830 Planning Schedule with Release Capability

Functional Group ID= ${\bf PS}$

Introduction:

This ANSI X.12 Version 004010 Standard 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.

Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
			LOOP ID - N1			200	
M	230	N1	Name	M	1		

Detail:

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

Summary:

Pos. Seg		Seg.		Req.		Loop	Notes and	
	<u>No.</u>	<u>ID</u>	<u>Name</u>	Des.	Max.Use	Repeat	Comments	
	010	CTT	Transaction Totals	O	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

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

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:

	Ref.	Data				
	Des.	Element	<u>Name</u>	Attr	<u>ibutes</u>	
M	ST01	143	Transaction Set Identifier Code	M	ID 3/3	
			Code uniquely identifying a Transaction Set			
			830 Transaction Set			
			Refer to 004010 Data Element Dictionary for acceptable code	e valu	es.	
M	ST02	329	Transaction Set Control Number	\mathbf{M}	AN 4/9	
			Identifying control number that must be unique within the tra functional group assigned by the originator for a transaction s		on set	
			Number Assigned by Sender			

Segment: BFR Beginning Segment for Planning Schedule

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

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: Semantic Notes:

- 1 At least one of BFR02 or BFR03 is required.
- 1 If BFR01 contains the value "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 is the date forecast updated: The date the forecast was updated with "net change" data. (Used only when data element 353 in BFR01 contains the value "04", meaning net change.)

Comments:

Notes:

BOSCH Purpose: Indicate to Supplier that this is a "Replacement Document" which supercedes previously issued material releases, is "Delivery Based" and contains forecast quantities which are "Discrete".

			Data Element Summary		
M	Ref. <u>Des.</u> BFR01	Data Element 353	Name Transaction Set Purpose Code		ributes ID 2/2
			Code identifying purpose of transaction set		
			Always "05" indicating a "Replacement Document"		
			Refer to 004010 Data Element Dictionary for acceptable code	valu	ies.
M	BFR03	328	Release Number	M	AN 1/30
			Number identifying a release against a Purchase Order previo parties involved in the transaction	•	
			A constructed value in the format of CCYYWW used to ident cycle of the material release process.	ify tl	
M	BFR04	675	Schedule Type Qualifier	M	ID 2/2
			Code identifying the type of dates used when defining a shipp time in a schedule or forecast Always "DL" indicating a "Delivery Based" schedule.	ing c	or delivery
			Refer to 004010 Data Element Dictionary for acceptable code	valu	ies.
M	BFR05	676	Schedule Quantity Qualifier	M	ID 1/1
			Code identifying the type of quantities used when defining a s forecast	ched	lule or
			Always "A" indicating "Discrete" forecast quantities.		
			Refer to 004010 Data Element Dictionary for acceptable code		
M	BFR06	373	Date	M	DT 8/8
			Date expressed as CCYYMMDD		
			"Forecast Horizon Start Date" on the first FST segment in this		
	BFR07	373	Date	O	DT 8/8
			Date expressed as CCYYMMDD		
			"Forecast Horizon End Date" on the last FST segment in this		
M	BFR08	373	Date	M	DT 8/8
			Date expressed as CCYYMMDD		
			Date when this material release was "Created".		

Segment:

Position: 230

> Loop: N1 Mandatory

Level: Heading Usage: Mandatory

Max Use:

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

Syntax Notes: At least one of N102 or N103 is required.

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.

N105 and N106 further define the type of entity in N101.

Notes:

BOSCH Purpose: Provide one N1 segment identifying the Bosch Plant issuing the material release, one N1 segment to identifying the Supplier receiving the material release, and one N1 segment to identifying the Ship-to location of the material release.

Data Element Summary									
	Ref.	Data							
3.5	Des.	Element	Name		Attributes				
M	N101	98	Entity Identifier Code		M ID 2/3				
			Code identifying an organizational	entity, a physical location,	property or an				
			individual						
			"MI" indicates a Bosch Plant						
			"SU" indicates a Supplier "ST" indicates a Ship-to Bosch Pla	nt					
			Refer to 004010 Data Element Dict		values				
	N102	93	Name	tionary for acceptable code	X AN 1/60				
	11102	75	Free-form name		11111/00				
			Name of Bosch Plant or Supplier as	s indicated in N101					
			CHANGE: was type "AN" 1/35.	indicated in 1(101					
	N103	66	Identification Code Qualifier		X ID 1/2				
	11103	UU	_	. 4 . 6 4					
			Code designating the system/methol Code (67)	od of code structure used fo	i identification				
			Always "1" for DUNS Number. N	ote: DUNS Numbers for m	ost Bosch plants				
			contain a suffix character of "S".		F				
			Refer to 004010 Data Element Dict	tionary for acceptable code	values.				
	N104	67	Identification Code		X AN 2/80				
			Code identifying a party or other co	ode					
			DUNS Number of entity indicated	in N101. When N101 is a	value of "MI" or				
			"ST", the DUNS Number indicates	a specific Bosch Plant as f	ollows:				
			ВЈКС	is 199201120S					
			Clarksville	is 603548645S					
				is 131052888S					
				is 098070360S					
			San Louis Potosi	is 820046613S					
			St. Joseph	is 141261651S					
			Sumter	is 024844094S					
			Albion	is 809500267					
			Anderson	is 144845757					
			Appian Way	is 188243620					
			Charleston El Paso	is 065055766					
			El Paso	is 133272877					

is 811963602

Toluca is 810248898 Laredo is 049008055 Aguascalientes is 812047470 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 either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: Comments:

- 1 LIN01 is the line item identification
- See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

BOSCH Purpose: Indicates to the Supplier the Bosch Part Number and Scheduling Agreement covered by this material release.

			Zutu Ziement Summary		
	Ref.	Data	N	A 44	•1 4
M	<u>Des.</u> LIN02	Element 235	Name Product/Service ID Qualifier		<u>ibutes</u> ID 2/2
IVI	LINUZ	235	-		•
			Code identifying the type/source of the descriptive number us Product/Service ID (234)	ea in	
			Always "BP" indicating a buyer(Bosch) part number.		
			Refer to 004010 Data Element Dictionary for acceptable code	valu	ies
M	LIN03	234	Product/Service ID		AN 1/48
171	LINUS	234	Identifying number for a product or service	141	AN 1/40
	T TNIO	225	Buyer's (Bosch) part number.	3 7	ID 2/2
	LIN06	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number us Product/Service ID (234)	ed in	
			"DR" indicating a Bosch Drawing Revision number.		
			Refer to 004010 Data Element Dictionary for acceptable code	valu	ies.
	LIN07	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
			Bosch Drawing Revision number.		
	LIN08	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number us Product/Service ID (234)	ed in	
			Always "PO" indicating a Bosch Scheduling Agreement number	ber.	
			Refer to 004010 Data Element Dictionary for acceptable code		ies.
	LIN09	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
			· ·		

Bosch Scheduling Agreement number.

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: BOSCH Purpose: Indicate to Supplier the unit of measure used when forecasting

quantities.

	Ref.	Data		
	Des.	Element	<u>Name</u>	<u>Attributes</u>
M	UIT01	C001	Composite Unit of Measure	M
			To identify a composite unit of measure (See Figures Appen of use)	dix for examples
			"PC" for a sales unit of "Pieces".	
			"EA" for a sales unit of "Each".	
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code	

Segment: PRS Part Release Status

Position: 130

Loop: LIN Mandatory

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To indicate the status of the part being ordered or forecast with respect to this material

release or planning document

Syntax Notes: Semantic Notes: Comments:

			Data Element Summary		
	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ibutes</u>
M	PRS01	682	Part Release Status Code	\mathbf{M}	ID 1/2
			Code identifying the status of the specific part number being	releas	sed or
			forecast or being used in an engineering change		
			Refer to 004010 Data Element Dictionary for acceptable cod	e valu	ies.

Segment: REF Reference Identification

Position: 140

Loop: LIN Mandatory

Level: Detail
Usage: Optional
Max Use: 12

Purpose: To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier		ributes ID 2/3
			Code qualifying the Reference Identification		
			"DK" indicating a Bosch Dock Code.		
			Refer to 004010 Data Element Dictionary for acceptable code	valu	ies.
	REF02	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	Set o	or as
			Bosch Dock Code Location.		

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.

3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

Notes: BOSCH Purpose: Provide Supplier with identity of a Bosch Department or Person to

contact regarding this material release.

	Ref.	Data	·		
	Des.	Element	<u>Name</u>		<u>ributes</u>
M	PER01	366	Contact Function Code	M	ID 2/2
			Code identifying the major duty or responsibility of the person	n or	group named
			"BD" indicates that the PER segment identifies a "Departmen "EX" indicates that the PER segment indentifies a "Person" as	s the	contact.
			Refer to 004010 Data Element Dictionary for acceptable code	valu	ies.
	PER02	93	Name	O	AN 1/60
			Free-form name		
			Department or Person as indicated by PER01.		
	PER03	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		
			Used only when contact indicated in PER01 is a person. Then	n alw	ays "TE" to
			indicate telephone number.		
			Refer to 004010 Data Element Dictionary for acceptable code	: valı	ies.
	PER04	364	Communication Number	\mathbf{X}	AN 1/80
			Complete communications number including country or area applicable	code	when
			Used only when contact indicated in PER01 is a person. The telephone number of the contact person.	n val	ue is the

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.
- 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:

- It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.
- 2 ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through 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:

ATH03

380

Quantity

BOSCH Purpose: Indicate to Supplier, using cumulative quantities, current authorization for fabrication and raw material purchases for this part and required delivery of this part to the Bosch Plant issuing this release.

			Data Element Summary				
	Ref.	Data					
	Des.	Element	<u>Name</u>	<u>Attributes</u>			
M	ATH01	672	Resource Authorization Code	M ID 2/2			
			Code identifying the resource which the buyer is authorizing the seller to commit to "PQ" indicates "Cumulative Quantity Required" at the issuing Bosch plant prior to the date (FST04) on the first FST segment included in this material release. "FI" indicates "Cumulative Fabrication Quantity Authorized" or "Finished Goods" depending on the Bosch plant. "Cumulative Fabrication Quantity Authorized" by the issuing Bosch plant calculated by adding quantities in the first five (5) FST segments of this material release to the quantity located in				
			ATH segment qualified by "PQ". "MT" indicates "Cumulative Raw Material Quantity Authoriz depending on the Bosch plant. "Cumulative Raw Material Quantity Authorized" by the issuing Bosch plant calculated by adding first nine (9) FST segments of this material release to quantity ATH segment that is qualified by "PQ". Refer to 004010 Data Element Dictionary for acceptable code	nutity quantities in the located in the			
	ATH02	373	Date	X DT 8/8			
	111102	010	Date expressed as CCYYMMDD	11 21 0/0			
				rologgo which is			
			The Monday date of the first week forecasted by this material the "Forecast Horizon" start date or the Date through which "I cum.				

X R 1/15

Numeric value of quantity

The "Cumulative Quantity" as indicated by the qualifier located in ATH01.

ATH05 373 Date X DT 8/8

Date expressed as CCYYMMDD

Date indicates the start date for cumulative quantites located in ATH03 and is the date that the scheduling agreement covering this part number became valid.

SDP Ship/Delivery Pattern **Segment:**

Position: 450

> SDP Loop: Optional

Level: Detail Usage: Optional

Max Use: **Purpose:**

To identify specific ship/delivery requirements

Syntax Notes: Semantic Notes:

Comments:

The intent of this segment is to define the routine ship or delivery patterns, as 1 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:

BOSCH Purpose: Indicate to Supplier that for this material release the delivery pattern is "Monday to Friday" or the timing is "As Directed".

	Ref.	Data	·		
	Des.	Element	<u>Name</u>	<u>Attributes</u>	
M	SDP01	678	Ship/Delivery or Calendar Pattern Code	M ID 1/2	
			Code which specifies the routine shipments, deliveries, or calc	ndar pattern	
			"A" indicating Shipment/Delivery Pattern of "Monday to Friday".		
			"N" indicating Shipment/Delivery Timing of "As Directed". Refer to 004010 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		
	Always "F" indicating Shipment/Delivery Timing of "As Directed".			cted".	
			Refer to 004010 Data Element Dictionary for acceptable code values.		

FST Forecast Schedule **Segment:**

Position: 460

> Loop: **SDP Optional**

Level: Detail Usage: Optional Max Use: 260

Purpose:

To specify the forecasted dates and quantities

If either FST06 or FST07 is present, then the other is required. **Syntax Notes:**

If either FST08 or FST09 is present, then the other is required.

Semantic Notes: If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are 1

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.

FST06 qualifies the 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 a.m. or p.m.

BOSCH Purpose: Indicate to Suppliers the forecasted order quantities for a part with the Notes: forecasted quantities differentiated as "Firm" or "Planned" quantities.

	Ref. Des.	Data <u>Element</u>	Name	Attr	ributes	
M	FST01	380	Quantity	M	R 1/15	
			Numeric value of quantity			
			Forecast quantity for this part number for the week indicated	by da	te in FST04.	
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			
			"C" indicates "Firm Quantities".			
			"D" indicates "Planned Quantities". Refer to 004010 Data Element Dictionary for acceptable code values.			
M	FST03	681	Forecast Timing Qualifier		ID 1/1	
IVI	15105	001	Code specifying interval grouping of the forecast	141	10 1/1	
			"W" indicating "Weekly" forecasts.			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
M	FST04	373	Date		DT 8/8	
			Date expressed as CCYYMMDD			
			Value is the date of the Monday of the "Week" to which the forecast applies.			
	FST08	128	Reference Identification Qualifier	X	ID 2/3	
			Code qualifying the Reference Identification			
			"DO" indicates Delivery Order Number			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
	FST09	127	Reference Identification	X	AN 1/30	
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			Bosch's Reference Number			

Segment: SHP Shipped/Received Information

Position: 470

Comments:

Notes:

Loop: SHP Optional

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify shipment and/or receipt informationSyntax Notes: 1 If SHP01 is present, then SHP02 is required.

2 If SHP03 is present, then at least one of SHP04 or SHP05 is required.

3 If SHP04 is present, then SHP03 is required.4 If SHP05 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.

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 equals "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.

BOSCH Purpose: Provide Supplier with (1) cumulative quantity information about shipments received from the Supplier by the issuing Bosch Plant as of the date this material release was created, (2) provide specific information about the last four (4) shipments received from the Supplier by the issuing Bosch Plant including date and "Discrete" quantities for individual shipments and (3) provide a discrete quantity indicating a "Past Due" amount as determined by systems supporting the issuing Bosch plant.

Data Element Summary

Ref.	Data		
Des.	Element	<u>Name</u>	<u>Attributes</u>
SHP01	673	Ouantity Oualifier	O ID 2/2

Code specifying the type of quantity

Value of "01" indicates a "Discrete" quantity in SHP02. With this qualifier, the SHP segment is used to convey "Date and Discrete Quantity" information for up to the last four (4) shipments received.

Value of "02" indicates a "Cumulative" quantity in SHP02. With this qualifier, the SHP segment is used to convey the "Cumulative Quantity" received since the scheduling agreement became valid. This cumulative quantity includes all quantities on SHP segments qualified with "01" in SHP01 that were sent with this material release.

Value of "64" indicates a Discrete "Past Due" quantity in SHP02. With this qualifier, the SHP segment conveys to the Supplier the quantity of this part number that is "Over Due" as of the date this release was created. NOTE: The quantity in SHP02 associated with this qualifier will always be "Zero" or a "Positive" number and never a "Negative" number.

NOTE: It is the Supplier's responsibility to manage "In-Transit" amounts as part of reconciling "Required" and "Past Due" amounts.

Refer to 004010 Data Element Dictionary for acceptable code values.

SHP02 380 Quantity X R 1/15

Numeric value of quantity

Value is a cumulative or discrete quantity as indicated by qualifier in SHP01.

X ID 3/3

SHP03 374 Date/Time Qualifier

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

Value of "050" indicates Date "Received" Value of "051" indicates "Cumulative Start Date"

and is used with SHP segments qualified by SHP01 values of "01" or

"02".

Value of "600" indicates an "As Of" Date and is used with the SHP segment qualified by a SHP01 value of "64". Indicates the date when the "Past Due" calculation was performed.

Refer to 004010 Data Element Dictionary for acceptable code values.

SHP04 373 Date X DT 8/8

Date expressed as CCYYMMDD

For "01" as the SHP01 qualifer value, this date indicates the "Received Date" of the "Discrete Quantity" of the individual Shipment identified by this SHP segment.

For "02" as the SHP01 qualifer value, this date indicates the "Start Date" for the current "Cumulative Quantities" being tracked which is the same as the start date when the scheduling agreement became valid.

SHP06 373 Date O DT 8/8

Date expressed as CCYYMMDD

Used only when SHP01 is "02" to indicate the "Forecast Horizon Start" date.

Segment: REF Reference Identification

Position: 480

Loop: SHP Optional

Level: Detail
Usage: Optional
Max Use: 5

Purpose: To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: BOSCH Purpose: Indicate to Suppliers the ASN/shipper number.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier		ributes ID 2/3
			Code qualifying the Reference Identification		
			"SI" indicate to Suppliers a "Shipper Number".		
			Refer to 004010 Data Element Dictionary for acceptable code	e valu	ies.
	REF02	127	Reference Identification	\mathbf{X}	AN 1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	Set o	or as
			Indicate to Suppliers the ASN/Shipper Number.		

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Optional

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.

Semantic Notes:

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

and correctness.

Data Element Summary

	Kei.	Data		
	Des.	Element	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items	M N0 1/6

Total number of line items in the transaction set

SE Transaction Set Trailer **Segment:**

Position: 020

Loop:

Level: Summary Usage: Mandatory

Max Use:

To indicate the end of the transaction set and provide the count of the transmitted **Purpose:**

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

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

M	Ref. <u>Des.</u> SE01	Data Element 96	Name Number of Included Segments	Attr M	ributes N0 1/10
M	CEO2	220	Total number of segments included in a transaction set include segments		
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the tra functional group assigned by the originator for a transaction s		AN 4/9 ion set