IGB Automotive Ltd.

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IGB Automotive

EDI Implementation Guide

IGB Automotive

EDI Implementation Guide

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1 Introduction

As a valued member of IGB Automotive's supply chain, your company has been selected to participate in our Supplier EDI Program. The goal of this program is to increase procurement accuracy and efficiency through the use of Electronic Data Interchange.

2 About this Guide

The following EDI Guidelines detail IGB Automotive's EDI specifications and expectations. If you have any questions concerning this Guideline, please contact,
Max Tannous at 1-519-250-5777 ext.233 or
email to mtannous@igbauto.com

Guideline updates will be e-mailed or mailed to you. When you receive them, please replace existing pages with the updated pages. Pages are referenced by Topic, Release Date, and Page.

3 Value Added Network

IGB Automotive has selected GXS as its primary Value Added Network (VAN) provider. All EDI transmissions between IGB Automotive and its trading partners will be routed via the GXS network.

3.1 Interconnects

A trading partner may establish an electronic mailbox with a VAN other than GXS. The VAN will be required to directly interface with GXS. The interface is referred to as an interconnect. The interconnect is used to receive and transmit data to and from the trading partner's individual mailbox at their respective VAN.

3.2 VAN Fees

The Standard arrangement between IGB Automotive and a trading partner is that each will be responsible for their own costs incurred for the VAN services utilized.

3.3 Standard Transmission Format

IGB Automotive has selected the Automotive Industry Action Group (AIAG) approved **American National Standards Institute (ANSI) X12** standard as the format by which it will transmit and receive EDI data at this time.

4 Dunn & Bradstreet Number

IGB Automotive's Dunn & Bradstreet Number(s) are the following:

Location:	**D&B No.**
Windsor, Canada	259762201

5 Legal Statement

1. Statement of Purpose. The EDI Implementation Guide is to facilitate purchases from Seller via the exchange of standardized electronic messages regarding order, acknowledgement, and other information by a technique known as Electronic Data Interchange (EDI).
2. All purchases initiated by Buyer from Seller via EDI shall be subject to all terms and conditions of Buyer's purchase order.
3. Transactions Sets and Standards. Buyer and Seller shall process purchases via EDI using the transaction sets governed, to the extent possible, by the American National Standards Institute (ANSI) ASC X12 standards and guidelines for EDI, as well as the agreed upon standards of the Transportation Data Coordinating Committee (TDCC).
4. Third Party Networks
   A. Each party will maintain with a third party data communications network, an electronic mailbox to which EDI messages may be sent, and will give the other party at least thirty (30) days written advance notice prior to changing its network or mailbox.
   B. Expenses. Each party will be responsible for the costs of maintaining its electronic mailbox, including any minimum use charges. Charges by a network for data translations, formatting, archiving, and similar services shall be borne by the party requesting them. If a Buyer and Seller employ the same network, the sender of a message will pay all the sending related charges imposed by the network, and the recipient will pay all receiving charges. If a Buyer and Seller employ different networks, each will be responsible for the charges of its own network.
5. Recordation. When either party has received the entire contents (including header, trailer, and other control information) of an EDI message as it was sent or received by such party, and without modification, such message will be deemed "written" for purposes of any statute or frauds or similar law. Each party waives any defense to the enforceability of any contract formed as a result of the transmission of such a recording message on the ground that such a message was not "written". The storage of data on a microfilm or machine readable record will be accomplished in a fashion reasonably designed to render the data retrievable and presentable in a visual form.
6. Force Majeure. Neither party will be liable to the other for failure to properly conduct EDI, due to computer down time, power outage, or inappropriate design of hardware or software, error of or nonperformance by a network or any cause beyond such party's control
7. Security. To the degree required by reasonably prudent business practices, each party will implement security measures to protect against the use of its facilities, information, computers, network access devices, passwords, and authorization codes to transmit unauthorized or unintended EDI messages and will periodically test and reevaluate the effectiveness of such measures.

8. Editing for Compliance and Lost Data. The recipient of EDI messages will use reasonable automated procedures to edit them for compliance with ANSI X12 syntax and format standards. If the recipients determine the message is not intended for them, the recipients will take reasonable action as soon as possible to inform the sender and will delete the information contained in such EDI message from the recipient's system.
9. Retrieval of Mailbox Contents and Receipt Time of Messages. Buyer and Seller will retrieve the contents of their electronic mailboxes on a schedule agreed upon between the parties. An EDI message will be deemed received when the network has delivered it to the recipient's electronic mailbox.

EDI Transaction Guidelines

830 Planning Schedule with Release Capability
ANSI X12
Version 004 Release 010

6 830 Planning Schedule with Release Capability

6.1 Introduction

These guidelines include information about the message and the specifications for the information contained in it.

6.2 Transactions Standard

The standard used by IGB Automotive is ANSI X12, Version Release 004010.

6.3 Transaction Frequency

IGB Automotive will send 830 messages to its suppliers once every week or day. This will be determined by the standard order/release arrangement with the supplier. The transmission will take place on Monday afternoon, giving the supplier a chance to pick up their data no later than Tuesday morning. The data will include both firm and planed quantities for the supplier. In addition to the regular releases, you may receive other releases during the week as changes to the planning schedule occur.

6.4 Envelope data and communication network

Data communication to the trading partner is done through the GE network. The messages will use ISA / IEA envelope structure.

6.5 Segments list

The message to be sent consists of the following data segments

Segment	Page
ISA – Interchange Control Header	11
GS – Functional Group Header	12
ST – Transaction Set Header	13
BFR – Beginning Segment for Planning Schedule	14
N1 – Name	15
LIN – Item Identification	16
FST – Forecast Schedule	17
SHP – Shipped/Received Information	18
REF – Reference Identification	19
CTT – Transaction Totals	20
SE – Transaction Set Trailer	21
GE – Functional Group Trailer	22
IEA – Interchange Control Trailer	23

6.5.1 ISA – Interchange Control Header

Level: Transmission
Usage: Mandatory
Purpose: To start and identify an interchange of one or more functional groups and interchange related control segments.

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
000	ISA	Interchange Control Header	M	1	

Seq	*Elem*	*Name*	*Attributes*		
01	I01	Authorization Information Qualifier *Use 00*	M	ID	2/2
02	I02	Authorization Information *Use ten spaces*	M	AN	10/10
03	I03	Security Information Qualifier *Use 00*	M	ID	2/2
04	I04	Security Information *Use ten spaces*	M	AN	10/10
05	I05	Interchange ID qualifier *Use 01 for Duns numbers*	M	ID	2/2
06	I06	Interchange Sender ID *Duns number left justified*	M	AN	15/15
07	I05	Interchange ID qualifier *Use 01 for Duns numbers*	M	ID	2/2
08	I07	Interchange Receiver ID *Duns number left justified*	M	AN	15/15
09	I08	Interchange Date *Transmission/Creation Date = CCYYMMDD*	M	DT	8/8
10	I09	Interchange Time *Transmission/Creation Time*	M	TM	4/4
11	I10	Interchange Control Standards Identifier *Use U for USA*	M	ID	1/1
12	I11	Interchange Control Version Number *00401*	M	ID	5/5
13	I12	Interchange Control Number *Control number. Not repeated within one year.*	M	N0	9/9
14	I13	Acknowledgement Requested *Use 1 for acknowledgement*	M	ID	1/1
15	I14	Test Indicator *Use P for Production*	M	ID	1/1
16	I15	Sub Element separator *Use **			

Example:

```
ISA*00*       *00*       *01*259762201*01*123456789*19991010*1200*U*00401*000000001*1*P**
```

6.5.2 GS – Functional Group Header

Level: Header
Usage: Mandatory
Purpose: To start and identify a group of related transaction sets and provide control and application identification information

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
010	GS	Functional Group Header	M	1	

Seq	*Elem*	*Name*	*Attributes*		
01	479	Functional Identifier Code *Use PS*	M	ID	2/2
02	142	Application Sender's Code *Senders Interchange code*	M	AN	2/15
03	124	Application Receiver's Code *Receivers Interchange Code*	M	AN	2/15
04	29	Data interchange Date *Creation/Transmission Date = CCYYMMDD*	M	DT	8/8
05	30	Data Interchange Time *Creation/Transmission Time*	M	TM	4/8
06	28	Interchange Control Number *Starts on 1 and increments by one for new loop*	M	N0	1/9
07	455	Responsible Agency *X for ANSI X12 Format*	M	ID	1/2
08	480	Version/Release number *004010*	M	ID	1/12

Example:

```
GS*PS*259762201*123456789*19991010*1200*1*X*004010
```

6.5.3 ST – Transaction Set Header

Level: Header
Usage: Mandatory
Purpose: To indicate a start of a transaction set and to assign a control number

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
010	ST	Transaction Set Header	M	1	

The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g. 830 selects the X12.14 Planning Schedule with Release Capability).

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	143	Transaction Set Identifier Code	Y	M	ID	3/3
02	329	Transaction Set Control number	Y	M	AN	4/9

Example:

```
ST*830*1234567
```

6.5.4 BFR – Beginning Segment for Planning Schedule

Level: Header
Usage: Mandatory
Purpose: To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates.

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
020	BFR	Beginning Segment for Planning Schedule	M	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	353	Transaction Set Purpose Code *00 = Original*	Y	M	ID	2/2
02	127	Reference Number		C	AN	1/30
03	328	Release Number *Release number, will not repeat within a year.*	Y	C	AN	1/30
04	675	Schedule Type Qualifier *AD = Authorized Delivery Based*	Y	M	ID	2/2
05	676	Schedule Quantity Qualifier *A = Actual Discreet Quantities*	Y	M	ID	1/1
06	373	Date *Planning Start Date = CCYYMMDD*	Y	M	DT	8/8
07	373	Date		O	DT	8/8
08	373	Date *Date Release Generated = CCYYMMDD*	Y	M	DT	8/8
09	373	Date		O	DT	8/8
10	367	Contract number		O	AN	1/30
11	324	Purchase Order Number		O	AN	1/22
12	783	Planning Schedule Type Code		O	ID	2/2
13	306	Action Code		O	ID	1/2

Example:

```
BFR*00**123456*AD*A*19991010**19991009
```

6.5.5 N1 – Name

Level: Header
Usage: Optional
Purpose: To identify a party by type of organization name and code

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
020	N1	Name	O	1	200

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	98	Entity Identifier Code *ST= Ship To* *SF= Ship From*	Y	M	ID	2/3
02	93	Name *Organization name*	Y	C	AN	1/60
03	66	Identification Code Qualifier *ZZ= Mutually Defined*	Y	C	ID	1/2
04	67	Identification Code *Supplier number or Customer plant code*	Y	C	AN	2/80
05	706	Entity Relationship Code		C	ID	2/2
06	98	Entity Identifier Code		C	ID	2/3

Example:

```
N1*ST*IGB CANADA*ZZ*XXX-YYY

N1*SF*Supplier*ZZ*2200
```

6.5.6 LIN – Item Identification

Level: Detail
Usage: Mandatory
Purpose: To specify basic item identification data

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
010	LIN	Item Identification	M	1	1

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	350	Assigned Identification		O	AN	1/20
02	235	Product/Service ID Qualifier *BP = Buyers part number*	Y	M	ID	2/2
03	234	Product/Service ID *Product Part number*	Y	O	AN	1/48
04	235	Product/Service ID Qualifier *PO = Purchase Order number*	Y	C	ID	2/2
05	234	Product/Service ID *Purchase Order number*	Y	O	AN	1/48
06	235	Product/Service ID Qualifier		C	ID	2/2
07	234	Product/Service ID		O	AN	1/48

Note: LIN08 to LIN31 provide 13 additional pairs of Product/Service ID Qualifier and Product/Service ID to further describe the product.

Example:

```
LIN**BP*1234711*PO*123456789*
```

6.5.7 FST – Forecast Schedule

Level: Detail
Usage: Optional
Purpose: To specify forecast dates and quantities

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
410	FST	Forecast Schedule	O	1	>1

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	380	Quantity *Requested quantity*	Y	M	R	1/15
02	680	Forecast Qualifier *C = Firm* *D = Planning*	Y	M	ID	1/1
03	681	Forecast Timing Qualifier *D = Discreet*	Y	M	ID	1/1
04	373	Date *Required date = CCYYMMDD*	Y	M	DT	8/8
05	373	Date		O	DT	8/8
06	374	Date/Time Qualifier		C	ID	3/3
07	337	Time		C	TM	4/8
08	128	Reference Number Qualifier		C	ID	2/3
09	127	Reference Number		C	AN	1/30
10	783	Planning schedule type code		O	ID	2/2

Example:

```
FST*100*C*D*19991111
FST*100*D*D*19991211
```

6.5.8 SHP – Shipped/Received Information

Level: Detail
Usage: Optional
Purpose: To specify shipment and/or receipt information

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
410	SHP	Shipped/Received Information	O	2	25

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	673	Quantity Qualifier *01=Discrete Quantity* *02=Cumulative Quantity YTD*	Y	O	ID	2/2
02	680	Quantity *Quantity received*	Y	C	R	1/15
03	374	Date/Time Qualifier *050=Received*	Y	C	ID	3/3
04	373	Date *Date received = CCYYMMDD*	Y	O	DT	8/8
05	337	Time		O	TM	4/8
06	373	Date		O	DT	8/8
07	337	Time		O	TM	4/8

Example:

```
SHP*01*200*050*19991011

SHP*02*2200*050*19991011
```

6.5.9 REF – Reference Identification

Level: Detail
Usage: Optional
Purpose: To specify Shipment Identification Number (SID) for last received shipment

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
970	SHP	Shipped/Received Information	O	5	25

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	128	Reference Identification Qualifier *SI=Shipper's Identifying Number for Shipment (SID)*	Y	M	ID	2/3
02	127	Reference Identification *SID Number*	Y	C	AN	1/30

Example:

```
REF*SI*PK1234567890
```

6.5.10 CTT – Transaction Totals

Level: Detail
Usage: Optional
Purpose: To transmit a hash total for a specific element in the transaction set

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
010	CTT	Transaction Totals	O	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	354	Number of Line items	Y	M	N0	1/6
02	347	Hash Total		O	R	1/10
03	81	Weight		O	R	1/10
04	355	Unit or Basis for Measurement Code		C	ID	2/2
05	183	Volume		O	R	1/8
06	355	Unit or Basis for Measurement Code		C	ID	2/2
07	352	Description		O	AN	1/80

Example:

```
CCT*2
```

6.5.11 SE – Transaction Set Trailer

Level: Detail
Usage: Mandatory
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
020	SE	Transaction Set Trailer	M	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	96	Number of Included Segments *Total number of segments included in a transaction set including ST and SE segments*	Y	M	N0	1/10
02	329	Transaction Set Control Number *Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set*	Y	M	AN	4/9

Example:

```
SE*44*1234567
```

6.5.12 GE – Functional Group Trailer

Level: Envelope
Usage: Mandatory
Purpose: To indicate the end of a functional group and to provide control information

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
000	GE	Functional Group Trailer	M	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	97	Number of Transaction Sets Included	Y	M	N0	1/6
02	28	Data Interchange Control Number *Must be identical to the same data element in the associated group header (GS06)*	Y	M	N0	1/9

Example:

```
GE*1*1
```

6.5.13 IEA – Interchange Control Trailer

Level: Envelope
Usage: Mandatory
Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segment.

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
000	IEA	Interchange Control Trailer	M	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	I16	Number of Included Functional Groups	Y	M	N0	1/5
02	I12	Interchange Control Number *Must match ISA13*	Y	M	N0	9/9

Example:

```
IEA*1*000000001
```

EDI Transaction Guidelines

856 Advanced Shipping Notice
ANSI X12
Version 004 Release 010

7 856 Advanced Ship Notice

7.1 Introduction

These guidelines include information about the message and the specifications for the information contained therein.

7.2 Transactions Standard

The standard used by IGB Automotive is ANSI X12, Version Release 004010.

7.3 Transaction Frequency

A supplier to IGB Automotive should send an 856 message within 30 minutes after the truck leaves the facility.

7.4 Envelope data and communication network

Data communication to the trading partner is done through the GXS network. The messages will use ISA / IEA envelope structure.

7.5 Segments list

The message to be sent consists of the following data segments

Segment		Page
1.5.1	ISA – Interchange Control Header	25
1.5.2	GS – Functional Group Header	26
1.5.3	ST – Transaction Set Header	27
1.5.4	BSN – Beginning Segment for Ship Notice	28
1.5.5	DTM – Date/Time Reference	29
1.5.6	HL – Hierarchical Level	30
1.5.7	MEA – Measurements	31
1.5.8	TD5 – Carrier Details (Routing Sequence)	32
1.5.9	TD3 – Carrier Details (Equipment)	33
1.5.10	REF – Reference Numbers	34
1.5.11	N1 – Name	35
1.5.12	HL – Hierarchical Level	36
1.5.13	LIN – Item Identification	37
1.5.14	SN1 – Item Detail	38
1.5.15	CLD – Load Detail	39
1.5.16	REF – Reference Numbers	40
1.5.17	CTT – Transaction Totals	41
1.5.18	SE – Transaction Set Trailer	42
1.5.19	GE – Functional Group Trailer	43
1.5.20	IEA – Interchange Control Trailer	44

7.5.1 ISA – Interchange Control Header

Level: Transmission
Usage: Mandatory
Purpose: To start and identify an interchange of one or more functional groups and interchange related control segments.

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
000	ISA	Interchange Control Header	M	1	

Seq	*Elem*	*Name*	*Attributes*		
01	I01	Authorization Information Qualifier *Use 00*	M	ID	2/2
02	I02	Authorization Information *Use ten spaces*	M	AN	10/10
03	I03	Security Information Qualifier *Use 00*	M	ID	2/2
04	I04	Security Information *Use ten spaces*	M	AN	10/10
05	I05	Interchange ID qualifier *Use 01 for Duns numbers*	M	ID	2/2
06	I06	Interchange Sender ID *Duns number left justified*	M	AN	15/15
07	I05	Interchange ID qualifier *Use 01 for Duns numbers*	M	ID	2/2
08	I07	Interchange Receiver ID *Duns number left justified*	M	AN	15/15
09	I08	Interchange Date *Transmission/Creation Date = CCYYMMDD*	M	DT	8/8
10	I09	Interchange Time *Transmission/Creation Time*	M	TM	4/4
11	I10	Interchange Control Standards Identifier *Use U for USA*	M	ID	1/1
12	I11	Interchange Control Version Number *00401*	M	ID	5/5
13	I12	Interchange Control Number *Control number. Not repeated within one year.*	M	N0	9/9
14	I13	Acknowledgement Requested *Use 0 for no acknowledgement*	M	ID	1/1
15	I14	Test Indicator *Use P for Production*	M	ID	1/1
16	I15	Sub Element separator *Use **			

Example:

```
ISA*00*       *00*       *01*123456789*01*259762201*19991010*1200*U*00401*000000001*0*p**
```

7.5.2 GS – Functional Group Header

Level: Header
Usage: Mandatory
Purpose: To start and identify a group of related transaction sets and provide control and application identification information

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
010	GS	Functional Group Header	M	1	

Seq	*Elem*	*Name*	*Attributes*		
01	479	Functional Identifier Code *Use SH*	M	ID	2/2
02	142	Application Sender's Code *Senders Interchange code*	M	AN	2/15
03	124	Application Receiver's Code *Receivers Interchange Code*	M	AN	2/15
04	29	Data interchange Date *Creation/Transmission Date = CCYYMMDD*	M	DT	8/8
05	30	Data Interchange Time *Creation/Transmission Time*	M	TM	4/8
06	28	Interchange Control Number *Starts on 1 and increments by one for new loop*	M	N0	1/9
07	455	Responsible Agency *X for ANSI X12 Format*	M	ID	1/2
08	480	Version/Release number *004010*	M	ID	1/12

Example:

```
GS*PS*123456789*259762201*19991010*1200*1*X*004010
```

7.5.3 ST – Transaction Set Header

Level: Header
Usage: Mandatory
Purpose: To indicate a start of a transaction set and to assign a control number

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
010	ST	Transaction Set Header	M	1	

The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g. 856 selects the X12 Advanced Ship Notice).

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	143	Transaction Set Identifier Code	Y	M	ID	3/3
02	329	Transaction Set Control number	Y	M	AN	4/9

Example:

```
ST*856*1234567
```

7.5.4 BSN – Beginning Segment for Ship Notice

Level: Header
Usage: Mandatory
Purpose: To indicate the beginning of a Advance Ship Notice transaction set and to transmit identifying numbers, dates and other basic data relating to the transaction set.

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
020	BFR	Beginning Segment for Planning Schedule	M	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	353	Transaction Set Purpose Code *00 = Original*	Y	M	ID	2/2
02	396	Shipment Identification *A unique supplier assigned number that will not be repeated within a one year period.*	Y	M	AN	2/30
03	373	Date *Date when the message is created (YYYYMMDD)*	Y	M	DT	8/8
04	337	Time *Time is in 24 hour time format HHMM (0000 through 2359)* *Time of transmission.*	Y	M	TM	4/4

Example:

```
BSN*00*123456**20001010*1011
```

7.5.5 DTM – Date/Time Reference

Level: Detail
Usage: Mandatory
Purpose: To specify pertinent dates and times

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	DTM	Date/Time Reference	M	1	25

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	374	Date/Time Qualifier *011=Shipped*	Y	M	ID	3/3
02	373	Date *Date shipped =CCYYMMDD*	Y	M	DT	8/8
03	337	Time	Y	M	TM	4/8
06	623	Time code	N		DT	8/8

Example:

```
DTM*011*20001010*1015
```

7.5.6 HL – Hierarchical Level

Level: Detail - Shipment
Usage: Mandatory
Purpose: To identify dependencies among the content of hierarchically related groups of data segments

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	HL	Hierarchical Level	M	1	200000

Seq	*Elem*	*Name*	*Used*	*Attributes*		
1	628	Hierarchical ID number *1 for this occurrence*	Y	M	AN	1/12
2	734	Hierarchical Parent ID Number *Not used for this level*	N	O	AN	1/12
3	735	Hierarchical Level Code *S=Shipment*	Y	M	ID	1/2
4	736	Hierarchical Child Code	N	O	ID	1/1

Example:

```
HL*1**S
```

7.5.7 MEA – Measurements

Level: Detail – Shipment
Usage: Mandatory
Purpose: To specify physical measurements, including dimensions, tolerances, weights and counts.

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	MEA	Measurements	M	40	HL

Seq	*Elem*	*Name*	*Used*	*Attributes*		
1	737	Measurement Reference ID Code *PD = Physical Dimensions*	Y	O	ID	2/2
2	738	Measurement Qualifier *G=Gross weight* *N=Net weight*	Y	O	ID	1/3
3	739	Measurement Value *Weights*	Y	C	R	1/10
4	355	Unit of Measure Code *KG=Kilograms* *LB=Pounds*	Y	C	ID	2/2
5	740	Range minimum	N	C	R	1/10
6	741	Range Maximum	N	C	R	1/10
7	935	Measurement Significance Code	N	O	ID	2/2
8	936	Measurement Attribute Code	N	C	ID	2/2
9	752	Surface/Layer/Position Code	N	O	ID	2/2

Example:

```
MEA*PD*G*2100*KG
MEA*PD*N*2000*KG
```

7.5.8 TD5 – Carrier Details (Routing Sequence)

Level: Detail – Shipment
Loop: HL
Usage: Optional
Purpose: To specify the carrier, sequence of routing and to provide transit time information

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	TD5	Carrier Details	O	12	HL

Seq	*Elem*	*Name*	*Used*	*Attributes*		
1	133	Routing sequence code *B=Origin/Delivery Carrier (Any Mode)*	Y	O	ID	1/2
2	66	Identification Code Qualifier *2=Standard Carrier Alpha Code (SCAC)*	Y	C	ID	1/2
3	67	Identification Code *SCAC of Delivering Carrier*	Y	C	ID	2/17
4	91	Transportation Method/Type Code *A=Air* *M=Motor* *R=Rail* *S=Ocean*	Y	C	ID	1/2
5	387	Routing	N	C	AN	1/35
6	368	Shipment/Order Status Code	N	O	ID	2/2
7	309	Location Qualifier	N	O	ID	1/2
8	310	Location Identifier	N	C	AN	1/25
9	731	Transit Direction Code	N	O	ID	2/2
10	732	Transit Time Direction Qualifier	N	O	ID	2/2
11	733	Transit time	N	C	R	¼

Example:

```
TD5*B*2*CETR*M
```

7.5.9 TD3 – Carrier Details (Equipment)

Level: Detail – Shipment
Loop: HL
Usage: Optional
Purpose: To specify transportation details relating to the equipment used by the carrier

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	TD3	Carrier Details	O	12	HL

Seq	*Elem*	*Name*	*Used*	*Attributes*		
1	40	Equipment Description Code *TL=Trailer load* *_ = Other*	Y	M	ID	2/2
2	206	Equipment Initial	N	O	AN	1/4
3	207	Equipment Number *Truck Identifying numbers*	Y	C	AN	1/10
4	187	Weight Qualifier	N	O	ID	1/2
5	81	Weight	N	C	R	1/8
6	355	Unit of Measurement Code	N	C	ID	2/2
7	102	Ownership Code	N	O	ID	1/1

Example:

```
TD3*TL**654321
```

7.5.10 REF – Reference Numbers

Level: Detail – Shipment
Loop: HL
Usage: Optional
Purpose: To specify identifying numbers

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	REF	Reference Numbers	O	200	HL

Seq	*Elem*	*Name*	*Used*	*Attributes*		
1	128	Reference Number Qualifier *BM=Bill of Lading number* *SI=Shipment Identification Number*	Y	M	ID	2/2
2	127	Reference Number	Y	C	AN	1/20
3	352	Description	N	C	AN	1/80

Example:

```
REF*BM*44442

REF*SI*12345
```

7.5.11 N1 – Name

Level: Header
Loop: HL/N1
Usage: Optional
Purpose: To identify a party by type of organization name and code

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
020	N1	Name	O	1	200

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	98	Entity Identifier Code *ST= Ship To* *SF= Ship From* *SU=Supplier*	Y	M	ID	2/3
02	93	Name *Organization name*	Y	C	AN	1/60
03	66	Identification Code Qualifier *ZZ= Mutually Defined*	Y	C	ID	1/2
04	67	Identification Code *Supplier number or Customer plant code*	Y	C	AN	2/80
05	706	Entity Relationship Code	N	C	ID	2/2
06	98	Entity Identifier Code	N	C	ID	2/3

Example:

```
N1*ST*IGB CANADA*ZZ*XXX-YYY
N1*SF*Supplier*ZZ*2200-1
N1*SU*Supplier*ZZ*2200
```

7.5.12 HL – Hierarchical Level

Level: Detail – Item
Usage: Mandatory
Purpose: To identify dependencies among the content of hierarchically related groups of data segments

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	HL	Hierarchical Level	M	1	200000

Seq	*Elem*	*Name*	*Used*	*Attributes*		
1	628	Hierarchical ID number *Increment by one from last HL lever*	Y	M	AN	1/12
2	734	Hierarchical Parent ID Number *HL level of parent HL*	Y	O	AN	1/12
3	735	Hierarchical Level Code *I=Item*	Y	M	ID	1/2
4	736	Hierarchical Child Code	N	O	ID	1/1

Example:

```
HL*2*1*I
```

7.5.13 LIN – Item Identification

Level: Detail – Item
Usage: Optional
Purpose: To specify basic item identification data

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
010	LIN	Item Identification	O	1	1

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	350	Assigned Identification	N	O	AN	1/20
02	235	Product/Service ID Qualifier *BP = Buyers part number*	Y	M	ID	2/2
03	234	Product/Service ID *Product Part number*	Y	O	AN	1/48
04	235	Product/Service ID Qualifier *PO = Purchase Order number*	Y	C	ID	2/2
05	234	Product/Service ID *Purchase Order number*	Y	O	AN	1/48
06	235	Product/Service ID Qualifier	N	C	ID	2/2
07	234	Product/Service ID	N	O	AN	1/48

Note: LIN08 to LIN31 provide 13 additional pairs of Product/Service ID Qualifier and Product/Service ID to further describe the product.

Example:

```
LIN**BP*1234711*PO*123456789
```

7.5.14 SN1 – Item Detail

Level: Detail – Item
Usage: Optional
Purpose: To specify forecast dates and quantities

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	SN1	Item Detail	O	1	HL

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	350	Assigned Identification	N	O	AN	1/6
02	382	Number of Units Shipped	Y	M	R	1/10
03	355	Unit of Measure Code *EA=Each* *KG=Kilogram* *LB=Pounds* *PC=Pieces*	Y	M	ID	2/2
04	646	Quantity Shipped to Date *Cumulative quantity shipped to-date*	Y	M	R	1/9
05	330	Quantity ordered	N	O	R	1/9
06	355	Unit of Measure Code	N	C	ID	2/2
07	728	Returnable Container Load Make-Up Code	N	O	ID	1/2
08	668	Line Item Status Code	N	O	ID	2/2

Example:

```
SN1**700*PC*1400
```

7.5.15 CLD – Load Detail

Level: Detail – Item
Loop: HL/CLD
Usage: Optional
Purpose: To specify shipment and/or receipt information

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	CLD	Load Detail	O	1	200

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	622	Number of Loads *Number of containers*	Y	M	N0	1/5
02	382	Number of Units Shipped *Total Quantity per container*	Y	M	R	1/10
03	103	Packaging Code *CON00 = Container*	Y	O	ID	5/5
04	357	Size	N	O	R	1/8
05	355	Unit of Measurement Code	N	O	ID	2/2

Example:

```
CLD*2*100*CON00
```

7.5.16 REF – Reference Numbers

Level: Detail – Shipment
Loop: HL
Usage: Optional
Purpose: To specify identifying numbers

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
	REF	Reference Numbers	O	200	HL

Seq	*Elem*	*Name*	*Used*	*Attributes*		
1	128	Reference Number Qualifier *LS = Bar Code Package ID Number Qualifier*	Y	M	ID	2/2
2	127	Reference Number *Serial number part of container label code*	Y	C	AN	1/20
3	352	Description	N	C	AN	1/80

Example:

```
REF*LS*23233
```

7.5.17 CTT – Transaction Totals

Level: Detail
Usage: Optional
Purpose: To transmit a hash total for a specific element in the transaction set

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
010	CTT	Transaction Totals	O	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	354	Number of HL Segments	Y	M	N0	1/6
02	347	Hash Total	N	O	R	1/10
03	81	Weight	N	O	R	1/10
04	355	Unit or Basis for Measurement Code	N	C	ID	2/2
05	183	Volume	N	O	R	1/8
06	355	Unit or Basis for Measurement Code	N	C	ID	2/2
07	352	Description	N	O	AN	1/80

Example:

```
CCT*2
```

7.5.18 SE – Transaction Set Trailer

Level: Detail
Usage: Mandatory
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
020	SE	Transaction Set Trailer	M	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	96	Number of Included Segments *Total number of segments included in a transaction set including ST and SE segments*	Y	M	N0	1/10
02	329	Transaction Set Control Number *Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set*	Y	M	AN	4/9

Example:

```
SE*44*1234567
```

7.5.19 GE – Functional Group Trailer

Level: Envelope
Usage: Mandatory
Purpose: To indicate the end of a functional group and to provide control information

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
000	GE	Functional Group Trailer	M	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	97	Number of Transaction Sets Included	Y	M	N0	1/6
02	28	Data Interchange Control Number *Must be identical to the same data element in the associated group header (GS06)*	Y	M	N0	1/9

Example:

```
GE*1*1
```

7.5.20 IEA – Interchange Control Trailer

Level: Envelope
Usage: Mandatory
Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segment.

Pos	*Seg*	*Name*	*Req*	*Max*	*Loop*
000	IEA	Interchange Control Trailer	M	1	

Seq	*Elem*	*Name*	*Used*	*Attributes*		
01	I16	Number of Included Functional Groups	Y	M	N0	1/5
02	I12	Interchange Control Number *Must match ISA13*	Y	M	N0	9/9

Example:

```
IEA*1*000000001
```