

# Transaction Set Header

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Segment:	ST - Transaction Set Header
Level:	Heading
Max. Use:	1
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 Seg for Planning Schedule

Segment:	BFR - Beginning Segment for Planning Schedule
Level:	Heading
Max. Use:	1
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	&Euml;ID 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

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Segment:	N1 - Name
Level:	Heading
Max. Use:	1
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 Identifier Code	M ID 2/2	BT = Bill-to Party  ST = Shipto Location  SU = Supplier Location*  SF = Shipfrom 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	

**Note:** \*RPS users have the ability to define the data elements used in the N1\*SU and N1\*SF segments on the 830 document via fields in Vendor Communications Update. If any of these fields are left null, the data will default from the vendor file (Vendor Maintenance). The controlling vendor code will then be used in the N1\*SU segment and the subvendor code will be used in the N1\*SF segment.

# Item Identification

Segment:	LIN - Item Identification
Level:	Detail
Max. Use:	1
Purpose:	To specify basic item identification data.
Example:	LIN**BP*255*VP*2341123*EC*123

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	PD = Product Description
LIN09	234	Products/Service ID	O AN 1/20	Product Description
LIN10	235	Product/Service ID Qualifier	O AN 2/2	PO = Purchase Order
LIN11	234	Product/Service ID	O AN 1/20	Purchase Order Number

**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

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Segment:	UIT - Unit Detail
Level:	Detail
Max. Use:	1
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

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Segment:	REF - Reference Numbers
Level:	Detail
Max. Use:	2
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
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.

**Note:** The IC, TE, FX, EM (and associated values) can appear in any order in the PER01/02, PER03/ 04, PER05/06, and PER07/08.

# Resource Authorization

Segment:	ATH - Resource Authorization
Level:	Detail
Max. Use:	20
Purpose:	To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule.
Example:	ATH*PQ**22**19971212ATH*FI*19970626*980**051121ATH* MI*19970626*980**051121

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

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Segment:	N1 - Name
Level:	Detail
Max. Use:	1
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

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Segment:	N3 - Address Information
Level:	Detail
Max. Use:	2
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

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Segment:	N4 - Geographic Location
Level:	Detail
Max. Use:	1
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

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Segment:	FST - Forecast Schedule
Level:	Detail
Max. Use:	260
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

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Segment:	SHP - Shipped/Received Information
Level:	Detail
Max. Use:	1
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

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Segment:	REF - Reference Numbers
Level:	Detail
Max. Use:	5
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

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Segment:	CTT - Transaction Totals
Level:	Summary
Max. Use:	1
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
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 (a hexadecimal 1C)	a period ( . )
data element separating character	an asterisk ( * )
data sub-element separating character	a backslash ( \ )
<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 &lt;control_char&gt; will be used for the data segment terminator (i.e., hex 1C).</p> <p>Any valid ANSI X.12 defined &lt;control_char&gt;, &lt;special_char&gt;, or &lt;other_special_char&gt; will be used for the data element and subelement separator (i.e., * and \).</p>	



# Sample 830

The following represents a sample 830:

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ISA*00*                *00*                *01*005346481        *01*005346481        *940613*102
(ISA cont.) 5*U*02040*000000333*0*P*\,
GS*PS*005346481*005346481*940613*1025*000000433*X*004010,
ST*830*000001048,
BFR*05**929701*DL*A*19940606*19950531*19940613***,
N1*ST*Infor Automotive*1*009571302,
N1*SU*UNIVERSAL SUPPLY INC.*92*1000,
N1*SF*UNIVERSAL SUPPLY INC.*92*1000,
LIN**BP*440*VP*VP440*PO*PO123,
UIT*EA
REF*DK*DOCK1,
PER*IC*John Doe*TE*616/957-4444,
ATH*PQ**10000**19940101,
N1*ST*Infor Automotive*1*009571302,
N3*3855 Infor Automotive #201,
N4*GRAND RAPIDS*MI*49506,
FST*600*C*D*19940606,
FST*5000*D*W*19940704,
FST*10000*D*F*19940905*19941002,
SHP*01*10000*050*19940613,
REF*SI*987654321,
SHP*02*10000*051*19940606**19940613,
LIN**BP*4562*VP*100*EC*123*PO*PO456,
UIT*EA
PER*IC*John Doe*TE*616/957-4444,
ATH*PQ**0**19900819,
ATH*MT**600**19900819,
N1*ST*Infor Automotive*1*009571302,
N3*3855 Sparks Dr. #201,
N4*GRAND RAPIDS*MI*49506,
FST*50*C*D*19940606,
FST*50*C*D*19940613,
FST*150*C*W*19940627,
FST*2000*D*W*19940801,
CTT*2*20550,
SE*49*000001048,
GE*1*000000433,
IEA*1*000000333.
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