



Plex Systems

IMPLEMENTATION GUIDELINES FOR
ANSI X12 EDI CONVENTIONS

862 TRANSACTION SET
MATERIAL RELEASE
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862 Ship Schedule

Functional Group ID=DL

This Draft Standard for Trial Use 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			
LOOP ID - N1					200		
050	N1	Name	O	1			Used
100	PER	Administrative Contact	O	3			

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>
LOOP ID - LIN					10000		
010	LIN	Item Identification	M	1			Must use
020	UIT	Unit Detail	M	1			Must use
LOOP ID - FST					100		
080	FST	Forecast Schedule	O	1			Must use
LOOP ID - SHP					10		
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.

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	Id	Element Name	Req	Type	Min/Max	Usage
BSS01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set Code Name 05 Replacement	M	ID	2/2	Must use
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	M	ID	2/2	Must use
BSS05	373	Date Description: Date expressed as CCYYMMDD End Date	M	DT	8/8	Must use
BSS06	373	Date Description: Date expressed as CCYYMMDD Generated Date	M	DT	8/8	Must use

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:

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

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

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

LIN

Item Identification

Pos: 010

Max: 1

Detail - Mandatory

Loop: LIN

Elements: 7

User Option (Usage): Must use

To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	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) <table><tr><th>Code</th><th>Name</th></tr><tr><td>BP</td><td>Buyer's Part Number</td></tr></table>	Code	Name	BP	Buyer's Part Number	M	ID	2/2	Must use
Code	Name									
BP	Buyer's Part Number									
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	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) <table><tr><th>Code</th><th>Name</th></tr><tr><td>EC</td><td>Engineering Change Level</td></tr></table>	Code	Name	EC	Engineering Change Level	C	ID	2/2	Used
Code	Name									
EC	Engineering Change Level									
LIN05	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Used				
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table><tr><th>Code</th><th>Name</th></tr><tr><td>PD</td><td>Product Description</td></tr></table>	Code	Name	PD	Product Description	C	ID	2/2	Used
Code	Name									
PD	Product Description									
LIN07	234	Product/Service ID Description: Identifying number for a product or service	C	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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage								
UIT01	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	M	Comp		Must use								
	355	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	M	ID	2/2	Must use								
		<table><tr><th>Code</th><th>Name</th></tr><tr><td>EA</td><td>Each</td></tr><tr><td>PC</td><td>Piece</td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	Code	Name	EA	Each	PC	Piece	ZZ	Mutually Defined				
	Code	Name												
	EA	Each												
PC	Piece													
ZZ	Mutually Defined													

Syntax:

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

FST

Forecast Schedule

Pos: 080

Max: 1

Detail - Mandatory

Loop: 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	Quantity Description: Numeric value of quantity	M	R	1/15	Used
FST02	680	Forecast Qualifier Description: Code specifying the sender's confidence level of the forecast data. <div><div><u>Code</u></div><div><u>Name</u></div></div> C Firm	C	R	1/15	Used
FST03	681	Forecast Timing Qualifier Description: Code specifying interval grouping of data <div><div><u>Code</u></div><div><u>Name</u></div></div> C Daily	C	ID	3/3	Used
FST04	373	Date Description: Delivery Date expressed as CCYYMMDD	C	DT	8/8	Used

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	Quantity Qualifier Description: Code specifying the type of quantity <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>01</td><td>Discrete Quantity</td></tr><tr><td>02</td><td>Cumulative Quantity</td></tr></table>	<u>Code</u>	<u>Name</u>	01	Discrete Quantity	02	Cumulative Quantity	O	ID	2/2	Used
<u>Code</u>	<u>Name</u>											
01	Discrete Quantity											
02	Cumulative Quantity											
SHP02	380	Quantity Description: Numeric value of quantity last received.	C	R	1/15	Used						
SHP03	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>050</td><td>Received</td></tr><tr><td>051</td><td>Cumulative Quantity Start</td></tr></table>	<u>Code</u>	<u>Name</u>	050	Received	051	Cumulative Quantity Start	C	ID	3/3	Used
<u>Code</u>	<u>Name</u>											
050	Received											
051	Cumulative Quantity Start											
SHP04	373	Date Description: Start Date expressed as CCYYMMDD	C	DT	8/8	Used						
SHP05	373	Date Description: 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	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>SI</td><td>Shipper (Last Received)</td></tr></table>	<u>Code</u>	<u>Name</u>	SI	Shipper (Last Received)				
<u>Code</u>	<u>Name</u>									
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	Reference Identification Description: 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>
<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	Number of Line Items	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				
CTT02	347	Hash Total	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.