

Plex Systems

IMPLEMENTATION GUIDELINES FOR ANSI X12 EDI CONVENTIONS

862 TRANSACTION SET MATERIAL RELEASE Version 004010 Revised October 20, 2015

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> 010	<u>ld</u> ST	<u>Segment Name</u> Transaction Set Header	Req M	Max Use 1	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
020	BSS	Beginning Segment for Shipping	М	1			Must use
		Schedule/Production Sequence					
030	DTM	Date/Time Reference	0	10			
LOOP ID - N1					200		
050	N1	Name	0	1			Used
100	PER	Administrative Contact	0	3			

Detail:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
LOOP ID	- LIN				10000		
010	LIN	Item Identification	М	1			Must use
020	UIT	Unit Detail	M	1			Must use
LOOP ID - FST					<u>100</u>		
080	FST	Forecast Schedule	0	1			Must use
				<u>.</u>			
LOOP ID	- SHP				<u>10</u>		
140	SHP	Shipped/Received Information	0	1			Used
150	REF	Reference Identification	0	12			Used

Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<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.

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:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
BSS01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	М	ID	2/2	Must use
		Code Name 05 Replacement				
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
BSS02	127	Reference Identification Description: 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	Date Description: Date expressed as CCYYMMDD Generated Date	M	DT	8/8	Must use
BSS04	675	Schedule Type Qualifier Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast Code Name DL Delivery Based SH Shipment Based	M	ID	2/2	Must use
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
BSS05	373	Date Description: Date expressed as CCYYMMDD Start Date	M	DT	8/8	Must use
BSS06	373	Date Description: Date expressed as CCYYMMDD End Date	M	DT	8/8	Must use
BSS07	328	Release Number	Χ	AN	1/30	
BSS11	676	Schedule Quantity Qualifier Code A – Actual Discrete Quantities D – Net Change Quantities R – Replacement Quantities	0	ID	1/1	

Semantics:

- 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).
- 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>ld</u>	Element Nar	<u>ne</u>	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
DTM01 374		Date/Time Qualifier Description: Code identifying an organizational entity, a		М	ID	3/3	Used
		-	tion, property or an individual				
		<u>Code</u>	<u>Name</u>				
		102	Issue Date				
Ref	<u>ld</u>	Element Nar	<u>ne</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
DTM02	373	Date		С	DT	8/8	Used
		Description:	CCYYMMDD				
DTM03	337	Time		С	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:

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

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.

PER Administrative Contact

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

User Option (Usage): Used

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

Element	Summary:
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<u>Ref</u> PER01	<u>ld</u> 366	Element Name Contact Function Code Description: Code identifying the responsibility of the person named. Code Name	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Used
		SU Supplier Contact				
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PER02	93	Name Description: Free-form name	0	AN	1/35	
PER03	365	Communications Number Qualifier Description: Code identifying the type of communication number Code Name	Χ	ID	2/2	
		TE Telephone				
<u>Ref</u> PER04	<u>ld</u> 364	Element Name Communications Number	Req X	<u>Type</u> AN	Min/Max 1/80	<u>Usage</u>

LIN Item Identification

Pos: 010 Max: 1 Detail - Mandatory Loop: LIN Elements: 9

User Option (Usage): Must use

To specify basic item identification data

Element Summary:

LICITICIT	Juilling	ary.				
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	0	AN	1/20	Used
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code BP Buyer's Part Number	M	ID	2/2	Must use
LIN03	234	Product/Service ID Description: Identifying number for a product or service	М	AN	1/48	Must use
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code EC Engineering Change Level	0	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN06	234	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code PO Purchase Order Number	M	AN	2/2	Used
LIN07	234	Product/Service ID Description: Identifying number for a product or service	Х	AN	1/48	Used
LIN08	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code PD Name Product Description	0	ID	2/2	Used
LIN09	234	Product/Service ID Description: Identifying number for a product or service	Χ	AN	1/48	Used

LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)		ID	2/2	Used
		CodeNameVPVendor's (Seller's) Part Number				
LIN09	234	Product/Service ID Description: Identifying number for a product or service	Х	AN	1/48	Used
LIN11	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)		ID	2/2	Used
		CodeNamePLPurchase Order Line Number				
LIN12	234	Product/Service ID Description: Identifying number for a product or service	Х	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:

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:

Ref	<u>ld</u>	Element Nam	<u>ne</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
UIT01	C001	•	Composite Unit of Measure Description: To identify a composite unit of measure(See		Comp		Must use
		•	Figures Appendix for examples of use)				
	355	Description:	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		ID	2/2	Must use
		<u>Code</u>	<u>Name</u>				
		EA	Each				
		PC	Piece				
		ZZ	Mutually Defined				

Syntax:

1. C0302 - If UIT03 is present, then all of UIT02 are required

Forecast Schedule FST

Pos: 080 Max: 1 **Detail - Mandatory** Elements: 4

Loop: FST

User Option (Usage): Used

To specify the forecasted dates and quantities.

Element Summary:

Ref	<u>ld</u>	Element Name Quantity Description: Numeric value of quantity	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FST01	380		M	R	1/15	Used
<u>Ref</u>	<u>ld</u>	Element Name Forecast Qualifier Description: Code specifying the sender's confidence level of the forecast data. Code Name C Firm	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FST02	680		C	R	1/15	Used
FST03	681	Forecast Timing Qualifier Description: Code specifying interval grouping of data Code Name C Daily	С	ID	3/3	Used
<u>Ref</u>	<u>ld</u>	Element Name Date Description: Delivery Date expressed as CCYYMMDD	Req	Type	Min/Max	<u>Usage</u>
FST04	373		C	DT	8/8	Used

JIT Just-In-Time Schedule

Pos: 110 Max: 24 Detail - Optional

Loop: 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:

Ref	<u>ld</u>	Element Name	<u>Req</u>	Type	Min/Max	<u>Usage</u>
JIT01	380	Quantity	0	Ν	1/15	Optional
		Description: Numeric value of quantity				
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
JIT02	337	Time	С	R	4/8	Optional
		Description: HHMMSS EX: 000001				

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: 090 Max: 12 Detail - Optional

Loop: FST Elements: 2

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name		<u>Type</u>	Min/Max	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		<u>Code</u> <u>Name</u>				
		RE Release Number				
Ref	<u>ld</u>	Element Name		<u>Type</u>	Min/Max	<u>Usage</u>
REF02	127	Reference Identification	С	AN	1/30	Used
		Description: Reference information as defined for a particular				
		Transaction Set or as specified by the Reference Identification				
		Qualifier				

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:

Ref	<u>ld</u>	Element Name		Type	Min/Max	<u>Usage</u>
SHP01	673 Quantity Qualifier		0	ID	2/2	Used
		Description: Code specifying the type of quantity				
		<u>Code</u> <u>Name</u>				
		01 Discrete Quantity				
		02 Cumulative Quantity				
Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
SHP02	380	Quantity	C	R	1/15	Used
•···· • <u>-</u>		Description: Numeric value of quantity last received.			.,	•
SHP03	374	Date/Time Qualifier	С	ID	3/3	Used
		Description: Code specifying type of date or time, or both date)			
		and time				
		<u>Code</u> <u>Name</u>				
		050 Received				
		051 Cumulative Quantity Start				
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SHP04	373	Date	С	DT	8/8	Used
		Description: Start Date expressed as CCYYMMDD				
SHP05	373	Date	С	TM	4/8	Used
		Description: End Date expressed as CCYYMMDD				

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:

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

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				
CTT02	347	Hash Total	0	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.