RPS - EDI SPECIFICATIONS

USER GUIDE

830 - Planning Schedule with Release Capability

856 - Ship Notice/Manifest

CMI - COMPETITIVE SOLUTIONS, INC.

May, 2000

ITT AUTOMOTIVE

“SUPPLIER EDI SPECIFICATION IMPLEMENTATION GUIDELINES”

CMI EDI SPECIFICATIONS FOR:

830-PLANNING SCHEDULE WITH RELEASE CAPABILITIES

&

856 SHIP NOTICE/MANIFEST

BY CMI-COMPETITIVE SOLUTIONS, INC.
May 1,2000
MODIFIED BY ITTA APPLICATIONS

RPS - EDI SPECIFICATIONS USER GUIDE

“830 - PLANNING SCHEDULE with RELEASE CAPABILITIES”

ANSI X.12 RELEASE 004010

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	Req. Des.	Max. Use	Loop Repeat
Data Segment Sequence for the Heading Area				
ST	Transaction Set Header	M	1	
BFR	Beg Seg for Planning Schedule	M	1	
N1	Name	M	1	
Data Segment Sequence for the Detail Area				
LIN	Item Identification	M	1	LIN/10000
UIT	Unit Detail	M	1	
REF	Reference Numbers	M	2	
PER	Admin Communications Contact	O	3	
FST	Forecast Schedule	M	260	
ATH	Resource Authorization	M	20	
SHP	Shipped/Received Information	M	1	SHP/25
REF	Reference Numbers	O	5	SHP
Data Segment Sequence for the Summary Area				
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

Sample 830

GLOSSARY

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

C	**Conditional**. The presence of this item is dependent on the presence or abscence of other items.
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 the 830 transaction set and to assign a transaction 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.

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*19990228*19990101*19990220***

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

Most ITTA Plants are using 'DL'. It's been agreed that when plant begin receiving ASNs from Suppliers, we would move toward Ship Based - ('SH').

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
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 ***(See REF Segment)***	

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 = ship-to location
				ITT Industries, FHS
				SU = supplier location
				Vendor #
				SF = ship-from location
				Vendor #

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 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 (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	

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	***IC = Information Contact***
PER02	093	Name	O AN 1/35	
PER03	365	Communication No. Qualifier	O ID 2/2	***TE = Telephone***
PER04	364	Communication Number	O AN 7/21	Telephone number

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 = Buyer's part number
*LIN03	234	Product/Service ID	M AN 1/20	Part number ****Use only ITT P/N from RPS, unless there is a good business case to Vendor P/N.***
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

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.

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	**** Use Purchase UOM. The general rule for discrete parts is ‘EA’.***

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 Number Qualifier	M ID 2/2	DK = Dock Code
REF02	127	Reference Number	M AN 1/30	
REF03	352	Description	N	

Segment	FST - Forecast Schedule
Level	Detail
Max. Use	260
Purpose	To specify the forecasted dates and quantities.
Example	FST*2050*C*D*19990204

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 No. Qualifier	N	
FST09	127	Reference Number	N	

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**199991212 ATH*FI*19990626*3242**19990701

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

Segment	SHP - Shipped/Received Information
Level	Detail
Max. Use	1
Purpose	To specify shipment and/or receipt information.
Example	SHP*01*52*050*19990827

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	050 = received date 051 = cumulative start date
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	C	Cum end date if SHP03 = 051
SHP07	337	Time	N	

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 = 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	

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 ASNI 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      *19990613*102
(ISA cont.) 5*U*04010*000000333*0*P*\.
GS*PS*005346481*005346481*19990613*1025*000000433*X*004010.
ST*830*000001048.
BFR*05**929701*SH*A*19990606*19990531*19990613***.
N1*ST*CMI - COMPETITIVE SOL.*1*009571302. (ITT Automotive Plant)
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.  (ITTA Automotive Supplier)
PER*SC**TE*416/555-1256.
N1*SF*UNIVERSAL SUPPLY INC.*92*1000.
N3*2107 CROOKS ROAD.
PER*SC**TE*416/555-1256.
SHP*01*10000*050*940613.
LIN**BP*440*VP*VP440.
UIT*EA*2.00000.
PER*SC*John Doe*TE*616/957-4444.
ATH*PQ**10000**19990101.
ATH*MT**600**19990819
FST*600*C*D*19990606.
FST*800*C*D*19990607.
FST*800*C*D*19990608.
SHP*01*10000*050*940613.
REF*SI*987654321.
CTT*2*20550.
SE*49*000001048.
GE*1*000000433.
IEA*1*000000333.
```

This document provides the CMI standard format and established data contents of a ship notice/manifest transaction set (856). An 856 comprises a shipment's contents and other information relating to shipment, packaging, marking, and carrier data, as well as the packing configuration of the shipped goods. It enables the sender to describe a shipment's contents and configuration in varying levels of detail, while providing an ordered flexibility of data conveyed.

Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat
Data Segment Sequence for the Header Level				
ST	Transaction Set Header	M	1	
BSN	Beg Seg for Ship Notice	M	1	
DTM	Date/Time Reference	M	2	
Data Segment Sequence for the Shipment Level				
HL	Hierarchical Level	M	1	
MEA	Measurements	M	2	
TD1	Carrier Details (Quantity and Weight)	M	1	
TD5	Carrier Details (Routing Seq/Transit Tm)	M	1	
TD3	Carrier Details (Equipment)	M	1	
REF	Reference Numbers	M	3	
N1	Name	M	1	N1/2
Data Segment Sequence for the Item Level				
HL	Hierarchal Level	M	1	HL/200000
LIN	Item Identification	M	1	
SN1	Item Detail (Shipment)	M	1	
PRF	Purchase Order Reference	M	1	
REF	Reference Numbers	C	1	
CLD	Load Detail	O	1	CLD/200
REF	Reference Numbers	C	200	CLD
Data Segment Sequence for the Trailing Segments				
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

Note: Only two N1 segments are used by RPS. One is used to load the ship-from data and the other to load the ship-to data. Both of these are required.

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.
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.
Comment	This segment is required. 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*856*0001

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
ST01	143	Transaction Set ID Code	M ID 3/3	856
ST02	329	Transaction Set Control Num	M AN 4/9	A unique number assigned to each transaction set within a functional group, starting with 0001 and incremented by 1 for each subsequent transaction set.

Segment BSN - Beginning Segment for Ship Notice

Level	Heading
Max. Use	1
Purpose	To transmit identifying numbers, dates and other basic data relating to the transaction set.
Example	BSN*00*123456*19990502*0810

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
BSN01	353	Transaction Set Purpose	M ID 2/2	00 =original ***Use only this*** 05 =replacement ***Not used by ITTA.***
BSN02	396	Shipment Ident.	M AN 2/30	ASN number- unique supplier assigned number that is not repeated within a one year period.
BSN03	373	Date	M DT 8/8	Date of ASN creation
BSN04	337	Time	M TM 4/4	Time of ASN creation

Segment	DTM - Date/Time Reference
Level	Heading
Max. Use	2
Purpose	To specify pertinent dates and times.
Example	DTM*011*880601*1115

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
DTM01	374	Date/Time Qualifier	M ID 3/3	011 = date and time shipment leaves supplier.
DTM02	373	Date	M DT 6/6	
DTM03	337	Time	C TM 4/4	

Segment	HL - Hierarchical Level
Level	Detail - first segment in each HL loop
Max. Use	1
Purpose	To identify dependencies among and the content of hierarchically related groups of data segments.
Comment	The HL segment is used to identify levels of detail information using hierarchical structure, such as relating line item data to shipment data. CMI will only use the shipment and item levels. Cancellation ASNs require only the shipment level.
Example	HL*1**S (shipment level)

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
HL01	628	Hierarchical ID #	M AN 1/12	1 for the first HL segment incremented by "1" in each subsequent HL segment within the transaction set.
HL02	734	Hierarchical Parent ID Number	M AN 1/12	The ID number of the parent HL segment. Required for all HL segments at the item level.
HL03	735	Hierarchical Level Code	M ID 1/2	S = shipment
HL04	736	Hierarchical Child Code	N	

Segment	MEA - Measurements
Level	Detail (shipment level)
Max. Use	2
Purpose	To specify physical measurements, including dimensions, tolerances, weights and counts.
Comment	At shipment hierarchical level: - Gross weight of shipment - Tare weight of shipment
Example	MEA*PD*G*1231*LB MEA*PD*T*323*LB

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
MEA01	737	Measurement Ref ID	M ID 2/2	PD for physical dimensions

MEA02	738	Measurement Qualifier	M ID 1/3	G = Gross Weight
				T = Tare Weight

MEA03	739	Measurement Value	M R 1/10	Weight
MEA04	355	Unit of Measure Code	M ID 2/2	
MEA05	740	Range Minimum	N	
MEA06	741	Range Maximum	N	
MEA07	935	Meas. Sign Code	N	
MEA08	936	Meas. Attr. Code	N	
MEA09	752	Surf/Layer Pos. Code	N	

Segment	TD1 - Carrier Details (Qty/Weight)
Level	Detail
Max. Use	1
Purpose	To specify the transportation details relative to commodity, weight and quantity.
Example	TD1*PLT71*2

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
TD101	103	Packaging Code	M ID 5/5	Any defined code is acceptable. ie. PLT71 for pallet; BOX34 for card-board box; SKD90 for skid
TD102	080	Lading Quantity	M N0 1/7	Number of packages of the type specified in TD101
TD103	023	Commodity Code Qualifier	N	
TD104	022	Commodity Code	N	
TD105	079	Lading Description	N	
TD106	187	Weight Qualifier	N	
TD107	091	Weight	N	
TD108	355	Unit of Measure Code	N	

Segment	TD5 - Carrier Detail (Routing Sequence/Transit Time)
Level	Detail (shipment hierarchical level only)
Max. Use	1
Purpose	To specify the carrier, routing sequence, and provide transit time information.
Comment	One TD5 is required for each shipment. Do not use more than one TD5.
Examples	TD5*B*92*CNTR*M TD5*B*92*CNTR*A***OR*GRR

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
TD501	133	Routing Sequence Code	M ID 1/2	B-carrier is origin/delivery carrier.
TD502	066	Identification Code Qualifier	M ID 1/2	02 - SCAC code 92 - Assigned by buyer
TD503	067	Identification Code	M AN 2/17	Carrier's SCAC code
TD504	091	Transport. Meth. Mode	M ID 1/2	M = motor, A = air, etc. Valid codes on next page.
TD505	387	Routing	N	
TD506	368	Ship/Order Status Code	N	
TD507	309	Location Qualifier	C 2/2	OR for Origin; (Required if TD 504 = A or AE
*TD508	310	Location Ident	C 3/3	
TD509	731	Transit Direct. Code	N	
TD510	732	Transt. Time Dir. Qual.	N	
TD511	733	Transit Time	N	

Transportation Method Mode

The following are valid codes for segment TD5, element TD504: Transportation Method Mode:

A	AIR
AE	AIR EXPRESS
C	CONSOLIDATION
LT	LTL TRUCKLOAD
M	MOTOR (COMMON CARRIER)

Segment	TD3 - Carrier Details (Equipment)
Level	Detail (shipment hierarchical level only)
Max. Use	1
Purpose	To specify transportation details relating to the equipment used by the carrier.
Comment	Only one TD3 segment is used per shipment to identify the conveyance number.
Example	TD3*TL**5

ELEM ID	ELE#	NAME	FEATURES	COMMENTS

TD301	040	Equipment Desc. Code	M ID 2/2	TL = Trailer
				AF = Air Freight

TD302	206	Equipment Initial	N	
TD303	207	Equipment Number	M AN 1/10	Conveyance number. (i.e. trailer number or air bill number)
TD304	187	Weight Qualifier	N	
TD305	081	Weight	N	
TD306	355	Unit of Meas. Code	N	
TD307	102	Ownership Code	N	

Segment	REF - Reference Numbers
Level	Detail (shipment level)
Max. Use	2
Purpose	To specify identifying numbers.
Comment	Used in the shipment level for: Air bill number - required if air shipment Bill of Lading number - required if ground shipment
Example	REF*BM*123456 REF*SI*2345

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**

REF01	128	Reference No. Qualifier	M ID 2/2	BM = bill of lading
				SI = shipper number
				PK = packing slip

REF02	127	Reference Number	M AN 1/30	Value referred to by previous element.
REF03	352	Description	N	

Note: 1) Need both BM & SI (they can be the same)
2) If not present in the item level of the 856, SI must be present in the shipment level. Which of the two is used is optional, but only one of the two can be used.

Segment	N1 - Name
Level	Detail (shipment hierarchical level)
Max. Use	2
Purpose	To identify a party by type of organization, name and code..
*Comment	The SF ship-from, and ST ship-to segments are required.
Example	N1*SF**92*1234 N1*ST**01*234567890

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**

N101	098	Entity ID Code	M ID 2/2	ST = ship-to ***<u>(ITTA Duns #)</u>***
				SF = ship-from ***<u>(Vendor #)</u>***

M102	093	Name	N	
N103	066	Identification Code Qualifier	M ID 1/2	01 = DUNS number 92 = Buyer-assigned Num
N104	067	Identification Code	M AN 2/17	Identifying number from N103

Segment	REF - Reference Numbers
Level	Detail
Max. Use	1
Purpose	To specify identifying numbers.
Comment	Used to identify reference numbers associated with the "ship-from" or "ship-to", such as ship-to dock code.
Example	REF*DK*A1

ELEM ID	ELE#	NAME	FEATURES	COMMENTS

REF01	128	Reference Number Qualifier	M ID 2/2	DK = Dock Code
				PK = Packing Slip
				SI = Shipper Number

REF02	127	Reference Number	M AN 1/30	
REF03	352	Description	N	

Segment	HL - Hierarchal Level
Level	Detail - first segment in each HL loop
Max. Use	1
Purpose	To identify dependencies among and the content of hierarchally related groups of data segments.
Comment	The HL segment is used to identify levels of detail information using hierarchical structure, such as relating line item data to shipment data. CMI will only use the shipment and item levels. Cancellation ASNs require only the shipment level.
Example	HL*3*1*I (item level)

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
HL01	628	Hierarchical ID #	M AN 1/12	1 for the first HL segment incremented by 1 in each subsequent HL segment within the transaction set.
HL02	734	Hierarchical Parent ID Number	M AN 1/12	The ID number of the parent HL segment. Required for all HL segments at the item level.
HL03	735	Hierarchical Level Code	M ID 1/2	I = item
HL04	736	Hierarchical Child Code	N	

Segment	LIN - Item Identification
Level	Detail (item hierarchical level)
Max. Use	1
Purpose	To specify basic item identification data.
Example	LIN**BP*ABC-12345-123 LIN**BP*0123456789

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
LIN01	350	Assigned Ident.	N	
LIN02	235	Product ID Qualifier	M ID 2/2	BP - buyer's part number

This should be the ITTA Part Number defined by ITTA Central Purchasing and supplied on the 830 RPS Release.

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
				VP - vendor's part number ***(Not Used)***
LIN03	234	Product ID	M AN 1/20	Part numbers are up to 20 characters in length only

Segment	SN1 - ITEM DETAIL (SHIPMENT)
Level	Detail
Max. Use	1
Purpose	To specify line item detail relative to shipment.
Comment	Used to show the quantity being shipped, the unit of measure, and cumulative year to date shipments.
Example	SN1**123*EA*1055

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
SN101	350	Assigned Ident	N	
SN102	382	Number of Units Shipped	M R 1/10	
SN103	355	Unit of Measure Code	M ID 2/2	Must use the unit of measure received on the material release "830"and must match the RPS Purchasing UOM.
SN104	646	Quantity Shipped to Date	O R 1/9	Cumulative quantity shipped for this model_year, including this ASN is required.
SN105	330	Quantity Ordered	N	
SN016	355	Unit of Measure Code	N	
SN107	728	Ret Container Load Makeup	N	
SN108	668	Line Item Status Code	N	

Segment	PRF - Purchase Order Reference
Level	Detail (item hierarchical level)
Max. Use	1
Purpose	To provide reference to a specific purchase order.
Example	PRF*PO123***880501

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
PRF01	324	Purchase Order Number	M AN 1/22	(The Purchase Order sent must be the ITTA Central Purchasing P.O. sent on the 830 Release.)
PRF02	328	Release Number	N	
PRF03	327	Chg. Order Seq. No.	N	
PRF04	323	Purchase Order Date	O DT 8/8	(Not Required)
PRF05	350	Assigned Ident.	N	
PRF06	367	Contract Number	N	

Segment	CLD - Load Detail
Level	Detail (item hierarchical level)
Max. Use	200
Purpose	To specify the number of material loads shipped.
Comments	A CLD segment is required if serial numbers are to be sent.
Example	CLD*123*12**EA

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
CLD01	622	No. Cust. Loads	M NO 1/5	Number of loads shipped
CLD02	382	No. Units Shipped	M R 1/10	Quantity shipped per load
CLD03	103	Packaging Code	N	
CLD04	357	Size	N	
CLD05	355	Unit of Meas. Code	O ID 2/2	Must be the unit of measure code received on the "830"

Segment	REF - Reference Numbers
Level	Detail (item hierarchical level)
Max. Use	200
Purpose	To specify identifying numbers.
Comments	If serial numbers are to be sent, then the REF segments are required.
Example	REF*SE*12345678

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
REF01	128	Reference NBR Qualifier	M ID 2/2	SE for serial or lot number
REF02	127	Reference Number	N AN 1/8	
REF03	352	Description	N	

Segment	CTT - Transaction Totals
Level	Summary
Max. Use	1
Purpose	To transmit a hash total for a specific element in the transaction set.
Comment	This segment is intended to provide hash totals to validate transactions completeness and correctness.
Example	CTT*2*100

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
CTT01	354	Number of Line Items	M N0 1/6	Total number of HL segments.
CTT02	347	Hash Total	M R 1/10	Required hash total of quantity shipped from all SN102 segments.
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	

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 (including the beginning (ST) and ending (SE) segments).
Example	SE*25*00001

ELEM ID	**ELE#**	**NAME**	**FEATURES**	**COMMENTS**
SE01	096	Number of Included Segments	M N0 1/6	
SE02	329	Transaction Set	M AN 4/9	Matches ST02

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

```
ISA*00*          *00*          *01*000000000      *01*009571302
*880524*1333*X*00204*000000008*0*T*\.
GS*SH*000000000*009571302*880524*1333*15*X*002040.

ST*856*00061.
BSN*00*628805*880524*1333.
DTM*011*880524*1121.
DTM*017*880524*1400.
HL*1**S.
MEA*PD*G*3412*LB.
MEA*PD*T*867*LB.
TD1*PLT07*93.
TD5*B*02*RDWY*M.
TD3*TL**7.
REF*BM*628805.
REF*PK*52803.
N1*SF**92*0000. [ITT Automotive Supplier Number (NOT YOUR Duns #)]
N1*ST*PAULE PLATING SERVICE*01*009571302. [ITT Automotive “Plant Code”]
HL*2*1*I.
LIN**BP*2001.
SN1**1110*EA*4133.
PRF*21.
CLD*2*500**EA.
REF*SE*12345678.
REF*SE*12345679.
CLD*1*110**EA.
REF*SE*12345680.
CTT*2*1110.
SE*25*00061.
```