

LEAR CORPORATION  
IMPLEMENTATION GUIDELINES FOR AIAG (ASC X12) EDI CONVENTIONS  
SHIP NOTICE / MANIFEST TRANSACTION SET (856)

LEAR CORPORATION ITC  
21557 Telegraph Road  
SOUTHFIELD, MI 48034

ASC X12  
VERSION/RELEASE 003010

**856** SHIP NOTICE / MANIFEST

This standard 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) also known as Electronic Commerce (EC) 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, markings, 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.

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856 - IMPLEMENTATION GUIDELINES FOR EDI CONVENTIONS - 3010

SEGMENT USAGE OVERVIEW

HEADER SEGMENT DESCRIPTION TABLE

ST	M	TRANSACTION SET HEADER
BSN	M	BEGINNING SEGMENT FOR SHIPPING NOTICE
DTM	M	DATE/TIME REFERENCE

HL - SHIPMENT SEGMENT DESCRIPTION TABLE

HL	M	HIERARCHICAL LEVEL
MEA	O	MEASUREMENTS
TD1	M	CARRIER DETAILS (QUANTITY AND WEIGHT)
TD5	M	CARRIER DETAILS (ROUTING SEQUENCE/TRANSIT TIME)
TD3	M	CARRIER DETAILS (EQUIPMENT)
REF	O	REFERENCE IDENTIFICATION
FOB	O	F.O.B. RELATED INSTRUCTIONS
N1	M	NAME

HL - ITEM SEGMENT DESCRIPTION TABLE

HL	M	HIERARCHICAL LEVEL (ITEM)
LIN	M	LINE ITEM DETAIL
SN1	M	ITEM DETAIL SHIPMENT
PRF	O	PURCHASE ORDER REFERENCE
CLD	O	LOAD DESCRIPTION
REF	O	REFERENCE IDENTIFICATION

SUMMARY / TRAILER SEGMENT DESCRIPTION TABLE

CTT	M	TRANSACTION TOTALS
SE	M	TRANSACTION SET TRAILER

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SEGMENT:               **ST - ADVANCE SHIP NOTICE**

LEVEL:                 Heading

MAX USAGE/LOOPS:   1/None

PURPOSE:             Indicate the start of a transaction set and to assign a control number.

GENERAL INFORMATION:   This segment is mandatory. The Transaction Control Number must match the Transaction Set Control Number in the Transaction Set Trailer (SE).

EXAMPLE:             ST\*856\*0001               N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
ST01	143	Transaction Set Id	M ID 03/03	Use "856"
ST02	329	Transaction Set Control Number	M AN 04/09	A unique number assigned to each transaction set within a functional group

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SEGMENT:                   **BSN - BEGINNING SEGMENT ADVANCE SHIP NOTICE**

LEVEL:                     Heading

MAX USAGE/LOOPS:       1/None

PURPOSE:                 Transmit identifying numbers, dates, and other basic data relating to the transaction set.

GENERAL INFORMATION:   Indicate the beginning of an Advance Ship Notice transaction and to transmit an identifying number and date.

EXAMPLE:                 BSN\*00\*12345678901\*940805\*2300       N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
BSN01	353	Transaction Set Purpose	M ID 02/02	"00" = Original "01" = Cancellation "05" = Replace "12" = Test data
BSN02	396	Ship Notice Number	M AN 02/30	Packing slip number. Unique supplier assigned number
BSN03	373	Ship Notice Date	M DT 06/06	Date of ASN creation (YYMMDD)
BSN04	337	Ship Notice Time	M TM 04/04	Time of ASN creation (HHMM 24 hour clock)
BSN05	1005	Hierarchical Structure	O ID 04/04	<u>not used</u>
BSN06	640	Transaction Type Code	X ID 02/02	<u>not used</u>
BSN07	641	Status Reason Code	O ID 03/03	<u>not used</u>

Notes: The date and time are the date and local time of the creation of the transaction.

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SEGMENT:                   **DTM - DATE/TIME REFERENCE**

LEVEL:                     Heading

MAX USAGE/LOOPS:       2/None

PURPOSE:                 Specify pertinent dates and times

GENERAL INFORMATION:   Use a Date/Time Qualifier (DTM01) value of "011" to specify the shipped date/time.

EXAMPLES:                DTM\*011\*970805\*230045

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
DTM01	374	Date/Time Qualifier	M ID 03/03	"011" Shipped
DTM02	373	Date	X DT 06/06	Date (YYMMDD)
DTM03	337	Time	X TM 04/06	Time (HHMM) time expressed in 24 hour clock HH = hour MM = minutes
DTM04	623	Time Zone Qualifier	O ID 02/02	Time zone code

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**HL - SHIPMENT SEGMENT DESCRIPTION TABLE**

<u>SEGMENT</u>	<u>REQD</u>	<u>DESCRIPTION</u>
HL	M	HIERARCHICAL LEVEL
MEA	O	MEASUREMENTS
TD1	M	CARRIER DETAILS (QUANTITY AND WEIGHT)
TD5	M	CARRIER DETAILS (ROUTING SEQUENCE/TRANSIT TIME)
TD3	M	CARRIER DETAILS (EQUIPMENT)
REF	O	REFERENCE IDENTIFICATION
FOB	O	F.O.B. RELATED INSTRUCTIONS
N1	M	NAME

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SEGMENT:                   **HL - HIERARCHICAL LEVEL**

LEVEL:                      Detail - Shipment

MAX USAGE/LOOPS:       200,000/Begins the detail loop

PURPOSE:                  Identify dependencies among the contents of hierarchically related groups of data segments.

GENERAL PURPOSE:        The HL segment is used to identify dependencies among different levels of hierarchy. The first HL should be '1' and then each successive use should be incremented by 1.

EXAMPLE:                  HL\*1\*\*S           N/L       (Shipment Level)

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
HL01	628	Hierarchical Id Number	M AN 01/12	"1" for the first HL segment and incremented by 1 in each subsequent HL segment.
HL02	734	Hierarchical Parent Id	O AN 01/12	The ID number of parent HL segment. Required for all item level HL segments.
HL03	735	Hierarchical Level Code	M ID 01/02	"S" = Shipment
HL04	736	Hierarchical Child Code		<b><u>not used</u></b>



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SEGMENT:               **MEA    -   MEASUREMENTS**

LEVEL :                 Detail - Shipment

MAX USAGE/LOOPS:   2 per ASN

PURPOSE:              Specify physical measurements

GENERAL INFORMATION:   MEA segment is used to transmit the physical weight of the shipment.

EXAMPLE:              MEA\*PD\*G\*1165\*LB  
                          MEA\*PD\*N\*1000\*LB

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
MEA01	737	Measurement Reference Id	M ID 02/02	"PD" = Physical dimensions
MEA02	738	Measurement Qualifier	M ID 01/03	"G"= Gross weight "N"= Net weight
MEA03	739	Measurement Value	M R 01/10	
MEA04	355	Unit Of Measurement	M ID 02/02	"LB" = Pound "KG" = Kilogram "GA" = Gallon
MEA05	740	Range Minimum	X R 01/20	<u>not used</u>
MEA06	741	Range Maximum	X R 01/20	<u>not used</u>
MEA07	935	Measurement Significance Cd	X ID 02/02	<u>not used</u>
MEA08	936	Measurement Attribute Code	X ID 02/02	<u>not used</u>
MEA09	752	Surface/Layer/Position Code	X ID 02/02	<u>not used</u>
MEA10	1373	Measurement Method/Device	X ID 02/04	<u>not used</u>

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SEGMENT:                   **TD1 – CARRIER DETAILS (QUANTITY & WEIGHT)**

LEVEL:                     Detail - Shipment

MAX USAGE/LOOPS:       20 per ASN

PURPOSE:                 Specify the transportation details relative to commodity,  
weight, and quantity.

GENERAL:  
INFORMATION:            TD1 segment specifies the number of PLT90 palettes for  
the entire shipment.

EXAMPLES:                TD1\*PLT90\*15            N/L  
                              TD1\*CTN71\*7

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
TD101	103	Packaging Code	O AN 03/05	
TD102	80	Lading Quantity	M NO 01/07	Number of TD101's
TD103	23	Commodity Code Qualifier	X ID 01/01	<u>not used</u>
TD104	22	Commodity Code	X AN 01/30	<u>not used</u>
TD105	79	Lading Description	X AN 01/50	<u>not used</u>
TD106	187	Weight Qualifier	X R 01/02	<u>not used</u>
TD107	81	Weight	X R 01/10	<u>not used</u>
TD108	355	Unit Or Basis For Measurement Code	X R 02/02	<u>not used</u>

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SEGMENT:                   **TD5 – CARRIER DETAILS (ROUTING )**

LEVEL:                     Detail - Shipment

MAX USAGE/LOOPS:       1 per ASN

PURPOSE:                 Specify the carrier.

GENERAL INFORMATION:   TD5 segment specifies the SCAC code for the carrier.

EXAMPLE:                 TD5\*B\*2\*BWEP\*M  
                              TD5\*B\*2\*ARDN\*LT

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
TD501	133	Routing Sequence Code	M ID 01/02	
TD502	66	Identification Code Qualifier	M ID 01/02	Lear use "2"
TD503	67	Identification Code	M AN 02/04	Carriers SCAC code
TD504	91	Mode	M ID 01/02	
TD505	387	Routing Original Carrier	X AN 01/35	<u>not used</u>
TD506	368	Ship / Order Status Code	X ID 02/02	<u>not used</u>
TD507	309	Location Qualifier	X ID 01/02	<u>not used</u>
TD508	310	Location Identifier	X AN 01/30	<u>not used</u>
TD509	731	Transit Direction Code	X ID 02/02	<u>not used</u>
TD510	732	Transit Time Direction Qual	X ID 02/02	<u>not used</u>
TD511	733	Transit Time	X R 01/04	<u>not used</u>
TD512	284	Service Level Code	X ID 02/02	<u>not used</u>
TD513	284	Service Level Code	X ID 02/02	<u>not used</u>
TD514	284	Service Level Code	X ID 02/02	<u>not used</u>

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SEGMENT:                   **TD3 - CARRIER DETAILS ( EQUIPMENT)**

LEVEL:                     Detail - Shipment

MAX USAGE/LOOPS:       1 per ASN

PURPOSE:                 Specify the carrier truck/trailer number

GENERAL INFORMATION:   TD3 segment specifies the truck/trailer number for the carrier.

EXAMPLE:                 TD3\*TL\*\*5327

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
TD301	40	Equipment Description Code	M ID 02/02	
TD302	206	Equipment Initial	X AN 01/04	<u>not used</u>
TD303	207	Equipment Number	M AN 02/10	Conveyance number 'Truck/Trailer Number'
TD304	187	Weight Qualifier	X ID 01/12	<u>not used</u>
TD305	81	Weight	X R 01/08	<u>not used</u>
TD306	355	Unit Or Basis For Measurement Code	X ID 02/02	<u>not used</u>
TD307	102	Ownership Code	X ID 01/01	<u>not used</u>
TD308	407	Seal Status Code	X ID 02/02	<u>not used</u>
TD309	225	Seal Number	X AN 02/15	<u>not used</u>

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SEGMENT:           **REF** – REFERENCE IDENTIFICATION

LEVEL:             Detail - Shipment

MAX USAGE/LOOPS: 2 per ASN

PURPOSE:           Specify the bill of lading and the packing slip number.

EXAMPLES:         REF\*BM\*951669  
REF\*PK\*1445389  
REF\*DK\*R1234

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
REF01	128	Reference Identification Qualifier	M ID 02/03	See list below
REF02	127	Reference Identifier	M AN 01/30	Value referred to by REF01
REF03	352	Description	X AN 01/80	<b><u>not used</u></b>

Note: "BM" = Bill of lading  
"PK" = Packing slip number  
"DK" = Dock Number

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SEGMENT:     **FOB - F.O.B. RELATED INSTRUCTIONS**

LEVEL:             Detail - Shipment

MAX USAGE/LOOPS: 1 per ASN

PURPOSE:           Specify F.O.B. information

EXAMPLE:           FOB\*CC        N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
FOB01	146	Shipment Method Of Payment	M ID 02/02	"CC" = Collect "PP" = Prepaid by seller
FOB02	309	Location Qualifier	X ID 01/02	<u>not used</u>
FOB03	352	Description	X AN 01/80	<u>not used</u>
FBO04	334	Transportation Terms Qualifier Code	X ID 02/02	<u>not used</u>
FOB05	335	Transportation Terms Code	X ID 03/03	<u>not used</u>
FOB06	309	Location Qualifier	X ID 01/02	<u>not used</u>
FOB07	352	Description	X AN 01/80	<u>not used</u>
FOB08	54	Risk Of Loss Qualifier	X ID 02/02	<u>not used</u>
FOB09	352	Description	X AN 01/80	<u>not used</u>

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SEGMENT:           **N1 - NAME**

LEVEL:             Detail - Shipment

MAX USAGE/LOOPS: 2 per ASN

PURPOSE:           Specify ship to and ship from information

EXAMPLES:         N1\*ST\*\*92\*LSC21           N/L  
                      N1\*Sf\*\*1\*861315729       N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
N101	98	Entity Identifier Code	M ID 02/02	"SF" = Ship from "ST" = Ship to
N102	93	Name	X ID 01/35	<b><u>not used</u></b>
N103	66	Identification Code Qualifier	M ID 01/02	"92" = Lear assigned code. "1" = DUNS #.
N104	67	Identification Code	M AN 05/17	Lear assigned code
N105	706	Entity Relationship Code	X ID 02/02	<b><u>not used</u></b>
N106	98	Entity Identifier Code	X ID 02/02	<b><u>not used</u></b>

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**HL - ITEM SEGMENT DESCRIPTION TABLE**

<u>SEGMENT</u>	<u>REQD</u>	<u>DESCRIPTION</u>
HL	M	HIERARCHICAL LEVEL (ITEM)
LIN	M	LINE ITEM DETAIL
SN1	M	ITEM DETAIL SHIPMENT
PRF	O	PURCHASE ORDER REFERENCE
CLD	O	LOAD DETAIL
REF	O	REFERENCE IDENTIFICATION



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SEGMENT:                   **HL - HIERARCHICAL LEVEL**

LEVEL:                      Detail - Item

MAX USAGE/LOOPS:       200,000/Begins the item loop

PURPOSE:                  Identify dependencies among the contents of hierarchically related groups of data segments.

GENERAL PURPOSE:       The HL segment is used to identify dependencies among different levels of hierarchy. The first HL should be "1" and then each successive use should be incremented by 1.

EXAMPLE:                  HL\*1\*\*I            N/L       (Item Level)

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
HL01	628	Hierarchical Id Number	M AN 01/12	"1" for the first HL segments and incremented by 1 in each subsequent HL segment.
HL02	734	Hierarchical Parent Id	O AN 01/12	The ID number of parent HL segment. Required for all item level HL segments.
HL03	735	Hierarchical Level Code	M ID 01/02	'I' = Item
HL04	736	Hierarchical Child Code		<b><u>not used</u></b>

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SEGMENT:               **LIN - LINE ITEM DETAIL**

LEVEL:                 Detail - Item

MAX USAGE/LOOPS:    1/HL (Item)

PURPOSE:             Specify part numbers on this ASN

GENERAL INFORMATION:    For each LIN segment, there should be 1 SN1 segment.  
A Product/Service ID may only exist on 1 LIN segment.

If any parts are shipped with returnable containers, separate LIN and corresponding SN1 segments are required for each container number.

EXAMPLE:               LIN\*\*BP\*28766\*EC\*1234\*VP\*767850  
                          LIN\*\*PO\*12345678  
                          LIN\*\*RC\*750X

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
LIN01	350	Assigned Identification	O AN 01/20	<u>not used</u>
LIN02	235	Product/Service Id Qualifier	M ID 02/02	"BP" Buyer Part "PO" Purch Order "RC" Returnable Container "VP" Vendor Part
LIN03	234	Product/Service Id	M AN 01/30	Lear Part Number Lear PO. Number Container Number Vendor Part Number
LIN04	235	Product/Service Id Qualifier	O ID 02/02	"EC" Eng Chg Level "PO" Purch Order "RC" Returnable Container "VP" Vendor Part
LIN05	234	Product/Service Id	O AN 01/30	Lear EC Number Lear PO. Number Container Number Vendor Part Number
LIN06	235	Product/Service Id Qualifier	O ID 02/02	"EC" Eng Chg Level "PO" Purch Order "RC" Returnable Container "VP" Vendor Part
LIN07	234	Product/Service Id	O AN 01/30	Lear EC Number Lear PO Number Container Number Vendor Part Number

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SEGMENT:                   **SN1 - ITEM DETAIL SHIPMENT**

LEVEL:                     Detail - Item

MAX USAGE/LOOPS:       1/LIN Segment

PURPOSE:                 Specify quantity of a part number.

GENERAL INFORMATION:   For each SN1 segment, there should be one preceding LIN segment.

EXAMPLE:                 SN1\*\*500\*PC\*1500       N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
SN101	350	Assigned Identification	O AN 01/20	<u>Not used</u>
SN102	382	Number Of Units Shipped	M R 01/10	Quantity shipped of preceding LIN part number.
SN103	355	Unit Of Measure Code	M ID 02/02	See list below
SN104	646	Quantity Shipped To Date	M R 01/09	Accum quantity of preceding LIN's part number
SN105	330	Quantity Ordered	X R 01/09	<u>not used</u>
SN106	355	Unit Or Basis For Measurement	X 1D 02/02	<u>not used</u>
SN107	728	Returnable Container Load	O ID 01/02	<u>not used</u>
SN108	668	Line Item Status Code	O ID 02/02	<u>not used</u>

SAMPLE UNIT OF MEASURE CODES:   EA = Each  
   PK = Package  
   PC = Piece  
   CA = Case  
   PL = Pallet

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SEGMENT:                   **PRF – PURCHASE ORDER REFERENCE**

LEVEL:                     Detail - Item

MAX USAGE/LOOPS:       1/HL (Item)

PURPOSE:                 Provide reference to a specific purchase order number

GENERAL INFORMATION:   PRF segment is used to transmit the purchase order number.

EXAMPLE:                 PRF\*123456789012345                   N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
PRF01	324	Purchase Order Number	O AN 01/22	Lear PO. Number
PRF02	328	Release Number	X AN 01/30	<u>not used</u>
PRF03	327	Change Order Sequence	X AN 01/08	<u>not used</u>
PRF04	373	Date	X DT 01/06	<u>not used</u>
PRF05	350	Assigned Identification	X AN 01/20	<u>not used</u>
PRF06	367	Contract Number	X AN 01/30	<u>not used</u>
PRF07	92	Purchase Order Type Code	X ID 02/02	<u>not used</u>

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SEGMENT:                   **CLD – LOAD DETAIL**

LEVEL:                     Detail - Item

MAX USAGE/LOOPS:       200/HL (Item)

PURPOSE:                 Specify the number of material loads(*containers*) shipped.

GENERAL INFORMATION:   This segment is used by the supplier to inform Lear of the number of containers (e.g. cartons, pallets), and quantity per container. The CLD segment is followed by the REF segments that indicate the Lot and Serial numbers associated with these containers.  
The sum of each CLD Qty(**CLD01\*CLD02**)under the LIN must equal the *number of units shipped* on the SN1 segment(**SN102**)associated with the same LIN item.  
Not used for returnable containers.

EXAMPLE:                 CLD\*5\*100\*CTN90     (SN1\*\*500\*PC\*1500)

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
CLD01	622	Number of Loads	M N 01/05	Number of customer-defined loads shipped by the supplier Number of containers (skids, pallets, etc.)
CLD02	382	Number of Units Shipped	M R 01/07	Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set. Also see: Unit of Measurement Code (355). Quantity per load (number of units per container).
CLD03	103	Packaging Code	M ID 05/05	Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging



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**SUMMARY / TRAILER SEGMENT DESCRIPTION TABLE**

<u>SEGMENT</u>	<u>REQD</u>	<u>DESCRIPTION</u>
CTT	M	TRANSACTION TOTALS
SE	M	TRANSACTION SET TRAILER

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SEGMENT:           **CTT - TRANSACTION TOTALS**

LEVEL:             Trailer

MAX USAGE/LOOPS: 1/None

PURPOSE:           Transmit a hash total for a specific elements in the transaction set.

GENERAL INFORMATION:   Provide number of H1 segments and the sum of the values in the SN102 elements.

EXAMPLE:           CTT\*14\*193999494           N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
CTT01	354	Number Of Line Items	M NO 01/06	Number of HL segments
CTT02	347	Hash Totals	M R 01/10	Total of quantities from SN102
CTT03	81	Weight	X R 01/10	<u>not used</u>
CTT04	355	Unit Or Basis For Measurement Code	X ID 02/02	<u>not used</u>
CTT05	183	Volume	X R 01/08	<u>not used</u>
CTT06	355	Unit Or Basis For Measurement Code	X ID 02/02	<u>not used</u>
CTT07	352	Description	X AN 01/80	<u>not used</u>



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SEGMENT:                   **SE - TRANSACTION SET TRAILER**

LEVEL:                     Summary

MAX USAGE/LOOPS:       1/None

PURPOSE:                 Indicate the end of a transaction set and provide the count of the transmitted segments including the "SE" and "ST" segments.

EXAMPLE:                 SE\*5\*0001            N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
SE01	96	Number Of Included Segments	M NO 01/10	Total number of segments
SE02	329	Transaction Set Control Number	M AN 04/09	Same as corresponding ST02