N*VI*TC****GENERAL PURPOSE

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**SSS01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified N No Allowance or Charge	**M**	**ID 1/1**
M	**SSS02**	**559**	**Agency Qualifier Code** Code identifying the association assigning the codevalues. VI Voluntary Inter-industry Communication Standards (VICS)	**M**	**ID 2/2**
M	**SSS03**	**560**	**Special Services Code** Code identifying the special service TC Ticketing Service	**M**	**ID 2/10**
X	**SSS04**	**561**	**Service Marks and Numbers**	**O**	**AN 1/45**
X	**SSS05**	**359**	**Allowance or Charge Rate**	**O**	**R 1/9**
X	**SSS06**	**360**	**Allowance or Charge Total Amount**	**O**	**N2 1/9**
R	**SSS07**	**352**	**Description** A free-form description to clarify the related data elements and their content Free form description of Ticket Type	**O**	**AN 1/80**

Segment: **SDQ** **Destination Quantity**
Position: 190
Loop: PO1 Mandatory
Level: Detail
Usage: Optional
Max Use: 500
Purpose: To specify destination and quantity detail
Syntax Notes:
1 If SDQ05 is present, then SDQ06 is required.
2 If SDQ07 is present, then SDQ08 is required.
3 If SDQ09 is present, then SDQ10 is required.
4 If SDQ11 is present, then SDQ12 is required.
5 If SDQ13 is present, then SDQ14 is required.
6 If SDQ15 is present, then SDQ16 is required.
7 If SDQ17 is present, then SDQ18 is required.
8 If SDQ19 is present, then SDQ20 is required.
9 If SDQ21 is present, then SDQ22 is required.
Semantic Notes:
Comments: **1** SDQ02 is used only if different than previously defined in the transaction set.
Notes: Example :

SDQ*EA*92*001*12*004*10

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**SDQ01**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. EA Each	**M**	**ID 2/2**
O	**SDQ02**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer	**O**	**ID 1/2**
M	**SDQ03**	**67**	**Identification Code** Code identifying a party. Store Code	**M**	**ID 2/17**
M	**SDQ04**	**380**	**Quantity** Numeric value of quantity Quantity for a Store	**M**	**R 1/10**
O	**SDQ05**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ06**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**
O	**SDQ07**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ08**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**
O	**SDQ09**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ10**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**
O	**SDQ11**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ12**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**

O	**SDQ13**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ14**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**
O	**SDQ15**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ16**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**
O	**SDQ17**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ18**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**
O	**SDQ19**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ20**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**
O	**SDQ21**	**67**	**Identification Code** Code identifying a party.	**O**	**ID 2/17**
O	**SDQ22**	**380**	**Quantity** Numeric value of quantity	**C**	**R 1/10**

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If CTT03 is present, then CTT04 is required.
2 If CTT05 is present, then CTT06 is required.
Semantic Notes:
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: Example :

CCT*2

Data Element Summary

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

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

User Attribute	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 N0 1/6**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**

997 Functional Acknowledgment

Functional Group ID=FA

Introduction:

This standard provides the format and establishes the data contents of a functional acknowledgment transaction set. The purpose of this standard is 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.

Heading:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	AK1	Functional Group Response Header	M	1		
M	070	AK9	Functional Group Response Trailer	M	1		
M	080	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:
Comments: **1** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).
Notes: Segment Example :

ST*997*0001

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set Refer to 002040 Data Element Dictionary for acceptable code values.	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**

Segment: **AK1** **Functional Group Response Header**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To start acknowledgment of a functional group
Syntax Notes:
Semantic Notes:
Comments: **1** AK102 is the data interchange control number found in the GS segment in the functional group being acknowledged.
Notes: Segment Example :

AK1*PO*5

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**AK101**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets Refer to 002040 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: **AK9** **Functional Group Response Trailer**
Position: 070
Loop:
Level: Heading
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:
Semantic Notes:
Comments: **1** If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.
Notes:

Segment Example :

AK9*A*1*1*1

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**AK901**	**715**	**Functional Group Acknowledge Code** Code indicating accept or reject condition based on the syntax editing of the functional group A Accepted E Accepted, But Errors Were Noted. R Rejected	**M ID 1/1**
M	**AK902**	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M N0 1/6**
M	**AK903**	**123**	**Number of Received Transaction Sets** Number of Transaction Sets received	**M N0 1/6**
M	**AK904**	**2**	**Number of Accepted Transaction Sets** Number of accepted Transaction Sets in a Functional Group	**M N0 1/6**

Segment: **SE** **Transaction Set Trailer**
Position: 080
Loop:
Level: Heading
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.
Notes: Segment Example :

SE*4*0001

Data Element Summary

User Attribute	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 N0 1/6**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**

855 Purchase Order Acknowledgment

Functional Group ID=PR

Introduction:

This standard provides the format and establishes the data contents of a purchase order acknowledgment transaction set. The purchase order acknowledgment transaction set provides for customary and established business and industry practice relative to a seller's acknowledgment of a buyer's purchase order.

Heading:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1		
Must Use	150	DTM	Date/Time/Period	O	4		
			LOOP ID - N1			2	
Must Use	300	N1	Name	O	1		

Detail:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PO1			100000	
Used	010	PO1	Purchase Order Baseline Item Data	O	1		
Used	190	SDQ	Destination Quantity	O	500		

Summary:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	CTT	Transaction Totals	M	1		n1
M	030	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. 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:
Comments: **1** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 855 X12.9 Purchase Order Acknowledgment	**M**	**ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M**	**AN 4/9**

Segment: **BAK** **Beginning Segment for Purchase Order Acknowledgment**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes:
Comments: **1** BAK08 is the seller's order number.
Notes: Example :

BAK*11*AC*99AKDF9DAL393*090416

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**BAK01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 11 Response	**M ID 2/2**
M	**BAK02**	**587**	**Acknowledgment Type** Code specifying the type of acknowledgment AC Acknowledge - With Detail and Change AD Acknowledge - With Detail, No Change RD Reject with Detail	**M ID 2/2**
M	**BAK03**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser	**M AN 1/22**
M	**BAK04**	**323**	**Purchase Order Date** Date assigned by the purchaser to Purchase Order	**M DT 6/6**

Segment: **DTM** **Date/Time/Period**
Position: 150
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 4
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Semantic Notes:
Comments:
Notes:

Examples :

DTM*001*090430
DTM*015*090601
DTM*037*090531

International Orders :

DTM*010*090330

Data Element Summary

User Attribute	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			
			001	Cancel After		
			010	Requested Ship		
				INTERNATIONAL ORDERS ONLY - Requested Shipment Date from FOB Port		
			015	Promotion Start		
				Optional - used to indicate Advertised Date		
			037	Ship Not Before		
				Required.		
O	**DTM02**	**373**	**Date**		**X**	**DT 6/6**
			Date (YYMMDD)			

Segment: **N1** **Name**
Position: 300
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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.
Notes: Example :

N1*BS**92*1234
N1*SU**92*401234

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. BS Bill and Ship To SU Supplier/Manufacturer	**M**	**ID 2/2**
X	**N102**	**93**	**Name**	**X**	**AN 1/35**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Refer to 003020 Data Element Dictionary for acceptable code values.	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party. Ship-to destination, or Supplier/Vendor number	**X**	**AN 2/17**

Segment: **PO1** **Purchase Order Baseline Item Data**
Position: 010
Loop: PO1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify basic and most frequently used purchase order line item data
Syntax Notes:
1 If PO105 is present, then PO104 is required.
2 If PO106 is present, then PO107 is required.
3 If PO108 is present, then PO109 is required.
4 If PO110 is present, then PO111 is required.
5 If PO112 is present, then PO113 is required.
6 If PO114 is present, then PO115 is required.
Semantic Notes:
Comments:
1 See the Data Dictionary for a complete list of ID's.
2 PO101 is the line item identification.
3 PO106 through PO125 provide for ten (10) different product/service ID's per each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.
Notes: Example :

PO1*1*3*EA*100.00*TE*EN*9334998948008*ST*STYLE1*CL*CUST12345*SZ*ASSEMBLY*RN*BRAND

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
>>	**PO101**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Line Reference Number as per ordered line.	**O**	**AN 1/11**
M	**PO102**	**330**	**Quantity Ordered** Quantity ordered	**M**	**R 1/9**
M	**PO103**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. EA Each	**M**	**ID 2/2**
O	**PO104**	**212**	**Unit Price** Price per unit of product, service, commodity, etc.	**X**	**R 1/14**
O	**PO105**	**639**	**Basis of Unit Price Code** Code identifying the type of unit price for an item TE Contract Price per Each	**O**	**ID 2/2**
O	**PO106**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) EN European Article Number (EAN) (2-5-5-1)	**O**	**ID 2/2**
O	**PO107**	**234**	**Product/Service ID** Identifying number for a product or service	**X**	**AN 1/30**
O	**PO108**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) ST Style Number	**O**	**ID 2/2**
O	**PO109**	**234**	**Product/Service ID** Identifying number for a product or service	**X**	**AN 1/30**
O	**PO110**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	**O**	**ID 2/2**

			CL Color		
O	**PO111**	**234**	**Product/Service ID**	**X**	**AN 1/30**
			Identifying number for a product or service		
O	**PO112**	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) SZ Vendor Alphanumeric Size Code (NRMA)		
O	**PO113**	**234**	**Product/Service ID**	**X**	**AN 1/30**
			Identifying number for a product or service		
O	**PO114**	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) RN Release Number Release/Story		
O	**PO115**	**234**	**Product/Service ID**	**X**	**AN 1/30**
			Identifying number for a product or service "Story" as a form of product grouping.		

Segment: **SDQ** **Destination Quantity**
Position: 190
Loop: PO1 Optional
Level: Detail
Usage: Optional
Max Use: 500
Purpose: To specify destination and quantity detail
Syntax Notes:
1 If SDQ05 is present, then SDQ06 is required.
2 If SDQ07 is present, then SDQ08 is required.
3 If SDQ09 is present, then SDQ10 is required.
4 If SDQ11 is present, then SDQ12 is required.
5 If SDQ13 is present, then SDQ14 is required.
6 If SDQ15 is present, then SDQ16 is required.
7 If SDQ17 is present, then SDQ18 is required.
8 If SDQ19 is present, then SDQ20 is required.
9 If SDQ21 is present, then SDQ22 is required.
Semantic Notes:
Comments: **1** SDQ02 is used only if different than previously defined in the transaction set.
Notes: Example :

SDQ*EA*92*001*12*004*10

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**SDQ01**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. EA Each	**M**	**ID 2/2**
O	**SDQ02**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**O**	**ID 1/2**
M	**SDQ03**	**67**	**Identification Code** Code identifying a party. Store Code	**M**	**AN 2/17**
M	**SDQ04**	**380**	**Quantity** Numeric value of quantity Quantity for Store	**M**	**R 1/15**
O	**SDQ05**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ06**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ07**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ08**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ09**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ10**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ11**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ12**	**380**	**Quantity**	**X**	**R 1/15**

			Numeric value of quantity		
O	**SDQ13**	**67**	**Identification Code**	**O**	**AN 2/17**
			Code identifying a party.		
O	**SDQ14**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		
O	**SDQ15**	**67**	**Identification Code**	**O**	**AN 2/17**
			Code identifying a party.		
O	**SDQ16**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		
O	**SDQ17**	**67**	**Identification Code**	**O**	**AN 2/17**
			Code identifying a party.		
O	**SDQ18**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		
O	**SDQ19**	**67**	**Identification Code**	**O**	**AN 2/17**
			Code identifying a party.		
O	**SDQ20**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		
O	**SDQ21**	**67**	**Identification Code**	**O**	**AN 2/17**
			Code identifying a party.		
O	**SDQ22**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If CTT03 is present, then CTT04 is required.
2 If CTT05 is present, then CTT06 is required.
Semantic Notes:
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: Example :

CCT*2

Data Element Summary

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

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

User Attribute	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 N0 1/6**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**

860 Purchase Order Change Request - Buyer Initiated

Functional Group ID=PC

Introduction:

This standard provides for the format and establishes the data contents of a purchase order change transaction set. The purchase order change transaction set provides the information required for the customary and established business and industry practice relative to a purchase order change. This transaction can be used: (1) by a buyer to request a change to a previously submitted purchase order or (2) by a buyer to confirm acceptance of a purchase order change initiated by the seller or by mutual agreement of the two parties.

Heading:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BCH	Beginning Segment for Purchase Order Change	M	1		
D	040	CUR	Currency	O	1		
Used	050	REF	Reference Numbers	O	2		
D	080	FOB	F.O.B. Related Instructions	O	1		
Used	100	SSS	Special Services	O	1		
Must Use	150	DTM	Date/Time/Period	O	4		
D	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		
			LOOP ID - N1			2	
Must Use	300	N1	Name	O	1		
D	330	N4	Geographic Location	O	1		

Detail:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - POC			10000	
Must Use	010	POC	Line Item Change	O	1		
Used	040	CTP	Pricing Information	O	1		
			LOOP ID - PID			1	
Used	050	PID	Product/Item Description	O	1		
Rec	090	PO4	Item Physical Details	O	1		
Used	100	REF	Reference Numbers	O	1		
Used	120	SSS	Special Services	O	1		
Used	190	SDQ	Destination Quantity	O	500		

Summary:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	CTT	Transaction Totals	M	1		n1
M	030	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of POC segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (POC03) for each POC 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:
Comments: **1** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 860 X12.15 Purchase Order Change Request - Buyer Initiated	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**

Segment: **BCH** **Beginning Segment for Purchase Order Change**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Change Transaction Set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes:
Comments: **1** BCH09 is the seller's order number.
Notes: Example :

BCH*05*SA*99AKDF9DAL393***090416

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name		Attributes	
M	**BCH01**	**353**	**Transaction Set Purpose Code**		**M**	**ID 2/2**
			Code identifying purpose of transaction set			
			01	Cancellation		
			05	Replace		
M	**BCH02**	**92**	**Purchase Order Type Code**		**M**	**ID 2/2**
			Code specifying the type of Purchase Order			
			BK	Blanket Order (Quantity Firm)		
			RE	Reorder		
			RL	Release (Blanket Order)		
				An order for goods and services placed against a pre-existing contract or blanket order		
			SA	Stand-alone Order		
M	**BCH03**	**324**	**Purchase Order Number**		**M**	**AN 1/22**
			Identifying number for Purchase Order assigned by the orderer/purchaser			
X	**BCH04**	**328**	**Release Number**		**O**	**AN 1/30**
X	**BCH05**	**327**	**Change Order Sequence Number**		**O**	**AN 1/8**
M	**BCH06**	**323**	**Purchase Order Date**		**M**	**DT 6/6**
			Date assigned by the purchaser to Purchase Order			
X	**BCH07**	**326**	**Request Reference Number**		**O**	**AN 1/45**
X	**BCH08**	**367**	**Contract Number**		**O**	**AN 1/30**
X	**BCH09**	**127**	**Reference Number**		**O**	**AN 1/30**
X	**BCH10**	**588**	**Acknowledgment Date**		**O**	**DT 6/6**
>>	**BCH11**	**279**	**Purchase Order Change Request Date**		**O**	**DT 6/6**
			Date of the purchase order change request.			
			Creation Date of POC.			

Segment: **CUR** **Currency**
Position: 040
Loop:
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:
Semantic Notes:
Comments: **1** Monetary values are assumed to be expressed in the currency of the country of the transaction originator unless the optional CUR segment is used to specify a different currency.
Notes: FOR INTERNATIONAL ORDERS ONLY :

Example :

CUR*BY*AUD*SU*HKD

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**CUR01**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. BY Buying Party (Purchaser)	**M**	**ID 2/2**
M	**CUR02**	**100**	**Currency Code** Code (Standard ISO) for country in whose currency the charges are specified	**M**	**ID 3/3**
X	**CUR03**	**280**	**Exchange Rate**	**O**	**R 4/6**
O	**CUR04**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. SU Supplier/Manufacturer	**O**	**ID 2/2**
O	**CUR05**	**100**	**Currency Code** Code (Standard ISO) for country in whose currency the charges are specified	**O**	**ID 3/3**

Segment: **REF** **Reference Numbers**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: Example :

REF*DP*3920
REF*PD*AD0906

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. DP Department Number PD Promotion/Deal Number Also referred to as "Catalog Establishment Week".	**M ID 2/2**
O	**REF02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **FOB** **F.O.B. Related Instructions**
Position: 080
Loop:
Level: Heading
Usage: Optional (Dependent)
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:
Comments:
1 FOB01 indicates which party will pay the carrier.
2 FOB02 is the code specifying transportation responsibility location.
3 FOB06 is the code specifying 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.
Notes: FOR INTERNATIONAL ORDERS ONLY :

Example :

FOB*DF*01*TT

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**FOB01**	**146**	**Shipment Method of Payment** Code identifying payment terms for transportation charges DF Defined by Buyer and Seller	**M**	**ID 2/2**
X	**FOB02**	**309**	**Location Qualifier** Refer to 003020 Data Element Dictionary for acceptable code values.	**X**	**ID 1/2**
X	**FOB03**	**352**	**Description**	**O**	**AN 1/80**
O	**FOB04**	**334**	**Transportation Terms Qualifier Code** Code identifying the source of the transportation terms 01 Incoterms	**O**	**ID 2/2**
O	**FOB05**	**335**	**Transportation Terms Code** Code identifying the trade terms which apply to the shipment transportation responsibility LC Letter of Credit OA Open Account TT Telegraphic Transfer	**X**	**ID 2/3**

Segment: **SSS** **Special Services**
Position: 100
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify special conditions or services associated with the purchased product
Syntax Notes:
Semantic Notes:
Comments: **1** SSS02 identifies the source of the code value in SSS03.
2 SSS07 (description) is normally used to clarify or expand on the services to be provided.
Notes: Example :

SSS*N*VI*OH99

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**SSS01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified N No Allowance or Charge	**M ID 1/1**
M	**SSS02**	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values VI Voluntary Interindustry Communication Standards (VICS)	**M ID 2/2**
M	**SSS03**	**560**	**Special Services Code** Code identifying the special service There are four services identified by VICS: ticketing, order handling, inscription and monogramming. The first two characters identify the service. Ticketing and order handling use additional characters to further define the service. Service Type (positions 1 & 2) TC = Ticketing Service OH = Order Handling Order Processing type (Positions 3 & 4) 99 = Non-standard Ticket PR = Promotional Order OH Order Handling TC Ticketing Service	**M ID 2/10**

Segment: **DTM** **Date/Time/Period**
Position: 150
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 4
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Semantic Notes:
Comments:
Notes:

Examples :

DTM*001*090430
DTM*015*090601
DTM*037*090531

International Order :

DTM*010*090330

Data Element Summary

User Attribute	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			
			001	Cancel After		
			010	Requested Ship		
				INTERNATIONAL ORDERS ONLY : Requested Shipment Date from FOB port.		
			015	Promotion Start		
			037	Ship Not Before		
O	**DTM02**	**373**	**Date**		**X**	**DT 6/6**
			Date (YYMMDD)			

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time)**
Position: 240
Loop:
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:
1 If TD502 is present, then TD503 is required.
2 If TD507 is present, then TD508 is required.
3 At least one of TD502 TD504 or TD505 is required.
Semantic Notes:
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.
Notes: FOR INTERNATIONAL ORDERS ONLY :

Example:

TD5*B****CONTAINER SHIP

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
O	**TD501**	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement B Origin/Delivery Carrier (Any Mode)	**O**	**ID 1/2**
X	**TD502**	**66**	**Identification Code Qualifier** Refer to 003020 Data Element Dictionary for acceptable code values.	**X**	**ID 1/2**
X	**TD503**	**67**	**Identification Code**	**X**	**AN 2/17**
X	**TD504**	**91**	**Transportation Method/Type Code** Refer to 003020 Data Element Dictionary for acceptable code values.	**X**	**ID 1/2**
O	**TD505**	**387**	**Routing** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity Free form Description of Transport Method	**X**	**AN 1/35**
X	**TD506**	**368**	**Shipment/Order Status Code** Refer to 003020 Data Element Dictionary for acceptable code values.	**O**	**ID 2/2**
O	**TD507**	**309**	**Location Qualifier** Code identifying type of location OR Origin (Shipping Point)	**O**	**ID 1/2**
O	**TD508**	**310**	**Location Identifier** Code which identifies a specific location Port of Loading.	**X**	**AN 1/25**

Segment: **N1** **Name**
Position: 300
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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.
Notes: Example :

N1*BS**92*1234
SU*SU**401234

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. BS Bill and Ship To SU Supplier/Manufacturer	**M**	**ID 2/2**
X	**N102**	**93**	**Name**	**X**	**AN 1/35**
O	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**X**	**ID 1/2**
O	**N104**	**67**	**Identification Code** Code identifying a party. Ship-to DC/Store, or Supplier/Vendor Code.	**X**	**AN 2/17**

Segment: **N4** **Geographic Location**
Position: 330
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:
1 At least one of N401 or N405 is required.
2 If either N405 or N406 is present, then the other is required.
Semantic Notes:
Comments:
1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the USA or Canada.
Notes: For international orders, Country Code in N4.04 used to indicate the Supplier Country of Origin in ISO form.

Example :

N4****HKH

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
X	**N401**	**19**	**City Name**	**X**	**AN 2/19**
X	**N402**	**156**	**State or Province Code**	**O**	**ID 2/2**
X	**N403**	**116**	**Postal Code**	**O**	**ID 4/9**
O	**N404**	**26**	**Country Code** Code identifying the country	**O**	**ID 2/2**

Segment: **POC** **Line Item Change**
Position: 010
Loop: POC Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify changes to a line item
Syntax Notes:
1 If POC03 is present, then both POC04 and POC05 are required.
2 If POC07 is present, then POC06 is required.
3 If POC08 is present, then POC09 is required.
4 If POC10 is present, then POC11 is required.
5 If POC12 is present, then POC13 is required.
6 If POC14 is present, then POC15 is required.
7 If POC16 is present, then POC17 is required.
Semantic Notes:
Comments:
1 POC01 is the purchase order line item identification.
Notes:
Example :

POC*1*3*EA*100.00*TE*EN*9334998948008*ST*STYLE1*CL*CUST12345*SZ*ASSEMBLY*RN*BRAND

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
>>	**POC01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Unique Line Reference Number as per original PO.	**O**	**AN 1/11**
M	**POC02**	**670**	**Change or Response Type Code** Code specifying the type of change to the line item CF Cancel Previously Transmitted Purchase Order	**M**	**ID 2/2**
>>	**POC03**	**330**	**Quantity Ordered** Quantity ordered	**O**	**R 1/9**
>>	**POC04**	**671**	**Quantity Left to Receive** Quantity left to receive as qualified by the unit of measure New ordered quantity.	**X**	**R 1/9**
O	**POC05**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. EA Each	**X**	**ID 2/2**
>>	**POC06**	**212**	**Unit Price** Price per unit of product, service, commodity, etc.	**X**	**R 1/14**
O	**POC07**	**639**	**Basis of Unit Price Code** Code identifying the type of unit price for an item TE Contract Price per Each	**O**	**ID 2/2**
O	**POC08**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) EN European Article Number (EAN) (2-5-5-1)	**O**	**ID 2/2**
O	**POC09**	**234**	**Product/Service ID** Identifying number for a product or service	**X**	**AN 1/30**
O	**POC10**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) ST Style Number	**O**	**ID 2/2**

O	**POC11**	**234**	**Product/Service ID**	**X**	**AN 1/30**
			Identifying number for a product or service		
O	**POC12**	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) CL Color		
O	**POC13**	**234**	**Product/Service ID**	**X**	**AN 1/30**
			Identifying number for a product or service		
O	**POC14**	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) SZ Vendor Alphanumeric Size Code (NRMA)		
O	**POC15**	**234**	**Product/Service ID**	**X**	**AN 1/30**
			Identifying number for a product or service		
O	**POC16**	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) RN Release Number Release.Story		
O	**POC17**	**234**	**Product/Service ID**	**X**	**AN 1/30**
			Identifying number for a product or service "Story" as a form of product grouping.		

Segment: **CTP** **Pricing Information**
Position: 040
Loop: POC Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify pricing information
Syntax Notes:
1 If CTP04 is present, then CTP05 is required.
2 If CTP06 is present, then CTP07 is required.
Semantic Notes:
Comments:
1 Example of use of CTP03 and CTP04. PRICE QUANTITY RANGE 1.00 0 to 999 0.75 1000 to 4999 0.50 5000 to 9999 0.25 10000 and above CTP03 CTP04 1.00 0 0.75 1000 0.50 5000 0.25 10000
Example of use of CTP03, CTP04 and CTP07. CTP03 CTP04 CTP07 1.00 0 0.90 0.75 1000 0.90 0.50 5000 0.90 0.25 10000 0.90
2 CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of 90 would be the factor if a 10% discount is given.
Notes:
Example :

CTP*RS*RES*123.90

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
O	**CTP01**	**687**	**Class of Trade Code** Code indicating class of trade RS Resale	**O ID 2/2**
O	**CTP02**	**236**	**Price Identifier Code** Code identifying pricing specification RES Resale	**O ID 3/3**
O	**CTP03**	**212**	**Unit Price** Price per unit of product, service, commodity, etc. Retail Price for use on Tickets/Labels	**O R 1/14**

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:
1 If PID04 is present, then PID03 is required.
2 At least one of PID04 or PID05 is required.
Semantic Notes:
Comments:
1 If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``X", then both PID04 and PID05 are used.
2 Use PID03 to indicate the organization that publishes the code list being referred to.
3 PID04 should be used for industry-specific product description codes.
4 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
Notes:

Example :

PID*F**AB*W09E9*GENERAL PURPOSE

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**PID01**	**349**	**Item Description Type** Code indicating the format of a description F Free-form	**M ID 1/1**
X	**PID02**	**750**	**Product/Process Characteristic Code** Refer to 003020 Data Element Dictionary for acceptable code values.	**O ID 2/3**
X	**PID03**	**559**	**Agency Qualifier Code** Refer to 003020 Data Element Dictionary for acceptable code values.	**X ID 2/2**
O	**PID04**	**751**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic SSSAA Combines Season/Age Code For Ticketing Purposes Season Code in the form SYY (Season/Year) Age Code in the form MY (Month A - L/Year) Examples: W09 (Season - Winter 2009) E9 (Age - May 2009)	**X AN 1/12**
O	**PID05**	**352**	**Description** A free-form description to clarify the related data elements and their content Free form Product Description.	**X AN 1/80**
O	**PID06**	**752**	**Surface/Layer/Position Code** Code indicating the product surface, layer or position that is being described Refer to 003020 Data Element Dictionary for acceptable code values.	**O ID 2/2**

Segment: **PO4** **Item Physical Details**
Position: 090
Loop: POC Optional (Must Use)
Level: Detail
Usage: Optional (Recommended)
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
1 If PO402 is present, then PO403 is required.
2 If PO405 is present, then at least one of PO406 or PO407 is required.
3 If PO408 is present, then PO409 is required.
4 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
Semantic Notes:
Comments:
1 PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
2 PO410 defines the unit of measure for PO408, PO409, and PO410.
Notes: For expressing Pack Quantities,

FOR INTERNATIONAL ORDERS, Weights and Volumes included also.

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
O	**PO401**	**356**	**Pack**	**O**	**N0 1/6**
			Number of inner pack units per outer pack unit		
X	**PO402**	**357**	**Size**	**O**	**R 1/8**
X	**PO403**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**PO404**	**103**	**Packaging Code**	**O**	**AN 5/5**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**PO405**	**187**	**Weight Qualifier**	**O**	**ID 1/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
O	**PO406**	**384**	**Gross Weight per Pack**	**X**	**R 1/9**
			Numeric value of gross weight per pack		
O	**PO407**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Code identifying the basic unit of measurement.		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
O	**PO408**	**385**	**Gross Volume per Pack**	**O**	**R 1/9**
			Numeric value of gross volume per pack		
O	**PO409**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Code identifying the basic unit of measurement.		
			Refer to 003020 Data Element Dictionary for acceptable code values.		

Segment: **REF** **Reference Numbers**
Position: 100
Loop: POC Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: Denotes Department as printed on Carton Labels/Tickets, where it can vary by line item.

Example :

REF*DP*1234

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. DP Department Number	**M ID 2/2**
O	**REF02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **SSS** **Special Services**
Position: 120
Loop: POC Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify special conditions or services associated with the purchased product
Syntax Notes:
Semantic Notes:
Comments: **1** SSS02 identifies the source of the code value in SSS03.
2 SSS07 (description) is normally used to clarify or expand on the services to be provided.
Notes: Example :

SSS*N*VI*TC****GENERAL PURPOSE

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**SSS01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified N No Allowance or Charge	**M**	**ID 1/1**
M	**SSS02**	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values VI Voluntary Interindustry Communication Standards (VICS)	**M**	**ID 2/2**
M	**SSS03**	**560**	**Special Services Code** Code identifying the special service TC Ticketing Service	**M**	**ID 2/10**
X	**SSS04**	**561**	**Service Marks and Numbers**	**O**	**AN 1/45**
X	**SSS05**	**359**	**Allowance or Charge Rate**	**O**	**R 1/9**
X	**SSS06**	**360**	**Allowance or Charge Total Amount**	**O**	**N2 1/9**
O	**SSS07**	**352**	**Description** A free-form description to clarify the related data elements and their content Free form description of Ticket Type.	**O**	**AN 1/80**

Segment: **SDQ** **Destination Quantity**
Position: 190
Loop: POC Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 500
Purpose: To specify destination and quantity detail
Syntax Notes:
1 If SDQ05 is present, then SDQ06 is required.
2 If SDQ07 is present, then SDQ08 is required.
3 If SDQ09 is present, then SDQ10 is required.
4 If SDQ11 is present, then SDQ12 is required.
5 If SDQ13 is present, then SDQ14 is required.
6 If SDQ15 is present, then SDQ16 is required.
7 If SDQ17 is present, then SDQ18 is required.
8 If SDQ19 is present, then SDQ20 is required.
9 If SDQ21 is present, then SDQ22 is required.
Semantic Notes:
Comments: **1** SDQ02 is used only if different than previously defined in the transaction set.
Notes: Example :

SDQ*EA*92*001*12*004*10

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**SDQ01**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. EA Each	**M**	**ID 2/2**
O	**SDQ02**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**O**	**ID 1/2**
M	**SDQ03**	**67**	**Identification Code** Code identifying a party. Store Code	**M**	**AN 2/17**
M	**SDQ04**	**380**	**Quantity** Numeric value of quantity Quantity by Store	**M**	**R 1/15**
O	**SDQ05**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ06**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ07**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ08**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ09**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ10**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ11**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ12**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**

O	**SDQ13**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ14**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ15**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ16**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ17**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ18**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ19**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ20**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**
O	**SDQ21**	**67**	**Identification Code** Code identifying a party.	**O**	**AN 2/17**
O	**SDQ22**	**380**	**Quantity** Numeric value of quantity	**X**	**R 1/15**

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If CTT03 is present, then CTT04 is required.
2 If CTT05 is present, then CTT06 is required.
Semantic Notes:
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: Example :

CCT*2

Data Element Summary

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

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

User Attribute	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 N0 1/6**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**

856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

This standard provides the standardized format and establishes the data contents of a ship notice/manifest transaction set. A ship notice/manifest lists 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:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		
			LOOP ID - HL			1	
M	030	HL	Hierarchical Level (Shipment Level)	M	1		
Used	040	NTE	Note/Special Instruction (Shipment Level)	F	100		
Used	060	PO4	Item Physical Details (Shipment Level)	O	1		
Used	110	TD1	Carrier Details (Quantity and Weight) (Shipment Level)	O	20		
Used	120	TD5	Carrier Details (Routing Sequence/Transit Time) (Shipment Level)	O	12		
Used	130	TD3	Carrier Details (Equipment) (Shipment Level)	O	12		
Must Use	150	REF	Reference Numbers (Shipment Level)	O	200		
Used	270	PER	Administrative Communications Contact (Shipment Level)	O	3		
Used	040	DTM	Date/Time/Period (Shipment Level)	O	10		
			LOOP ID - N1			200	
Used	220	N1	Name (Shipment Level)	O	1		

Detail:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	
M	030	HL	Hierarchical Level (Store/ Order Level)	M	1		c1
M	050	PRF	Purchase Order Reference (Store/ Order Level)	M	1		
M	110	TD1	Carrier Details (Quantity and Weight) (Store/ Order Level)	M	20		
M	120	TD5	Carrier Details (Routing Sequence/Transit Time) (Store/ Order Level)	M	12		
Must Use	150	REF	Reference Numbers (Store/ Order Level)	O	200		
			LOOP ID - N1			200	
Used	220	N1	Name (Store/ Order Level)	O	1		
			LOOP ID - HL			200000	
M	030	HL	Hierarchical Level (Carton Level)	M	1		

Used	060	PO4	Item Physical Details (Carton Level)	O	1	
Used	100	PKG	Marking, Packaging, Loading (Carton Level)	O	25	
M	190	MAN	Marks and Numbers (Carton Level)	M	10	
			LOOP ID - HL			200000
M	030	HL	Hierarchical Level (Item Level)	M	1	
M	020	LIN	Item Identification (Item Level)	M	1	
M	030	SN1	Item Detail (Shipment) (Item Level)	M	1	
Used	060	PO4	Item Physical Details (Item Level)	O	1	
Used	080	MEA	Measurements (Item Level)	O	40	
Used	100	PKG	Marking, Packaging, Loading (Item Level)	O	25	
Used	200	DTM	Date/Time/Period (Item Level)	O	10	
Used	320	ITA	Allowance, Charge or Service (Item Level)	O	10	

Summary:

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

Transaction Set Notes

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

Transaction Set Comments

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

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:
Comments: **1** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 856 X12.10 Ship Notice/Manifest	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number 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:
Semantic Notes:
Comments: **1** BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.
Notes: Example:
BSN*00*0090061138*090429*163330

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**BSN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original 07 Duplicate	**M ID 2/2**
M	**BSN02**	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment	**M AN 2/30**
M	**BSN03**	**373**	**ASN Date** Date (YYMMDD)	**M DT 6/6**
M	**BSN04**	**337**	**ASN Time** Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	**M TM 4/6**

Segment: **HL** **Hierarchical Level (Shipment Level)**
Position: 030
Loop: HL Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:
1 The HL segment defines a top-down/left-right ordered structure.
2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: HL*1**S

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
X	**HL02**	**734**	**Hierarchical Parent ID Number**	**O**	**AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure S Shipment	**M**	**ID 1/2**

Segment: **NTE** **Note/Special Instruction (Shipment Level)**
Position: 040
Loop: HL Mandatory
Level: Heading
Usage: Floating
Max Use: 100
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: **1** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Notes: Example:

NTE*DEL*HS01

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
O	**NTE01**	**363**	**Note Reference Code** Code identifying the functional area or purpose for which the note applies DEL Delivery	**O ID 3/3**
M	**NTE02**	**3**	**Free Form Message** Free-form text	**M AN 1/60**

Segment: **PO4** **Item Physical Details (Shipment Level)**
Position: 060
Loop: HL Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
1 If PO402 is present, then PO403 is required.
2 If PO405 is present, then at least one of PO406 or PO407 is required.
3 If PO408 is present, then PO409 is required.
4 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
Semantic Notes:
Comments:
1 PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
2 PO410 defines the unit of measure for PO408, PO409, and PO410.
Notes: This segment contains the volume of the shipment
Example:

PO4********100*CR

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
X	**PO401**	**356**	**Pack**	**O**	**N0 1/6**
X	**PO402**	**357**	**Size**	**O**	**R 1/8**
X	**PO403**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**PO404**	**103**	**Packaging Code**	**O**	**AN 5/5**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**PO405**	**187**	**Weight Qualifier**	**O**	**ID 1/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**PO406**	**384**	**Gross Weight per Pack**	**X**	**R 1/9**
X	**PO407**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
O	**PO408**	**385**	**Gross Volume**	**O**	**R 1/9**
			Numeric value of gross volume per pack		
O	**PO409**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Code identifying the basic unit of measurement. CR Cubic Meter		

Segment: **TD1** **Carrier Details (Quantity and Weight) (Shipment Level)**
Position: 110
Loop: HL Mandatory
Level: Heading
Usage: Optional
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes: **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.
Semantic Notes:
Comments:
Notes: This segment contains total number of packs in the shipment and the weight of shipment

Example:

TD1*CTN25*11****G*56*KG

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name		Attributes	
>>	**TD101**	**103**	**Packaging Code**		**O**	**AN 5/5**
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material			
			BAG	Bag		
			CTN	Carton		
			PLT	Pallet		
			SLP	Slip Sheet		
				Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation		
			01	Aluminum		
			25	Corrugated or Solid		
			31	Fibre		
			76	Paper		
			79	Plastic		
			94	Wood		
>>	**TD102**	**80**	**Number of packages in the shipment or to store**		**X**	**N0 1/7**
			Number of units (pieces) of the lading commodity			
X	**TD103**	**23**	**Commodity Code Qualifier**		**O**	**ID 1/1**
			Refer to 003020 Data Element Dictionary for acceptable code values.			
X	**TD104**	**22**	**Commodity Code**		**X**	**AN 1/16**
X	**TD105**	**79**	**Lading Description**		**O**	**AN 1/50**
O	**TD106**	**187**	**Weight Qualifier**		**O**	**ID 1/2**
			Code defining the type of weight			
			G	Gross Weight		
O	**TD107**	**81**	**Total Weight of the shipment**		**C**	**R 1/8**
			Numeric value of weight			
O	**TD108**	**355**	**Unit or Basis for Measurement Code**		**O**	**ID 2/2**
			Code identifying the basic unit of measurement.			
			KG	Kilogram		

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time) (Shipment Level)**
Position: 120
Loop: HL Mandatory
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:
1 At least one of TD502 TD504 or TD505 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.
Semantic Notes:
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.
Notes: This segment is used for indicating the status of order, applicable to entire order.

Example:

TD5******CC

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
X	**TD501**	**133**	**Routing Sequence Code** Refer to 003020 Data Element Dictionary for acceptable code values.	**O ID 1/2**
X	**TD502**	**66**	**Identification Code Qualifier** Refer to 003020 Data Element Dictionary for acceptable code values.	**X ID 1/2**
X	**TD503**	**67**	**Identification Code**	**X AN 2/17**
X	**TD504**	**91**	**Transportation Method/Type Code** Refer to 003020 Data Element Dictionary for acceptable code values.	**X ID 1/2**
X	**TD505**	**387**	**Routing**	**X AN 1/35**
O	**TD506**	**368**	**Shipment/Order Status Code** Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction CC Shipment Complete on (Date) PR Partial Shipment SS Split Shipment	**O ID 2/2**

Segment: **TD3** **Carrier Details (Equipment) (Shipment Level)**
Position: 130
Loop: HL Mandatory
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes: **1** If TD302 is present, then TD303 is required.
2 If TD304 is present, then both TD305 and TD306 are required.
Semantic Notes:
Comments:
Notes: Example:

TD3*TL*AAAA*EQ48495

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**TD301**	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment TL Trailer (not otherwise specified)	**M**	**ID 2/2**
O	**TD302**	**206**	**Equipment Initial- Alpha part of the trailer number** Prefix or alphabetic part of an equipment unit's identifying number	**O**	**AN 1/4**
O	**TD303**	**207**	**Equipment Number Numeric part of the trailer number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	**X**	**AN 1/10**

Segment: **REF** **Reference Numbers (Shipment Level)**
Position: 150
Loop: HL Mandatory
Level: Heading
Usage: Optional (Must Use)
Max Use: 200
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: This segment is used for Consignment note number

Example:

REF*CN*GZ0000069767

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. CN Carrier's Reference Number (PRO/Invoice) Consignment Note Number	**M ID 2/2**
>>	**REF02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **PER** **Administrative Communications Contact (Shipment Level)**
Position: 270
Loop: HL Mandatory
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1** If either PER03 or PER04 is present, then the other is required.
Semantic Notes:
Comments:
Notes: This segment is used for providing the contact details and it is required only for the shipments containing hazardous material.

Example:

PER*DI*ARTHUR JONES*TE*(614)555-1212

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named DI Delivery Instructions Contact HM Hazardous Material Contact	**M**	**ID 2/2**
O	**PER02**	**93**	**Name** Free-form name	**O**	**AN 1/35**
O	**PER03**	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X**	**ID 2/2**
O	**PER04**	**364**	**Communication Number** Complete communications number including country or area code when applicable	**X**	**AN 7/25**

Segment: **DTM** **Date/Time/Period (Shipment Level)**
Position: 040
Loop: HL Mandatory
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Semantic Notes:
Comments:
Notes: This segment contains the schedule ship date and the schedule delivery date.

The
Example:
DTM*068*090429
DTM*067*090504

The schedule ship date and the schedule delivery dates can not be earlier than the ASN date.

Schedule delivery date can not be earlier than the schedule ship date.

Data Element Summary

User Attribute	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		
			067 Current Schedule Delivery		
			068 Current Schedule Ship		
O	**DTM02**	**373**	**Date**	**X**	**DT 6/6**
			Date (YYMMDD)		
O	**DTM03**	**337**	**Time**	**X**	**TM 4/6**
			Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)		

Segment: **N1** **Name (Shipment Level)**
Position: 220
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.
Notes: This segment is used to communicate the delivery location, which can be Harris Scarfe DC or Store.

Example:

N1*ST**92*2031

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. ST Ship To	**M**	**ID 2/2**
X	**N102**	**93**	**Name**	**X**	**AN 1/35**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party. Harris Scarfe DC or Store code	**X**	**AN 2/17**

Segment: **HL** **Hierarchical Level (Store/ Order Level)**
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:
1 The HL segment defines a top-down/left-right ordered structure.
2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: This HL level is to be repeated for each store in the Shipment.

Example:
HL*2*1*O

Data Element Summary

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

Segment: **PRF** **Purchase Order Reference (Store/ Order Level)**
Position: 050
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes:
Comments:
Notes: This segment contains Harris Scarfe Order number and date.

Example:

PRF*HSPO956397***090407

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**PRF01**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser	**M**	**AN 1/22**
X	**PRF02**	**328**	**Release Number**	**O**	**AN 1/30**
X	**PRF03**	**327**	**Change Order Sequence Number**	**O**	**AN 1/8**
O	**PRF04**	**323**	**Purchase Order Date** Date assigned by the purchaser to Purchase Order	**O**	**DT 6/6**

Segment: **TD1** **Carrier Details (Quantity and Weight) (Store/ Order Level)**
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes: **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.
Semantic Notes:
Comments:
Notes: This segment contains the number of cartons to the store.

Example:
TD1*CTN25*8

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name		Attributes	
>>	**TD101**	**103**	**Packaging Code**		**O**	**AN 5/5**
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material			
			BAG	Bag		
			CTN	Carton		
			PLT	Pallet		
			SLP	Slip Sheet		
				Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation		
			01	Aluminum		
			25	Corrugated or Solid		
			31	Fibre		
			76	Paper		
			79	Plastic		
			94	Wood		
>>	**TD102**	**80**	**Number of packages to the store**		**X**	**N0 1/7**
			Number of units (pieces) of the lading commodity			
X	**TD103**	**23**	**Commodity Code Qualifier**		**O**	**ID 1/1**
			Refer to 003020 Data Element Dictionary for acceptable code values.			
X	**TD104**	**22**	**Commodity Code**		**X**	**AN 1/16**
X	**TD105**	**79**	**Lading Description**		**O**	**AN 1/50**
O	**TD106**	**187**	**Weight Qualifier**		**O**	**ID 1/2**
			Code defining the type of weight			
			G	Gross Weight		
O	**TD107**	**81**	**Total Weight of the shipment**		**X**	**R 1/8**
			Numeric value of weight			
O	**TD108**	**355**	**Unit or Basis for Measurement Code**		**O**	**ID 2/2**
			Code identifying the basic unit of measurement.			
			KG	Kilogram		

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time) (Store/ Order Level)**
Position: 120
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:
1 At least one of TD502 TD504 or TD505 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.
Semantic Notes:
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.
Notes: This segment contains the Status of shipment for the store.

Example:

TD5******CC

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
X	**TD501**	**133**	**Routing Sequence Code**	**O**	**ID 1/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**TD502**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**TD503**	**67**	**Identification Code**	**X**	**AN 2/17**
X	**TD504**	**91**	**Transportation Method/Type Code**	**X**	**ID 1/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**TD505**	**387**	**Routing**	**X**	**AN 1/35**
O	**TD506**	**368**	**Shipment/Order Status Code**	**O**	**ID 2/2**
			Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction		
			CC Shipment Complete on (Date)		
			PR Partial Shipment		
			SS Split Shipment		

Segment: **REF** **Reference Numbers (Store/ Order Level)**
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 200
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: This segment contains the Harris Scarfe assigned Vendor Number and the department raising the purchase order.

Example:

REF*DP*12345678

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. DP Department Number IA Internal Vendor Number	**M ID 2/2**
>>	**REF02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **N1** **Name (Store/ Order Level)**
Position: 220
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
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.
Notes: This Segment contains the Store Id.

Example:

N1*BY**92*2027

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. BY Buying Party (Purchaser)	**M**	**ID 2/2**
X	**N102**	**93**	**Name**	**X**	**AN 1/35**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party. Harris Scarfe Store Number	**X**	**AN 2/17**

Segment: **HL** **Hierarchical Level (Carton Level)**
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:
1 The HL segment defines a top-down/left-right ordered structure.
2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: This HL level is to be repeated for each Carton

Example:
HL*3*2*P

Data Element Summary

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

Segment: **PO4** **Item Physical Details (Carton Level)**
Position: 060
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
1 If PO402 is present, then PO403 is required.
2 If PO405 is present, then at least one of PO406 or PO407 is required.
3 If PO408 is present, then PO409 is required.
4 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
Semantic Notes:
Comments:
1 PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
2 PO410 defines the unit of measure for PO408, PO409, and PO410.
Notes: This Segment contains the volume of the pack.

Example:
PO4********24*CR

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
X	**PO401**	**356**	**Pack**	**O**	**N0 1/6**
X	**PO402**	**357**	**Size**	**O**	**R 1/8**
X	**PO403**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**PO404**	**103**	**Packaging Code**	**O**	**AN 5/5**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**PO405**	**187**	**Weight Qualifier**	**O**	**ID 1/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	**PO406**	**384**	**Gross Weight per Pack**	**X**	**R 1/9**
X	**PO407**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 003020 Data Element Dictionary for acceptable code values.		
O	**PO408**	**385**	**Gross Volume**	**O**	**R 1/9**
			Numeric value of gross volume per pack		
O	**PO409**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Code identifying the basic unit of measurement. CR Cubic Meter		

Segment: **PKG** **Marking, Packaging, Loading (Carton Level)**
Position: 100
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 25
Purpose: To describe marking, packaging, loading, and unloading requirements
Syntax Notes:
1 If PKG04 is present, then PKG03 is required.
2 At least one of PKG04 or PKG05 is required.
Semantic Notes:
Comments:
1 Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
2 If PKG01 = ``F'', then PKG05 is used. If PKG01 = ``S'', then PKG04 is used. If PKG01 = ``X'', then both PKG04 and PKG05 are used.
3 Use PKG03 to indicate the organization that publishes the code list being referred to.
4 PKG04 should be used for industry-specific packaging description codes.
5 Special marking or tagging data can be given in PKG05 (description).

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**PKG01**	**349**	**Item Description Type** Code indicating the format of a description Refer to 003020 Data Element Dictionary for acceptable code values.	**M**	**ID 1/1**
O	**PKG02**	**753**	**Packaging Characteristic Code** Code specifying the marking, packaging, loading and related characteristics being described Refer to 003020 Data Element Dictionary for acceptable code values.	**O**	**ID 1/5**
O	**PKG03**	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values Refer to 003020 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
O	**PKG04**	**754**	**Packaging Description Code** A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product	**X**	**AN 1/7**
O	**PKG05**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**AN 1/80**

Segment: **MAN** **Marks and Numbers (Carton Level)**
Position: 190
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 10
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes:
Semantic Notes:
Comments:
Notes: This segment contains the SSCC for the pack

Example:

MAN*GM*00093131550048821811

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**MAN01**	**88**	**Marks and Numbers Qualifier**	**M ID 1/2**
			Code specifying the application or source of Marks and Numbers (87)	
			GM UCC/EAN-128 Serial Shipping Container Code Format	
M	**MAN02**	**87**	**Marks and Numbers**	**M AN 1/45**
			Marks and numbers used to identify a shipment or parts of a shipment	
			SSCC Number	

Segment: **HL** **Hierarchical Level (Item Level)**
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:
1 The HL segment defines a top-down/left-right ordered structure.
2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: This HL group is to be repeated for each item within the Carton.

Example:
HL*4*3*I

Data Element Summary

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

Segment: **LIN** **Item Identification (Item Level)**
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
1 If LIN04 is present, then LIN05 is required.
2 If LIN06 is present, then LIN07 is required.
3 If LIN08 is present, then LIN09 is required.
4 If LIN10 is present, then LIN11 is required.
5 If LIN12 is present, then LIN13 is required.
6 If LIN14 is present, then LIN15 is required.
7 If LIN16 is present, then LIN17 is required.
8 If LIN18 is present, then LIN19 is required.
9 If LIN20 is present, then LIN21 is required.
10 If LIN22 is present, then LIN23 is required.
11 If LIN24 is present, then LIN25 is required.
12 If LIN26 is present, then LIN27 is required.
13 If LIN28 is present, then LIN29 is required.
14 If LIN30 is present, then LIN31 is required.
Semantic Notes:
Comments:
1 See the Data Dictionary for a complete list of ID's.
2 LIN01 is the line item identification
3 LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.
Notes: This segment contains the EAN/ Bar code for the item packed within the SSCC specified in the MAN segment.

Example:

LIN*00100*EN*9334113847056

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
O	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Harris Scarfe require the original purchase order line number. This information will become mandatory by December 2010.	**O**	**AN 1/11**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) EN European Article Number (EAN) (2-5-5-1)	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service Item bar code	**M**	**AN 1/30**

Segment: **SN1** **Item Detail (Shipment) (Item Level)**
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: **1** If SN105 is present, then SN106 is required.
Semantic Notes:
Comments: **1** SN101 is the ship notice line item identification.
2 SN103 defines the unit of measurement for both SN102 and SN104.
Notes: This segment contains the quantity of the item in the pack.

Example:
SN1**2*EA

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
X	**SN101**	**350**	**Assigned Identification**	**O AN 1/11**
M	**SN102**	**382**	**Number of Units Shipped**	**M R 1/10**
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
			Quantity in the carton.	
M	**SN103**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**
			Code identifying the basic unit of measurement.	
			EA Each	

Segment: **PO4** **Item Physical Details (Item Level)**
Position: 060
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
1 If PO402 is present, then PO403 is required.
2 If PO405 is present, then at least one of PO406 or PO407 is required.
3 If PO408 is present, then PO409 is required.
4 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
Semantic Notes:
Comments:
1 PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
2 PO410 defines the unit of measure for PO408, PO409, and PO410.
Notes: This segment contains the packaging configuration and the weight.

Example:

PO4*24*12*EA***100*KG

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
O	**PO401**	**356**	**Pack** Number of inner pack units per outer pack unit Number of Inner packs per outer pack	**O**	**N0 1/6**
O	**PO402**	**357**	**Size** Size of supplier units in pack Number of units in the inner pack	**O**	**R 1/8**
O	**PO403**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. EA Each	**X**	**ID 2/2**
X	**PO404**	**103**	**Packaging Code** Refer to 003020 Data Element Dictionary for acceptable code values.	**O**	**AN 5/5**
X	**PO405**	**187**	**Weight Qualifier** Refer to 003020 Data Element Dictionary for acceptable code values.	**O**	**ID 1/2**
O	**PO406**	**384**	**Gross Weight per Pack** Numeric value of gross weight per pack	**X**	**R 1/9**
O	**PO407**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. KG Kilogram	**X**	**ID 2/2**

Segment: **MEA** **Measurements (Item Level)**
Position: 080
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements, including dimension tolerances, weights and counts.
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA03 is present, then MEA04 is required.
3 If MEA05 is present, then MEA04 is required.
4 If MEA06 is present, then MEA04 is required.
5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
6 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
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.
Notes: This segment contains the physical dimensions of the pack.

Example:
MEA*PD*LN*1.9*MR

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
O	**MEA01**	**737**	**Measurement Reference ID Code** Code specifying the application of physical measurement cited. PD Physical Dimensions	**O**	**ID 2/2**
O	**MEA02**	**738**	**Measurement Qualifier** Code identifying the type of measurement. DP Depth HT Height LN Length WD Width	**O**	**ID 1/3**
O	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/10**
O	**MEA04**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. MR Meter	**X**	**ID 2/2**

Segment: **PKG** **Marking, Packaging, Loading (Item Level)**
Position: 100
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 25
Purpose: To describe marking, packaging, loading, and unloading requirements
Syntax Notes:
1 If PKG04 is present, then PKG03 is required.
2 At least one of PKG04 or PKG05 is required.
Semantic Notes:
Comments:
1 Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
2 If PKG01 = ``F'', then PKG05 is used. If PKG01 = ``S'', then PKG04 is used. If PKG01 = ``X'', then both PKG04 and PKG05 are used.
3 Use PKG03 to indicate the organization that publishes the code list being referred to.
4 PKG04 should be used for industry-specific packaging description codes.
5 Special marking or tagging data can be given in PKG05 (description).
Notes: This segment is used to notify Harris Scarfe that ticketing is not as originally requested or expected.
Part II of PKG04 describes what, if any, ticket is on the item. This is only for exceptions.

Example:

PKG*S*34*VI*TN03

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**PKG01**	**349**	**Item Description Type** Code indicating the format of a description S Structured (From Industry Code List)	**M ID 1/1**
O	**PKG02**	**753**	**Packaging Characteristic Code** Code specifying the marking, packaging, loading and related characteristics being described 34 Product Marking	**O ID 1/5**
O	**PKG03**	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values VI Voluntary Interindustry Communication Standards (VICS)	**X ID 2/2**
O	**PKG04**	**754**	**Packaging Description Code** A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product The following codes are supported in VICS3020 ... Part I Service type (positions 1&2) TN Ticketing service not as requested Part 2 Ticket format code (positions 3&4) 01 No ticket 02 Hang tag (swiftach) 03 Gummed label 04 Pin ticket 05 String ticket (string around button) 06 Hang tag (securtach) 07 Dumbbell gum (jewellery) 08 Double gummed label (peel off on gummed label) 99 Non standard ticket	**X AN 1/7**

Segment: **DTM** **Date/Time/Period (Item Level)**
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Semantic Notes:
Comments:
Notes: This segment contains the date of expiry or use by Date of the product.

Example:

DTM*036*091201

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 036 Expiration Date coverage expires	**M ID 3/3**
>>	**DTM02**	**373**	**Date** Date (YYMMDD)	**X DT 6/6**

Segment: **ITA** **Allowance, Charge or Service (Item Level)**
Position: 320
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify allowances, charges, or services
Syntax Notes:
1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
2 If ITA08 is present, then ITA09 is required.
3 If ITA10 is present, then ITA11 is required.
Semantic Notes:
Comments:
1 If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2 ITA02 identifies the source of the code value in ITA03 or ITA15.
3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4 ITA12 is the quantity of free goods.
5 ITA13 is used to clarify the allowance, charge, or service.
Notes: This segment contains any additional charge or allowance.

Example:

ITA*A*AX*FG*01*304932049*.0025*360*1*.25*100*EA*100

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**ITA01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified A Allowance C Charge N No Allowance or Charge	**M**	**ID 1/1**
O	**ITA02**	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values AX ANSI Accredited Standards Committee, X12	**O**	**ID 2/2**
O	**ITA03**	**560**	**Special Services Code** Code identifying the special service FG Free Goods TC Ticketing Service	**X**	**ID 2/10**
M	**ITA04**	**331**	**Allowance or Charge Method of Handling Code** Code indicating method of handling for an allowance or charge 01 Bill Back 02 Off Invoice 03 Vendor Check to Customer 04 Credit Customer Account 05 Charge to be Paid by Vendor 06 Charge to be Paid by Customer	**M**	**ID 2/2**
O	**ITA05**	**341**	**Allowance or Charge Number** The number assigned by a vendor referencing an allowance, promotion, deal or charge	**O**	**AN 1/16**
O	**ITA06**	**359**	**Allowance or Charge Rate** Allowance or Charge Rate per Unit Rate per unit	**O**	**R 1/9**

O	**ITA07**	**360**	**Allowance or Charge Total Amount** Total dollar amount for the allowance or charge	**O**	**N2 1/9**
O	**ITA08**	**378**	**Allowance/Charge Percent Qualifier** Code indicating on what basis allowance or charge percent is calculated 1 Item List Cost 2 Item Net Cost 3 Discount/Gross 4 Discount/Net 5 Base Price per Unit 6 Base Price Amount 7 Base Price Amount Less Previous Discount	**O**	**ID 1/1**
O	**ITA09**	**332**	**Allowance or Charge Percent** Allowance or charge expressed as a percent.	**X**	**R 1/6**
O	**ITA10**	**339**	**Allowance or Charge Quantity** Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity	**O**	**R 1/10**
O	**ITA11**	**355**	**Unit or Basis for Measurement Code** Code identifying the basic unit of measurement. EA Each	**X**	**ID 2/2**
O	**ITA12**	**380**	**Quantity** Numeric value of quantity	**O**	**R 1/15**

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If CTT03 is present, then CTT04 is required.
2 If CTT05 is present, then CTT06 is required.
Semantic Notes:
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: Example:

CTT*24

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**CTT01**	**354**	**Number of HL segments** Total number of line items in the transaction set	**M N0 1/6**

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

User Attribute	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 N0 1/6**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**

820 Payment Order/Remittance Advice (RCTI)

Functional Group ID=RA

Introduction:

This standard provides the format and establishes the data contents of a payment order/remittance advice transaction set. The payment order/remittance advice transaction set can be used for three different purposes: (1) to order a financial institution to make payment to payee(s) on behalf of the sending party, (2) to report the completion of a payment to payee(s) by a financial institution, and (3) to give advice to the payee by the payor on the application of a payment made with the payment order or by some other means. This standard is not designed for exception reporting from the financial institution to either party.

Notes:

The Electronic RCTI Summary is basically an EDI Remittance Advice Message (ANSI X12 - 820), that has been modified to meet ATO GST requirements.

The RCTI Summary will be transmitted on a daily basis, detailing the acceptance of each ASN and the amount of GST payable in the same manner as when the Supplier sends a conventional invoice with the Goods.

At this time, if the ASN delivery has been checked and a discrepancy is found, the RCTI will include an adjustment by ASN for net overages or underages.

Heading:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BPS	Beginning Segment for Payment Order/Remittance Advice	M	1		
M	050	REF	Reference Numbers	M	1		
M	060	DTM	Date/Time/Period	M	10		
			LOOP ID - N1			1	
Used	070	N1	Name	O	1		

Detail:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop Repeat	Notes and Comments
M	010	LS	Loop Header	M	1		
			LOOP ID - N1			10000	
M	020	N1	Name	M	1		
			LOOP ID - RMT			10000	
Must Use	025	RMT	Remittance Advice	O	1		
Must Use	028	REF	Reference Numbers	O	3		
Must Use	029	DTM	Date/Time/Period	O	1		
			LOOP ID - RMT			1	
Must Use	030	RMT	Remittance Advice	O	1		

M	070	LE	Loop Trailer	M	1	

Summary:

User Attribute	Pos. No.	Seg. ID	Name	User Attribute	Max.Use	Loop 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:
Comments: **1** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).
Notes: Segment Example :

ST*820*0007~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 820 X12.4 Remittance/Payment Advice	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**

Segment: **BPS** **Beginning Segment for Payment Order/Remittance Advice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To (1) indicate the beginning of a payment order/remittance advice transaction set and total payment and (2) to enable related transfer of funds and/or information from payor to payee to occur while utilizing an automated clearing house (ACH) or other banking network.
Syntax Notes:
Semantic Notes:
Comments:
1 BPS02 is the total currency amount of all items being paid in this transaction.
2 When using this transaction set to initiate a payment, BPS04, BPS05, BPS07, BPS09, BPS10, BPS11, and BPS12 may be required, depending upon the conventions issued by the specific banking channel being used. BPS04 and BPS05 relate to the originating depository financial institute (DFI).
3 BPS06 is the account number of the sending company to be debited or credited with payment.
4 BPS09 and BPS10 relate to the receiving DFI.
5 BPS11 is the account number of the receiving company to be debited or credited with the payment.
6 BPS13 is conditional on the ability of the receiving depository financial institution (RDFI) to furnish the actual settlement date, and shall be left blank (omitted) by the originating company.
Notes: Segment Example :

BPS*ZZZ*100.00*H~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**BPS01**	**591**	**Payment Method Code**	**M**	**ID 3/3**
			Code used to designate the actual funds transfer method.		
			ZZZ Mutually Defined		
			RCTI		
M	**BPS02**	**782**	**Monetary Amount**	**M**	**R 1/15**
			Monetary amount		
			Gross Amount for RCTI		
M	**BPS03**	**305**	**Transaction Handling Code**	**M**	**ID 1/1**
			Code designating the action to be taken by all parties		
			H Notification Only		

Segment: **REF** **Reference Numbers**
Position: 050
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: Segment Example :

REF*TN*3920394930203~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. TN Transaction Reference Number	**M ID 2/2**
O	**REF02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Reference given to this RCTI by the Issuer.	**C AN 1/30**

Segment: **DTM** **Date/Time/Period**
Position: 060
Loop:
Level: Heading
Usage: Mandatory
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Semantic Notes:
Comments:
Notes: Segment Example :

DTM*097*090425~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 097 Transaction Creation	**M**	**ID 3/3**
O	**DTM02**	**373**	**Date** Date (YYMMDD)	**C**	**DT 6/6**

Segment: **N1** **Name**
Position: 070
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.
Notes: Segment Example :

N1*BY*12345678901,RCTI~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. BY Buying Party (Purchaser)	**M**	**ID 2/2**
O	**N102**	**93**	**Name** Free-form name Retailer ABN# followed by ",RCTI"	**C**	**AN 1/35**

Segment: **LS** **Loop Header**
Position: 010
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate that the next segment begins a loop
Syntax Notes:
Semantic Notes:
Comments: **1** LS is a control segment. LS is always used in conjunction with a corresponding loop trailer (end) - LE, as illustrated below. The LS and LE indicate the start and end of a loop but are not part of the iteration of the loop. LOOP NESTING Loop "A" Header (LS "A") Loop "B" Header (LS "B") Loop "C" Header (LS "C") Loop "C" Trailer (LE "C") Loop "D" Header (LS "D") Loop "D" Trailer (LE "D") Loop "B" Trailer (LE "B") Loop "A" Trailer (LE "A") Neither LS nor LE is used if the data within the loop is not used.
Notes: Segment Example :

LS*0001~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**LS01**	**447**	**Loop Identifier Code** Code identifying a loop within the transaction set which is bounded by the related LS and LE segments (corresponding LS and LE segments must have the same value for loop identifier). (Note: The loop ID number given on the transaction set diagram is recommended as the value for this data element in segments LS and LE.) Unique loop reference.	**M ID 1/4**

Segment: **N1** **Name**
Position: 020
Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
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.
Notes: Segment Example :

N1*VN*2468013579,GST PAYABLE BY SUPPLIER*92*43202~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. VN Vendor	**M**	**ID 2/2**
O	**N102**	**93**	**Name** Free-form name Supplier ABN# followed by ",GST PAYABLE BY SUPPLIER"	**C**	**AN 1/35**
O	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**C**	**ID 1/2**
O	**N104**	**67**	**Identification Code** Code identifying a party. Vendor Number in Buyer's system	**C**	**ID 2/17**

Segment: **RMT** **Remittance Advice**
Position: 025
Loop: RMT Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To indicate the detail on items
Syntax Notes:
Semantic Notes:
Comments:
1 Parties using this segment should agree on the content of RMT01 and RMT02 prior to initiating transaction communication.
2 RMT03 may also be used to specify the amount paid when different from the amount invoiced.
3 RMT08 is any amount being deducted from or added to a particular invoice or line item for reasons other than payment discount (e.g., damaged goods, short shipment, tax, penalty or late charge payment).

Notes: RMT segments at this level provide details of individual shipments being reported. See the later instance of RMT for summary information

Segment Exampe :

RMT*TN*3920394930204*0*100.00***0*10.00~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**RMT01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. TN Transaction Reference Number	**M**	**ID 2/2**
M	**RMT02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Shipment Reference Number.	**M**	**AN 1/30**
X	**RMT03**	**782**	**Monetary Amount**	**O**	**R 1/15**
O	**RMT04**	**777**	**Total Invoice Amount** Amount of Invoice (including charges, less allowances) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items. Shipment Gross Amount	**O**	**R 1/15**
X	**RMT05**	**778**	**Amount Subject to Terms Discount**	**O**	**R 1/15**
X	**RMT06**	**779**	**Discounted Amount Due**	**O**	**R 1/15**
X	**RMT07**	**780**	**Amount of Discount Taken**	**O**	**R 1/15**
O	**RMT08**	**782**	**Monetary Amount** Monetary amount Shipment GST Amount	**O**	**R 1/15**

Segment: **REF** **Reference Numbers**
Position: 028
Loop: RMT Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 3
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes: Segment Examples :

REF*DD*ORIGINAL ASN~
REF*DD*OVR ADJUST~
REF*DD*UND ADJUST~
REF*DR*12345678~
REF*PO*PO98765432~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. DD Document Identification Code DR Dock Receipt Number PO Purchase Order Number	**M ID 2/2**
O	**REF02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. ByTransaction Type, this element contains: DD: "ORIGINAL ASN" or "OVR ADJUST" or "UND ADJUST" DR: Receipt Number PO: Purchase Order Number.	**C AN 1/30**

Segment: **DTM** **Date/Time/Period**
Position: 029
Loop: RMT Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Semantic Notes:
Comments:
Notes: Segment Example :

DTM*050*090415~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 050 Received Date received at receiving location.	**M ID 3/3**
O	**DTM02**	**373**	**Date** Date (YYMMDD)	**C DT 6/6**

Segment: **RMT** **Remittance Advice**
Position: 030
Loop: RMT Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To indicate the detail on items
Syntax Notes:
Semantic Notes:
Comments:
1 Parties using this segment should agree on the content of RMT01 and RMT02 prior to initiating transaction communication.
2 RMT03 may also be used to specify the amount paid when different from the amount invoiced.
3 RMT08 is any amount being deducted from or added to a particular invoice or line item for reasons other than payment discount (e.g., damaged goods, short shipment, tax, penalty or late charge payment).

Notes: This instance of RMT is to summarise the prior detail instances. It provides total values for the whole RCTI transaction.

This extra segment is added to meet ATO requirements.

Segment Example :

RMT*ZZ*3920394930203*0*300.00****50.00~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**RMT01**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. ZZ Mutually Defined	**M**	**ID 2/2**
M	**RMT02**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. RCTI reference number	**M**	**AN 1/30**
X	**RMT03**	**782**	**Monetary Amount**	**O**	**R 1/15**
O	**RMT04**	**777**	**Total Invoice Amount** Amount of Invoice (including charges, less allowances) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items. Summary Gross Amount	**O**	**R 1/15**
X	**RMT05**	**778**	**Amount Subject to Terms Discount**	**O**	**R 1/15**
X	**RMT06**	**779**	**Discounted Amount Due**	**O**	**R 1/15**
X	**RMT07**	**780**	**Amount of Discount Taken**	**O**	**R 1/15**
O	**RMT08**	**782**	**Monetary Amount** Monetary amount Summary GST Amount.	**O**	**R 1/15**

Segment: **LE** **Loop Trailer**
Position: 070
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate that the loop immediately preceding this segment is complete
Syntax Notes:
Semantic Notes:
Comments: **1** LE is a control segment. LE is always used in conjunction with a corresponding loop header (start) - LS, as illustrated below. The LS and LE indicate the start and end of a loop but are not part of the iteration of the loop. LOOP NESTING Loop "A" Header (LS "A") Loop "B" Header (LS "B") Loop "C" Header (LS "C") Loop "C" Trailer (LE "C") Loop "D" Header (LS "D") Loop "D" Trailer (LE "D") Loop "B" Trailer (LE "B") Loop "A" Trailer (LE "A") Neither LS nor LE is used if the data within the loop is not used.
Notes: Segment Example :

LE*0001~

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**LE01**	**447**	**Loop Identifier Code** Code identifying a loop within the transaction set which is bounded by the related LS and LE segments (corresponding LS and LE segments must have the same value for loop identifier). (Note: The loop ID number given on the transaction set diagram is recommended as the value for this data element in segments LS and LE.)	**M ID 1/4**

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:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: Segment Example :

SE*24*0007~

Data Element Summary

User Attribute	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 N0 1/6**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M AN 4/9**