830 Planning Schedule with Release Capability

Functional Group ID=PS

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Planning Schedule with Release Capability Transaction Set (830) 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 practice relative to the transfer of forecasting/material release information between organizations. The planning schedule transaction may be used in various ways or in a combination of ways, such as: (1) a simple forecast; (2) a forecast with the buyer's authorization for the seller to commit to resources, such as labor or material; (3) a forecast that is also used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets," such as weekly, monthly, or quarterly. The order release forecast may also contain all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
	030	NTE	Note/Special Instruction	O	100		
			LOOP ID - N1			200	
	230	N1	Name	O	1		
	240	N2	Additional Name Information	O	2		
	250	N3	Address Information	O	2		
	260	N4	Geographic Location	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
M	010	LIN	Item Identification	M	1		
M	020	UIT	Unit Detail	M	1		
	140	REF	Reference Numbers	O	12		
	150	PER	Administrative Communications Contact	O	3		
	230	ATH	Resource Authorization	O	20		
			LOOP ID - SDP			260	
M	450	SDP	Ship/Delivery Pattern	M	1		
	460	FST	Forecast Schedule	O	260		
			LOOP ID - SHP			25	
	470	SHP	Shipped/Received Information	O	1		
	480	REF	Reference Numbers	O	5		

Summary:

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

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

Segment:		**ST** Transaction Set Header		

Segment: **ST** Transaction Set Header

Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:	
Notes:	

Example: ST*830*000003

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ST01	143	**Transaction Set Identifier Code**	**M ID 3/3**
			Code uniquely identifying a Transaction Set	
			830 X12.14 Planning Schedule with Release Capability	
M	ST02	329	**Transaction Set Control Number**	**M AN 4/9**
			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 SE02.	

Segment:	**BFR** Beginning Segment for Planning Schedule			
Position:	020			
Loop:				
Level:	Heading			
Usage:	Mandatory			
Max Use:	1			
Purpose:	To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates			
Syntax Notes:	1	At least one of BFR02 or BFR03 is required.		
Semantic Notes:	1	If BFR01 equals ``04'' (Net Change), BFR09 is required.		
	2	BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.		
	3	BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins.		
	4	BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends.		
	5	BFR08 is the date forecast generated: The date the forecast data was generated.		
	6	BFR09 - date forecast updated: The date the forecast was updated with ``net change'' data. (Used only when element 353 in BFR04 equals ``04'', meaning net change.)		
Comments:				
Notes:				

Example: BFR*05**148*DL*A*960213*960322*960213

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	BFR01	353	**Transaction Set Purpose Code**	M ID 2/2
			Code identifying purpose of transaction set	
			00	Original	
			04	Change	
			05	Replace	
			08	Status	
	BFR02	127	**Reference Number**	C AN 1/30
			Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	
M	BFR03	328	**Release Number**	M AN 1/30
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
M	BFR04	675	**Schedule Type Qualifier**	M ID 2/2
			Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	
			DL	Delivery Based	
			SH	Shipment Based	
M	BFR05	676	**Schedule Quantity Qualifier**	M ID 1/1

Code identifying the type of quantities used when defining a schedule or forecast

      A   Actual Discrete Quantities

M	**BFR06**	**373**	**Date**		**M**	**DT 6/6**
			Date (YYMMDD)			
M	**BFR07**	**373**	**Date**		**M**	**DT 6/6**
			Date (YYMMDD)			
M	**BFR08**	**373**	**Date**		**M**	**DT 6/6**
			Date (YYMMDD)			

Segment:	# NTE Note/Special Instruction
Position:	030
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	100
Purpose:	To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:	
Semantic Notes:	
Comments:	1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Notes:	Example: NTE*GEN*ALL PLANTS WILL BE CLOSED JULY 3 THRU JULY 11N/1.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
NTE01	363	**Note Reference Code**	**O ID 3/3**
		Code identifying the functional area or purpose for which the note applies	
		Refer to 003040 Data Element Dictionary for acceptable code values.	
NTE02	3	**Free Form Message**	**O AN 1/60**
		Free-form text	

	Segment:	**N1** Name
	Position:	230
	Loop:	N1 Optional
	Level:	Heading
	Usage:	Optional
	Max Use:	1
	Purpose:	To identify a party by type of organization, name, and code
	Syntax Notes:	**1** At least one of N102 or N103 is required.
		2 If either N103 or N104 is present, then the other is required.
	Semantic Notes:	
	Comments:	**1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
		2 N105 and N106 further define the type of entity in N101.
	Notes:	

Example: N1*SU*XYZ COMPANY*92*21538

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N101	98	**Entity Identifier Code**	M	ID 2/2

Code identifying an organizational entity, a physical location, or an individual

BT		Bill-to-Party
IC		Intermediate Consignee
MI		Planning Schedule/Material Release Issuer
ST		Ship To
SU		Supplier/Manufacturer

	Ref. Des.	Data Element	Name		Attributes
M	N102	93	**Name**	M	AN 1/35

Free-form name

	Ref. Des.	Data Element	Name		Attributes
M	N103	66	**Identification Code Qualifier**	M	ID 1/2

Code designating the system/method of code structure used for Identification Code (67)

1		D-U-N-S Number, Dun & Bradstreet
92		Assigned by Buyer or Buyer's Agent

	Ref. Des.	Data Element	Name		Attributes
M	N104	67	**Identification Code**	M	AN 2/17

Code identifying a party or other code

Segment:	# N2 Additional Name Information

Position: 240

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: 2

Purpose: To specify additional names or those longer than 35 characters in length

Syntax Notes:

Semantic Notes:

Comments:

Notes: Example: N2*ANN ARBOR CENTER

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N201	**93**	**Name**	**O AN 1/35**
		Free-form name	
N202	**93**	**Name**	**O AN 1/35**
		Free-form name	

Segment: # N3 Address Information

Position:	250
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	2
Purpose:	To specify the location of the named party
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Example: N3*5100 W. WATERS

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N301	**166**	**Address Information**	**O AN 1/35**
		Address information	
N302	**166**	**Address Information**	**O AN 1/35**
		Address information	

Segment:	**N4** Geographic Location			

Position: 260

Loop: N1 Optional

Level: Heading

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.

Semantic Notes:

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

2 N402 is required only if city name (N401) is in the USA or Canada.

Notes:

Example N4*TAMPA*FL*33601*USA

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	19	**City Name**	O	AN 2/30
		Free-form text for city name		
N402	156	**State or Province Code**	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	**Postal Code**	O	ID 3/9
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
N404	26	**Country Code**	O	ID 2/3
		Code identifying the country		
N405	309	**Location Qualifier**	X	ID 1/2
		Code identifying type of location		
		Refer to 003040 Data Element Dictionary for acceptable code values.		
N406	310	**Location Identifier**	O	AN 1/30
		Code which identifies a specific location		

			Segment:	**LIN** Item Identification

Segment: **LIN** Item Identification

Position: 010
Loop: LIN   Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
1. If LIN04 is present, then LIN05 is required.
2. If LIN06 is present, then LIN07 is required.
3. If LIN08 is present, then LIN09 is required.
4. If LIN10 is present, then LIN11 is required.
5. If LIN12 is present, then LIN13 is required.
6. If LIN14 is present, then LIN15 is required.
7. If LIN16 is present, then LIN17 is required.
8. If LIN18 is present, then LIN19 is required.
9. If LIN20 is present, then LIN21 is required.
10. If LIN22 is present, then LIN23 is required.
11. If LIN24 is present, then LIN25 is required.
12. If LIN26 is present, then LIN27 is required.
13. If LIN28 is present, then LIN29 is required.
14. If LIN30 is present, then LIN31 is required.

Semantic Notes:
1. LIN01 is the line item identification

Comments:
1. See the Data Dictionary for a complete list of ID's.
2. LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Notes:

Example: LIN**BP*97-1000-2*PO*A00001*PD*BRACKET*EC*A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	LIN01	**350**	**Assigned Identification**	**O AN 1/11**
			Alphanumeric characters assigned for differentiation within a transaction set	
M	**LIN02**	**235**	**Product/Service ID Qualifier**	**M ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			BP Buyer's Part Number	
M	**LIN03**	**234**	**Product/Service ID**	**M AN 1/30**
			Identifying number for a product or service	
M	**LIN04**	**235**	**Product/Service ID Qualifier**	**M ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			PO Purchase Order Number	

M	LIN05	234	**Product/Service ID**	M	**AN 1/30**

Identifying number for a product or service

	LIN06	235	**Product/Service ID Qualifier**	O	**ID 2/2**

Code identifying the type/source of the descriptive number used in
Product/Service ID (234)

    PD   Part Number Description

	LIN07	234	**Product/Service ID**	O	**AN 1/30**

Identifying number for a product or service

	LIN08	235	**Product/Service ID Qualifier**	O	**ID 2/2**

Code identifying the type/source of the descriptive number used in
Product/Service ID (234)

    EC   Engineering Change Level

	LIN09	234	**Product/Service ID**	C	**AN 1/30**

Identifying number for a product or service

	LIN10	235	**Product/Service ID Qualifier**	O	**ID 2/2**

Code identifying the type/source of the descriptive number used in
Product/Service ID (234)

LIN10 thru LIN31 provide 10 additional pairs of Production/Service ID
Qualifier (235) and Product/Service ID (234).

Refer to 003040 Data Element Dictionary for acceptable code values.

Segment: # UIT Unit Detail

Position:	020
Loop:	LIN Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify item unit data
Syntax Notes:	1 If UIT03 is present, then UIT02 is required.
Semantic Notes:	
Comments:	
Notes:	Example: UIT*EA

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	UIT01	355	**Unit or Basis for Measurement Code**	M ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

EA	Each
LB	Pound

Segment:		**REF** Reference Numbers			

Segment: **REF** Reference Numbers

Position: 140

Loop: LIN   Mandatory

Level: Detail

Usage: Optional

Max Use: 12

Purpose: To specify identifying numbers.

Syntax Notes: 1   At least one of REF02 or REF03 is required.

Semantic Notes:

Comments:

Notes:

Example: REF*DK*6

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Number Qualifier**	M	ID 2/2
			Code qualifying the Reference Number.		
			DK Dock Number		
M	REF02	127	**Reference Number**	M	AN 1/30
			Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.		
	REF03	352	**Description**	C	AN 1/80
			A free-form description to clarify the related data elements and their content		

Segment:	**PER** Administrative Communications Contact
Position:	150
Loop:	LIN Mandatory
Level:	Detail
Usage:	Optional
Max Use:	3
Purpose:	To identify a person or office to whom administrative communications should be directed
Syntax Notes:	1 If either PER03 or PER04 is present, then the other is required.
	2 If either PER05 or PER06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	

Example: PER*EX*JOHN DOE*TE*3135551212*FX*8105551212

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PER01	**366**	**Contact Function Code**	**O ID 2/2**
		Code identifying the major duty or responsibility of the person or group named	
		EX Expeditor	
PER02	**93**	**Name**	**O AN 1/35**
		Free-form name	
PER03	**365**	**Communication Number Qualifier**	**O ID 2/2**
		Code identifying the type of communication number	
		TE Telephone	
PER04	**364**	**Communication Number**	**O AN 1/80**
		Complete communications number including country or area code when applicable	
PER05	**365**	**Communication Number Qualifier**	**O ID 2/2**
		Code identifying the type of communication number	
		FX Facsimile	
PER06	**364**	**Communication Number**	**O AN 1/80**
		Complete communications number including country or area code when applicable	

Segment: # ATH Resource Authorization

Position: 230
Loop: LIN   Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule
Syntax Notes:
1. At least one of ATH02 or ATH03 is required.
2. If ATH03 is present, then ATH05 is required.
3. If ATH04 is present, then ATH05 is required.

Semantic Notes:
1. ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.
2. ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02).
3. ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other.

Comments:
1. It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.
2. ATH04 - Maximum Cumulative Requirements Quantity: The maximum cumulative quantity that has been authorized to-date from the cumulative start -date (ATH05) through the resource authorization thru-date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.

Notes: Example: ATH*LM*960410*194400**960213

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
M ATH01	672	**Resource Authorization Code**		M ID 2/2
		Code identifying the resource which the buyer is authorizing the seller to commit to		
		LM	Labor and Material	
		MT	Material	
		PQ	Cumulative Quantity Required Prior to First Schedule Period	
M ATH02	373	**Date**		M DT 6/6
		Date (YYMMDD)		
M ATH03	380	**Quantity**		M R 1/15
		Numeric value of quantity		
ATH04	380	**Quantity**		O R 1/15

Numeric value of quantity

M   **ATH05**   **373**   **Date**   **M**   **DT 6/6**

Date (YYMMDD)

Segment:	**SDP** Ship/Delivery Pattern
Position:	450
Loop:	SDP Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify specific ship/delivery requirements
Syntax Notes:	
Semantic Notes:	
Comments:	1 The intent of this segment is to define the routine ship or delivery patterns, as required, when order quantities are in "buckets", such as weekly, monthly. Ship/delivery patterns eliminate the need to transmit discrete quantities and dates for each required shipment or delivery. It is assumed that a "bucketed" quantity is to be divided equally by the ship/delivery pattern. For example, a weekly quantity of 100 with a delivery pattern of Monday and Wednesday would result in 50 to be delivered on Monday and 50 to be delivered on Wednesday.
Notes:	Example: SDP*Y*Y

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	SDP01	678	**Ship/Delivery or Calendar Pattern Code**	M ID 1/2
			Code which specifies the routine shipments, deliveries, or calendar pattern	
			Refer to 003040 Data Element Dictionary for acceptable code values.	
M	SDP02	679	**Ship/Delivery Pattern Time Code**	M ID 1/1
			Code which specifies the time for routine shipments or deliveries	
			A 1st Shift (Normal Working Hours)	
			F As Directed	
			G Any Shift	
			Y None (Also Used to Cancel or Override a Previous Pattern)	

Segment:	**FST** Forecast Schedule				

Segment: **FST** Forecast Schedule

Position:	460
Loop:	SDP Mandatory
Level:	Detail
Usage:	Optional
Max Use:	260
Purpose:	To specify the forecasted dates and quantities
Syntax Notes:	1 If either FST06 or FST07 is present, then the other is required.
	2 If either FST08 or FST09 is present, then the other is required.
Semantic Notes:	1 If FST03 - "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval.
Comments:	1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly, quarterly, etc.) or the start date of a flexible interval.
	2 FST06 - To qualify time in FST07. The purpose of the FST07 element is to express the specific time of day in a 24-hour clock, to satisfy "just-in-time" requirements. As an alternative, the ship/delivery pattern segment (SDP) may be used to define an approximate time, such as "AM" or "PM".
Notes:	Example: FST*1152*D*D*960214

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	FST01	380	**Quantity**	**M R 1/15**
			Numeric value of quantity	
M	FST02	680	**Forecast Qualifier**	**M ID 1/1**
			Code specifying the sender's confidence level of the forecast data or an action associated with a forecast	

	A	Immediate
	B	Pilot/Prevolume
	C	Firm
	D	Planning
	P	Prototype
	S	Strike Protection
	Z	Mutually Defined

	Ref. Des.	Data Element	Name	Attributes
M	FST03	681	**Forecast Timing Qualifier**	**M ID 1/1**
			Code specifying interval grouping of the forecast	

	D	Discrete
	F	Flexible Interval (from Date X through Date Y)
	M	Monthly Bucket (Calendar Months)
	W	Weekly Bucket (Monday through Sunday)

			Z	Mutually Defined		
M	**FST04**	**373**	**Date**		**M**	**DT 6/6**
			Date (YYMMDD)			
	FST05	**373**	**Date**		**O**	**DT 6/6**
			Date (YYMMDD)			

Segment:	**SHP** Shipped/Received Information
Position:	470
Loop:	SHP Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify shipment and/or receipt information

Syntax Notes:
1. If SHP01 is present, then SHP02 is required.
2. If SHP04 is present, then SHP03 is required.

Semantic Notes:
1. SHP04 is the date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).
2. SHP06 is the cumulative quantity end date.

Comments:
1. The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.
2. If SHP01 = "02", "07", "08", "09", or "10" (indicating cumulative quantities), then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.

Notes: Example: SHP*01*1*050*961219

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
SHP01	**673**	**Quantity Qualifier**	O	**ID 2/2**
		Code specifying the type of quantity		
		01 Discrete Quantity		
		02 Cumulative Quantity		
SHP02	**380**	**Quantity**	O	**R 1/15**
		Numeric value of quantity		
SHP03	**374**	**Date/Time Qualifier**	O	**ID 3/3**
		Code specifying type of date or time, or both date and time		
		Refer to 003040 Data Element Dictionary for acceptable code values.		
SHP04	**373**	**Date**	O	**DT 6/6**
		Date (YYMMDD)		
SHP06	**373**	**Date**	O	**DT 6/6**
		Date (YYMMDD)		

Segment:	**REF** Reference Numbers			
Position:	480			
Loop:	SHP	Optional		
Level:	Detail			
Usage:	Optional			
Max Use:	5			
Purpose:	To specify identifying numbers.			
Syntax Notes:	1 At least one of REF02 or REF03 is required.			
Semantic Notes:				
Comments:				
Notes:				

Example: REF*SI*768696

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	REF01	**128**	**Reference Number Qualifier**	**O ID 2/2**

Code qualifying the Reference Number.

IT	Internal Customer Number
SI	Shipper's Identifying Number for Shipment (SID)

A unique number (to the shipper) assigned by the shipper to identify the shipment

	Ref. Des.	Data Element	Name	Attributes
M	**REF02**	**127**	**Reference Number**	**M AN 1/30**

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

			Segment:	**CTT** Transaction Totals

Segment: **CTT** Transaction Totals

Position: 010

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

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

Syntax Notes: 1 If CTT03 is present, then CTT04 is required.

  2 If CTT05 is present, then CTT06 is required.

Semantic Notes:

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

Notes: Example: CTT*1*3168

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	CTT01	354	**Number of Line Items**	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	**Hash Total**	O R 1/10

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.

	Segment:	**SE** Transaction Set Trailer

Segment: **SE** Transaction Set Trailer

Position: 020

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic Notes:

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

Notes:

Example: SE*28*000003

Data Element Summary

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