

# **HD Supply**

# **810 INVOICE**

**X12 / V 4060**

**Author: HD Supply**  
**Modified: 09/29/2008**

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**810****Invoice****Functional Group=IN**

**Purpose:** This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

**Not Defined:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

**Heading:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
040	CUR	Currency	M	1			Used
050	REF	Reference Identification	M	12		N1/050	Must use
050	REF	Reference Identification	M	12		N1/050	Must use
050	REF	Reference Identification	O	12		N1/050	Must use

**LOOP ID - N1****200**

070	N1	Name	M	1			Must use
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used

**LOOP ID - N1****200**

070	N1	Name	O	1			Must use
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used

**LOOP ID - N1****200**

070	N1	Name	O	1			Must use
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used

**LOOP ID - N1****200**

070	N1	Name	O	1			Must use
110	REF	Reference Identification	O	12			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	M	>1			Must use
140	DTM	Date/Time Reference	M	10			Must use

**Detail:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - IT1</b>					<b>200000</b>		
010	IT1	Baseline Item Data (Invoice)	M	1			Must use
<b>LOOP ID - PID</b>					<b>1000</b>		
060	PID	Product/Item Description	M	1			Must use
100	PO4	Item Physical Details	O	1			Used
160	CAD	Carrier Detail	O	>1			Used

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Must use
<b>LOOP ID - SAC</b>					<b>25</b>		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Must use
<b>LOOP ID - ISS</b>					<b>&gt;1</b>		
060	ISS	Invoice Shipment Summary	O	1			Must use
070	CTT	Transaction Totals	M	1		N3/070	Must use
080	SE	Transaction Set Trailer	M	1			Must use

**Not Defined:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

**Notes:**

- 1/050 The HD Supply Requirements:  
The REF\*VR is a required segment for HD Supply Invoice Mapping. Invoices received without this segment will not be able to be processed and paid.
- 1/050 The HD Supply Requirements:  
The REF\*MR is a required segment for HD Supply Invoice Mapping. Invoices received without this segment will not be able to be processed and paid.
- 1/050 The HD Supply Requirements:  
The REF\*GT segment is mandatory for HD Supply's Canadian Invoices when mapping GST Taxes. Not mapping this segment may result in the GST Tax not being paid.
- 3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

# ISA Interchange Control Header

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

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	<b>Authorization Information Qualifier</b>	M	ID	2/2	Must use

**Description:** Code identifying the type of information in the Authorization Information

<u>Code</u>	<u>Name</u>
00	No Authorization Information Present (No Meaningful Information in I02)

ISA02	I02	<b>Authorization Information</b>	M	AN	10/10	Must use
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**Description:** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)

ISA03	I03	<b>Security Information Qualifier</b>	M	ID	2/2	Must use
-------	-----	---------------------------------------	---	----	-----	----------

**Description:** Code identifying the type of information in the Security Information

<u>Code</u>	<u>Name</u>
00	No Security Information Present (No Meaningful Information in I04)

ISA04	I04	<b>Security Information</b>	M	AN	10/10	Must use
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**Description:** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

ISA05	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
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**Description:** Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

ISA06	I06	<b>Interchange Sender ID</b>	M	AN	15/15	Must use
-------	-----	------------------------------	---	----	-------	----------

**Description:** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element

ISA07	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
-------	-----	---------------------------------	---	----	-----	----------

**Description:** Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

<u>Code</u>	<u>Name</u>
01	Duns (Dun & Bradstreet)

ISA08	I07	<b>Interchange Receiver ID</b>	M	AN	15/15	Must use
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**Description:** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them

ISA09	I08	<b>Interchange Date</b>	M	DT	6/6	Must use
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**Description:** Date of the interchange

ISA10	I09	<b>Interchange Time</b>	M	TM	4/4	Must use
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**Description:** Time of the interchange

ISA11 I65 **Repetition Separator** M 1/1 Must use

**Description:** Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator.

**CODE NAME**

@ At  
 ] Bracket  
 ^ Carrot  
 : Colon  
 | Pipe

**The HD Supply Requirements:**

*This separator can be any non-alpha-numeric character that is also not used as an element separator, segment terminator or elsewhere in the data. If you need you Repetition Separator added to the list to complete testing, please email HD Supply at [FacMaint.edi@hdsupply.com](mailto:FacMaint.edi@hdsupply.com)*

ISA12 I11 **Interchange Control Version Number** M ID 5/5 Must use

**Description:** Code specifying the version number of the interchange control segments

<u>Code</u>	<u>Name</u>
00406	Standards Approved for Publication by ASC X12 Procedures Review Board through October 2002

ISA13 I12 **Interchange Control Number** M N0 9/9 Must use

**Description:** A control number assigned by the interchange sender

ISA14 I13 **Acknowledgment Requested** M ID 1/1 Must use

**Description:** Code indicating sender's request for an interchange acknowledgment

<u>Code</u>	<u>Name</u>
0	No Interchange Acknowledgment Requested

ISA15 I14 **Interchange Usage Indicator** M ID 1/1 Must use

**Description:** Code indicating whether data enclosed by this interchange envelope is test, production or information

<u>Code</u>	<u>Name</u>
P	Production Data

ISA16 I15 **Component Element Separator** M 1/1 Must use

**Description:** Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

# GS Functional Group Header

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

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	<b>Functional Identifier Code</b>	M	ID	2/2	Must use
<b>Description:</b> Code identifying a group of application related transaction sets						
		<u>Code</u>	<u>Name</u>			
		IN	Invoice Information (810,819)			
GS02	142	<b>Application Sender's Code</b>	M	AN	2/15	Must use
<b>Description:</b> Code identifying party sending transmission; codes agreed to by trading partners						
GS03	124	<b>Application Receiver's Code</b>	M	AN	2/15	Must use
<b>Description:</b> Code identifying party receiving transmission; codes agreed to by trading partners						
GS04	373	<b>Date</b>	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD						
GS05	337	<b>Time</b>	M	TM	4/8	Must use
<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
GS06	28	<b>Group Control Number</b>	M	N0	1/9	Must use
<b>Description:</b> Assigned number originated and maintained by the sender						
GS07	455	<b>Responsible Agency Code</b>	M	ID	1/2	Must use
<b>Description:</b> Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480						
		<u>Code</u>	<u>Name</u>			
		X	Accredited Standards Committee X12			
GS08	480	<b>Version / Release / Industry Identifier Code</b>	M	AN	1/12	Must use
<b>Description:</b> Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed						
		<u>Code</u>	<u>Name</u>			
		004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997			

## Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the

associated functional group trailer, GE02.

**Comments:**

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



# ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

**Description:** Code uniquely identifying a Transaction Set

<u>Code</u>	<u>Name</u>
810	Invoice

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

## Semantics:

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

# BIG Beginning Segment for Invoice

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

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	<b>Date</b>	M	DT	8/8	Must use
		<b>Description:</b> Date expressed as CCYYMMDD				
BIG02	76	<b>Invoice Number</b>	M	AN	1/22	Must use
		<b>Description:</b> Identifying number assigned by issuer				
BIG03	373	<b>Date</b>	M	DT	8/8	Must use
		<b>Description:</b> Date expressed as CCYYMMDD				
BIG04	324	<b>Purchase Order Number</b>	M	AN	1/22	Must use
		<b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser				

## Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.

# CUR Currency

Pos: 040	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use

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

<u>Code</u>	<u>Name</u>
SE	Selling Party

CUR02	100	<b>Currency Code</b>	M	ID	3/3	Must use
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**Description:** Code (Standard ISO) for country in whose currency the charges are specified

## Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

# REF Reference Identification

Pos: 050                      Max: 12  
 Heading - Mandatory  
 Loop: N/A                    Elements: 2

**User Option (Usage):** Must use  
**Purpose:** To specify identifying information

## Element Summary:

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

**Description:** Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
VR	Vendor ID Number (Max. 9 char) <b>Description:</b> <i>The HD Supply Requirements: The REF*VR is a required segment for HD Supply Invoice Mapping. Invoices received without this segment will not be able to be processed and paid.</i>

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

## Syntax Rules:

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

## User Note 1:

*The HD Supply Requirements:  
 The REF\*VR is a required segment for HD Supply Invoice Mapping. Invoices received without this segment will not be able to be processed and paid.*

# REF Reference Identification

Pos: 050	Max: 12
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use  
**Purpose:** To specify identifying information

## Element Summary:

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

**Description:** Code qualifying the Reference Identification

**Code**

MR

**Name**

Merchandise Type Code (Max. 10 char.)

**Description:** *The HD Supply Requirements: The REF\*MR is a required segment for HD SupplyInvoice Mapping. Invoices received without this segment will not be able to be processed and paid.*

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

## Syntax Rules:

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

## User Note 1:

*The HD Supply Requirements:*

*The REF\*MR is a required segment for HD Supply Invoice Mapping. Invoices received without this segment will not be able to be processed and paid.*

# REF Reference Identification

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use  
**Purpose:** To specify identifying information

## Element Summary:

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

**Description:** Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
CN	Carrier's Reference Number (PRO/Invoice) (max 22 char.)
DP	Department Number (Max. 9 char.)
GT	Goods and Service Tax Registration Number
IL	Internal Order Number (Max 30 char.)

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

The HD Supply Requirements: The REF\*GT segment is mandatory for HD Supply's Canadian Invoices when mapping GST Taxes. Not mapping this segment may result in the GST Tax not being paid.

## Syntax Rules:

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

## User Note 1:

*The HD Supply Requirements:  
 The REF\*GT segment is mandatory for HD Supply's Canadian Invoices when mapping GST Taxes. Not mapping this segment may result in the GST Tax not being paid.*

# Loop Name

Pos: 070	Repeat: 200
Mandatory	
Loop: N1	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
070	N1	Name	M	1		Must use
090	N3	Address Information	O	2		Used
100	N4	Geographic Location	O	1		Used

## User Note 1:

*The HD Supply Requirements:*

*The N1\*OB loop is required to be mapped with a valid 4 digit store number in the N104 element for the invoice to be processed and paid.*

# N1

# Name

<b>Pos: 070</b>	<b>Max: 1</b>
<b>Heading - Mandatory</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual						
		<u>Code</u>	<u>Name</u>			
		OB	Ordered By			
N102	93	<b>Name</b>	X	AN	1/35	Must use
<b>Description:</b> Free-form name						
N103	66	<b>Identification Code Qualifier</b>	M	ID	1/2	Must use
<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)						
		<u>Code</u>	<u>Name</u>			
		92	Assigned by Buyer or Buyer's Agent			
N104	67	<b>Identification Code</b>	M	AN	2/80	Must use
<b>Description:</b> Code identifying a party or other code						

## Syntax Rules:

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

## Comments:

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

## User Note 1:

*The HD Supply Requirements:*

*The N1\*OB loop is required to be mapped with a valid 4 digit store number in the N104 element for the invoice to be processed and paid. When received in NE orders this segment is meant to be read as the SHIP-TO.*



# N3 Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	<b>Address Information</b>	O	AN	1/35	Used
		<b>Description:</b> Address information				
N302	166	<b>Address Information</b>	O	AN	1/35	Used
		<b>Description:</b> Address information				

# N4 Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b>	O	AN	2/20	Used
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/9	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the country				

## Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

## Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

# Loop Name

Pos: 070	Repeat: 200
Optional	
Loop: N1	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
070	N1	Name	O	1		Must use
090	N3	Address Information	O	2		Used
100	N4	Geographic Location	O	1		Used

**N1**

**Name**

<b>Pos: 070</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual						
		<u>Code</u>		<u>Name</u>		
		SH		Shipper		
N102	93	<b>Name</b>	X	AN	1/35	Must use
<b>Description:</b> Free-form name						

**Syntax Rules:**

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

**Comments:**

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

# N3 Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	<b>Address Information</b>	M	AN	1/35	Must use
		<b>Description:</b> Address information				
N302	166	<b>Address Information</b>	O	AN	1/35	Used
		<b>Description:</b> Address information				

# N4 Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b>	O	AN	2/20	Used
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/9	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the country				

## Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

## Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

# Loop Name

Pos: 070	Repeat: 200
	Optional
Loop: N1	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
070	N1	Name	O	1		Must use
090	N3	Address Information	O	2		Used
100	N4	Geographic Location	O	1		Used

### User Note 1:

*The HD Supply Requirements:  
For Special Order Invoices, the N1\*ST loop should also be mapped.*

# N1 Name

<b>Pos: 070</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual						
		<u>Code</u>		<u>Name</u>		
		ST		Ship To		
N102	93	<b>Name</b>	X	AN	1/35	Must use
<b>Description:</b> Free-form name						

## Syntax Rules:

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

## Comments:

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

## User Note 1:

*The HD Supply Requirements:  
For Special Order Invoices, the N1\*ST loop should also be mapped.*



# N3 Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	<b>Address Information</b>	M	AN	1/35	Must use
		<b>Description:</b> Address information				
N302	166	<b>Address Information</b>	O	AN	1/35	Used
		<b>Description:</b> Address information				

# N4 Geographic Location

<b>Pos: 100</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b>	O	AN	2/20	Used
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/9	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the country				

## Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

## Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

# Loop Name

Pos: 070	Repeat: 200
	Optional
Loop: N1	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
070	N1	Name	O	1		Must use
110	REF	Reference Identification	O	12		Used

## User Note 1:

*The HD Supply Requirements:*

*The N1\*CA loop should only be mapped when shipment is made via small package carrier such as UPS and FedEx.*

# N1 Name

<b>Pos: 070</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual						
		<u>Code</u>		<u>Name</u>		
		CA		Carrier		
N102	93	<b>Name</b>	X	AN	1/35	Must use
<b>Description:</b> Free-form name						

## Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.

## Comments:

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

## User Note 1:

*The HD Supply Requirements:*

*The N1\*CA loop should only be mapped when shipment is made via small package carrier such as UPS and FedEx.*

# REF Reference Identification

Pos: 110	Max: 12
Heading - Optional	
Loop: N1	Elements: 2

**User Option (Usage):** Used  
**Purpose:** To specify identifying information

## Element Summary:

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

**Description:** Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
ZH	Carrier Assigned Reference Number (Max 18 char.)

REF02	127	Reference Identification	X	AN	1/18	Used
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**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

**User Note 1:** *The HD Supply Requirements: This element should contain the UPS or FedEx Tracking number. Repeat this segment if more than 1 Tracking number exists.*

**User Note 2:** If there are more than 12 REF ZH segments (the max in a single N1 loop), that the N1 CA loop should be repeated as necessary to fulfill the required number of tracking numbers.

## Syntax Rules:

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

# ITD Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Mandatory	
Loop: N/A	Elements: 5

**User Option (Usage):** Must use  
**Purpose:** To specify terms of sale

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	<b>Terms Type Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code identifying type of payment terms				
		<u>Code</u>		<u>Name</u>		
		01		Basic		
		05		Discount Not Applicable		
ITD02	333	<b>Terms Basis Date Code</b>	M	ID	1/2	Must use
		<b>Description:</b> Code identifying the beginning of the terms period				
		<u>Code</u>		<u>Name</u>		
		2		Delivery Date		
ITD03	338	<b>Terms Discount Percent</b>	O	R	1/6	Used
		<b>Description:</b> Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date				
ITD05	351	<b>Terms Discount Days Due</b>	M	N0	1/3	Must use
		<b>Description:</b> Number of days in the terms discount period by which payment is due if terms discount is earned				
ITD07	386	<b>Terms Net Days</b>	M	N0	1/3	Must use
		<b>Description:</b> Number of days until total invoice amount is due (discount not applicable)				

**Syntax Rules:**

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.

**Comments:**

1. If the code in ITD01 is "05", then ITD06 or ITD07 is required.

# DTM Date/Time Reference

Pos: 140	Max: 10
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
		<b>Description:</b> Code specifying type of date or time, or both date and time				
		<u>Code</u>		<u>Name</u>		
		011		Shipped		
DTM02	373	Date	X	DT	8/8	Must use
		<b>Description:</b> Date expressed as CCYYMMDD				

# Loop Baseline Item Data (Invoice)

Pos: 010	Repeat: 200000
Mandatory	
Loop: IT1	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	IT1	Baseline Item Data (Invoice)	M	1		Must use
060		Loop PID	M		1000	Must use
100	PO4	Item Physical Details	O	1		Used
160	CAD	Carrier Detail	O	>1		Used



# IT1

## Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Mandatory	
Loop: IT1	Elements: 10

**User Option (Usage):** Must use

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

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT101	350	<b>Assigned Identification</b>	O	AN	1/20	Must use
		<b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set				
IT102	358	<b>Quantity Invoiced</b>	X	R	1/10	Must use
		<b>Description:</b> Number of units invoiced (supplier units)				
IT103	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Must use
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<u>Code</u>		<u>Name</u>		
		EA		Each		
IT104	212	<b>Unit Price</b>	X	R	1/17	Must use
		<b>Description:</b> Price per unit of product, service, commodity, etc.				
IT106	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Must use
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code</u>		<u>Name</u>		
		VP		Vendor's (Seller's) Part Number		
IT107	234	<b>Product/Service ID</b>	X	AN	1/40	Must use
		<b>Description:</b> Identifying number for a product or service				
IT108	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Must use
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code</u>		<u>Name</u>		
		SK		Stock Keeping Unit (SKU)		
IT109	234	<b>Product/Service ID</b>	X	AN	1/40	Must use
		<b>Description:</b> Identifying number for a product or service				

### Semantics:

1. IT101 is the purchase order line item identification.

### Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

# Loop Product/Item Description

Pos: 060	Repeat: 1000
Mandatory	
Loop: PID	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
060	PID	Product/Item Description	M	1		Must use

# PID Product/Item Description

Pos: 060	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 2

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use

**Description:** Code indicating the format of a description

<u>Code</u>	<u>Name</u>
F	Free-form

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

## Comments:

1. If PID01 equals "F", then PID05 is used.

# PO4 Item Physical Details

<b>Pos: 100</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: IT1</b>	<b>Elements: 3</b>

**User Option (Usage):** Used

**Purpose:** To specify the physical qualities, packaging, weights, and dimensions relating to the item

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	<b>Pack</b>	M	N0	1/6	Must use
		<b>Description:</b> The number of inner containers, or number of eaches if there are no inner containers, per outer container				
PO402	357	<b>Size</b>	X	R	1/8	Used
		<b>Description:</b> Size of supplier units in pack				
PO403	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

## Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.

## Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".

# CAD Carrier Detail

Pos: 160                      Max: >1  
 Detail - Optional  
 Loop: IT1                    Elements: 5

**User Option (Usage):** Used

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CAD01	91	<b>Transportation Method/Type Code</b>	M	ID	1/2	Must Use
		<b>Description:</b> Code specifying the method or type of transportation for the shipment				
CAD03	207	<b>Equipment Number</b>	O	AN	1/10	Used
		<b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
CAD04	140	<b>Standard Carrier Alpha Code</b>	M	ID	2/4	Must Use
		<b>Description:</b> Standard Carrier Alpha Code				
CAD06	368	<b>Shipment/Order Status Code</b>	X	ID	2/2	Used
		<b>Description:</b> 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				
CAD08	127	<b>Reference Identification</b>	X	AN	1/30	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

# TDS Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount	M	N2	1/15	Must use

**Description:** Monetary amount

## Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

# Loop Service, Promotion, Allowance, or Charge Information

Pos: 040	Repeat: 25
Optional	
Loop: SAC	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Must use

# SAC Service, Promotion, Allowance, or Charge Information

Pos: 040                      Max: 1  
 Summary - Optional  
 Loop: SAC                  Elements: 5

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	<b>Allowance or Charge Indicator</b>	M	ID	1/1	Must use

**Description:** Code which indicates an allowance or charge for the service specified

<u>Code</u>	<u>Name</u>
A	Allowance
C	Charge

SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b>	X	ID	4/4	Must use
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**Description:** Code identifying the service, promotion, allowance, or charge

<u>Code</u>	<u>Name</u>
A010	Absolute Minimum Charge
A260	Advertising Allowance
A410	"Alterations"
A800	Call Tag
B010	Cents Off
B220	Coating (Dip, Rustproof, EDP)
B320	Competitive Allowance
B720	Cooperative Advertising/Merchandising Allowance (Performance)
B940	Cutting Charge
C000	Defective Allowance
C040	Delivery
C080	Demurrage
C480	Drum Cost
C610	Enclosure
C680	Environmental Protection Service
C870	Expediting Fee
D080	Floor Stock Protection
D200	Freight Charges to Destination
D240	Freight
D360	Goods and Services Tax Charge
D500	Handling
D900	Installation
E180	Labor (Repair and Return Orders)
E640	Mileage Fee (For Repair and Return)
E750	New Store Discount
F155	Packaging
F180	Pallet
F210	Parish/County Sales Tax (only)
F240	Per Item Charge
F800	Promotional Allowance
F810	Promotional Discount



- F910 Quantity Discount
- G090 Recovery Fee
- G100 Recovery
- G760 Set-up
- H000 Special Allowance
- H030 Special Credit
- H070 Special Finish Charge
- H110 Special Packaging
- H400 Stopcharge
- H630 Tax - City Sales Tax (Only)
- H680 Tax - Governmental
- H700 Tax - Local Tax
- H720 Tax - Regulatory Tax
- H750 Tax - Sales Tax (State and Local)
- H770 Tax - State Tax
- H790 Tax - Use Tax
- I170 Trade Discount
- I310 Truckload Discount
- I530 Volume Discount
- I590 Warranties

SAC05 610 **Amount** O N2 1/15 Must use

**Description:** Monetary amount

SAC12 331 **Allowance or Charge Method of Handling Code** O ID 2/2 Must use

**Description:** Code indicating method of handling for an allowance or charge

<u>Code</u>	<u>Name</u>
02	Off Invoice

SAC15 352 **Description** X AN 1/80 Must use

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

**Syntax Rules:**

1. R0203 - At least one of SAC02 or SAC03 is required.

**Semantics:**

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.

# Loop Invoice Shipment Summary

Pos: 060	Repeat: >1
Optional	
Loop: ISS	Elements: N/A

**User Option (Usage):** Must use

**Purpose:** To specify summary details of total items shipped in terms of quantity, weight, and volume

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
060	ISS	Invoice Shipment Summary	O	1		Must use

# ISS

# Invoice Shipment Summary

Pos: 060	Max: 1
Summary - Optional	
Loop: ISS	Elements: 4

**User Option (Usage):** Must use

**Purpose:** To specify summary details of total items shipped in terms of quantity, weight, and volume

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISS01	382	<b>Number of Units Shipped</b>	M	R	1/10	Must use
<b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set						
ISS02	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Must use
<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
		<u>Code</u>	<u>Name</u>			
		EA	Each			
ISS03	81	<b>Weight</b>	X	R	1/10	Must use
<b>Description:</b> Numeric value of weight						
ISS04	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Must use
<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
		<u>Code</u>	<u>Name</u>			
		LB	Pound			

### Syntax Rules:

1. R010305 - At least one of ISS01, ISS03 or ISS05 is required.
2. P0102 - If either ISS01 or ISS02 is present, then the other is required.
3. P0304 - If either ISS03 or ISS04 is present, then the other is required.

# CTT Transaction Totals

Pos: 070                      Max: 1  
 Summary - Mandatory  
 Loop: N/A                  Elements: 2

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	<b>Number of Line Items</b>	M	N0	1/6	Must use
		<b>Description:</b> Total number of line items in the transaction set				
CTT02	347	<b>Hash Total</b>	M	R	1/10	Must use

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

## Comments:

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

# SE Transaction Set Trailer

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b>	M	NO	1/10	Must use
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments				
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

## Comments:

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

# GE Functional Group Trailer

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

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	<b>Number of Transaction Sets Included</b>	M	N0	1/6	Must use
<b>Description:</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element						
GE02	28	<b>Group Control Number</b>	M	N0	1/9	Must use
<b>Description:</b> Assigned number originated and maintained by the sender						

## Semantics:

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

## Comments:

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

# IEA Interchange Control Trailer

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

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	<b>Number of Included Functional Groups</b>	M	N0	1/5	Must use
		<b>Description:</b> A count of the number of functional groups included in an interchange				
IEA02	I12	<b>Interchange Control Number</b>	M	N0	9/9	Must use
		<b>Description:</b> A control number assigned by the interchange sender				