

This CMI standard provides the format and establishes the data contents of an 830 (planning schedule with release capability) transaction set. The planning schedule with release capability transaction set provides for customary and established business practice relative to the transfer of forecasting/material release information between organizations.

Seg. ID	Name	Page	Req. Des.	Max. Use	Loop Repeat
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Data Segment Sequence for the Heading Area

ST	Transaction Set Header	830.3	M	1	
BFR	Beg Seg for Planning Schedule	830.4	M	1	
NTE	Note/Special Instructions	830.5	F	100	
N1	Name	830.6	M	1	N1/200S,
N3	Address Information	830.7	M	2	*
N4	Geographic Location	830.8	O	1	*
PER	Admin Communications Contact	830.9	M	3	N1S-

Data Segment Sequence for the Detail Area

LIN	Item Identification	830.10	M	1	LIN/10000S,
NTE	Note/Special Instructions	830.11	F	100	*
UIT	Unit Detail	830.12	M	1	*
PID	Product/Item Description	830.13	M	1000	*
REF	Reference Numbers	830.14	M	2	*
PER	Admin Communications Contact	830.15	O	3	*
SDP	Ship/Delivery Pattern	830.16	O	1	SDP/260 S, *
FST	Forecast Schedule	830.17	M	260	SDP - *
ATH	Resource Authorization	830.18	M	20	*
SHP	Shipped/Received Information	830.19	O	1	SHP/25 S, *
REF	Reference Numbers	830.20	O	5	SHP S- *

Data Segment Sequence for the Summary Area

CTT	Transaction Totals	830.21	M	1	
SE	Transaction Set Trailer	830.22	M	1	

Sample 830	830.23				
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GLOSSARY

Abbreviations in the columns headed "Usage" have the following definitions:

- C Conditional. The presence of this item is dependent on the presence or absence of other items.
- F Floating. This is used only for the NTE segment that may appear anywhere in the transaction set between the transaction set header and the transaction set trailer.
- M Mandatory. This data segment shall be included in the transaction set. (Note that though a data segment may be mandatory in a loop of data segments, the loop itself is optional if the beginning segment of the loop is designated as optional.)
- N Not Used. CMI does not use this segment at this time.
- O Optional. The presence of this data segment is at the option of the sending party.

Segment ST - Transaction Set Header

Level Heading

Max. Use 1

Purpose To indicate the start of a transaction set and to assign a control number.

Comments: The transaction set control number (ST02) in this header must match the transaction set control number (SE02) in the transaction set trailer (SE).

Example ST*830*000000001

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
ST01	143	Transaction Set ID CD	M ID 3/3	"830"
ST02	329	Trans. Set Control No.	M AN 4/9	A unique number assigned to each transaction set. This number must match the value in SE02.

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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*910228*920101*910220***

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
BFR01	353	Transaction Set Purpose Cd	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' means shipment based 'DL' means delivery based
BFR05	676	Schedule Quantity Qualifier	M ID 1/1	'A' net Quantities
BFR06	373	Date	M DT 6/6	Start Date
BFR07	373	Date	M DT 6/6	End Date
BFR08	373	Date	M DT 6/6	Release Issue Date
BFR09	373	Date	N	
BFR10	367	Contract Number	N	
BFR11	324	P. O. Number	N	

Segment	NTE - Note
Level	Heading
Max. Use	100
Purpose	To Transmit information in a free-form format, if necessary, for comment or special instruction.
Example	NTE**PLEASE MAKE DELIVERIES BEFORE 3:00 PM

ELE

ID	ELE#	NAME	FEATURES	COMMENTS
NTE01	363	Note Ref. Code	N	
NTE02	003	Free-Form Message	M AN 1/60	

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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*CMI COMPETITIVE SOLUTIONS, INC.*01*009571302

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
N101	098	Entity ID Code	M ID 2/2	'ST' means ship-to location 'SU' means supplier location* 'SF' means ship-from location*
N102	093	Name	O AN 1/35	Company Name
N103	066	ID Code Qualifier	M ID 1/2	Any valid ANSI data element
N104	067	ID Code	M AN 1/9	

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 (SRPS1,4). If any of these fields are left null, the data will default from the vendor file (Vendor Maintenance; SRPS1,2). The controlling vendor code will then be used in the N1*SU segment and the sub-vendor code will be used in the N1*SF segment.*

Segment N3 - Address Information

Level Heading

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	
N302	166	Address	N	

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Segment N4 - Geographic Location

Level Heading

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	

Segment	PER - Administrative Communications Contact
Level	Heading
Max. Use	3
Purpose	To identify a person or office to whom administrative communications should be directed.
Example	PER*BD*Purchasing Manager*TE*1(616)957-4444

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
PER01	366	Contact Function Code	M ID 2/2	'SC' means schedule contact 'BD' means buyer name or department
PER02	093	Name	O AN 1/35	
PER03	365	Communication No. Qualifier	O ID 2/2	'TE' means telephone 'FX' means vendor facsimile number ¹
PER04	364	Communication Number	O AN 7/21	Telephone number

¹The vendor fax number will be stored on the RPS release when generated. If no fax number is present on the VENDOR*cc record, no PER*FX segment will be generated.

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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 Ident.	N	
LIN02	235	Product/Service ID Qualifier	M ID 2/2	'BP' means 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' means 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” means Engineering Change
LIN07	234	Product/Service ID	O AN 1/20	Engineering Change Revision Level

Segment	NTE - Note
Level	Detail
Max. Use	100
Purpose	To transmit information in a free-form format, if necessary, for comment or special instruction.
Example	NTE**Please Deliver at 5:00 p.m.

ELE

ID	ELE#	NAME	FEATURES	COMMENTS
NTE01	363	Note Ref. Code	N	
NTE02	003	Free-Form Message	M AN 1/60	

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Segment	UIT - Unit Detail
Level	Detail
Max. Use	1
Purpose	To specify item unit data.
Example	UIT*EA*2.00000

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
UIT01	355	Unit of Measure Code	M ID 2/2	
UIT02	212	Unit Price	O R 1/14	
UIT03	639	Basis Unit Price Code	N	

Segment	PID - Product/Item Description
Level	Detail
Max. Use	1000
Purpose	To describe a product or process in coded or free-form format.
Example	PID*F*****Sheet Metal

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
PID01	349	Item Description Type	M ID 1/1	Freeform
PID02	750	Prod/Proc Char Code	N	
PID03	348	Item Descr. Qualifier	N	
PID04	751	Product Desc. Code	N	
PID05	352	Description	M AN 1/80	
PID06	752	Surf/Layer Pos Code	N	

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Segment	REF - Reference Numbers
Level	Detail
Max. Use	2
Purpose	To transmit identifying numbers associated with named party.
Example	REF*PO*PO-100 REF*DK*DOCK1

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference Number Qualifier	M ID 2/2	"PO" represents "Purchase Order" number "DK" represents "Dock Code"
REF02	127	Reference Number	M AN 1/30	
REF03	352	Description	N	

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*SC*SUE*TE*555-1234

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
PER01	366	Contact Function Code	M ID 2/2	'SC' means schedule contact
PER02	093	Name	O AN 1/35	
PER03	365	Communication No. Qualifier	O ID 2/2	'TE' means telephone
PER04	364	Communication Number	O AN 7/21	Telephone number

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Segment	SDP - Ship/Delivery Pattern
Level	Detail
Max. Use	1
Purpose	To identify specific ship/delivery requirements.
Example	SDP*S*Z

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
SDP01	678	Ship/Delivery Pattern Code	M ID 1/2	Any valid code
SDP02	679	Ship/Delivery Pattern Time	M ID 1/1	'Z' means mutually defined
SDP03	678	Ship/Delivery Pattern Code	N	
SDP04	679	Ship/Delivery Pattern Time	N	
SDP05	678	Ship/Delivery Pattern Code	N	
SDP06	679	Ship/Delivery Pattern Time	N	
SDP07	678	Ship/Delivery Pattern Code	N	
SDP08	679	Ship/Delivery Pattern Time	N	

Segment FST - Forecast Schedule

Level Detail

Max. Use 260

Purpose To specify the forecasted dates and quantities.

Example FST*2050*C*D*910204

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
FST01	380	Quantity	M R 1/10	
FST02	680	Forecast Qualifier	M ID 1/1	'A' means immediate 'C' means firm quantity 'D' means planning quantity
FST03	681	Forecast Timing Qualifier	M ID 1/1	'D' means discrete 'W' means weekly 'F' means flexible time interval
FST04	373	Date	M DT 6/6	Delivery/Ship date
FST05	373	Date	C DT 6/6	End Date
FST06	374	Date/Time Qualifier	N	
FST07	337	Time	N	
FST08	128	Reference No. Qualifier	N	
FST09	127	Reference Number	N	

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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*FI**3242**900701

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
ATH01	672	Resource Authorization Code	M ID 2/2	'FI' means finished inventory 'MT' means material inventory 'PQ' means previous cumulative quantity received
ATH02	373	Date	N	
ATH03	380	Quantity	M R 1/10	
ATH04	380	Quantity	N	
ATH05	373	Date	M DT 6/6	Cumulative quantity start date

Segment SHP - Shipped/Received Information

Level Detail

Max. Use 1

Purpose To specify shipment and/or receipt information.

Example SHP*01*52*050*900827

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
SHP01	673	Quantity Qualifier	O ID 2/2	'01' means discrete '02' means 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	'050' means received date '051' means cumulative start date
SHP04	373	Date	C DT 6/6	Last receipt date if SHP03 = '050' Cum start date if SHP03 = '051'
SHP05	337	Time	N	
SHP06	373	Date	C	Cum end date if SHP03 = '051'
SHP07	337	Time	N	

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Segment	REF - Reference Numbers
Level	Detail
Max. Use	1
Purpose	To transmit identifying numbers associated with named party.
Example	REF*SI*45

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference Number Qualifier	M ID 2/2	“SI” represents the last received “Shipment Identification” number
REF02	127	Reference Number	M AN 1/30	
REF03	352	Description	N	

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	

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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

The data segment terminating character, represented below as "." character, is a hexadecimal 1C. The data element separating character is represented below as "*" character. The data sub-element separating is represented below as "\" character. The actual characters will be defined in the "ISA" segment. These characters are being used for display purposes only. Any valid ANSI X.12 defined <control_char> will be used for the data segment terminator. ie, hex 1C. Any valid ANSI X.12 defined <control_char>, <special_char>, or <other_special_char> will be used for the data element and subelement separator. ie "*" and "\".

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*002040.
ST*830*000001048.
BFR*05**929701*DL*A*940606*950531*940613***.
NTE**We will be taking inventory from 08/01/93 to 08/04/93.
NTE**Please have all material delivered by then.
NTE**Universal Supply Inc.'s supplier ID is '1000'.
N1*ST*CMI - COMPETITIVE SOL.*1*009571302.
N3*3940 PENINSULAR DR #100.
N4*GRAND RAPIDS*MI*49506.
PER*BD*MTRL MANAGER.*TE*616/957-4444.
N1*SU*UNIVERSAL SUPPLY INC.*92*1000.
N3*2107 CROOKS ROAD.
N4*TORONTO*ONT*L16 1H8.
PER*SC**TE*416/555-1256.
N1*SF*UNIVERSAL SUPPLY INC.*92*1000.
N3*2107 CROOKS ROAD.
N4*TORONTO*ONT*L16 1H8.
PER*SC**TE*416/555-1256.
LIN**BP*440*VP*VP440.
NTE**Please deliver at 5:00PM
UIT*EA*2.00000.
PID*F****WIDGETS.
REF*PO*PO-100.
REF*DK*DOCK1.
PER*SC*John Doe*TE*616/957-4444.
SDP*S*Z.
FST*600*C*D*940606.
FST*800*C*D*940607.
FST*800*C*D*940608.

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FST*600*C*D*940609.
FST*0*A*W*940530.
FST*5000*D*W*940704.
FST*10000*D*F*940905*941002.
ATH*PQ**10000**940101.
SHP*01*10000*050*940613.
REF*SI*987654321.
SHP*02*10000*051*940606**940613.
LIN**BP*4562*VP*100*EC*123.
UIT*EA*1.00000.
PID*F*****WIDGET COUPLING.
REF*PO*1.
PER*SC*John Doe*TE*616/957-4444.
SDP*S*Z.
FST*500*A*D*940530.
FST*50*C*D*940606.
FST*50*C*D*940613.
FST*150*C*W*940627.
FST*2000*D*W*940801.
ATH*PQ**0**900819.
ATH*MT**600**900819.
CTT*2*20550.
SE*49*0000001048.
GE*1*0000000433.
IEA*1*0000000333.