

856 Ship Notice/Manifest

X12/V4010/856: 856 Ship Notice/Manifest

Version: 2.01 Final

Publication:	January 18, 2010
Trading Partner:	iTradeNetwork -dc
Notes:	Multiple COOL locations included on LIN from Sept 16, 2005 version.

856 Ship Notice/Manifest

Functional Group=SH

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

Heading:

<u>Pos</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	BSN	Beginning Segment for Ship Notice	M	1			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>
LOOP ID - HL					<u>1</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	M	1		C2/010	Must use
110	TD1	Carrier Details (Quantity and Weight)	O	2			Recommended
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Not used
130	TD3	Carrier Details (Equipment)	O	2			Used
150	REF	Reference Identification	O	1			Used
200	DTM	Date/Time Reference	O	5			Must use
LOOP ID - N1					<u>6</u>		
220	N1	Name	M	1			Must use
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	O	1			Used
270	PER	Administrative Communications Contact	O	3			Not used
LOOP ID - HL					<u>200000</u>		
010	HL	Hierarchical Level	M	1			Used
050	PRF	Purchase Order Reference	M	1			Must use
150	REF	Reference Identification	M	5			Must use
LOOP ID - N1					<u>3</u>		
220	N1	Name	M	1			Recommended
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	O	1			Used
LOOP ID - HL					<u>200000</u>		
010	HL	Hierarchical Level	M	1			Must use

<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>
110	TD1	Carrier Details (Quantity and Weight)	O	2			Must use
190	MAN	Marks and Numbers	M	>1			Must use
215	PAL	Pallet Information	M	1			Must use
LOOP ID - HL					200000		
010	HL	Hierarchical Level	M	1			Must use
020	LIN	Item Identification	M	1			Must use
030	SN1	Item Detail (Shipment)	O	1			Must use
070	PID	Product/Item Description	O	200			Not used
080	MEA	Measurements	O	40			Used
190	MAN	Marks and Numbers	O	>1			Used
LOOP ID - HL					200000		
010	HL	Hierarchical Level	O	1			Used
040	SLN	Subline Item Detail	O	1000			Used
200	DTM	Date/Time Reference	O	2			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	CTT	Transaction Totals	O	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use

Notes:

3/010 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.

Change History:

Original Inbound 856 2.0 published 2003

January 18, 2010

- Change Notes Added

- Sysco min/max note added to BSN02

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

BSN Beginning Segment for Ship Notice

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

User Option (Usage): Must use

Purpose: To transmit identifying numbers, dates, and other basic data relating to 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>
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set				
		Code Name				
		00 Original				
BSN02	396	Shipment Identification	M	AN	2/30	Must use
		Description: A unique control number assigned by the original shipper to identify a specific shipment				
		iTN User Note 1: Pickup Number				
		<i>Sysco min/max field length is 2/12. For Sysco shipments, please adhere to these constraints.</i>				
BSN03	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
BSN04	337	Time	M	TM	4/8	Must use
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data 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>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Not used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure Code Name S Shipment	M	ID	1/2	Must use

iTN User Note 1:

Shipment Level

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 2
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Recommended

Purpose: To specify the transportation details relative to commodity, weight, and quantity

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>
TD101	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required All valid standard codes are used.	O	AN	3/5	Recommended
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity	X	N0	1/7	Used
TD106	187	Weight Qualifier Description: Code defining the type of weight iTN User Note 1: TD1 repeats 2 times if both Gross and Net weights are included	O	ID	1/2	Dependent
		Code Name G Gross Weight N Actual Net Weight				
TD107	81	Weight Description: Numeric value of weight	X	R	1/10	Recommended
TD108	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID	2/2	Dependent
		Code Name KG Kilogram LB Pound				

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Not used

Purpose: To specify the carrier and sequence of routing and provide transit time 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>
TD504	91	Transportation Method/Type Code	X	ID	1/2	Used

Description: Code specifying the method or type of transportation for the shipment

Code Name

- H Customer Pickup
- M Motor (Common Carrier)
- R Rail
- T Best Way (Shippers Option)
- AF Air Freight
- CE Customer Pickup / Customer's Expense
- LT Less Than Trailer Load (LTL)
- SR Supplier Truck
- ST Stack Train
- VE Vessel, Ocean

TD3 Carrier Details (Equipment)

Pos: 130	Max: 2
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

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

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>
TD302	206	Equipment Initial	O	AN	1/4	Used
		Description: Prefix or alphabetic part of an equipment unit's identifying number				
		iTN User Note 1: <i>Container prefix</i>				
TD303	207	Equipment Number	X	AN	1/10	Used
		Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
		iTN User Note 1: <i>Container ID</i>				
TD308	407	Seal Status Code	O	ID	2/2	Used
		Description: Code indicating condition of door seal upon arrival				
		Code		Name		
		01		Intact		
		04		Replaced		
TD309	225	Seal Number	O	AN	2/15	Used
		Description: Unique number on seal used to close a shipment				

iTN User Note 1:

For original seal numbers, one iteration of the TD3 segment should be transmitted where TD308='01' (Intact).

For replacement seal numbers, two iterations of the TD3 segment should be transmitted. The first TD308='01' (Intact) should be transmitted indicating the existing seal number. The second TD308='04' (Replaced) should be transmitted indicating the seal number that was replaced.

REF Reference Identification

Pos: 150	Max: 1
Detail - Optional	
Loop: HL	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	Used
		Description: Code qualifying the Reference Identification				
		Code Name				
		2I		Tracking Number		
REF02	127	Reference Identification	X	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

DTM Date/Time Reference

Pos: 200	Max: 5
Detail - Optional	
Loop: HL	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

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

Code Name

002	Delivery Requested	<i>PO delivery date</i>
010	Requested Ship	<i>PO ship date</i>
011	Shipped	<i>Actual shipped date</i>
065	1st Schedule Delivery	<i>Arrival appointment date</i>
371	Estimated Arrival Date	<i>Estimated arrival based upon actual shipped (011) date</i>

DTM02	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

N1 Name

Pos: 220	Max: 1
Detail - Mandatory	
Loop: N1	Elements: 4

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	Entity Identifier Code	M	ID	2/3	Must use
<p>Description: Code identifying an organizational entity, a physical location, property or an individual</p> <p>iTN User Note 1: SF and ST codes are required. Code CA required for delivered shipments. Code PW required for FOB shipments.</p> <p>Code Name</p> <ul style="list-style-type: none"> BR Broker BT Bill-to-Party CA Carrier PW Pick Up Address SF Ship From ST Ship To 						
N102	93	Name	X	AN	1/60	Must use
<p>Description: Free-form name</p>						
N103	66	Identification Code Qualifier	X	ID	1/2	Must use
<p>Description: Code designating the system/method of code structure used for Identification Code (67)</p> <p>Code Name</p> <ul style="list-style-type: none"> 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 54 Warehouse 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent UL UCC/EAN Location Code <p style="text-align: center;"><i>GLN (Global Location Number)</i></p>						
N104	67	Identification Code	X	AN	2/80	Must use
<p>Description: Code identifying a party or other code</p>						

N3 Address Information

Pos: 240	Max: 2
Detail - 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	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 250	Max: 1
Detail - 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	City Name	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				

PER Administrative Communications Contact

Pos: 270	Max: 3
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Not used

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

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>
PER01	366	Contact Function Code	M	ID	2/2	Not used
		Description: Code identifying the major duty or responsibility of the person or group named				
		Code Name				
		SH		Shipper Contact		
PER02	93	Name	O	AN	1/60	Not used
		Description: Free-form name				
PER03	365	Communication Number Qualifier	O	ID	2/2	Not used
		Description: Code identifying the type of communication number				
		Code Name				
		TE		Telephone		
PER04	364	Communication Number	O	AN	1/80	Not used
		Description: Complete communications number including country or area code when applicable				

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To identify dependencies among and the content of hierarchically related groups of data 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>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure <u>Code</u> <u>Name</u> O Order	M	ID	1/2	Must use

iTN User Note 1:

Order Level

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

User Option (Usage): Must use

Purpose: To provide reference to a specific purchase order

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>
PRF01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use
PRF02	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used
PRF04	373	Date Description: Date expressed as CCYYMMDD iTN User Note 1: Order creation date	O	DT	8/8	Must use
PRF07	92	Purchase Order Type Code Description: Code specifying the type of Purchase Order Code Name DS Dropship SO Shipped Order	O	ID	2/2	Used

REF Reference Identification

Pos: 150	Max: 5
Detail - Mandatory	
Loop: HL	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

iTN User Note 1: Code IL required for iTN order identification

Code Name

CR	Customer Reference Number	<i>Order Control number</i>
IL	Internal Order Number	<i>iTN Internal Order number - This is required if you did not send a Sales Order Number in the 855.</i>
VN	Vendor Order Number	<i>Vendor Sales Order number is required if you do not send the "IL"</i>
VR	Vendor ID Number	<i>Buyer's Internal Vendor ID</i>
YD	Buyer Identification	

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

N1 Name

Pos: 220	Max: 1
Detail - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Recommended

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	Entity Identifier Code	M	ID	2/3	Recommended
<p>Description: Code identifying an organizational entity, a physical location, property or an individual</p> <p>iTN User Note 1: Codes VN and BY required</p> <p>Code Name</p> <p>BY Buying Party (Purchaser)</p> <p>RE Party to receive commercial invoice remittance</p> <p>VN Vendor</p>						
N102	93	Name	X	AN	1/60	Recommended
<p>Description: Free-form name</p>						
N103	66	Identification Code Qualifier	X	ID	1/2	Used
<p>Description: Code designating the system/method of code structure used for Identification Code (67)</p> <p>Code Name</p> <p>1 D-U-N-S Number, Dun & Bradstreet</p> <p>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix</p> <p>91 Assigned by Seller or Seller's Agent</p> <p>92 Assigned by Buyer or Buyer's Agent</p> <p>UL UCC/EAN Location Code</p> <p>GLN (Global Location Number)</p>						
N104	67	Identification Code	M	AN	2/80	Recommended
<p>Description: Code identifying a party or other code</p>						

N3 Address Information

Pos: 240	Max: 2
Detail - 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	Address Information	M	AN	1/55	Used
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 250	Max: 1
Detail - 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	City Name	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data 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>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure <u>Code</u> <u>Name</u> T Shipping Tare	M	ID	1/2	Must use

iTN User Note 1:

Pallet/Tare Level

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 2
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Must use

Purpose: To specify the transportation details relative to commodity, weight, and quantity

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>
TD101	103	Packaging Code	O	AN	3/5	Must use
		Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required				
		Code Name				
		CAS Case				
TD102	80	Lading Quantity	X	NO	1/7	Must use
		Description: Number of units (pieces) of the lading commodity				
TD106	187	Weight Qualifier	O	ID	1/2	Used
		Description: Code defining the type of weight				
		Code Name				
		G Gross Weight				
		N Actual Net Weight				
TD107	81	Weight	X	R	1/10	Used
		Description: Numeric value of weight				
TD108	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		All valid standard codes are used.				

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Mandatory	
Loop: HL	Elements: 4

User Option (Usage): Must use

Purpose: To indicate identifying marks and numbers for shipping containers

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>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use
		Description: Code specifying the application or source of Marks and Numbers (87)				
		Code Name				
		GM SSCC-18 and Application Identifier				
MAN02	87	Marks and Numbers	M	AN	1/48	Must use
		Description: Marks and numbers used to identify a shipment or parts of a shipment				
		iTN User Note 1: LPN Number				
MAN04	88	Marks and Numbers Qualifier	X	ID	1/2	Used
		Description: Code specifying the application or source of Marks and Numbers (87)				
		Code Name				
		SI Self-Identifying Container via Radio Frequency ID Device				
MAN05	87	Marks and Numbers	X	AN	1/48	Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment				

PAL Pallet Information

Pos: 215	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

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>
PAL01	883	Pallet Type Code	O	ID	1/2	Used
		Description: Code indicating the type of pallet				
		<u>Code</u> <u>Name</u>				
		4 Standard				
PAL02	884	Pallet Tiers	O	N0	1/3	Used
		Description: The number of layers per pallet				
PAL03	885	Pallet Blocks	O	N0	1/3	Used
		Description: The number of pieces (cartons) per layer on the pallet				

iTN User Note 1:

Item Tie/Hi information is required for all ASNs.

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data 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>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Must use
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		<u>Code</u>	<u>Name</u>			
		I	Item			

iTN User Note 1:

Item/Case Level

LIN Item Identification

Pos: 020	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 17

User Option (Usage): Must use

Purpose: To specify basic item identification data

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>
LIN01	350	Assigned Identification	O	AN	1/20	Must use
		<p>Description: Alphanumeric characters assigned for differentiation within a transaction set</p> <p>iTN User Note 1: <i>LIN01 should match the PO101 from the 850 for a particular line item. ITN will augment the document with the appropriate value from our database unless duplicate product codes exist on separate lines.</i></p>				
LIN02	235	Product/Service ID Qualifier	X	ID	2/2	Used
		<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <p>Code Name</p> <p>UA U.P.C./EAN Case Code (2-5-5)</p> <p>UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)</p> <p>UP U.P.C. Consumer Package Code (1-5-5-1)</p>				
LIN03	234	Product/Service ID	C	AN	1/48	Used
		<p>Description: Identifying number for a product or service</p>				
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
		<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <p>Code Name</p> <p>MG Manufacturer's Part Number</p> <p>VN Vendor's (Seller's) Item Number</p>				
LIN05	234	Product/Service ID	C	AN	1/48	Used
		<p>Description: Identifying number for a product or service</p>				
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Must use
		<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p>				

		<u>Code</u>	<u>Name</u>				
		PI	Purchaser's Item Code				
LIN07	234	Product/Service ID		C	AN	1/48	Must use
		Description: Identifying number for a product or service					
LIN22	235	Product/Service ID Qualifier		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		CH	Country of Origin Code				
LIN23	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					
LIN24	235	Product/Service ID Qualifier		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		CH	Country of Origin Code				
LIN25	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					
LIN26	235	Product/Service ID Qualifier		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		CH	Country of Origin Code				
LIN27	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					
LIN28	235	Product/Service ID Qualifier		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		CH	Country of Origin Code				
LIN29	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN30	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		Code Name CH Country of Origin Code				
LIN31	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used

iTN User Note 1:

Either Case Code or Product Code required in LIN03, LIN05 or LIN07.

iTN User Note 2:

Multiple COOL locations should be sent in LIN22 through LIN31 with a 'CH' qualifier. Up to 5 COOL codes are supported.

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

Purpose: To specify line-item detail relative to shipment

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>
SN102	382	Number of Units Shipped	M	R	1/10	Must use
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set				
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		Description: 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>				
		CA Case				

PID Product/Item Description

Pos: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Not used

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	Not used
		Description: Code indicating the format of a description				
		Code Name				
		F Free-form				
PID05	352	Description	X	AN	1/80	Not used
		Description: A free-form description to clarify the related data elements and their content				

MEA Measurements

Pos: 080 Max: 40
 Detail - Optional
 Loop: HL Elements: 4

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

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>
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
		Description: Code identifying the broad category to which a measurement applies				
		Code Name				
		WT Weights				
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
		Description: Code identifying a specific product or process characteristic to which a measurement applies				
		Code Name				
		G Gross Weight				
		N Actual Net Weight				
		VOL Volume				
MEA03	739	Measurement Value	O	R	1/20	Used
		Description: The value of the measurement				
MEA04	C001	Composite Unit of Measure	X	Comp		Used
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)				
	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code Name				
		CF Cubic Feet				
		KG Kilogram				
		LB Pound				

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

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>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Used
		Description: Code specifying the application or source of Marks and Numbers (87)				
		Code Name				
		GM SSCC-18 and Application Identifier				
MAN02	87	Marks and Numbers	M	AN	1/48	Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment				
MAN04	88	Marks and Numbers Qualifier	X	ID	1/2	Used
		Description: Code specifying the application or source of Marks and Numbers (87)				
		Code Name				
		SI Self-Identifying Container via Radio Frequency ID Device				
MAN05	87	Marks and Numbers	X	AN	1/48	Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment				

iTN User Note 1:

Used for Case-level tracking

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To identify dependencies among and the content of hierarchically related groups of data 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>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure Code Name UT Unit or Lot	M	ID	1/2	Must use

iTN User Note 1:

LOT Level

SLN Subline Item Detail

Pos: 040 Max: 1000
 Detail - Optional
 Loop: HL Elements: 5

User Option (Usage): Used

Purpose: To specify product subline detail item data

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>
SLN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	M	AN	1/20	Used
SLN04	380	Quantity Description: Numeric value of quantity <i>iTN User Note 1: SLN04 LOT case quantities must add up to the total case quantity.</i>	M	R	1/15	Used
SLN05	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	X	Comp		Used
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name CA Case	M	ID	2/2	Used
SLN09	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name LT Lot Number	X	ID	2/2	Used
SLN10	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used

DTM Date/Time Reference

Pos: 200	Max: 2
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

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	Used
		Description: Code specifying type of date or time, or both date and time				
		Code Name				
		094		Manufacture		
		208		Lot Number Expiration		
DTM02	373	Date	X	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 6

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	Number of Line Items	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				
CTT02	347	Hash Total	O	R	1/10	Used
		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.				
CTT03	81	Weight	X	R	1/10	Used
		Description: Numeric value of weight				
CTT04	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.				
CTT05	183	Volume	X	R	1/8	Used
		Description: Value of volumetric measure				
CTT06	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.				

SE Transaction Set Trailer

Pos: 020	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	Number of Included Segments	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				