



810 Invoice
MANUFACTURING PLANTS
Version: 004010

Document Control

Rev	Date	Author	Purpose for Change
1.0	Mar 15, 2007	Z. Belicajevic	Creation of Implementation Guide
1.1	Jun 1, 2007	S. Nagarajan	Updated NCM
1.2	Aug 31, 2007	R. Heether	Updated "Must Use" / "Mandatory" Fields, added hard-coding note to REF*ZZ segment, and added some comments for clarification
1.3	Aug 22, 2008	S. Nagarajan	Updated usage for loops in the TOC and added usage line in summary page for loops Loop N1, 3 rd N1 segment changed to Must use on page 14 Updated CNH logo
1.4	Jul 30, 2010	S. Nagarajan	Updated Note: N1-BT-04 in the 810 needs to be the same value that CNH sends in the N1-BY-04 of the 830. Fixed Examples.
1.5	Aug 4, 2010	R. Heether & S. Nagarajan	- Corrected N1-ST-04 (size of field). - Updated example. - Eliminated N3, N4, and PID segments.
1.6	Aug 12, 2010	S. Nagarajan	- Finalize Specification to be compliant with IDOC - Updated BIG02 to be max 16 and BIG04 Min 5 – Max 14 - CUR01 max 2 - N102 changed to must use - IT101 – max 5; must use - Set IT107 max 30 - Made REF*SI mandatory. REF01 max 2; REF02 max 30 - Added user note to IT102 - REF01(PK) size max 2 and REF02(PK) max 12
1.7	Dec 12, 2012	R. Heether	Changed User Note in IT104 to be <i>Maximum of <u>three</u> decimal places</i>
1.8	Jan 7, 2013	R. Heether	Updated N1-BT segment (810-Capable Plants) to include WMF Piracicaba and Goodfield.
1.9	Dec 16, 2013	R. Heether	Updated N1-BT segment (810-Capable Plants) to include WMF Belo Horizonte, WMF Cordoba, WMF Basildon, WMF St. Valentin, and Calhoun.
1.10	Mar 1, 2014	R. Heether	Updated Logo. Updated Example.
1.11	Aug 13, 2015	Brian Stone	Updated logo, added TOC, fixed formatting.
2.0	June 17, 2020	Scott Clemence	Added allowable SAC Charges A. C680 – Environmental Protection Services B. H340 – State Surcharge
2.1	April 22, 2022	Scott Clemence	Added N3 and N4 segments to the N101 = 'ST' loop

2.2	December 7, 2022	Scott Clemence	Added inside of the IT1 loop, the ability for the PO number to be provided at the line item level via use of the REF segment BIG_04: NOTE 2 Added N1_04 WHERE N1_01 = 'BT': NOTE 2 ADDED
2.3	March 9, 2024	Scott Clemence	1. LOGO Update
2.4	April 7, 2025	Scott Clemence	IT1_04: User Note Update – 4 decimal places supported IT1_14 and IT1_15 added

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810**Invoice****Functional Group=IN**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) 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 and industry practice relative to the billing for goods and services provided.

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>
0100	ISA	Interchange Control Header	M	1			Must use
0200	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>
0100	ST	Transaction Set Header	M	1			Must use
0200	BIG	Beginning Segment for Invoice	M	1			Must use
0400	CUR	Currency	O	1			Must use
0500	REF	Reference Identification (CSCN)	O	12			Must use

LOOP ID - N1					200		Must Use
0900	N1	Name (SU – Supplier)	O	1			Must use
1000	N1	Name (BT – Bill To)	O	1			Must use
1100	N1	Name (ST – Ship To)	O	1			Must use
1800	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
1900	DTM	Date/Time Reference	O	10			Must use

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>
LOOP ID - IT1					200000		Must Use
0200	IT1	Baseline Item Data (Invoice)	O	1			Must use
0700	TXI	Tax Information	O	10			Used
1800	REF	Reference Identification (PK)	O	1			Must use
1900	REF	Reference Identification (SI)	O	1			Must Use
1900	REF	Reference Identification (PO)	O	1			Used
LOOP ID - SAC					25		Used
2800	SAC	Service, Promotion, Allowance, or Charge Information (Detail)	O	1			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>
0100	TDS	Total Monetary Value Summary	M	1			Must use
0200	TXI	Tax Information	O	10			Used

0300	CAD	Carrier Detail	O	1		Used
LOOP ID - SAC					25	Used
0600	SAC	Service, Promotion, Allowance, or Charge Information (Summary)	O	1		Used
1100	CTT	Transaction Totals	O	1	N3/1100	Must use
1200	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>
0100	GE	Functional Group Trailer	M	1			Must use
0200	IEA	Interchange Control Trailer	M	1			Must use

Notes:

3/1100 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 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*123456789  *01*601943181  *100708*1052*U*00401*000001314*0*P>~
GS*IN*123456789*601943181*20100708*1052*1314*X*004010~
ST*810*13140001~
BIG*20100707*402015808**B01241001~
CUR*BY*USD~
REF*ZZ*CSCN~
N1*SU*TEST BEARING CO.*92*CN788~
N1*BT*CNH INDUSTRIAL AMERICA LLC – FARGO PLANT*92*FG~
N1*ST*CNH INDUSTRIAL AMERICA LLC – FARGO PLANT*92*FGS1~
N3* C/O MAGNUM WAREHOUSE* 3000 7TH AVENUE NORTH~
N4*FARGO*ND*58102*US~
DTM*011*20100707~
IT1*005*14*EA*18*PE*BP*87496591*VP*40905708~
REF*PK*32828~
REF*SI*328498~
TDS*34200~
SAC*C*D240***9000*****06~
CTT*1~
SE*15*13140001~
GE*1*1314~
IEA*1*000001314~
```

User Note 3:

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 transmits 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 850 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: 0100	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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 All valid standard codes are used.	M	ID	2/2	Must use
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	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	M	ID	2/2	Must use
		Code Name				
		01 Duns (Dun & Bradstreet)				
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

User Note 1:

CNH ISA_08 Production ID: "601943181"

CNH ISA_08 Test ID: "601943181TEST"

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><th><u>Code</u></th><th><u>Name</u></th></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><th><u>Code</u></th><th><u>Name</u></th></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: 0200	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 <u>Code</u> <u>Name</u> IN Invoice Information (810,819)	M	ID	2/2	Must use
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners User Note 1: CNH GS_03 Production ID: "601943181" CNH GS_03 Test ID: "601943181TEST"	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	M	AN	1/12	Must use

version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

<u>Code</u>	<u>Name</u>
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: 0100	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				
		810 Invoice				
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).

BIG Beginning Segment for Invoice

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

To indicate the beginning of an invoice transaction set and transmits identifying numbers and dates

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>
BIG01	373	Date Description: Date expressed as CCYYMMDD User Note 1: <i>Invoice Date</i>	M	DT	8/8	Must use
BIG02	76	Invoice Number Description: Identifying number assigned by issuer User Note 1: <i>1) No leading spaces 2) If using alpha characters, please use UPPER CASE</i>	M	AN	1/16	Must use
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser User Note 1: <i>1. The value of this field should be mapped either from the BFR_11 field (if present) or LIN_13 with LIN_12 = "PO" of the 830 Material Release message 2. If your invoice only references a single CNH PO Number, then you can use this data element to communicate the CNH PO number. If your INVOICE references more than one CNH PO number, then the CNH PO number must be provided at the line item level, inside the IT1 loop and using REF_01 = PO and REF_02 = 'CNH_PURCHASE_ORDER_NUMBER'</i>	O	AN	5/14	Must use
BIG05	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments:

1. BIG07 is used only to further define the type of invoice when needed.

User Note 1:

Example:

*BIG*20100707*402015808**B01241001~*

CUR Currency

Pos: 0400	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

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>
CUR01	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <u>Code</u> <u>Name</u> BY Buying Party (Purchaser)	M	ID	2/2	Must use
CUR02	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified User Note 1: <i>This is a three-position alpha code from the ISO-4217 code list.</i> <i>The primary codes used in North America are:</i> CAD Canadian Dollars USD United States Dollars <i>Some other frequently used codes are:</i> EUR Euro JPY Japanese Yen	M	ID	3/3	Must use

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

User Note 1:

Example:

*CUR*BY*USD~*

REF Reference Identification (CSCN)

Pos: 0500	Max: 12
Heading -	MANDATORY
Loop: N/A	Elements: 2

User Option (Usage): Must use

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 <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	<u>Code</u>	<u>Name</u>	ZZ	Mutually Defined	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>									
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 User Note 1: <i>CNH is sending this source value in the header section REF_02 field (with REF_01 = "ZZ") of the 830 message</i> <i>This value is required to be returned here to allow CNH to perform the proper routing of the message.</i> <i>You may hard-code this segment as shown below:</i> <i>REF*ZZ*CSCN</i>	X	AN	4/4	Must use				

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.

Loop N1

Pos: 0800	Repeat: 200
MANDATORY	
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>
0900	N1	Name (SU – Supplier)	O	1		Must use
1000	N1	Name (BT – Bill To)	O	1		Must use
1100	N1	Name (ST – Ship To)	O	1		Must Use

N1 Name (SU – Supplier)

Pos: 0900	Max: 1
Heading -	MANDATORY
Loop: N1	Elements: 4

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>Your Supplier 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>All CNH facilities require your Supplier Code in this field.</i> <i>The value of this field should be mapped from the N1_04 field having N1_01 = "SU" of the 830 Material Release message.</i>	X	AN	4/8	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*CN788~

N1 Name (BT – Bill To)

Pos: 1000	Max: 1
Heading -	MANDATORY
Loop: N1	Elements: 4

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 BT Bill-to-Party				
N102	93	Name Description: Free-form name User Note 1: Value to return here, should be the CNH Legal Entity which your company is invoicing.	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: This field needs to be mapped from the N1-04 segment with Qualifier "BY" of the 830 message. User Note 2: CNH Industrial EDI only supports EDI invoicing for the following CNH manufacturing locations: <u>CNH Bill-To Plant Codes are:</u> BN Benson, MN Plant BU Burlington, IA Plant CL Racine, WI (Tractor Plant) DV Wichita, KS Plant FG Fargo, ND Plant FL Saskatoon, SK Plant GF Goodfield, IL Plant GI Grand Island, NE Plant N1 WMF North America CKD Plant NH New Holland, PA Plant TR Racine, WI (Transmission Plant) 1C WMF CROIX North America 2D WMF ZEDELGEM North America 2L WMF HARBIN North America 3D WMF Belo Horizonte North America 4D WMF CURITIBA North America	X	AN	2/2	Must use

5C WMF LECCE North America
 5D WMF Piracicaba North America
 5L WMF TURIN North America
 6D WMF SOROCABA North America
 6G WMF Cordoba North America
 7C WMF PLOCK North America
 7L WMF PUNE North America
 8C WMF St. Valentin North America
 8L WMF PITHAMPUR North America
 9B WMF Basildon North America

If you send CNH an 810 INVOICE for a CNH PLANT CODE which is not on the above list, your INVOICE will be REJECTED by our EDI translator and you will receive an ERROR ALERT EMAIL indicating this point

User Note 3:

The value of this field should be mapped from the N1_04 field with N1_01 = "BY" of the 830 Material Release message.

User Note 4:

The value returned here, MUST BE the exact same value which your company provided on the ASN 856 (N1_04 WHERE N1_01 = 'BY') document which is the source of this 810 INVOICE document

User Note 5:

For a list of valid CNH Plant Codes which your company supports, please refer to our website: www.supplier.cnhind.com and log into the Delivery Schedules module.

User Note 6:

To receive a list of CNH plant codes which your company supports, please review CSCN Delivery Schedules

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*BT*CNH INDUSTRIAL AMERICA LLC – FARGO PLANT*92*FG~

N1 Name (ST – Ship To)

Pos: 1100	Max: 1
Heading -	MANDATORY
Loop: N1	Elements: 4

User Option (Usage): Must Use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 ST Ship To				
N102	93	Name Description: Free-form name	X	AN	1/60	Must use
		User Note 1: CNH Plant Name				
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	X	AN	2/5	Must use
		User Note 1: All CNH facilities require the Ship-To Code in this field. The value of this field should be mapped from the N1_04 field having N1_01 = "ST" of the 830 Material Release message.				
		User Note 2: Value to be return on the 810 INVOICE document should match the EXACT SAME VALUE which was returned on the ASN 856 document provided in N1_04 WHERE N1_01 = 'ST'				
		User Note 3: For a list of valid ship-to codes, please refer to our website: www.supplier.cnhind.com Click on Documents > EDI > Other Useful Information > CNH Plant Ship To Addresses				
		User Note 4: To receive a list of CNH SHIP TO CODES which your company supports, please review CSCN Delivery Schedules				

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 AMERICA LLC – FARGO PLANT*92*FGS1~*

N3 Address Information (Ship-To)

Pos: 1300	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

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	M	AN	1/30	Must use
		Description: Address information				
		User Note 1:				
		<i>Ship-to Street Address</i>				
N302	166	Address Information	O	AN	1/30	Used
		Description: Address information				
		User Note 1:				
		<i>Ship-to Street Address continuation</i>				

User Note 1:

Example:

N3 C/O MAGNUM WAREHOUSE*3000 7TH AVENUE NORTH*

N4 Geographic Location (Ship-To)

Pos: 1400	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Must Use

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>	M	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>	M	ID	2/2	Must Use
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>	M	ID	5/15	Must Use
N404	26	Country Code Description: Code identifying the country User Note 1: <i>Ship-to Country</i>	M	ID	2/2	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*FARGO*ND*58102*US

ITD

Terms of Sale/Deferred Terms of Sale

Pos: 1800	Max: >1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify terms of sale

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>
ITD03	338	Terms Discount Percent Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O	R	1/6	Used
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned	X	N0	1/3	Used
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used

Syntax Rules:

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

DTM Date/Time Reference (Ship)

Pos: 1900	Max: 10
Heading -	MANDATORY
Loop: N/A	Elements: 2

User Option (Usage): Must use

To specify pertinent dates and times

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>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Must use
		Code Name				
		011 Shipped				
DTM02	373	Date Description: Date expressed as CCYYMMDD User Note 1: <i>Date Shipped: This date must match the date from DTM_02 (having DTM_01 = "011") of the corresponding ASN (856 message).</i>	X	DT	8/8	Must use

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

User Note 1:

Example:
DTM*011*20100707~

Loop IT1

Pos: 0100	Repeat: 200000
MANDATORY	
Loop: IT1	Elements: N/A

User Option (Usage): Must use

To specify the basic and most frequently used line item data for the invoice and related transactions

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>
0200	IT1	Baseline Item Data (Invoice)	O	1		Must use
0700	TXI	Tax Information	O	10		Used
1100		Loop PID	O		1000	Used
1800	REF	Reference Identification	O	1		Must use
1900	REF	Reference Identification	O	1		Must use
2700		Loop SAC	O		25	Used

IT1**Baseline Item Data (Invoice)**

Pos: 0200	Max: 1
Detail - Optional	
Loop: IT1	Elements: 9

User Option (Usage): Must use

To specify the basic and most frequently used line item data for the invoice and related transactions

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>
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set User Note 1: <i>Purchase Order Line Item Number</i> User Note 2: <i>Value to return here must exactly match what you received in the source 830, field LIN_01</i> User Note 3: <i>Value to return here must exactly match what you returned on the ASN 856, field LIN_01</i>	O	AN	1/5	Must use
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units) User Note 1: <i>CNH does not accept decimal quantities. Please round to the nearest whole number.</i>	X	R	1/10	Must use
IT103	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 User Note 1: <i>The value of this field should be mapped from the UIT_01 field of the 830 Material Release message</i> All valid standard codes are used.	X	ID	2/2	Must use
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc. User Note 1: <i>Maximum of four (4) decimal places supported</i>	X	R	1/17	Must use
IT105	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item Code Name HP Price per Hundred PE Price per Each TP Price per Thousand	O	ID	2/2	Must use
IT106	235	Product/Service ID Qualifier Description: Code identifying the	X	ID	2/2	Must use

		type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code</u> <u>Name</u>				
		BP Buyer's Part Number				
IT107	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/30	Must use
		User Note 1: <i>CNH Part Number</i>				
		User Note 2: <i>Value to return here MUST EXACTLY MATCH the CNH PART NUMBER which you received in the source 830 document,</i>				
IT108	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>				
		VP Vendor's (Seller's) Part Number				
IT109	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
		User Note 1: <i>Vendor Part Number</i>				
IT114	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>				
		SN Serial Number				
IT115	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/20	Used
		User Note 1:				
		Field used for one of two purposes: 1. Where applicable, product specific serial number details 2. CNH plant internal order number				
		User Note 2:				
		<i>Supplier's Serial Number (Maximum characters allowed is 20)</i>				
		<i>Note – If the PO quantity for the part is greater than 1, a separate PO line record must be sent for each part/serial number. For example, if the quantity for the part number is 2, then 2 lines would need to be submitted (see example below).</i>				

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.

2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.
7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.
11. P2425 - If either IT124 or IT125 is present, then the other is required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten 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:

*IT1*005*14*EA*18.15*PE*BP*87496591*VP*40905708~*

TXI Tax Information

Pos: 0700	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

User Option (Usage): Used
To specify tax 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>								
TXI01	963	Tax Type Code Description: Code specifying the type of tax <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>GS</td><td>Goods and Services Tax</td></tr><tr><td>SP</td><td>State/Provincial Tax</td></tr><tr><td>SU</td><td>Sales and Use Tax</td></tr></table>	<u>Code</u>	<u>Name</u>	GS	Goods and Services Tax	SP	State/Provincial Tax	SU	Sales and Use Tax	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>													
GS	Goods and Services Tax													
SP	State/Provincial Tax													
SU	Sales and Use Tax													
TXI02	782	Monetary Amount Description: Monetary amount	X	R	1/18	Used								
TXI03	954	Percent Description: Percentage expressed as a decimal	X	R	1/10	Used								
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CD</td><td>Customer defined</td></tr><tr><td>VD</td><td>Vendor defined</td></tr></table>	<u>Code</u>	<u>Name</u>	CD	Customer defined	VD	Vendor defined	X	ID	2/2	Used		
<u>Code</u>	<u>Name</u>													
CD	Customer defined													
VD	Vendor defined													
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction User Note 1: <i>GST Registration Number</i> <i>PST Exemption Number</i>	X	AN	1/10	Used								
TXI06	441	Tax Exempt Code Description: Code identifying exemption status from sales and use tax <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>1</td><td>Yes (Tax Exempt)</td></tr><tr><td>2</td><td>No (Not Tax Exempt)</td></tr></table>	<u>Code</u>	<u>Name</u>	1	Yes (Tax Exempt)	2	No (Not Tax Exempt)	X	ID	1/1	Used		
<u>Code</u>	<u>Name</u>													
1	Yes (Tax Exempt)													
2	No (Not Tax Exempt)													

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.
2. P0405 - If either TXI04 or TXI05 is present, then the other is required.
3. C0803 - If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

User Note 1:

TXI_02, TXI_03, or TXI_06 is required when TXI segment is used

REF Reference Identification (Packing List Number)

Pos: 1800	Max: 1
Detail -	MANDATORY
Loop: IT1	Elements: 2

User Option (Usage): Must use

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	1/12	Must use
		User Note 1: <i>This Reference number is used to verify the receipt and must match the value of the REF_02 having REF_01 = "PK" of the corresponding 856 transaction.</i>				
		<i>Constrains regarding this reference number:</i> 1) No leading spaces 2) If using alpha characters, please use UPPER CASE				

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*PK*32828~

REF Reference Identification (Shipment I.D. Number)

Pos: 1900	Max: 1
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Must Use

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				
		SI Shipper's Identifying Number for Shipment (SID)				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	2/30	Must use
		User Note 1: <i>This reference number is used to verify receipt and must match the value from BSN_02 of the corresponding 856 transaction.</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:

Example:
REF*SI*328498~

REF Reference Identification (PO Number)

Pos: 2000	Max: >1
Detail - Optional	
Loop: IT1	Elements: 2

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	M	ID	2/2	Must use

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
PO	Purchase Order Number

REF02	127	Reference Identification	M	AN	10/10	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 1:

The PO Number is mandatory either here at this line item level, or in the Header in the BIG_04 field.

If you are invoicing for multiple "unique" CNH PO Numbers, submit each "unique" PO Number at this level in this REF-PO segment for each detail line (see Example below).

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:

```
IT1*00010*5*EA*5.98*PE*BP*87750270
REF*PK*D463876
REF*SI*D463876
REF*PO*3633251234
IT1*00010*9*EA*7.00*PE*BP*84298013
REF*PK*D463876
REF*SI*D463876
REF*PO*3633264321
```

Loop SAC (Detail)

Pos: 2700	Repeat: 25
Optional	
Loop: SAC	Elements: N/A

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

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>
2800	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC (Detail) Service, Promotion, Allowance, or Charge Information

Pos: 2800 Max: 1
 Detail - Optional
 Loop: SAC Elements: 9

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified Code Name A Allowance C Charge	M	ID	1/1	Must use
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge Code Name E970 Onetime Tooling F150 Packaging Service F650 Preparation G530 Rework	X	ID	4/4	Must use
SAC05	610	Amount Description: Monetary amount User Note 1: <i>2 implied decimal places</i>	O	N2	1/15	Must use
SAC06	378	Allowance/Charge Percent Qualifier Description: Code indicating on what basis allowance or charge percent is calculated Code Name 2 Item Net Cost	X	ID	1/1	Used
SAC07	332	Percent Description: Percent expressed as a percent	X	R	1/6	Used
SAC08	118	Rate Description: Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	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.	X	ID	2/2	Used
SAC10	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used
SAC12	331	Allowance or Charge Method of Handling	O	ID	2/2	Must use

Code

Description: Code indicating method of handling for an allowance or charge

Code**Name**

02	Off Invoice
06	Charge to be Paid by Customer

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

TDS Total Monetary Value Summary

Pos: 0100	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

To specify the total invoice discounts and amounts

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>
TDS01	610	Amount Description: Monetary amount User Note 1: <i>Total Invoice Amount - two implied decimal places</i>	M	N2	1/15	Must use

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

User Note 1:

Example:
TDS*34200~

TXI Tax Information

Pos: 0200	Max: 10
Summary - Optional	
Loop: N/A	Elements: 6

User Option (Usage): Used

To specify tax 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>								
TXI01	963	Tax Type Code Description: Code specifying the type of tax <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>GS</td><td>Goods and Services Tax</td></tr><tr><td>SP</td><td>State/Provincial Tax</td></tr><tr><td>SU</td><td>Sales and Use Tax</td></tr></table>	<u>Code</u>	<u>Name</u>	GS	Goods and Services Tax	SP	State/Provincial Tax	SU	Sales and Use Tax	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>													
GS	Goods and Services Tax													
SP	State/Provincial Tax													
SU	Sales and Use Tax													
TXI02	782	Monetary Amount Description: Monetary amount	X	R	1/18	Used								
TXI03	954	Percent Description: Percentage expressed as a decimal	X	R	1/10	Used								
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CD</td><td>Customer defined</td></tr><tr><td>VD</td><td>Vendor defined</td></tr></table>	<u>Code</u>	<u>Name</u>	CD	Customer defined	VD	Vendor defined	X	ID	2/2	Must use		
<u>Code</u>	<u>Name</u>													
CD	Customer defined													
VD	Vendor defined													
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction User Note 1: GST REGISTRATION NUMBER PST EXEMPTION NUMBER	X	AN	1/10	Must use								
TXI06	441	Tax Exempt Code Description: Code identifying exemption status from sales and use tax <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>1</td><td>Yes (Tax Exempt)</td></tr><tr><td>2</td><td>No (Not Tax Exempt)</td></tr></table>	<u>Code</u>	<u>Name</u>	1	Yes (Tax Exempt)	2	No (Not Tax Exempt)	X	ID	1/1	Used		
<u>Code</u>	<u>Name</u>													
1	Yes (Tax Exempt)													
2	No (Not Tax Exempt)													

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.
2. P0405 - If either TXI04 or TXI05 is present, then the other is required.
3. C0803 - If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

CAD Carrier Detail

Pos: 0300	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

To specify transportation details for the transaction

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>
CAD04	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	X	ID	2/4	Must use

Syntax Rules:

1. R0504 - At least one of CAD05 or CAD04 is required.
2. C0708 - If CAD07 is present, then CAD08 is required.

Loop SAC (Summary)

Pos: 0500	Repeat: 25
Optional	
Loop: SAC	Elements: N/A

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

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>
0600	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC Service, Promotion, (Summary) Allowance, or Charge Information

Pos: 0600 Max: 1
Summary - Optional
Loop: SAC Elements: 9

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified Code Name A Allowance C Charge	M	ID	1/1	Must use
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge Code Name A880 Cancellation Charge C680 Environmental Protection Services C880 Expediting Premium D240 Freight D500 Handling D530 Hazardous Cargo Charge E190 Labor Charges F180 Pallet G470 Restocking Charge G510 Returnable Container G970 Small Order Charge H340 State Surcharge H550 Surcharge I530 Volume Discount I100 Tooling rework charge	X	ID	4/4	Must use
SAC05	610	Amount Description: Monetary amount User Note 1: <i>2 implied decimal places</i>	O	N2	1/15	Must use
SAC06	378	Allowance/Charge Percent Qualifier Description: Code indicating on what basis allowance or charge percent is calculated Code Name 2 Item Net Cost	X	ID	1/1	Used
SAC07	332	Percent Description: Percent expressed as a percent	X	R	1/6	Used

SAC08	118	Rate Description: Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used						
SAC09	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.	X	ID	2/2	Used						
SAC10	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used						
SAC12	331	Allowance or Charge Method of Handling Code Description: Code indicating method of handling for an allowance or charge <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>02</td><td>Off Invoice</td></tr><tr><td>06</td><td>Charge to be Paid by Customer</td></tr></table>	<u>Code</u>	<u>Name</u>	02	Off Invoice	06	Charge to be Paid by Customer	O	ID	2/2	Must use
<u>Code</u>	<u>Name</u>											
02	Off Invoice											
06	Charge to be Paid by Customer											

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

User Note 1:

Example:

SAC*C*D240***9000*****06~

CTT Transaction Totals

Pos: 1100	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: 1200	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: 0100	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: 0200	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