



830 EDI SPECIFICATIONS

VERSION 4010

Transaction Set Header

Segment:	ST - Transaction Set Header			
Level:	Heading			
Max. Use:	1			
Requirement:	Mandatory			
Purpose:	To indicate the start of the 830 transaction set and assign a transaction control number.			
Comments:	The transaction set control number (data element ST02) in the header must match the transaction set control number in the trailer (data element SE02).			
Example:	ST*830*000000001			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
ST01	143	Transaction Set Identifier Code	M ID 3/3	830
ST02	329	Transaction Set Control Number	M AN 4/9	A unique number assigned to each transaction set. This value must match the corresponding value in data element SE02.

Beg Segment for Planning Schedule

Segment:	BFR - Beginning Segment for Planning Schedule			
Level:	Heading			
Max. Use:	1			
Requirement:	Mandatory			
Purpose:	To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates.			
Example:	BFR*05**917001*SH*A*19980228*19980101*19980220***			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
BFR01	353	Transaction Set Purpose Code	M ID 2/2	05 = Replace
BFR02	127	Reference Number	N	
BFR03	328	Release Number	M AN 1/30	
BFR04	675	Schedule Type Qualifier	M ID 2/2	SH = Shipment Based DL = Delivery Based
BFR05	676	Schedule Quantity Qualifier	ËID 1/1	"A" Net Quantities
BFR06	373	Date	M DT 8/8	Start Date YYYYMMDD
BFR07	373	Date	M DT 8/8	End Date YYYYMMDD
BFR08	373	Date	M DT 8/8	Release Issue Date YYYYMMDD
BFR09	373	Date	N	
BFR10	367	Contract Number	N	
BFR11	324	P.O. Number	O AN 1/22	If there is only one purchase order number for the entire release, use the PO number; otherwise, put the PO number in the LIN segment.

Name

Segment:	N1 - Name
Level:	Heading
Max. Use:	4
Requirement:	Mandatory (Minimum 2 Iterations)
Purpose:	To identify a party by type of organization, name, and code.
Example:	N1*SF*Supplier Automotive*92*00003 N1*SU*Supplier Automotive*01*009571302 N1*ST*Customer Automotive*01*009571302

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
N101	098	Entity Identifier Code	M ID 2/2	BT = Bill-to Party ST = Ship To Location SU = Supplier Location* SF = Ship From Location*
N102	093	Name	O AN 1/35	Company Name
N103	066	Identification Code Qualifier	M ID 1/2	Any Valid ANSI Data Element
N104	067	Identification Code	M AN 2/9	

Item Identification

Segment:	LIN - Item Identification			
Level:	Detail			
Max. Use:	1			
Requirement:	Mandatory			
Purpose:	To specify basic item identification data.			
Example:	LIN**BP*255*VP*2341123*EC*123*PO*1234*PD*PART			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
LIN01	350	Assigned Identification	N	
LIN02	235	Product/Service ID Qualifier	M ID 2/2	BP = Buyer's Part Number
LIN03	234	Product/Service ID	M AN 1/20	Part Number
LIN04	235	Product/Service ID Qualifier	O ID 2/2	VP = Vendor's Part Number
LIN05	234	Product/Service ID	O AN 1/20	Part Number
LIN06	235	Product/Service ID Qualifier	O AN 2/2	EC = Engineering Change
LIN07	234	Product/Service ID	O AN 1/20	Engineering Change Revision Level
LIN08	235	Product/Service ID Qualifier	O AN 2/2	PO = Purchase Order
LIN09	234	Products/Service ID	O AN 1/20	Purchase Order Number
LIN10	235	Product/Service ID Qualifier	O AN 2/2	PD = Product Description
LIN11	234	Product/Service ID	O AN 1/20	Product Description

Note: If multiple PO numbers exist, the PO number will show up on the LIN segment for each detail; otherwise, the PO number will show up on the BFR segment.

Note: The VP, EC, PO, and PD qualifiers (with associated values) can appear in any order in LIN04/ 05, LIN06/07, LIN08/09, and LIN10/11.

Unit Detail

Segment:	UIT - Unit Detail			
Level:	Detail			
Max. Use:	1			
Requirement:	Mandatory			
Purpose:	To specify item unit data.			
Example:	UIT*EA			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
UIT01	355	Unit of Measure Code	M ID 2/2	Any valid ANSI Unit of Measure code

Reference Numbers

Segment:	REF - Reference Numbers			
Level:	Detail			
Max. Use:	2			
Requirement:	Optional			
Purpose:	To transmit identifying numbers associated with named party.			
Example:	REF*DK*DOCK1			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference Identification Qualifier	M ID 2/2	DK = Dock Code
REF02	127	Reference Identification	M AN 1/30	
REF03	352	Description	N	

Admin Communications Contact

Segment:	PER - Administrative Communications Contact			
Level:	Detail			
Max. Use:	3			
Requirement:	Optional			
Purpose:	To identify a person or office to whom administrative communications should be directed.			
Example:	PER*BD*SUE*TE*555-1234			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
PER01	366	Contact Function Code	M ID 2/2	IC = Information Contact
PER02	093	Name	O AN 1/35	
PER03	365	Communication Number Qualifier	O ID 2/2	TE = Telephone
PER04	364	Communication Number	O AN 7/21	
PER05	365	Communication Number Qualifier	O ID 2/2	FX = Facsimile
PER06	364	Communication Number	O AN 7/21	Complete communications number including country or area code when applicable.
PER07	365	Communication Number Qualifier	O ID 2/2	EM = Electronic Mail
PER08	364	Communication Number	O AN 7/21	Complete communications number including country or area code when applicable.

Note: 0, 1, 2, or 3 of pairs PER03, PER04; PER05, PER06; and PER07, PER08 may be used depending on the availability of the telephone information, fax information, and/or electronic mail information.

Resource Authorization

Segment:	ATH - Resource Authorization
Level:	Detail
Max. Use:	20
Requirement:	Mandatory (Minimum 1 Iteration)
Purpose:	To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule.
Example:	ATH*PQ**22**19971212 ATH*FI*19970626*980**20051121 ATH*MT*19970626*980**20051121

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
ATH01	672	Resource Authorization Code	M ID 2/2	FI = Finished Inventory MT = Material Inventory PQ = Cumulative Quantity Required Prior to First Schedule Period.
ATH02	373	Date	O DT 8/8	Used for Codes FI and MT
ATH03	380	Quantity	M R 1/10	
ATH04	380	Quantity	N	
ATH05	373	Date	M DT 8/8	Cumulative Quantity Start Date

Name

Segment:	N1 - Name
Level:	Detail
Max. Use:	1
Requirement:	Optional
Purpose:	To identify a party by type of organization, name, and code.
Example:	N1*ST*Infor Automotive*01*009571302

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
N101	098	Entity ID Code	M ID 2/2	ST = Ship-to Location
N102	093	Name	O AN 1/35	Company Name
N103	066	Identification Code Qualifier	M ID 1/2	Any Valid ANSI Data Element
N104	067	Identification Code	M AN 2/9	

Address Information

Segment:	N3 - Address Information			
Level:	Detail			
Max. Use:	2			
Requirement:	Optional			
Purpose:	To specify the location of the named party.			
Example:	N3*3940 Peninsular Drive; Suite 100			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
N301	166	Address	M AN 1/35	Ship-to Address Line 1
N302	166	Address	N	Ship-to Address Line 2

Geographic Location

Segment:	N4 - Geographic Location			
Level:	Detail			
Max. Use:	1			
Requirement:	Optional			
Purpose:	To specify the geographic place of the named party.			
Example:	N4*Grand Rapids*MI*49456			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
N401	019	City Name	M AN 2/19	
N402	156	State or Province Code	M ID 2/2	
N403	116	Postal Code	M ID 5/9	
N404	026	Country Code	N	
N405	309	Location Qualifier	N	
N406	310	Location Ident.	N	

Forecast Schedule

Segment:	FST - Forecast Schedule			
Level:	Detail			
Max. Use:	260			
Requirement:	Mandatory			
Purpose:	To specify the forecasted dates and quantities.			
Example:	FST*2050*C*D*19980204			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
FST01	380	Quantity	M R 1/10	
FST02	680	Forecast Qualifier	M ID 1/1	C = Firm Quantity D = Planning Quantity
FST03	681	Forecast Timing Qualifier	M ID 1/1	D = Discrete W = Weekly F = Flexible Time Interval
FST04	373	Date	M DT 8/8	Delivery/Ship Date
FST05	373	Date	C DT 8/8	End Date
FST06	374	Date/Time Qualifier	N	
FST07	337	Time	N	
FST08	128	Reference Identification Qualifier	N	
FST09	127	Reference Identification	N	

Shipped/Received Information

Segment:	SHP - Shipped/Received Information			
Level:	Detail			
Max. Use:	2			
Requirement:	Optional			
Purpose:	To specify shipment and/or receipt information.			
Example:	SHP*01*52*050*19980827			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
SHP01	673	Quantity Qualifier	M ID 2/2	01 = Discrete 02 = Cumulative
SHP02	380	Quantity	C R 1/10	Last Receipt Qty if SHP01 = 01 Cum Receipt Qty if SHP01 = 02
SHP03	374	Date/Time Qualifier	O ID 3/3	When SHP = 01: 011 Shipped, 050 Received When SHP = 02: 011 Shipped, 050 Received When SHP = 02: 011 Shipped, 051 Cum Qty Start
SHP04	373	Date	C DT 8/8	Last Receipt Date if SHP03 = 050 Cum Start Date if SHP03 = 051 Ship Date if SHP03 = 011
SHP05	337	Time	N	
SHP06	373	Date	N	Cum End Date if SHP03 = 051
SHP07	337	Time	N	

Reference Numbers

Segment:	REF - Reference Numbers			
Level:	Detail			
Max. Use:	5			
Requirement:	Conditional			
Purpose:	To transmit identifying numbers associated with named party.			
Example:	REF*SI*45			
ELEM ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference Identification Qualifier	M ID 2/2	SI = Last Received Shipment Identification Number
REF02	127	Reference Identification	M AN 1/30	
REF03	352	Description	N	

Transaction Totals

Segment:	CTT - Transaction Totals
Level:	Summary
Max. Use:	1
Requirement:	Mandatory
Purpose:	To transmit a hash total for the forecast quantity within the transaction set.
Example:	CTT*1*1600

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
CTT01	354	Number of Line Items	M N0 1/6	Total Number of LIN Segments
CTT02	347	Quantity Hash Total	M R 1/10	
CTT03	081	Weight	N	
CTT04	355	Unit of Measure Code	N	
CTT05	183	Volume	N	
CTT06	355	Unit of Measure Code	N	
CTT07	352	Description	N	

Transaction Set Trailer

Segment:	SE - Transaction Set Trailer
Level:	Summary
Max. Use:	1
Requirement:	Mandatory
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments.
Comments:	The transaction control number (SE02) must be identical to the transaction set control number in the ST segment (ST02).
Example:	SE*25*0000000005

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
SE01	096	Number of Included Segments	M N0 1/6	Number of Segments Including SE and ST
SE02	329	Transaction Set Control Number	M AN 4/9	Same as ST02

Character	Represented As
Data Segment Terminating Character (Preference 7E)	Tilde (~)
Data Element Separating Character (Preference 2A)	Asterisk (*)
Data Sub-Element Separating Character (Preference 3C)	Less Than (<)
<p>The actual characters will be defined in the ISA segment. These characters are being used for display purposes only.</p> <p>Any valid ANSI X.12 defined <control_char> will be used for the data segment terminator (i.e., hex 1C).</p> <p>Be Advised We May Use (Hex 2E (Period .)) as a Data Character. If this causes adverse effects on the processing of your 830 please contact us immediately.</p> <p>Any valid ANSI X.12 defined <control_char>, <special_char>, or <other_special_char> will be used for the data element and subelement separator (i.e., * and \).</p>	

Sample 830

ISA*00* *00* *ZZ*MS158231 *ZZ*MS2YYYYY *070319*0912*U*04010*000000475*0*P*<~
GS*PS*MS158231*MS2YYYYY*20070319*0912*578*X*004010~
ST*830*000001302~
BFR*05**20063600*SH*A*20070319*20080305*20070319***~
N1*ST*TEAM SYSTEMS*01*617272898~
N1*SU*SUPPLIER NAME*92*00015~
N1*SF*VENDOR NAME*92*00015~
LIN**BP*55057123AB*EC*00*PO*R000038*PD*PART DESCRIPTION~
UIT*EA~
REF*DK*DOCK1~
PER*IC*JOE Q PUBLIC*TE*800-444-1111 EX220~
ATH*PQ**768**20060217~
ATH*MT*20060101*456**20060217~
N1*ST*TEAM SYSTEMS TOLEDO*01*617272898~
N3*1800 NATHAN AVENUE~
N4*TOLEDO*OH*43611~
FST*12*C*D*20070329~
FST*12*C*D*20070402~
FST*12*C*D*20070406~
FST*36*D*W*20070409~
FST*12*D*W*20070416~
FST*24*D*W*20070423~
FST*24*D*W*20070430~
FST*24*D*F*20070527*20070603~
FST*72*D*F*20070604*20070701~
FST*24*D*F*20070702*20070805~
FST*36*D*F*20070806*20070902~
SHP*01*12*050*20070319~
REF*SI*110073'
SHP*02*768*051*20060217**20070319~
LIN**BP*55057127AB*EC*00*PO*R000039*PD*PART DESCRIPTION~
UIT*EA~
PER*IC*JOE Q PUBLIC*TE*800-444-1111 EX220~
ATH*PQ**3110**20060217~
ATH*FI*20060101*3110**20060217~
N1*ST*TEAM SYSTEMS TOLEDO*01*617272898~
N3*1800 NATHAN AVENUE~
N4*TOLEDO*OH*43611~
FST*140*C*D*20070320~
FST*140*C*D*20070321~
FST*140*C*D*20070322~
FST*120*C*D*20070323~
FST*100*C*D*20070326~
FST*160*C*D*20070327~
FST*140*C*D*20070328~
FST*220*C*D*20070329~
FST*110*C*D*20070330~
FST*80*C*D*20070402~
FST*80*C*D*20070403~
FST*70*C*D*20070404~
FST*70*C*D*20070405~
FST*110*C*D*20070406~
FST*420*D*W*20070409~
FST*280*D*W*20070416~
FST*380*D*W*20070423~
FST*310*D*W*20070430~
FST*200*D*F*20070527*20070603~
FST*630*D*F*20070604*20070701~
FST*230*D*F*20070702*20070805~
SHP*01*40*050*20070319~
REF*SI*110073'
SHP*02*3110*051*20060217**20070319~
CTT*2*8962~
SE*70*000001302~
GE*1*578~
IEA*1*000000475~