



THE MANUFACTURING CLOUD

## Plex Systems

IMPLEMENTATION GUIDELINES FOR  
ANSI X12 EDI CONVENTIONS

862 TRANSACTION SET  
MATERIAL RELEASE

Version 004010

Revised September 10, 2019

## 862 Ship Schedule

Functional Group ID=DL

This Standard contains the format and establishes the data contents of the Shipping Schedule Transaction Set (862) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a customer to convey precise shipping schedule requirements to a supplier, and is intended to supplement the planning schedule transaction set (830). The shipping schedule transaction set will supersede certain shipping and delivery information transmitted in a previous planning schedule transaction, but it does not replace the 830 transaction set. The shipping schedule transaction set shall not be used to authorize labor, materials or other resources. The use of this transaction set will facilitate the practice of Just-In-Time (JIT) manufacturing by providing the customer with a mechanism to issue precise shipping schedule requirements on a more frequent basis than with the issuance of a planning schedule transaction, e.g., daily shipping schedules versus weekly planning schedules. The shipping schedule transaction also provides the ability for a customer location to issue shipping requirements independent of other customer locations when planning schedule transactions are issued by a consolidated scheduling organization.

### Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			
020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1			Must use
030	DTM	Date/Time Reference	O	10			
<b>LOOP ID - N1</b>					<b>200</b>		
050	N1	Name	O	1			Used
090	REF	Reference Numbers	O	12			Used
100	PER	Administrative Contact	O	3			Used

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - LIN</b>					<b>10000</b>		
010	LIN	Item Identification	M	1			Must use
020	UIT	Unit Detail	M	1			Must use
030	PKG	Marking, Packing, Loading	O	>1			Used
040	PO4	Item Physical Details	O	>1			Used
090	REF	Reference Numbers	O	12			Used
<b>LOOP ID - FST</b>					<b>100</b>		
080	FST	Forecast Schedule	O	1			Must Use
<b>LOOP ID - JIT</b>					<b>100</b>		
110	JIT	Just-In-Time Schedule	O	1			Used
120	REF	Reference Numbers	O	>1			
<b>LOOP ID - SHP</b>					<b>10</b>		
140	SHP	Shipped/Received Information	O	1			Used
150	REF	Reference Identification	O	12			Used

### Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	M	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Used

**Notes:**

3/010 The number of lines items (CTT01) is the accumulation of number of LIN segments.

<b>Revision History</b>	
<b>Date</b>	<b>Change</b>
9/11/2018	Correct SHP05 to SHP06
7/9/2019	Correct LIN element counters
9/10/2019	Add UIT02 Unit Price

**BSS****Beginning Segment for Shipping Schedule/Production Sequence**

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

**User Option (Usage):** Must use

To transmit identifying numbers, dates, and other basic data relating to the transaction set

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSS01	353	<b>Transaction Set Purpose Code</b> <b>Description:</b> Code identifying purpose of transaction set	M	ID	2/2	Must use
		<b>Code</b> <b>Name</b>				
		00                Original				
		05                Replacement				
BSS02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
BSS03	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
		Generated Date				
BSS04	675	<b>Schedule Type Qualifier</b> <b>Description:</b> Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	M	ID	2/2	Must use
		<b>Code</b> <b>Name</b>				
		DL                Delivery Based				
		SH                Shipment Based				
BSS05	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
		Start Date				
BSS06	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
		End Date				
BSS07	328	<b>Release Number</b>	X	AN	1/30	Used
BSS11	676	<b>Schedule Quantity Qualifier</b> Code A – Actual Discrete Quantities D – Net Change Quantities R – Replacement Quantities	O	ID	1/1	Used

**Semantics:**

1. Use BSS02 to indicate a document number.
2. Use BSS03 to indicate the date of this document.
3. Use BSS05 to indicate the schedule horizon start date (the date when the schedule begins).
4. Use BSS06 to indicate the schedule horizon end date (the date when the schedule ends).

**DTM****Date/Time Reference**

Pos: 030	Max: 10
Heading - Optional	
Loop: N/A	Elements: 3

**User Option (Usage):** Used

To specify pertinent dates and times.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	3/3	Used
		<b>Code</b> <b>Name</b>				
		102                      Issue Date				
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM02	373	<b>Date</b> <b>Description:</b> CCYYMMDD	C	DT	8/8	Used
DTM03	337	<b>Time</b>	C	TM	4/8	Used

**N1****Name**

Pos: 050	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

**User Option (Usage):** Used

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SU</td> <td>Supplier/Manufacturer</td> </tr> <tr> <td>ST</td> <td>SHIP TO</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SU	Supplier/Manufacturer	ST	SHIP TO				
<u>Code</u>	<u>Name</u>											
SU	Supplier/Manufacturer											
ST	SHIP TO											
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N102	93	<b>Name</b> <b>Description:</b> Free-form name	C	AN	1/60	Used						
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>01</td> <td>D-U-N-S Number, Dun &amp; Bradstreet</td> </tr> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	01	D-U-N-S Number, Dun & Bradstreet	92	Assigned by Buyer or Buyer's Agent				
<u>Code</u>	<u>Name</u>											
01	D-U-N-S Number, Dun & Bradstreet											
92	Assigned by Buyer or Buyer's Agent											
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/80	Used						

**Syntax:**

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104 is present, then all are required

**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.

**REF****Reference Identification**

Pos: 090	Max: 12
Detail - Optional	
Loop: N1	Elements: 2

**User Option (Usage):** Optional

To specify identifying information

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code</b> <b>Name</b> DK                              Dock Number				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

**Syntax:**

1. R0203 - At least one of REF02,REF03 is required



**PER****Administrative Contact**

Pos: 100	Max: 3
Heading - Optional	
Loop: N1	Elements: 4

**User Option (Usage):** Used

To identify a person or office to whom communications should be directed.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	<b>Contact Function Code</b> <b>Description:</b> Code identifying the responsibility of the person named.	M	ID	2/2	Used
		<b>Code</b> <b>Name</b> SU                    Supplier Contact				
PER02	93	<b>Name</b> <b>Description:</b> Free-form name	O	AN	1/35	
PER03	365	<b>Communications Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number	X	ID	2/2	
		<b>Code</b> <b>Name</b> TE                    Telephone				
PER04	364	<b>Communications Number</b>	X	AN	1/80	

<b>LIN</b>	<b>Item Identification</b>	<b>Pos: 010</b> <span style="float: right;"><b>Max: 1</b></span> <b>Detail - Mandatory</b> <b>Loop: LIN</b> <span style="float: right;"><b>Elements: 12</b></span>
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**User Option (Usage):** Must use

To specify basic item identification data

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
LIN01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used						
LIN02	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table style="width: 100%; border: none;"><tr><td style="width: 15%;"><u>Code</u></td><td style="width: 15%;"><u>Name</u></td><td></td></tr><tr><td>BP</td><td>Buyer's Part Number</td><td></td></tr></table>	<u>Code</u>	<u>Name</u>		BP	Buyer's Part Number		M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>											
BP	Buyer's Part Number											
LIN03	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	M	AN	1/48	Must use						
LIN04	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table style="width: 100%; border: none;"><tr><td style="width: 15%;"><u>Code</u></td><td style="width: 15%;"><u>Name</u></td><td></td></tr><tr><td>EC</td><td>Engineering Change Level</td><td></td></tr></table>	<u>Code</u>	<u>Name</u>		EC	Engineering Change Level		O	ID	2/2	Used
<u>Code</u>	<u>Name</u>											
EC	Engineering Change Level											
LIN05	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used						
LIN06	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table style="width: 100%; border: none;"><tr><td style="width: 15%;"><u>Code</u></td><td style="width: 15%;"><u>Name</u></td><td></td></tr><tr><td>PO</td><td>Purchase Order Number</td><td></td></tr></table>	<u>Code</u>	<u>Name</u>		PO	Purchase Order Number		M	AN	2/2	Used
<u>Code</u>	<u>Name</u>											
PO	Purchase Order Number											
LIN07	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used						
LIN08	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table style="width: 100%; border: none;"><tr><td style="width: 15%;"><u>Code</u></td><td style="width: 15%;"><u>Name</u></td><td></td></tr><tr><td>PD</td><td>Product Description</td><td></td></tr></table>	<u>Code</u>	<u>Name</u>		PD	Product Description		O	ID	2/2	Used
<u>Code</u>	<u>Name</u>											
PD	Product Description											
LIN09	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used						

LIN10	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	O	ID	2/2	Used
		<u>Code</u> VP		<u>Name</u> Vendor's (Seller's) Part Number		
LIN11	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN12	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	O	ID	2/2	Used
		<u>Code</u> PL		<u>Name</u> Purchase Order Line Number		
LIN13	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used

**Syntax:**

1. P0405 - If either LIN04,LIN05 is present, then all are required
2. P0607 - If either LIN06,LIN07 is present, then all are required
3. P0809 - If either LIN08,LIN09 is present, then all are required
4. P1011 - If either LIN10,LIN11 is present, then all are required
5. P1213 - If either LIN12,LIN13 is present, then all are required
6. P1415 - If either LIN14,LIN15 is present, then all are required
7. P1617 - If either LIN16,LIN17 is present, then all are required
8. P1819 - If either LIN18,LIN19 is present, then all are required
9. P2021 - If either LIN20,LIN21 is present, then all are required
10. P2223 - If either LIN22,LIN23 is present, then all are required
11. P2425 - If either LIN24,LIN25 is present, then all are required
12. P2627 - If either LIN26,LIN27 is present, then all are required
13. P2829 - If either LIN28,LIN29 is present, then all are required
14. P3031 - If either LIN30,LIN31 is present, then all are required

**Semantics:**

1. LIN01 is the line item identification

**Comments:**

1. 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.

# UIT

## Unit Detail

Pos: 020	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 1

**User Option (Usage):** Must use

To specify item unit data

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
UIT01	355	<b>Unit or Basis of Measurement Code</b> <b>Description:</b> To identify a composite unit of measure.	M	ID	2/2	Must Use
UIT02	212	<b>Unit Price</b> <b>Description:</b> Price of a single unit.	X	R	1/14	Used

**PKG****Marking, Packing, Loading**

Pos: 030	Max: >1
Detail - Optional	
Loop: LIN	Elements: 1

**User Option (Usage):** Optional

To describe marking, packing and loading requirements.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PKG01	349	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	C	ID	1/1	Must use
		<u>Code</u> <u>Name</u> F                    Free-form				
PKG02	753	<b>Packaging Characteristic Code</b> <b>Description:</b> Code specifying the marking, packaging, loading and related characteristics being described.	O	ID	1/5	Used
		<u>Code</u> <u>Name</u> 35                  Type of Package				
PKG03	559	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values.	C	ID	2/2	Not Used
PKG04	754	<b>Packaging Description Code</b> <b>Description:</b> A code from an industry code list which provides specific data about the marking, packing or loading of a product.	C	AN	1/7	Not Used
PKG05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content.	M	AN	1/80	Must use
		Packaging				

**Syntax:**

1. Either PKG04 or PKG05 is required. If PKG04 is present, PKG03 is required.

# PO4

## Item Physical Details

Pos: 040	Max: >1
Detail - Optional	
Loop: LIN	Elements: 1

User Option (Usage): Used

To specify their physical quantities, packaging, weights and dimensions relating to the item.

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	<b>Pack</b> <b>Description:</b> Number of inner pack units per outer pack unit	O	N0	1/6	Not Used
PO402	357	<b>Size</b> <b>Description:</b> Size of supplier unit in pack.	O	N0	1/8	Used
PO403	355	<b>Unit of Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	X	ID	2/2	Used

### Syntax:

1. If PO402 is present, then PO403 is required.

**REF****Reference Identification**

Pos: 050	Max: 12
Detail - Optional	
Loop: LIN	Elements: 2

**User Option (Usage):** Optional

To specify identifying information

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code</b> <b>Name</b>				
		DK                Dock Number				
		KB                Beginning Kanban Number				
		KE                Ending Kanban Number				
		LF                Assembly Line Feed Location				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

**Syntax:**

1. R0203 - At least one of REF02,REF03 is required

# FST Forecast Schedule

Pos: 080	Max: 1
Detail - Mandatory	
Loop: LIN/FST	Elements: 4

User Option (Usage): Used

To specify the forecasted dates and quantities.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FST01	380	<b>Quantity</b> Description: Numeric value of quantity	M	R	1/15	Used
FST02	680	<b>Forecast Qualifier</b> Description: Code specifying the sender's confidence level of the forecast data.  <u>Code</u> <u>Name</u> C                  Firm	C	R	1/15	Used
FST03	681	<b>Forecast Timing Qualifier</b> Description: Code specifying interval grouping of data  <u>Code</u> <u>Name</u> C                  Daily D                  Discrete	C	ID	3/3	Used
FST04	373	<b>Date</b> Description: Delivery Date expressed as CCYYMMDD	C	DT	8/8	Used
FST05	373	<b>Date</b>	O	DT	8/8	Not Used
FST06	374	<b>Date/Time Qualifier</b>	X	ID	3/3	Not Used
FST07	337	<b>Time</b>	X	TM	4/8	Not Used
FST08	128	<b>Reference Number Qualifier</b> Description: Code Qualifying the Reference Number  DO – Delivery Order Number	X	ID	2/3	Used
FST09	127	<b>Reference Number – Release Authorization Number (RAN)</b>	X	AN	1/30	Used



<b>JIT</b>	<b>Just-In-Time Schedule</b>	Pos: 110	Max: 1
		Detail - Optional	
		Loop: LIN/FST/JIT	Elements: 2

**User Option (Usage):** Optional

To identify the specific shipping/delivery time in terms of a 24-hour clock and identify the associated quantity

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
JIT01	380	<b>Quantity</b> Description: Numeric value of quantity	O	N	1/15	Optional

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
JIT02	337	<b>Time</b> Description: HHMMSS EX: 000001	C	R	4/8	Optional

### Syntax:

1. The sum of the quantities in the JIT segments must add up to the quantity transmitted in the previous FST segment
2. Time sent in the JIT02 is sent in the format HHMMSS. EX: 000001

# REF Reference Identification

Pos: 120	Max: 12
Detail - Optional	
Loop: LIN/FST/JIT	Elements: 2

**User Option (Usage):** Used

To specify identifying information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code</b> <b>Name</b>				
		RE                    Release Number				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

## Syntax:

1. R0203 - At least one of REF02,REF03 is required

# SHP

## Shipped/Received Information

Pos: 140	Max: 1
Detail - Optional	
Loop: SHP	Elements: 5

User Option (Usage): Used

To specify shipment and/or receipt information

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SHP01	673	<b>Quantity Qualifier</b> <b>Description:</b> Code specifying the type of quantity	O	ID	2/2	Used
		<b>Code</b> <b>Name</b>				
		01                  Discrete Quantity				
		02                  Cumulative Quantity				
<b>Ref</b>	<b>Id</b>	<b>Element Name</b>	<b>Req</b>	<b>Type</b>	<b>Min/Max</b>	<b>Usage</b>
SHP02	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity last received.	C	R	1/15	Used
SHP03	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	C	ID	3/3	Used
		<b>Code</b> <b>Name</b>				
		050                Received				
		051                Cumulative Quantity Start				
<b>Ref</b>	<b>Id</b>	<b>Element Name</b>	<b>Req</b>	<b>Type</b>	<b>Min/Max</b>	<b>Usage</b>
SHP04	373	<b>Date</b> <b>Description:</b> Start Date expressed as CCYYMMDD	C	DT	8/8	Used
SHP06	373	<b>Date</b> <b>Description:</b> End Date expressed as CCYYMMDD	C	TM	4/8	Used

### Syntax:

1. C0102 - If SHP01 is present, then all of SHP02 are required
2. L030405 - If SHP03 is present, then at least one of SHP04, SHP05 is required
3. C0403 - If SHP04 is present, then all of SHP03 are required
4. C0503 - If SHP05 is present, then all of SHP03 are required

### Semantics:

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 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.

**REF****Reference Identification**

Pos: 150	Max: 12
Detail - Optional	
Loop: SHP	Elements: 3

**User Option (Usage):** Used

To specify identifying information

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code</b> <b>Name</b> SI                              Shipper (Last Received)				
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

**Syntax:**

1. R0203 - At least one of REF02,REF03 is required

# CTT Transaction Totals

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

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	<b>Number of Line Items</b> <b>Description:</b> Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	<b>Hash Total</b>	O	R	1/10	Used

## Syntax:

1. P0304 - If either CTT03,CTT04 is present, then all are required
2. P0506 - If either CTT05,CTT06 is present, then all are required

## Comments:

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