SUMMARY

This transaction set is used to communicate to Danfoss Power Solutions the contents of a shipment.

Danfoss Power Solutions uses the ANSI X12 – 856 (ASN) specification version 4010. This specification is included as well as examples of its uses.

Special Characters
Delimiters
Danfoss Power Solutions uses the asterisk (*) for the element separator, the tilde (~) for the segment terminator, and the colon (:) for the sub-element separator.

VAN Information - Value Added Network

Danfoss Power Solutions currently uses the IBM Sterling B2B Integration network, including interconnects to other networks and communication protocols.

Please contact srhelp@us.ibm.com or visit http://www.ibm.com/support.

ISA/GS Information

Test
ISA ID qualifier: **ZZ**
ISA ID: **DANFOSSPSTST**
GS ID: **DANFOSSPSTST**

Production
ISA ID qualifier: **ZZ**
ISA ID: **DANFOSSPS**
GS ID: **DANFOSSPS**

EDI Contact:
PS.EDI@Danfoss.com

856 Advance Ship Notice/Manifest

Functional Group = SH

This Standard contains the format and establishes the data contents of the Advance 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, and type of packaging, marking, carrier information, and configuration of goods within the transportation equipment.

Segment: ISA Interchange Control Header

Position: 002
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes		User Attributes
ISA01	**I01**	**Authorization Information Qualifier** Code to identify the type of information in the Authorization Information 00 No Authorization Information Present (No Meaningful Information in I02)	**M**	**ID 2/2**	**M**
ISA02	**I02**	**Authorization Information** 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) ***Will contain blanks.***	**M**	**AN 10/10**	**M**
ISA03	**I03**	**Security Information Qualifier** Code to identify the type of information in the Security Information 00 No Security Information Present (No Meaningful Information in I04)	**M**	**ID 2/2**	**M**
ISA04	**I04**	**Security Information** 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) ***Will contain blanks.***	**M**	**AN 10/10**	**M**
ISA05	**I05**	**Interchange Sender ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified ***Assigned by Supplier.***	**M**	**ID 2/2**	**M**
ISA06	**I06**	**Interchange Sender ID** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the	**M**	**AN 15/15**	**M**

sender ID element
Test and Production IDs to be assigned by Supplier.

ISA07	**I05**	**Interchange Receiver ID Qualifier**	**M**	**ID 2/2**	**M**

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

ISA08	**I07**	**Interchange Receiver ID**	**M**	**AN 15/15**	**M**

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
Test = DANFOSSPSTST
Production = DANFOSSPS

ISA09	**I08**	**Interchange Date**	**M**	**DT 6/6**	**M**

Date of the interchange

ISA10	**I09**	**Interchange Time**	**M**	**TM 4/4**	**M**

Time of the interchange

ISA11	**I10**	**Interchange Control Standards Identifier**	**M**	**ID 1/1**	**M**

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

U	U.S. EDI Community of ASC X12, TDCC, and UCS

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

This version number covers the interchange control segments

00400	Standard Issued as ANSI X12.5-1997

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

A control number assigned by the interchange sender

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

Code sent by the sender to request an interchange acknowledgment (TA1)

0	No Acknowledgment Requested

ISA15	**I14**	**Usage Indicator**	**M**	**ID 1/1**	**M**

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

P	Production Data
T	Test Data

ISA16	**I15**	**Sub-Element Separator**	**M**	**AN 1/1**	**M**

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
Danfoss PS suggests using the Greater-Than symbol (>).

Specifications for ANSI X12 4010 856

Segment: **GS** **Functional Group Header**
Position: 005
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
GS01	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets SH Ship Notice/Manifest (856)	**M ID 2/2**	**M**
GS02	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners ***To be determined at implementation.***	**M AN 2/15**	**M**
GS03	**124**	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners ***Defined by Customer.***	**M AN 2/15**	**M**
GS04	**373**	**Date** Date expressed as CCYYMMDD	**M DT 8/8**	**M**
GS05	**337**	**Time** 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)	**M TM 4/8**	**M**
GS06	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M N0 1/9**	**M**
GS07	**455**	**Responsible Agency Code** Code used in conjunction with Data Element 480 to identify the issuer of the standard X Accredited Standards Committee X12	**M ID 1/2**	**M**
GS08	**480**	**Version / Release / Industry Identifier Code** Code indicating the version, release, sub release, 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	**M AN 1/12**	**M**

number; positions 4-6 are the release and sub release, 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

004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Specifications for ANSI X12 4010 856

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
ST01	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	**M ID 3/3**	**M**
ST02	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**	**M**

Segment: **BSN** **Beginning Segment for Ship Notice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: **1** If BSN07 is present, then BSN06 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
BSN01	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original	**M ID 2/2**	**M**
BSN02	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment	**M AN 2/30**	**M**
BSN03	**373**	**Ship Notice Creation Date** Date expressed as CCYYMMDD	**M DT 8/8**	**M**
BSN04	**337**	**Ship Notice Creation Time** 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)	**M TM 4/8**	**M**

Segment: **DTM** **Date/Time Reference (Shipped)**
Position: 040
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 011 Shipped	**M ID 3/3**	**M**
DTM02	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**	
DTM03	**337**	**Time** 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) ***If present, contains time of shipment.***	**X TM 4/8**	
DTM04	**623**	**Time Code** Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	**O ID 2/2**	

Segment: **DTM** **Date/Time Reference (Delivery)**
Position: 040
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 017 Estimated Delivery Date	**M ID 3/3**	**M**
DTM02	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**	
DTM03	**337**	**Time** 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) ***If present, contains time of shipment.***	**X TM 4/8**	
DTM04	**623**	**Time Code** Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	**O ID 2/2**	

Segment: **HL** **Hierarchical Level (Shipment)**
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure ***Will contain '1' at the Shipment level.***	**M AN 1/12**	**M**
HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to ***Will contain blanks at the Shipment level.***	**O AN 1/12**	
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure S Shipment	**M ID 1/2**	**M**
HL04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described 1 Additional Subordinate HL Data Segment in This Hierarchical Structure.	**O ID 1/1**	

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:
1 If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then TD107 is required.
4 If either TD107 or TD108 is present, then the other is required.
5 If either TD109 or TD110 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
TD101	**103**	**Packaging Code** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required CTN Carton 71 Not Otherwise Specified	**O AN 3/5**	
TD102	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	**X N0 1/7**	
TD106	**187**	**Weight Qualifier** Code defining the type of weight G Gross Weight	**O ID 1/2**	
TD107	**81**	**Weight** Numeric value of weight ***Gross Weight (in pounds) of the Shipment.***	**X R 1/10**	
TD108	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken PG Pounds Gross	**X ID 2/2**	

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time)**
Position: 120
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:
1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
2 If TD502 is present, then TD503 is required.
3 If TD507 is present, then TD508 is required.
4 If TD510 is present, then TD511 is required.
5 If TD513 is present, then TD512 is required.
6 If TD514 is present, then TD513 is required.
7 If TD515 is present, then TD512 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD501	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement B Origin/Delivery Carrier (Any Mode)	**M ID 1/2**
TD502	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	**M ID 1/2**
TD503	**67**	**Identification Code** Code identifying a party or other code ***Standard Carrier Alpha Code***	**M AN 2/80**
TD504	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment	**X ID 1/2**

Segment: **REF** **Reference Identification (Packing List Number)**
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes		User Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PK Packing List Number	**M**	**ID 2/3**	**M**
REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**	
REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**AN 1/80**	

Segment: REF Reference Identification (Bill of Lading Number)

Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes		User Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BM Bill of Lading Number	**M**	**ID 2/3**	**M**
REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**	
REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**AN 1/80**	

Segment: N1 Name

Position: 410
Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party BY Buying Party (Purchaser) SE Selling Party SF Ship From **ST Ship To** **SU Supplier ID**	**M ID 2/3**	**M**
N102	**93**	**Name** Free-form name	**X AN 1/60**	
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	**X ID 1/2**	**>>**
N104	**67**	**Identification Code** Code identifying a party or other code ***If N103 = '91', contains Vendor's assigned code.*** ***If N103 = '92', contains Customer's assigned code.***	**X AN 2/80**	**>>**

- **Ship To (ST) and Supplier ID (SU) are mandatory for Danfoss PS**

Segment: **N2** **Additional Name Information**
Position: 420
Loop: N1 Mandatory
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
N201	**93**	**Name** Free-form name ***Additional name.***	**M AN 1/60**	**M**
N202	**93**	**Name** Free-form name ***Additional name.***	**O AN 1/60**	

Specifications for ANSI X12 4010 856

Segment: **N3** **Address Information**
Position: 430
Loop: N1 Mandatory
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
N301	**166**	**Address Information** Address information ***First line of address.***	**M AN 1/55**	**M**
N302	**166**	**Address Information** Address information ***Second line of address.***	**O AN 1/55**	

Segment: **N4** **Geographic Location**
Position: 440
Loop: N1 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
N401	**19**	**City Name** Free-form text for city name	**O AN 2/30**	
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O ID 2/2**	
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O ID 3/15**	
N404	**26**	**Country Code** Code identifying the country	**O ID 2/3**	

Segment: **HL** **Hierarchical Level (Item)**
Position: 385
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure ***Next sequential Hierarchical ID Number (previous HL01 number + 1).***	**M AN 1/12**	**M**
HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to ***Hierarchical ID Number (HL01) from the previous Shipment-level 'HL' segment.***	**O AN 1/12**	
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure I Item	**M ID 1/2**	**M**
HL04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described 0 No Subordinate HL Segment in This Hierarchical Structure.	**O ID 1/1**	

Segment: **LIN** **Item Identification**
Position: 390
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes: **1** If either LIN04 or LIN05 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
LIN01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set ***Purchase Order Line Number***	**M AN 1/20**	
LIN02	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	**M ID 2/2**	**M**
LIN03	**234**	**Product/Service ID** Identifying number for a product or service ***Danfoss PS Part Number***	**M AN 1/48**	**M**
LIN04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) VP Vendor's (Seller's) Part Number	**X ID 2/2**	
LIN05	**234**	**Product/Service ID** Identifying number for a product or service ***Supplier Part Number***	**X AN 1/48**	

Specifications for ANSI X12 4010 856

Segment: **SN1** **Item Detail (Shipment)**
Position: 400
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: **1** If either SN105 or SN106 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
SN101	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set ***Ship Notice Line Number.***	**O AN 1/20**	
SN102	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	**M R 1/10**	**M**
SN103	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	**M ID 2/2**	**M**

Segment: PRF Purchase Order Reference

Position: 050
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
PRF01	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser ***Customer's Purchase Order Number.***	**M AN 1/22**	**M**
PRF02	**328**	**Release Number** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction ***Customer's Release Number.***	**O AN 1/30**	
PRF04	**373**	**Purchase Order Date** Date expressed as CCYYMMDD ***Customer's Purchase Order Date.***	**O DT 8/8**	

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.

Data Element Summary

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

Segment: **SE** **Transaction Set Trailer**
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
SE01	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**	**M**
SE02	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set ***This number must match the Transaction Set Control Number (ST02) value.***	**M AN 4/9**	**M**

Segment: **GE** **Functional Group Trailer**
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes		User Attributes
GE01	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M**	**N0 1/6**	**M**
GE02	**28**	**Group Control Number** Assigned number originated and maintained by the sender ***This number must match the Group Control Number (GS06) value.***	**M**	**N0 1/9**	**M**

Segment: **IEA** **Interchange Control Trailer**
Position: 040
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
IEA01	**I16**	**Number of Included Functional Groups** A count of the number of functional groups included in an interchange	**M N0 1/5**	**M**
IEA02	**I12**	**Interchange Control Number** A control number assigned by the interchange sender ***This number must match the Interchange Control Number (ISA13) value.***	**M N0 9/9**	**M**