



**830 Planning Schedule with Release
Capability
Version: 004010**

Document Control

Rev	Date	Author	Purpose for Change
1.0	Jan 7, 2007	Z. Belicajevic	Creation of Implementation Guide
1.1	Jun 1, 2007	S. Nagarajan	Updated NCM
1.2	Jul 18, 2007	S. Nagarajan	Updated ISA in example to fix typo (*00200*000000159*0*P*~~)
1.3	Aug 22, 2008	S. Nagarajan	Updated Logo
1.4	Sep 3, 2008	S. Nagarajan	Added usage lines to Loop Summary pages
1.5	Jul 27, 2010	S. Nagarajan	1. Zero requirement Parts Suppressed 2. Added N1*BY segment to send plant code 3. N1*ST segment now indicates actual ship-to Code 4. Returnable container information added to LIN segment
1.6	Aug 12, 2010	S. Nagarajan	1. Finalized specification 2. BFR11 size updated to Min 5/Max 14. LIN13 updated to Min 5/Max 14 3. REF*ZZ updated field size 4. Eliminated FOB segment 5. Fixed min field size for N102 from 1 to 2 6. Added N3 and N4 for Supplier Ship-From 7. Fixed usage for elements within LIN/ATH/REF/SHP segment from Used to Must Use 8. Fixed size of N104
1.7	Sep 1, 2010	S. Nagarajan	Fixed SE*01 in example.
1.8	Jan 4, 2012	R. Heether	Changed minimum field size for P. O. Number from 5 to 3 in the BFR11 and LIN13.
1.9	Dec 10, 2012	R. Heether	Changed maximum field size for Supplier Code from 8 to 9 in the N1-SU-04 field.
1.10	Mar 1, 2014	R. Heether	Updated Logo. Updated Example.
1.11	Aug 13, 2015	Brian Stone	Updated logo, added TOC, fixed formatting, updated plant code list in N1 segment.
1.12	Mar 12, 2020	Scott Clemence	Updated the description of the ATH03 data segment
1.13	September 24, 2020	Scott Clemence	Added REF K6}SPOT BUY to the guideline file
1.14	July 6, 2022	Scott Clemence	The following note was added to data element REF_02 WHERE REF_01 = 'PK' <i>If there is no Last Receipt detail available, then a value of 'NO_PACKLISTDATA' will appear.</i>
2.0	November 07, 2022	Scott Clemence	BFR_01: New value of '26' added to the code list REF_02 WHERE REF_01 = 'ZZ' User Note 1 Added N1_04 WHERE N1_01 = 'ST' User Note 1 Updated-URL Updated LIN_01: ADDED User Note 2 LIN_11 UPDATED: User Note 1 Updated-URL LIN_13: ADDED User Note 2 LIN LOOP – REF Segment: • REF_02: Hardcode value added 'ORDER REMARKS' • REF_03: Order Remarks previously transmitted in the REF_02 are now in the REF_03 ATH_01: New value of 'PR' added to the code list ATH_03: User Note 2 Added FST_01: User Note 2 added FST_02: New value 'W' added to the code list FST_03: New value of 'A' added to the code list

			FST_04: User Note 2 Added FST_08, FST_09, FST_10: New segments added to the map WHERE SHP_01 = '01' SHP_02: User Note 2 Added SHP_03: User Notes 1 and 2 Added SHP_04: User Note 2 Added WHERE SHP_01 = '02' SHP_02: User Note 2 Added SHP_03: User Notes 1 and 2 Added SHP_04: User Note 2 Added
2.10	March 9, 2024	Scott Clemence	1. LOGO Update 2. REF_01 = 'ZZ'; REF_02 = 'CSCN' Heading Updated from OPTIONAL to MANDATORY

Table of Contents

Planning Schedule with Release Capability	5
Interchange Control Header	10
Functional Group Header	12
Transaction Set Header	14
Beginning Segment for Planning Schedule	15
Reference Identification	17
Carrier Details (Special Handling, or Hazardous Materials, or Both)	19
Loop N1 (Buying Party)	20
Name (Buying Party)	21
Loop N1 (Supplier)	23
Name (Supplier)	24
Address Information	25
Geographic Location	26
Loop N1 (Ship-To)	27
Name (Ship-To)	28
Address Information	29
Geographic Location	30
Administrative Communications Contact	31
Loop LIN	32
Item Identification	33
Unit Detail	36
Part Release Status	37
Reference Identification	38
Resource Authorization	39
Loop FST	41
Forecast Schedule	42
Loop SHP	44
Shipped/Received Information	45
Shipped/Received Information	47
Reference Identification	49
Transaction Totals	50
Transaction Set Trailer	51
Functional Group Trailer	52
Interchange Control Trailer	53

830

Planning Schedule with Release Capability

Functional Group=PS

This Draft Standard for Trial Use contains the format and establishes the data contents of the Planning Schedule with Release Capability Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business practice relative to the transfer of forecasting/material release information between organizations. The planning schedule transaction may be used in various ways or in a combination of ways, such as: (1) a simple forecast; (2) a forecast with the buyer's authorization for the seller to commit to resources, such as labor or material; (3) a forecast that is also used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets," such as weekly, monthly, or quarterly. The order release forecast may also contain all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BFR	Beginning Segment for Planning Schedule	M	1			Must use
050	REF	Reference Identification (CSCN)	O	12			Must use
050	REF	Reference Identification (SPOT BUY)	O	12			Used
210	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5			Used

<u>LOOP ID - N1</u> (Buyer)					<u>200</u>		<u>Must Use</u>
230	N1	Name (Buyer)	O	1			Must use
<u>LOOP ID - N1</u> (Supplier)					<u>200</u>		<u>Must Use</u>
230	N1	Name (Supplier)	O	1			Must use
250	N3	Address Information	O	2			Used
260	N4	Geographic Location	O	1			Used
<u>LOOP ID - N1</u> (Ship -To)					<u>200</u>		<u>Must Use</u>
230	N1	Name (Ship To)	O	1			Must use
250	N3	Address Information	O	2			Used
260	N4	Geographic Location	O	1			Used
280	PER	Administrative Communications Contact	O	3			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<u>LOOP ID - LIN</u>					<u>>1</u>		<u>Used</u>
010	LIN	Item Identification	M	1			Must use
020	UIT	Unit Detail	O	1			Used
130	PRS	Part Release Status	O	1			Used
140	REF	Reference Identification	O	12			Used

230	ATH	(Part Related Remarks) Resource Authorization	O	20		Used
LOOP ID - FST				>1	N2/410L	Used
410	FST	Forecast Schedule	O	1	N2/410	Used
LOOP ID - SHP				25		Used
470	SHP	Shipped/Received Information	O	1		Used
470	SHP	Shipped/Received Information	O	1		Used
480	REF	Reference Identification (Last Packing Slip)	O	5		Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		N3/010	Must Use
020	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

- 2/410L At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
- 2/410 At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
- 3/010 Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

User Note 1:

Please Note:

You will see some elements listed as "Optional" per ANSI X12 Standard ("Req" column), but are considered "Mandatory" ("Usage" column) per CNH's business rules.

User Note 2:

Example:

```
ISA|00|      |00|      |01|601943181  |01|123456789  |100714|1657|U|00401|000000152|0|P|>
GS|PS|601943181|123456789|20100714|1657|152|X|004010
ST|830|1520001
BFR|05||106BJ1525520|SH|A|20100714|20120111|20100712|||70075984
REF|ZZ|CSCN
N1|BY|CNH INDUSTRIAL AMERICA LLC-BENSON PLANT|92|BN
N1|SU|TEST BEARING CO.|92|CL968
N3|250 BISHOPS WAY
N4|BROOKFIELD|WI|53005|USA
N1|ST|CNH INDUSTRIAL BENSON WAREHOUSE|92|BNWH
N3|140 30TH AVE SE
N4|BENSON|MN|56215|US
PER|EX|NAGARAJAN,SUNDAR|TE|2626366823
LIN|00001|BP|242834A2|DR|D|PD|BEARING, FAN SHAFT|VP|GRFD1 3/4 L/C A|||||RC|45|PE|50
UIT|PC
FST|72|D|D|20100806
FST|40|D|D|20101119
```

FST|56|D|D|20110321
 FST|56|D|D|20110405
 FST|100|D|D|20110419
 FST|20|D|D|20110503
 SHP|01|8|050|20100625
 SHP|02|109|051|20100101
 REF|PK|0088155058
 LIN|00002|BP|86986542|DR|A|PD|BEARING, 70 MM 4 BLT FLNG|VP|YCJ-70||||RC|51|PE|50
 UIT|PC
 ATH|FI|20101001|180||20100101
 ATH|MT|20101022|10||20100101
 FST|8|A|D|20100615
 FST|10|C|D|20100719
 FST|10|C|D|20100804
 FST|10|C|D|20100818
 FST|10|C|D|20100901
 FST|10|C|D|20100917
 FST|10|C|D|20101001
 FST|10|Z|D|20101022
 FST|10|D|D|20101117
 FST|10|D|D|20101126
 FST|10|D|D|20101213
 FST|10|D|D|20110104
 FST|18|D|D|20110118
 FST|16|D|D|20110201
 FST|10|D|D|20110221
 SHP|01|2|050|20100712
 SHP|02|102|051|20100101
 REF|PK|88131844
 LIN|00003|BP|86999734|DR|C|PD|COLLAR, W/SET SCREW - LOCKING|VP|S1112 YZP||||RC|100|PE|2
 UIT|PC
 ATH|FI|20100716|100||20100101
 FST|100|C|D|20100716
 FST|100|D|D|20110405
 LIN|00004|BP|87444626|DR|C|PD|BEARING/A COMPACTOR AUGER|VP|RCJC2 15/16||||RC|45|PE|50
 UIT|PC
 FST|3|A|D|20100608
 FST|24|A|D|20100615
 FST|24|A|D|20100622
 FST|30|D|D|20101119
 FST|30|D|D|20101129
 SHP|01|21|050|20100615
 SHP|02|88|051|20100101
 REF|PK|88068808
 CTT|4
 SE|61|1520001
 GE|1|152
 IEA|1|000000152

User Note 3: SPOT Buy PO Example

ISA|00| |00| |01|601943181 |ZZ|AG421570390 |200924|0230|U|00401|000004215|0|P|>
 GS|PS|601943181|AG421570390|20200924|0230|4215|X|004010
 ST|830|42150001
 BFR|05||208MJ1502120|SH|A|20200924|20200924|20200923|||78012992
 REF|ZZ|CSCN
 REF|K6|SPOT BUY
 N1|BY|CNH BENSON|92|BN
 N1|SU|ALFAGOMMA|92|BLM41
 N3|3520 WEST AVENUE
 N4|BURLINGTON|IA|52601|USA
 N1|ST|CNH BENSON|92|BNWH
 N3|140 30TH AVE SE
 N4|BENSON|MN|562151390|US
 LIN|01|BP|84368106|DR|B|PD|HOSE, HYD ASSY, 08 X 3062MM

UIT|PC
 ATH|FI|20200924|3||20200101
 FST|3|C|D|20200924
 CTT|1
 SE|17|42150001
 GE|1|4215
 IEA|1|000004215

User Note 4: CANCELLED DEMAND EXAMPLE

ISA|00| |00| |01|601943181 |12|3167948601 |220616|1821|U|00401|000000022|0|P|>
 GS|PS|601943181|3167948601|20220616|1821|22|X|004010
 ST|830|220001
 BFR|26||388|SH|A|20220511|20220511|20220615||||L01771001
 REF|ZZ|CSCN
 N1|BY|RACINE TRACTOR|92|CL
 N1|SU|TEST SUPPLIER|92|GN183
 N3|521 MAIN STREET
 N4|RACINE|WI|53704|USA
 N1|ST|CNH AMERICA LLC|92|CLS9
 N3|C/O OAKLAND LOGISTICS|7100 DURAND AVENUE SUITE 300
 N4|STURTEVANT|WI|53177
 PER|EX|KAREN MUELLER|TE|(262) 770-1502
 LIN|00205|BP|51660625|DR|D|PD|DECAL CHROMAX PLM EMBLEM
 UIT|EA
 ATH|PR|20220101|0||20200101
 FST|0|W|A|20220615||||BE|CURRENTLY, Part Has NO DEMAND|PS
 SHP|01|60|050|20220615
 SHP|02|1550|051|20200101
 REF|PK|646560
 LIN|00241|BP|90373126|DR|A|PD|DECAL,T8.350 HOOD BP RP
 UIT|EA
 FST|10|A|D|20220511
 SHP|01|10|050|20220407
 SHP|02|65|051|20201118
 REF|PK|638114
 CTT|2
 SE|26|220001
 GE|1|22
 IEA|1|000000022

User Note 5:

Here is a table showing how some critical data elements which must be returned to CNH Industrial for everything to work properly

Business Data Element	CNH INBOUND 830	OUTBOUND to CNH 856 ASN	OUTBOUND to CNH 810 INVOICE
Plant Code	N104 WHERE N101 = 'BY'	N104 WHERE N101 = 'BY'	N104 WHERE N101 = 'BT'
Shipto Code/Unloading Point	N104 WHERE N101 = 'ST'	N104 WHERE N101 = 'ST'	N104 WHERE N101 = 'ST'
Vendor Code	N104 WHERE N101 = 'SU'	N104 WHERE N101 = 'SF'	N104 WHERE N101 = 'SU'

Here is an explanation of the above table

The CNH_PLANT_CODE (N104 WHERE N101 = 'BY') and CNH_SHIPTO_CODE (N104 WHERE N101 = 'ST') are separate and independent data elements and must be managed in your internal business system as separate and independent data elements. The relationship between CNH_PLANT_CODE and CNH_SHIPTO_CODE is a 1 TO MANY relationship

where any given CNH_PLANT_CODE can and do have multiple SHIPTO_CODES and the same SHIPTO_CODE can be used by multiple plant codes. CNH Industrial does not use the N101 = 'BY' in a traditional sense. Traditionally, the N101 = 'BY' represents a purchasing legal entity, but in CNH's case, the N101 = 'BY' represents the CNH_PLANT_CODE. The CNH Industrial 830 document DOES NOT transmit legal entity information in the N1_02 WHERE N1_01 = 'BY'.

For CNH INDUSTRIAL what defines a unique SHIPTO_LOCATION (CUSTOMER_ACCOUNT_LOCATION) is the a combination of the CNH_PLANT_CODE and CNH_SHIPTO_CODE. In most major ERP business systems, what CNH Industrial provides as a CNH_PLANT_CODE functions like a CUSTOMER_SHIPTO_CODE and what CNH Industrial provides as a SHIPTO_CODE functions like a CUSTOMER_UNLOADING_POINT. Think of a customer unloading point as a separate dock or warehouse location which supports the CNH_PLANT_CODE. If your internal business system supports the CUSTOMER_UNLOADING_POINT concept, then this is the recommended configuration of your internal business system. If your internal business system does not support the CUSTOMER_UNLOADING_POINT concept, then the recommended configuration of the integration process between your EDI application and your internal business system is that the primary lookup to determine the correct customer account location be on a concatenation of the PLANT_CODE and SHIPTO_CODE separated by a value such as a TILDE, COMMA or UNDERSCORE. In your internal business system, setup your customer account locations as described, EDI does the lookup into your business system looking for this concatenated value to apply the 830 to the correct CUSTOMER_ACCOUNT_LOCATION and then for OUTBOUND documents such as ASN's and INVOICES, do a de-concatenate function and map to the correct N4 VALUE where N101 = 'BY' or N101 = 'ST'

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information All valid standard codes are used.	M	ID	2/2	Must use				
ISA02	I02	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use				
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information All valid standard codes are used.	M	ID	2/2	Must use				
ISA04	I04	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use				
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use				
		<table><tr><th>Code</th><th>Name</th></tr><tr><td>01</td><td>Duns (Dun & Bradstreet)</td></tr></table>	Code	Name	01	Duns (Dun & Bradstreet)				
Code	Name									
01	Duns (Dun & Bradstreet)									
ISA06	I06	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element User Note 1: <i>CNH ISA_06 Production ID: "601943181"</i> <i>CNH ISA_06 Test ID: "601943181TEST"</i>	M	AN	15/15	Must use				
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use				
ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as	M	AN	15/15	Must use				

		a receiving ID to route data to them								
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use				
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use				
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used.	M	ID	1/1	Must use				
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>00401</td><td>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</td></tr></table>	<u>Code</u>	<u>Name</u>	00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use
<u>Code</u>	<u>Name</u>									
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997									
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use				
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>0</td><td>No Acknowledgment Requested</td></tr></table>	<u>Code</u>	<u>Name</u>	0	No Acknowledgment Requested	M	ID	1/1	Must use
<u>Code</u>	<u>Name</u>									
0	No Acknowledgment Requested									
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.	M	ID	1/1	Must use				
ISA16	I15	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		1/1	Must use				

GS**Functional Group Header**

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

To indicate the beginning of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		Code Name PS Planning Schedule with Release Capability (830)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
		User Note 1: CNH GS_02 Production ID: "601943181" CNH GS_02 Test ID: "601943181TEST"				
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 All valid standard codes are used.	M	ID	1/2	Must use
GS08	480	Version / Release / Industry Identifier Code Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS	M	AN	1/12	Must use

segment is T, then other formats are allowed

Code

Name

004010

Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		Code Name 830 Planning Schedule with Release Capability				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BFR Beginning Segment for Planning Schedule

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage								
BFR01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set <table><tr><th>Code</th><th>Name</th></tr><tr><td>00</td><td>Original</td></tr><tr><td>05</td><td>Replace</td></tr><tr><td>26</td><td>Replace Specified Buyers Parts Only</td></tr></table>	Code	Name	00	Original	05	Replace	26	Replace Specified Buyers Parts Only	M	ID	2/2	Must use
Code	Name													
00	Original													
05	Replace													
26	Replace Specified Buyers Parts Only													
BFR03	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	X	AN	1/30	Must use								
BFR04	675	Schedule Type Qualifier Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast <table><tr><th>Code</th><th>Name</th></tr><tr><td>SH</td><td>Shipment Based</td></tr></table>	Code	Name	SH	Shipment Based	M	ID	2/2	Must use				
Code	Name													
SH	Shipment Based													
BFR05	676	Schedule Quantity Qualifier Description: Code identifying the type of quantities used when defining a schedule or forecast <table><tr><th>Code</th><th>Name</th></tr><tr><td>A</td><td>Actual Discrete Quantities</td></tr></table>	Code	Name	A	Actual Discrete Quantities	M	ID	1/1	Must use				
Code	Name													
A	Actual Discrete Quantities													
BFR06	373	Date Description: Date expressed as CCYYMMDD User Note 1: Earliest due date for all parts (Earliest FST_04 date for all LIN's - Line Items)	M	DT	8/8	Must use								
BFR07	373	Date Description: Date expressed as CCYYMMDD User Note 1: Latest due date for all parts (Latest FST_04 date for all LIN's - Line Items)	O	DT	8/8	Must use								
BFR08	373	Date Description: Date expressed as CCYYMMDD User Note 1: Date forecast generated	M	DT	8/8	Must use								
BFR11	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser User Note 1: If not present, the Purchase order will be provided in LIN_13 with LIN_12 = "PO". If present, the value of this field should be	O	AN	3/14	Used								

mapped to the PRF_01 (Item HL loop) of the 856 message.

Syntax Rules:

1. R0203 - At least one of BFR02 or BFR03 is required.

Semantics:

1. If BFR01 contains the value "04" (Net Change), BFR09 is required.
2. BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.
3. BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins.
4. BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends.
5. BFR08 is the date forecast generated: The date the forecast data was generated.
6. BFR09 is the date forecast updated: The date the forecast was updated with "net change" data. (Used only when data element 353 in BFR01 contains the value "04", meaning net change.)

User Note 1:

Example:

BFR|05||106BJ1525520|SH|A|20100714|20120111|20100712|||70075984
BFR|26||2252F4506420|SH|A|20220330|20220330|20220603|||70099568

REF Reference Identification (CSCN)

Pos: 050	Max: 12
Heading - MANDATORY	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name ZZ Mutually Defined				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	4/4	Must use
		User Note 1: Value of 'CSCN' will always appear and this value must be returned on all subsequent documents				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

The value from this REF_02 (having REF_01 = "ZZ") is required to be returned in REF_02 with REF_01 = "ZZ" (REF in the shipment HL loop) of the 856 message, and REF_02 with REF_01 = "ZZ" (REF at the header level) of the 810 message, to allow CNH to perform the proper routing of the message.

Example:

REF|ZZ|CSCN

REF Reference Identification (SPOT BUY)

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Optional

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Used
		Code Name K6 Purchase Description				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier USER Note: Displayed value will be 'SPOT BUY'	X	AN	4/4	Used

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

When this segment exists, it indicates that the PO is a SPOT BUY PO or a one-time only use PO

Example:

REF|K6|SPOT BUY

TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Pos: 210	Max: 5
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify transportation special handling requirements, or hazardous materials information, or both

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD401	152	Special Handling Code Description: Code specifying special transportation handling instructions	X	ID	3/3	Must use
		Code Name ZZZ Mutually Defined				
TD404	352	Description Description: A free-form description to clarify the related data elements and their content User Note 1: <i>May contain special handling information</i>	X	AN	1/80	Must use

Syntax Rules:

1. R010204 - At least one of TD401, TD402 or TD404 is required.
2. C0203 - If TD402 is present, then TD403 is required.

Semantics:

1. TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

Loop N1 (Buying Party)

Pos: 230	Repeat: 200
	Optional
Loop: N1	Elements: N/A

User Option (Usage): Must Use

To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
230	N1	Name (Buying Party)	O	1		Must use

N1 Name (Buying Party)

Pos: 230	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

Loop Path: N1

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Name BY Buying Party (Purchaser)	M	ID	2/2	Must use
N102	93	Name Description: Free-form name User Note 1: CNH Plant Name	X	AN	1/60	Must Use
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) Code Name 92 Assigned by Buyer or Buyer's Agent	X	ID	2/2	Must use
N104	67	Identification Code Description: Code identifying a party or other code User Note 1: Plant Code The value of this field is required to be returned in the N1_04 field (with N1_01 = "BY") of the 856 (Advanced Shipment Notice) message and N1_04 field (with N1_01 = "BT") of the 810 (Invoice) message. User Note 2: This value does not represent the CNH Purchasing Legal Entity associated with the purchase order document. User Note 3: To receive a list of CNH plant codes which your company supports, please review CSCN Delivery Schedules	X	AN	2/2	Must use

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

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.

User Note 1:

Example:

N1|BY|CNH INDUSTRIAL AMERICA LLC-BENSON PLANT|92|BN

Loop N1 (Supplier)

Pos: 230	Repeat: 200
	Optional
Loop: N1	Elements: N/A

User Option (Usage): Must Use

To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
230	N1	Name (Supplier)	O	1		Must use
250	N3	Address Information	O	2		Used
260	N4	Geographic Location	O	1		Used

N1 Name (Supplier)

Pos: 230	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

Loop Path: N1

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/2	Must use
		Code Name				
		SU Supplier/Manufacturer				
N102	93	Name Description: Free-form name User Note 1: <i>Supplier's name</i>	X	AN	1/60	Must Use
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	2/2	Must use
		Code Name				
		92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code User Note 1: <i>Supplier's Code.</i> <i>The value of this field is required to be returned in the N1_04 field (with N1_01 = "SF") of the 856 (Advanced Shipment Notice) message and N1_04 field (with N1_01 = "SU") of the 810 (Invoice) message.</i>	X	AN	4/9	Must use

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

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.

User Note 1:

Example:

N1|SU|TEST BEARING CO.|92|CL968~

N3

Address Information

(Supplier Ship-From Address)

Pos: 250	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

Loop Path: N1**User Option (Usage):** Used

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information User Note 1: <i>Ship-From address information</i>	M	AN	1/55	Must use
N302	166	Address Information Description: Address information	O	AN	1/55	Used

User Note 1:

Example:
N3|140 30TH AVE SE~

N4

Geographic Location (Supplier Ship-From Address)

Pos: 260	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

Loop Path: N1

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name User Note 1: <i>Ship-From City</i>	O	AN	2/30	Must Use
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency User Note 1: <i>Ship-From State or Province</i>	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) User Note 1: <i>Ship-From zip code</i>	O	ID	5/15	Must Use
N404	26	Country Code Description: Code identifying the country User Note 1: <i>Ship-From Country Code</i>	O	ID	2/3	Must Use

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

User Note 1:

Example:

N4|BENSON|MN|56215|US~

Loop N1 (Ship-To)

Pos: 230	Repeat: 200
	Optional
Loop: N1	Elements: N/A

User Option (Usage): Must Use

To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
230	N1	Name (Ship-To)	O	1		Must use
250	N3	Address Information	O	2		Used
260	N4	Geographic Location	O	1		Used
280	PER	Administrative Communications Contact	O	3		Used

N1 Name (Ship-To)

Pos: 230	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

Loop Path: N1

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>ST</td><td>Ship To</td></tr></table>	<u>Code</u>	<u>Name</u>	ST	Ship To	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>									
ST	Ship To									
N102	93	Name Description: Free-form name User Note 1: <i>CNH Ship to Name</i>	X	AN	1/60	Must Use				
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>92</td><td>Assigned by Buyer or Buyer's Agent</td></tr></table>	<u>Code</u>	<u>Name</u>	92	Assigned by Buyer or Buyer's Agent	X	ID	2/2	Must use
<u>Code</u>	<u>Name</u>									
92	Assigned by Buyer or Buyer's Agent									
N104	67	Identification Code Description: Code identifying a party or other code User Note 1: <i>The value of this field is required to be returned in the N1_04 field (with N1_01 = "ST") of the 856 (Advanced Shipment Notice) message and N1_04 field (with N1_01 = "ST") of the 810 (Invoice) message.</i> User Note 2: <i>To obtain a list of valid ship to codes by CNH plant - Go To https://supplier.cnhind.com/ Click on Documents, EDI, CNH Plant and Ship To Addresses</i>	X	AN	2/5	Must use				

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

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.

User Note 1:

Example:

N1|ST|CNH INDUSTRIAL BENSON WAREHOUSE|92|BNWH~

N3

Address Information

(Supplier Ship-To Address)

Pos: 250	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

Loop Path: N1**User Option (Usage):** Used

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information User Note 1: <i>Ship To address information</i>	M	AN	1/55	Must use
N302	166	Address Information Description: Address information	O	AN	1/55	Used

User Note 1:

Example:
N3|140 30TH AVE SE~

N4

Geographic Location (Supplier Ship-To Address)

Pos: 260	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

Loop Path: N1

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name User Note 1: <i>Ship-To City</i>	O	AN	2/30	Must Use
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency User Note 1: <i>Ship-To State or Province</i>	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) User Note 1: <i>Ship-To zip code</i>	O	ID	5/15	Must Use
N404	26	Country Code Description: Code identifying the country User Note 1: <i>Ship-To Country Code</i>	O	ID	2/3	Must Use

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

User Note 1:

Example:

N4|BENSON|MN|56215|US~

PER Administrative Communications Contact

Pos: 280	Max: 3
Heading - Optional	
Loop: N1	Elements: 8

Loop Path: N1

User Option (Usage): Used

To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named All valid standard codes are used.	M	ID	2/2	Must use
PER02	93	Name Description: Free-form name	O	AN	1/60	Must use
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number All valid standard codes are used.	X	ID	2/2	Must use
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Must use
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number Code Name FX Facsimile	X	ID	2/2	Used
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER07	365	Communication Number Qualifier Description: Code identifying the type of communication number Code Name EM Electronic Mail	X	ID	2/2	Used
PER08	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

User Note 1:

Example:

PER|EX|NAGARAJAN,SUNDAR|TE|2626366823

Loop LIN

Pos: 010	Repeat: >1
Mandatory	
Loop: LIN	Elements: N/A

User Option (Usage): Used

To specify basic item identification data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	LIN	Item Identification	M	1		Must use
020	UIT	Unit Detail	O	1		Used
130	PRS	Part Release Status	O	1		Used
140	REF	Reference Identification	O	12		Used
230	ATH	Resource Authorization	O	20		Used
410		Loop FST	O		>1	Used
470		Loop SHP	O		25	Used

LIN Item Identification

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 11

Loop Path: LIN

User Option (Usage): Must use

To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set User Note 1: <i>PO Line Item number. The value of this field should be mapped to the LIN_01 (Item HL loop) of the 856 message.</i> User Note 2: <i>PO Line Item number. The value of this field should be mapped to the IT1_01 of the 810 INVOICE message.</i>	O	AN	1/5	Must Use
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name BP Buyer's Part Number	M	ID	2/2	Must use
LIN03	234	Product/Service ID Description: Identifying number for a product or service User Note 1: <i>CNH Part Number</i>	M	AN	1/30	Must use
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name DR Drawing Revision Number	X	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service User Note 1: <i>Drawing Revision</i>	X	AN	1/48	Used
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name PD Part Number Description	X	ID	2/2	Used
LIN07	234	Product/Service ID Description: Identifying number for a product or service User Note 1: <i>Part Description</i>	X	AN	1/48	Used
LIN08	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name VP Vendor's (Seller's) Part Number	X	ID	2/2	Used
LIN09	234	Product/Service ID Description: Identifying number for a product or service User Note 1: <i>Vendor's Part Number</i>	X	AN	1/48	Used
LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used

		<u>Code</u>	<u>Name</u>				
		ZZ	Mutually Defined				
LIN11	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					
		User Note 1:					
		<i>Please check CSCN (https://supplier.cnhind.com/) under Documents, EDI, Other Useful Information for ship code descriptions.</i>					
LIN12	235	Product/Service ID Qualifier		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		PO	Purchase Order Number				
LIN13	234	Product/Service ID		X	AN	3/14	Used
		Description: Identifying number for a product or service					
		User Note 1:					
		<i>Purchase Order Number will be provided here if not present in BFR_11. If present, the value of this field should be mapped to the PRF_01 (Item HL loop) of the 856 message.</i>					
		User Note 2:					
		<i>Purchase Order Number will be provided here if not present in BFR_11. If present, the value of this field should be mapped to the 810 INVOICE message</i>					
LIN14	235	Product/Service ID Qualifier		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		RC	Returnable Container Number				
LIN15	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					
		User Note 1:					
		<i>Returnable container number is the number used for a specific container in the container management system</i>					
LIN16	235	Product/Service ID Qualifier		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		PE	Pieces				
LIN17	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					
		User Note 1:					
		<i>Represents the standard pack quantity for the returnable container</i>					

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

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.

User Note 1:

Example:

LIN|00002|BP|86986542|DR|A|PD|BEARING, 70 MM 4 BLT FLNG|VP|YCJ-70||||RC|51|PE|50~

UIT Unit Detail

Pos: 020	Max: 1
Detail - Optional	
Loop: LIN	Elements: 1

Loop Path: LIN

User Option (Usage): Used

To specify item unit data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
UIT01	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	M	Comp		Must use
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	M	ID	2/2	Must use

Comments:

1. If C001-02 is not used, its value is to be interpreted as 1.
2. If C001-03 is not used, its value is to be interpreted as 1.
3. If C001-05 is not used, its value is to be interpreted as 1.
4. If C001-06 is not used, its value is to be interpreted as 1.
5. If C001-08 is not used, its value is to be interpreted as 1.
6. If C001-09 is not used, its value is to be interpreted as 1.
7. If C001-11 is not used, its value is to be interpreted as 1.
8. If C001-12 is not used, its value is to be interpreted as 1.
9. If C001-14 is not used, its value is to be interpreted as 1.
10. If C001-15 is not used, its value is to be interpreted as 1.

Syntax Rules:

1. C0302 - If UIT03 is present, then UIT02 is required.

User Note 1:

Example:
UIT|PC~

PRS Part Release Status

Pos: 130	Max: 1
Detail - Optional	
Loop: LIN	Elements: 1

Loop Path: LIN

User Option (Usage): Used

To indicate the status of the part being ordered or forecast with respect to this material release or planning document

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRS01	682	Part Release Status Code Description: Code identifying the status of the specific part number being released or forecast or being used in an engineering change	M	ID	1/1	Must use
		Code	Name			
		3	Part will be cancelled at the Material Quantity			
		7	Final Release for this Cancelled Part			

User Note 1:

Example:
PRS*3~

REF Reference Identification

(Part Related Remarks)

Pos: 140	Max: 12
Detail - Optional	
Loop: LIN	Elements: 3

Loop Path: LIN

User Option (Usage): Used when there are ORDER REMARKS to communicate

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name ZZ Mutually Defined				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
		User Note 1: <i>Hardcode Value 'ORDER REMARKS'</i>				
REF03	352	Description: Description: A free form description to clarify the related data elements and their content User Note 1: <i>Part Related Remarks</i>	X	AN	1/80	Used

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

Example:

REF|ZZ|ORDER REMARKS|3147

REF|ZZ|ORDER REMARKS|RL-KLT BOX 298 X 198 X 147

ATH Resource Authorization

Pos: 230	Max: 20
Detail - Optional	
Loop: LIN	Elements: 4

Loop Path: LIN

User Option (Usage): Used

To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ATH01	672	Resource Authorization Code Description: Code identifying the resource which the buyer is authorizing the seller to commit to	M	ID	2/2	Must use
		Code Name				
		FI Finished (Labor, Material, and Overhead/Burden)				
		MT Material				
		PR Previously Released Requirement				
		ZZ Fabrication Authorization (Mutually Defined)				
ATH02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Must use
		User Note 1: <i>Resource Authorization Thru-Date</i>				
ATH03	380	Quantity Description: Numeric value of quantity	X	R	1/15	Must Use
		User Note 1: <i>Cumulative Approved Quantity for the resource authorization code (ATH01) and the resource authorization date (ATH02)</i>				
		User Note 2: <i>Will be a value of zero (0) if there is no current demand for the specific part number</i>				
ATH05	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Must Use
		User Note 1: <i>Cumulative Start Date</i>				

Syntax Rules:

1. R0203 - At least one of ATH02 or ATH03 is required.
2. C0305 - If ATH03 is present, then ATH05 is required.
3. C0405 - If ATH04 is present, then ATH05 is required.

Semantics:

1. ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.
2. ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02).
3. ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other.

Comments:

1. It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.
2. ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.

User Note 1:

Example:

ATH|FI|20101001|180||20100101

ATH|MT|20101022|10||20100101

ATH|PR|20220101|0||20200101

No demand at the present time

Loop FST

Pos: 410	Repeat: >1
Optional	
Loop: FST	Elements: N/A

Loop Path: LIN

User Option (Usage): Used

To specify the forecasted dates and quantities

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
410	FST	Forecast Schedule	O	1		Used

FST Forecast Schedule

Pos: 410	Max: 1
Detail - Optional	
Loop: FST	Elements: 4

Loop Path: LIN-FST

User Option (Usage): Used

To specify the forecasted dates and quantities

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage												
FST01	380	Quantity Description: Numeric value of quantity User Note 1: <i>Actual Discrete Quantity</i> User Note 2: Will be a value of zero (0) if there is no current demand for the specific part number	M	R	1/15	Must use												
FST02	680	Forecast Qualifier Description: Code specifying the sender's confidence level of the forecast data or an action associated with a forecast <table><tr><th>Code</th><th>Name</th></tr><tr><td>A</td><td>Past Due</td></tr><tr><td>C</td><td>Firm</td></tr><tr><td>D</td><td>Planning</td></tr><tr><td>W</td><td>Cancellation</td></tr><tr><td>Z</td><td>Raw Material</td></tr></table>	Code	Name	A	Past Due	C	Firm	D	Planning	W	Cancellation	Z	Raw Material	M	ID	1/1	Must use
Code	Name																	
A	Past Due																	
C	Firm																	
D	Planning																	
W	Cancellation																	
Z	Raw Material																	
FST03	681	Forecast Timing Qualifier Description: Code specifying interval grouping of the forecast User Note 1: <i>Qualifier "D" indicates daily bucket</i> <table><tr><th>Code</th><th>Name</th></tr><tr><td>A</td><td>Annually (Calendar Year)</td></tr><tr><td>D</td><td>Daily Bucket</td></tr><tr><td>M</td><td>Monthly Bucket (Calendar Months)</td></tr><tr><td>W</td><td>Weekly Bucket (Monday through Sunday)</td></tr></table>	Code	Name	A	Annually (Calendar Year)	D	Daily Bucket	M	Monthly Bucket (Calendar Months)	W	Weekly Bucket (Monday through Sunday)	M	ID	1/1	Must use		
Code	Name																	
A	Annually (Calendar Year)																	
D	Daily Bucket																	
M	Monthly Bucket (Calendar Months)																	
W	Weekly Bucket (Monday through Sunday)																	
FST04	373	Date Description: Date expressed as CCYYMMDD User Note 1: <i>Shipment based date</i> User Note 2: If there is no demand for the specific part number, this value will represent the schedule generation date	M	DT	8/8	Must use												
FST08	128	Reference Identification Qualifier Description: Code qualifying the reference identification User Note 1: Used when there is no demand for the specific part number BE: Business Activity	X	ID	2/3	Used												

FST09	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier User Note 1: <i>If the specific part number has no requirements at the present time, then the following value will be present 'CURRENTLY, Part Has NO DEMAND'</i>	X	AN	1/30	Used
FST10	783	Planning Schedule Type Code Description: Code identifying the type of planning schedule used User Note 1: Used when there is no demand for the specific part number PS: Purchaser to Seller	O	ID	2/2	Used

Syntax Rules:

1. P0607 - If either FST06 or FST07 is present, then the other is required.
2. P0809 - If either FST08 or FST09 is present, then the other is required.

Semantics:

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.

User Note 1:

Example:

```

FST|8|A|D|20100615      A = Past Due
FST|10|C|D|20100719     C = Firm
FST|10|C|D|20100804
FST|10|C|D|20100818
FST|10|C|D|20100901
FST|10|C|D|20100917
FST|10|C|D|20101001
FST|10|Z|D|20101022     Z = Raw Material
FST|10|D|D|20101117     D = Planning
FST|10|D|D|20101126
FST|10|D|D|20101213

```

FST|0|W|A|20220609||||BE|CURRENTLY, Part Has NO DEMAND|PS No Demand at the present time

Loop SHP

Pos: 470	Repeat: 25
Optional	
Loop: SHP	Elements: N/A

Loop Path: LIN

User Option (Usage): Used

To specify shipment and/or receipt information

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
470	SHP	Shipped/Received Information	O	1		Used
470	SHP	Shipped/Received Information	O	1		Used
480	REF	Reference Identification	O	5		Used

SHP Shipped/Received Information

Pos: 470	Max: 1
Detail - Optional	
Loop: SHP	Elements: 4

Loop Path: LIN-SHP

User Option (Usage): Used

To specify shipment and/or receipt information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SHP01	673	Quantity Qualifier Description: Code specifying the type of quantity <u>Code</u> <u>Name</u> 01 Discrete Quantity	O	ID	2/2	Must Use
SHP02	380	Quantity Description: Numeric value of quantity User Note 1: <i>Last Quantity Received</i> User Note 2: Will be a value of zero (0) if there is no previous receipt quantity specific part number	X	R	1/15	Must Use
SHP03	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time User Note 1: If there is no previous receipt quantity, this value will be left blank User Note 2: If there is a previous receipt quantity, then the following code will be populated <u>Code</u> <u>Name</u> 050 Received	X	ID	3/3	Used
SHP04	373	Date Description: Date expressed as CCYYMMDD User Note 1: <i>Last Receipt Date</i> User Note 2: If there is no previous receipt quantity, this value will be left blank	X	DT	8/8	Used

Syntax Rules:

1. C0102 - If SHP01 is present, then SHP02 is required.
2. L030405 - If SHP03 is present, then at least one of SHP04 or SHP05 is required.
3. C0403 - If SHP04 is present, then SHP03 is required.
4. C0503 - If SHP05 is present, then SHP03 is required.

Semantics:

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.

User Note 1:

Example:

SHP|01|2|050|20100712

SHP|01|0

No PREVIOUS RECEIPT Information exists

SHP Shipped/Received Information

Pos: 470	Max: 1
Detail - Optional	
Loop: SHP	Elements: 4

Loop Path: LIN-SHP

User Option (Usage): Used

To specify shipment and/or receipt information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SHP01	673	Quantity Qualifier Description: Code specifying the type of quantity	O	ID	2/2	Must Use
		Code Name 02 Cumulative Quantity				
SHP02	380	Quantity Description: Numeric value of quantity User Note 1: <i>Cumulative Quantity Received</i> User Note 2: Will be a value of zero (0) if there is no cumulative receipt quantity for the specific part number	X	R	1/15	Must Use
SHP03	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time User Note 1: If there is no cumulative receipt quantity, this value will be left blank User Note 2: If there is a cumulative receipt quantity, then the following code will be populated	X	ID	3/3	Used
		Code Name 051 Cumulative Quantity Start				
SHP04	373	Date Description: Date expressed as CCYYMMDD User Note 1: <i>First Date of Receipt</i> User Note 2: If there is no cumulative receipt quantity, this value will be left blank	X	DT	8/8	Used

Syntax Rules:

1. C0102 - If SHP01 is present, then SHP02 is required.
2. L030405 - If SHP03 is present, then at least one of SHP04 or SHP05 is required.
3. C0403 - If SHP04 is present, then SHP03 is required.
4. C0503 - If SHP05 is present, then SHP03 is required.

Semantics:

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.

User Note 1:

Example:

SHP|02|102|051|20100101

SHP|02|0

No cumulative receipt quantity data available

REF Reference Identification (Last Packing Slip)

Pos: 480	Max: 5
Detail - Optional	
Loop: SHP	Elements: 2

Loop Path: LIN-SHP

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name				
		PK Packing List Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Must Use
		User Note 1: <i>Packing List Number of the Last Receipt</i>				
		User Note 2: <i>If there is no Last Receipt detail available, then a value of 'NO_PACKLISTDATA' will appear.</i>				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

REF|PK|88131844

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Must Use

To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6	Must use

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE**Transaction Set Trailer**

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Comments:

1. SE is the last segment of each transaction set.

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use