

862 Infor Supplier Exchange - Generic Shipping Schedule / Version 004010

Functional Group ID=**SS**

Introduction

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. No.</u>	<u>Seg. ID</u>	<u>Req. Name</u>	<u>Req. Des.</u>	<u>Loop Max.Use</u>	<u>Notes and Repeat</u>	<u>Comments</u>
M	010	ST	Transaction Set Header			M	1
M	020	BSS	Beginning Segment for Shipping Schedule/Production Sequence			M	1
			LOOP ID - N1				200
	050	N1	Name			O	1

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Req. Name</u>	<u>Req. Des.</u>	<u>Loop Max.Use</u>	<u>Notes and Repeat</u>	<u>Comments</u>
			LOOP ID - LIN				10000
M	010	LIN	Item Identification			M	1
M	020	UIT	Unit Detail			M	1
	045	PRS	Part Release Status			O	1
	050	REF	Reference Identification			O	12
	060	PER	Administrative Communications			O	1

Contact

		LOOP ID - FST		100
080	FST	Forecast Schedule	O	1
		LOOP ID - SHP		10
140	SHP	Shipped/Received Information	O	1
150	REF	Reference Identification	O	12

Summary:

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

Transaction Set Notes

1. The number of lines items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the value 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 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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>	
M	ST01	143	Transaction Set Identifier Code		M ID 3/3
			Code uniquely identifying a Transaction Set		
			862	Shipping Schedule	
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		

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

Position: 020

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

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

Syntax Notes: 1 At least one of BSS07 or BSS08 is required.

Semantic Notes: 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).

5 BSS08 is the identifying number for a forecast assigned by the orderer/purchaser.

Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BSS01	353	Transaction Set Purpose Code M ID 2/2
			Code identifying purpose of transaction set
		00	Original
		04	Change
		05	Replace
	BSS02	127	Release Number O AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
			Used in the outbound file only.
	BSS03	373	Release Date O DT 8/8
			Date expressed as CCYYMMDD
M	BSS04	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
	BSS05	373	Release Date O DT 8/8

Date expressed as CCYYMMDD

Used in the outbound file only.

M **BSS07** **328** **Release Number** **M** **AN 1/20**

Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

Used on the inbound 862 only.

BSS10 **324** **Purchase Order Number** **O** **AN 1/22**

Identifying number for Purchase Order assigned by the orderer/purchaser

BSS11 **676** **Schedule Quantity Qualifier** **O** **ID 1/1**

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

A Actual Discrete Quantities

Segment: N1 Name
Position: 050
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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>		
M	N101	98	Entity Identifier Code		M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual			
			MI	Planning Schedule/Material Release Issuer		
			ST	Ship To		
			SU	Supplier/Manufacturer		
	N102	93	Name		X	AN 1/50
			Free-form name			
	N103	66	Identification Code Qualifier		X	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		
	N104	67	Identification Code		X	AN 2/30
			Code identifying a party or other code			

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:

- 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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>		<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>			
	LIN01	350	Assigned Identification	O AN 1/20
			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
			Buyer's Part Number	
	LIN04	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			PO	Purchase Order Number

LIN05	234	Product/Service ID	X	AN 1/40
		Purchase Order Number (when applicable)		
LIN06	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PL Purchaser's Order Line Number		
LIN07	234	Product/Service ID	X	AN 1/40
		Purchase Order Line Number (when applicable)		
LIN08	235	Product/Service ID Qualifier	X	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	X	AN 1/48
		Identifying number for a product or service		
LIN10	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		RY Record Keeping or Model Year		
LIN11	234	Product/Service ID	X	AN 1/20
		Model Year (when applicable)		
LIN12	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PD Part Number Description		
LIN13	234	Product/Service ID	X	AN 1/50
		Buyer's Part Description (when applicable)		

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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	UIT01	C001	Composite Unit of Measure	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/4
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **PRS** Part Release Status
Position: 045
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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRS01	682	Part Release Status Code	M ID 1/2
			Code identifying the status of the specific part number being released or forecast or being used in an engineering change	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	PRS02	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	

Segment: REF Reference Identification
Position: 050
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.
 2 If either C04003 or C04004 is present, then the other is required.
 3 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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>	
M	REF01	128	Reference Identification Qualifier		M ID 2/30
			Dock Number (when applicable)		
			DK	Dock Number	
	REF02	127	Reference Identification		X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: PER Administrative Communications Contact
Position: 060
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: 1
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:

Data Element Summary

Ref.	Data		<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>			
M	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			IC Information Contact	
	PER02	93	Name	O AN 1/35
			Free-form name	
	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			TE Telephone	
	PER04	364	Communication Number	X AN 1/30
			Complete communications number including country or area code when applicable	
	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			FX Facsimile	
	PER06	364	Communication Number	X AN 1/80
			Complete email address when applicable	
	PER07	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	

EM Electronic Mail

PER09 443

Contact Inquiry Reference

O AN 1/20

Additional reference number or description to clarify a contact number

Segment: FST Forecast Schedule
Position: 080
Loop: FST Optional
Level: Detail
Usage: Optional
Max Use: 1
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 equals "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 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>		
M	FST01	380	Quantity		M	R 1/10
			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			
			C	Firm		
			D	Planning		
M	FST03	681	Forecast Timing Qualifier		M	ID 1/1
			Code specifying interval grouping of the forecast			
			D	Discrete		
			M	Monthly Bucket (Calendar Months)		
			W	Weekly Bucket (Monday through Sunday)		
M	FST04	373	Date		M	DT 8/8
			Date expressed as CCYYMMDD			
	FST06	374	Date/Time Qualifier		X	ID 3/3
			Code specifying type of date or time, or both date and time			

		002	Delivery Requested		
		010	Requested Ship		
FST07	337	Time		X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59)		
FST08	128	Reference Identification Qualifier		X	ID 2/3
			Code qualifying the Reference Identification		
		DO	Delivery Order Number		
			This qualifier will be used for inbound and outbound files.		
		KB	Beginning Kanban Serial Number		
			This qualifier will be used for inbound files only.		
FST09	127	Reference Identification		X	AN 1/30
			Dealer Order Number or Pull Signal (when applicable)		

Segment: **SHP** Shipped/Received Information
Position: 140
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 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.
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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	Quantity Qualifier	O ID 2/2
		Code specifying the type of quantity	
		02 Cumulative Quantity	
		12 Ship Notice Quantity	
SHP02	380	Quantity	X R 1/10
		Numeric value of quantity	
SHP03	374	Date/Time Qualifier	X ID 3/3
		Code specifying type of date or time, or both date and time	
		011 Shipped	
		051 Cumulative Quantity Start	
SHP04	373	Date	X DT 8/10
		Date expressed as CCYYMMDD	

Segment: REF Reference Identification
Position: 150
Loop: SHP Optional
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>	
M	REF01	128	Reference Identification Qualifier		M ID 2/3
			Code qualifying the Reference Identification		
			SI	Shipper's Identifying Number for Shipment (SID)	
				A unique number (to the shipper) assigned by the shipper to identify the shipment	
	REF02	127	Reference Identification		X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<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		
	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

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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>	
M	SE01	96	Number of Included Segments		M NO 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		

Generic Shipping Schedule Example

ISA*00* *00* *ZZ*KARENSCUST *ZZ*X12SUPPLIER
*040727*0642*U*00400*00000017*0*P~
GS*SS*KARENSCUST*X12SUPPLIER*20040727*0642*17*X*004010
ST*862*0001
BSS*00*Rel-X12*20040722*DL*20040722*****A
N1*ST*Ship To 02*ZZ*02
N1*SU*X12 Supplier*ZZ*X12SUPPLIER
N1*MI*FACILITY ID: 10*ZZ*10
LIN*1*BP*X12-Part01*PO*PONumber-01***EC*ECL*RY**PD*X12-Part01 Description
UIT*EA
PRS*B
PER*IC*ContactName*TE*ContactPhone*FX*ContactFax*EM*Contact@email.com
FST*000013000*C*D*20040726
FST*000014500*C*D*20040728
FST*000016000*C*D*20040802
FST*000017500*C*D*20040804
FST*000019500*C*D*20040809
FST*000021000*C*D*20040814
FST*000022500*C*D*20040816
FST*000024000*C*D*20040821
SHP**051*20040701
LIN*2*BP*X12-Part02*PO*PONumber-01***EC*ECL*RY**PD*X12-Part02 Description
UIT*EA
PRS*B
PER*IC*ContactName*TE*ContactPhone*FX*ContactFax*EM*Contact@email.com
FST*000013000*C*D*20040726
FST*000014500*C*D*20040728
FST*000016000*C*D*20040802
FST*000017500*C*D*20040804
FST*000019500*C*D*20040809
FST*000021000*C*D*20040814
FST*000022500*C*D*20040816
FST*000024000*C*D*20040821
SHP**051*20040701
LIN*3*BP*X12-Part03*PO*PONumber-01***EC*ECL*RY**PD*X12-Part03 Description
UIT*EA
PRS*B
PER*IC*ContactName*TE*ContactPhone*FX*ContactFax*EM*Contact@email.com
FST*000013000*C*D*20040726
FST*000014500*C*D*20040728
FST*000016000*C*D*20040802
FST*000017500*C*D*20040804
FST*000019500*C*D*20040809
FST*000021000*C*D*20040814
FST*000022500*C*D*20040816
FST*000024000*C*D*20040821
SHP**051*20040701
CTT*3
SE*40*0001
GE*1*17
IEA*1*000000017