



N E X U S

856 Ship Notice/Manifest

Version: X12 4010

Company:

Infor Nexus

856

Ship Notice/Manifest

Functional Group=SH

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1		CN0/	GTN Required
	GS	Functional Group Header	M	1			GTN Required

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			GTN Required
020	BSN	Beginning Segment for Ship Notice	M	1			GTN Required

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL - S					200000		
010	HL	Hierarchical Level	M	1			GTN Required
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			GTN Required
150	REF	Reference Identification	O	>1			GTN Optional
LOOP ID - N1					200		
220	N1	Name	O	1			GTN Required
240	N3	Address Information	O	2			GTN Optional
250	N4	Geographic Location	O	1			GTN Optional
270	PER	Administrative Communications Contact	O	3			GTN Optional
LOOP ID - SAC					≥1		
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1			GTN Optional
325	CUR	Currency	O	1			GTN Optional
LOOP ID - V1					≥1		
360	V1	Vessel Identification	O	1			GTN Required
370	R4	Port or Terminal	O	>1			GTN Required
380	DTM	Date/Time Reference	O	>1			GTN Required
LOOP ID - HL - E					200000		
010	HL	Hierarchical Level	M	1			GTN Required
110	TD1	Carrier Details (Quantity and Weight)	O	20			GTN Required
130	TD3	Carrier Details (Equipment)	O	12			GTN Required
140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5			GTN Required
150	REF	Reference Identification	O	>1			GTN Required
320	SAC	Service, Promotion, Allowance, or	O	1			GTN Optional

325	CUR	Charge Information Currency	O	1	GTN Optional
LOOP ID - V1				≥1	
360	V1	Vessel Identification	O	1	GTN Required
370	R4	Port or Terminal	O	>1	GTN Required
380	DTM	Date/Time Reference	O	>1	GTN Required
LOOP ID - HL - O				200000	
010	HL	Hierarchical Level	M	1	GTN Required
050	PRF	Purchase Order Reference	O	1	GTN Required
150	REF	Reference Identification	O	>1	GTN Required
LOOP ID - V1				≥1	
360	V1	Vessel Identification	O	1	GTN Required
370	R4	Port or Terminal	O	>1	GTN Required
380	DTM	Date/Time Reference	O	>1	GTN Required
LOOP ID - HL - I				200000	
010	HL	Hierarchical Level	M	1	GTN Required
020	LIN	Item Identification	O	1	GTN Required
030	SN1	Item Detail (Shipment)	O	1	GTN Required
060	PO4	Item Physical Details	O	1	GTN Optional
070	PID	Product/Item Description	O	200	GTN Optional
080	MEA	Measurements	O	40	GTN Required
150	REF	Reference Identification	O	>1	GTN Required
200	DTM	Date/Time Reference	O	10	GTN Optional
LOOP ID - N1				200	
220	N1	Name	O	1	GTN Optional
240	N3	Address Information	O	2	GTN Optional
250	N4	Geographic Location	O	1	GTN Optional
270	PER	Administrative Communications Contact	O	3	GTN Optional
LOOP ID - SAC				≥1	
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1	GTN Optional
325	CUR	Currency	O	1	GTN Optional
LOOP ID - V1				≥1	
360	V1	Vessel Identification	O	1	GTN Required
370	R4	Port or Terminal	O	>1	GTN Required
380	DTM	Date/Time Reference	O	>1	GTN Required
LOOP ID - HL - IA				200000	
010	HL	Hierarchical Level	M	1	GTN Required
020	LIN	Item Identification	O	1	GTN Required
030	SN1	Item Detail (Shipment)	O	1	GTN Required
060	PO4	Item Physical Details	O	1	GTN Optional
080	MEA	Measurements	O	40	GTN Optional
150	REF	Reference Identification	O	>1	GTN Optional
LOOP ID - SAC				≥1	
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1	GTN Optional
325	CUR	Currency	O	1	GTN Optional
LOOP ID - HL - P				200000	
010	HL	Hierarchical Level	M	1	GTN Required
030	SN1	Item Detail (Shipment)	O	1	GTN Required
060	PO4	Item Physical Details	O	1	GTN Required

080	MEA	Measurements	O	40	GTN Required
150	REF	Reference Identification	O	>1	GTN Optional
190	MAN	Marks and Numbers	O	>1	GTN Required

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	CTT	Transaction Totals	O	1		N3/010	GTN Optional
020	SE	Transaction Set Trailer	M	1			GTN Required

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			GTN Required
	IEA	Interchange Control Trailer	M	1			GTN Required

Notes:

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3/010 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

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1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
2. Please note that while some Segments below are marked as optional from the ANSIx12 perspective, several of these include fields that are mandatory for the Infor Nexus application – please refer to the actual Segments for requirement details.
3. Please use a CRLF segment separator ONLY and do not use LF and a ~

Note 1:***Hierarchy Table – Advanced Shipment Notice ASC X12 Transaction Set 856***

S	E	O	I			The top line hierarchy for all Advanced Shipment Notice
S	E	O	I	IA		This Hierarchy is used when Assortment Details are sent without Pack Details
S	E	O	I	IA	P	This Hierarchy is used when Assortment Details are sent with Pack Details
S	E	O	I	P		This Hierarchy is used when Pack Details are sent without Assortment Details

Key	Description
<i>S</i>	<i>Shipment</i>
<i>E</i>	<i>Equipment</i>
<i>O</i>	<i>Order</i>
<i>I</i>	<i>Item</i>
<i>IA</i>	<i>Assortment (Sub item)</i>
<i>P</i>	<i>Pack</i>

ISA

Interchange Control Header

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

User Option (Usage): GTN Required

Purpose: 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	M	ID	2/2	GTN Required
Description: Code to identify the type of information in the Authorization Information						
		Code	Name			
		00	No Authorization Information Present (No Meaningful Information in I02)			
ISA02	I02	Authorization Information	M	AN	10/10	GTN Required
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)						
Information: Set to 10 empty spaces						
ISA03	I03	Security Information Qualifier	M	ID	2/2	GTN Required
Description: Code to identify the type of information in the Security Information						
		Code	Name			
		00	No Security Information Present (No Meaningful Information in I04)			
ISA04	I04	Security Information	M	AN	10/10	GTN Required
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)						
Information: Set to 10 empty spaces						
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	GTN Required
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
Information: Set to appropriate Interchange ID Qualifier						
		Code	Name			
		ZZ	Mutually Defined			
ISA06	I06	Interchange Sender ID	M	AN	15/15	GTN Required
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						
Information: Set to appropriate Interchange Sender ID followed by empty spaces to fill 15 characters						
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	GTN Required
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
		Code	Name			
		ZZ	Mutually Defined			
ISA08	I07	Interchange Receiver ID	M	AN	15/15	GTN Required
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 a receiving ID to route data to them						
Information: Set to 'GTNEXUS' followed by 8 empty spaces to fill 15 characters.						
ISA09	I08	Interchange Date	M	DT	6/6	GTN Required
Description: Date of the interchange						

ISA10	I09	Interchange Time	M	TM	4/4	GTN Required
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	GTN Required
		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 can be used.				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	GTN Required
		Description: Code specifying the version number of the interchange control segments				
		Code	Name			
		00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997			
ISA13	I12	Interchange Control Number	M	N0	9/9	GTN Required
		Description: A control number assigned by the interchange sender				
ISA14	I13	Acknowledgment Requested	M	ID	1/1	GTN Required
		Description: Code sent by the sender to request an interchange acknowledgment (TA1)				
		All valid standard codes can be used.				
ISA15	I14	Usage Indicator	M	ID	1/1	GTN Required
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information				
		Code	Name			
		P	Production Data			
		T	Test Data			
ISA16	I15	Component Element Separator	M		1/1	GTN Required
		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				
		Information: Set to '>'				

GS

Functional Group Header

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

User Option (Usage): GTN Required**Purpose:** To indicate the beginning of a functional group and to provide control information**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	Functional Identifier Code	M	ID	2/2	GTN Required
Description: Code identifying a group of application related transaction sets						
		Code	Name			
		SH	Ship Notice/Manifest (856)			
GS02	142	Application Sender's Code	M	AN	2/15	GTN Required
Description: Code identifying party sending transmission; codes agreed to by trading partners						
Information: Set to appropriate Application Sender's Code						
GS03	124	Application Receiver's Code	M	AN	2/15	GTN Required
Description: Code identifying party receiving transmission; codes agreed to by trading partners						
Information: Set to appropriate Application Receiver's Code. Please indicate which code(s) values you will transmit for each requestor. Infor Nexus will configure this code to be associated with that party on the Infor Nexus platform.						
GS04	373	Date	M	DT	8/8	GTN Required
Description: Date expressed as CCYYMMDD						
GS05	337	Time	M	TM	4/8	GTN Required
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)						
GS06	28	Group Control Number	M	NO	1/9	GTN Required
Description: Assigned number originated and maintained by the sender						
GS07	455	Responsible Agency Code	M	ID	1/2	GTN Required
Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480						
		Code	Name			
		X	Accredited Standards Committee X12			
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	GTN Required
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 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: 810

Max: 1

Heading - Mandatory

Loop: N/A

Elements: 2

User Option (Usage): GTN Required
Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	Transaction Set Identifier Code	M	ID	3/3	GTN Required
Description: Code uniquely identifying a Transaction Set						
		Code	Name			
		856	Ship Notice/Manifest			
ST02	329	Transaction Set Control Number	M	AN	4/9	GTN Required
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

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).

BSN

Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

User Option (Usage): GTN Required**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage								
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	GTN Required								
Description: Code identifying purpose of transaction set														
Information: <i>The following Codes are used by Infor Nexus:</i>														
<table><tr><td>Code</td><td>Name</td></tr><tr><td>00</td><td>Original</td></tr><tr><td>03</td><td>Delete</td></tr><tr><td>05</td><td>Replace</td></tr></table>							Code	Name	00	Original	03	Delete	05	Replace
Code	Name													
00	Original													
03	Delete													
05	Replace													
All valid standard codes can be used.														
BSN02	396	Shipment Identification	M	AN	2/30	GTN Required								
Description: A unique control number assigned by the original shipper to identify a specific shipment														
Information: <i><Shipment ID></i>														
<i>This field is used by Infor Nexus to uniquely identify an ASN. It should be a unique identifier that is attached to the shipment. If there are any updates to the ASN or the ASN needs to be deleted, the BSN02 field will be used to determine what ASN to update or delete. Infor Nexus will concatenate the Shipment Identification with the GS-02 to ensure that the Shipment ID is unique.</i>														
BSN03	373	Date	M	DT	8/8	GTN Required								
Description: Date expressed as CCYYMMDD														
BSN04	337	Time	M	TM	4/8	GTN Required								
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)														
BSN06	640	Transaction Type Code	X	ID	2/2	GTN Required								
Description: Code specifying the type of transaction														
Information:														
<i>The following Codes are used by Infor Nexus:</i>														
<table><tr><td>Code</td><td>Name</td></tr><tr><td>AS</td><td>Shipment Advice</td></tr></table>							Code	Name	AS	Shipment Advice				
Code	Name													
AS	Shipment Advice													
All valid standard codes can be used.														

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Comments:

- 1.

Loop Hierarchical Level - SHIPMENT

Repeat: 200000
Mandatory
Loop: HL - S Elements: N/A

User Option (Usage): GTN Required

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		GTN Required
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		GTN Required
150	REF	Reference Identification	O	>1		GTN Optional
220		Loop N1	O		200	GTN Required
320		Loop SAC	O		>1	GTN Optional
360		Loop V1	O		>1	GTN Required

HL**Hierarchical Level**

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL - S	Elements: 2

Loop Path: HL - S**User Option (Usage):** GTN Required**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	Hierarchical ID Number	M	AN	1/12	GTN Required
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL03	735	Hierarchical Level Code	M	ID	1/2	GTN Required
Description: Code defining the characteristic of a level in a hierarchical structure						
		Code	Name			
		S	Shipment			

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

TD5

Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL - S	Elements: 15

Loop Path: HL - S

User Option (Usage): GTN Required

Purpose: To specify the carrier and sequence of routing and provide transit time information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage												
TD502	66	Identification Code Qualifier	X	ID	1/2	GTN Required												
Description: Code designating the system/method of code structure used for Identification Code (67)																		
Information: <Carrier><Code>																		
The following Codes are used by Infor																		
Nexus:																		
<table><tr><td>Code</td><td>Name</td></tr><tr><td>2</td><td>Standard Carrier Alpha Code (SCAC)</td></tr><tr><td>4</td><td>International Air Transport Association (IATA)</td></tr></table>							Code	Name	2	Standard Carrier Alpha Code (SCAC)	4	International Air Transport Association (IATA)						
Code	Name																	
2	Standard Carrier Alpha Code (SCAC)																	
4	International Air Transport Association (IATA)																	
All valid standard codes can be used.																		
TD503	67	Identification Code	X	AN	2/80	GTN Required												
Description: Code identifying a party or other code																		
Information: Contractual Carrier SCAC																		
TD504	91	Transportation Method/Type Code	X	ID	1/2	GTN Required												
Description: Code specifying the method or type of transportation for the shipment																		
Information: < Mode>																		
The following Codes are used by Infor																		
Nexus:																		
<table><tr><td>Code</td><td>Name</td></tr><tr><td>A</td><td>Air</td></tr><tr><td>J</td><td>Motor</td></tr><tr><td>R</td><td>Rail</td></tr><tr><td>S</td><td>Ocean</td></tr><tr><td>X</td><td>Intermodal (Piggyback)</td></tr></table>							Code	Name	A	Air	J	Motor	R	Rail	S	Ocean	X	Intermodal (Piggyback)
Code	Name																	
A	Air																	
J	Motor																	
R	Rail																	
S	Ocean																	
X	Intermodal (Piggyback)																	
All valid standard codes can be used.																		
TD505	387	Routing	X	AN	1/35	GTN Optional												
Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity																		
Information: <Routing>																		
Not Specified Not Specified																		
AW AW																		
IMODAL Intermodal																		

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.
2. TD503 should contain the SCAC of the carrier with whom the Consignee has a contract and who will be issuing the Freight Bill for this shipment. This carrier may be different from the actual Operational Carrier, who operates the transportation equipment on this shipment (ie Airline or Vessel Owning Carrier).

REF

Reference Identification

POS: 150	Max: >1
Detail - Optional	
Loop: HL - S	Elements: 4

Loop Path: HL - S

User Option (Usage): GTN Optional

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	GTN Required
Description: Code qualifying the Reference Identification Information: All Qualifiers can be used to pass customer specific data at the shipment level. Infor Nexus PSO will work with you to configure these qualifiers based on the customers data requirements <i>The following qualifiers are available on the Outbound 856 from Infor Nexus</i> Only: TD Reason for Change (Infor Nexus <Trigger>) G7 Resubmission Reason (Infor Nexus <TriggerDetail>:<Value> & <Status>) YBRevision Number (Infor Nexus Outbound ASN File Count) All valid standard codes can be used.						
REF02	127	Reference Identification	X	AN	1/30	GTN Required
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
REF03	352	Description	X	AN	1/80	GTN Optional
Description: A free-form description to clarify the related data elements and their content Information: The following is applicable on the Outbound 856 from Infor Nexus Only: When REF01 = G7, REF03 contains the type of Trigger Detail which is provided in REF02 (Infor Nexus <TriggerDetail><Type>)						

Syntax Rules:

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

Loop Name	POS: 220
	Repeat: 200
	Optional
Loop: N1	
Elements: N/A	

Loop Path: HL - S
User Option (Usage): GTN Required
Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	O	1		GTN Required
240	N3	Address Information	O	2		GTN Optional
250	N4	Geographic Location	O	1		GTN Optional
270	PER	Administrative Communications Contact	O	3		GTN Optional

N1**Name**

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

Loop Path: HL - S-N1**User Option (Usage):** GTN Required**Purpose:** 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	M	ID	2/3	GTN Required

Description: Code identifying an organizational entity, a physical location, property or an individual
Information:

The following Codes are used by Infor Nexus:

Code	Name	
AG	Agent/Agency	
BF	Billed From	
BK	Bank	
BT	Bill-to-Party	
CA	Carrier	GTN Req.
CB	Customs Broker	GTN Req.
CN	Consignee	GTN Req.
CS	Consolidator	
EX	Exporter	
FW	Forwarder	GTN Req.
MF	Manufacturer of Goods	
NP	Notify Party for Shipper's Order	
SH	Shipper	GTN Req.
ST	Ship To	
SU	Supplier/Manufacturer	
IAD	Foreign Office	

All valid standard codes can be used.

N102	93	Name	X	AN	1/60	GTN Required
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Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	GTN Required
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Description: Code designating the system/method of code structure used for Identification Code (67)

Information:

The following Codes are used by Infor Nexus:

Code	Name
ZZ	Mutually Defined

All valid standard codes can be used.

N104	67	Identification Code	X	AN	2/80	GTN Required
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Description: Code identifying a party or other code

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. N1 loops for Shipper, Consignee, Forwarder, Carrier, and Broker parties are required

N3

Address Information

POS: 240

Max: 2

Detail - Optional

Loop: N1

Elements: 2

Loop Path: HL - S-N1
User Option (Usage): GTN Optional
Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	Address Information	M	AN	1/55	GTN Required
		Description: Address information				
N302	166	Address Information	O	AN	1/55	GTN Optional
		Description: Address information				

N4

Geographic Location

POS: 230	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

Loop Path: HL - S-N1

User Option (Usage): GTN Optional

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	City Name	O	AN	2/30	GTN Required
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	GTN Optional
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	GTN Optional
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	GTN Required
		Description: Code identifying the country				
N405	309	Location Qualifier	X	ID	1/2	GTN Optional
		Description: Code identifying type of location All valid standard codes can be used.				
N406	310	Location Identifier	O	AN	1/30	GTN Optional
		Description: Code which identifies a specific location				

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.

PER

Administrative Communications Contact

Pos: 270	Max: 3
Detail - Optional	
Loop: N1	Elements: 9

Loop Path: HL - S-N1**User Option (Usage):** GTN Optional**Purpose:** To identify a person or office to whom administrative communications should be directed**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	Contact Function Code	M	ID	2/2	GTN Required
		Description: Code identifying the major duty or responsibility of the person or group named All valid standard codes can be used.				
PER02	93	Name	O	AN	1/60	GTN Optional
		Description: Free-form name				
PER03	365	Communication Number Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type of communication number Information: <i>The following Codes are used by Infor Nexus:</i>				
		Code Name				
		EM Electronic Mail				
		FX Facsimile				
		TE Telephone				
		All valid standard codes can be used.				
PER04	364	Communication Number	X	AN	1/80	GTN Optional
		Description: Complete communications number including country or area code when applicable Information: <i>Where PER03 = 'EM', this is the email address</i> <i>Where PER03 = 'FX', this is the Fax Number</i> <i>Where PER03 = 'TE', this is the Telephone Number</i>				
PER05	365	Communication Number Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type of communication number Information: <i>The following Codes are used by Infor Nexus:</i>				
		Code Name				
		EM Electronic Mail				
		FX Facsimile				
		TE Telephone				
		All valid standard codes can be used.				
PER06	364	Communication Number	X	AN	1/80	GTN Optional
		Description: Complete communications number including country or area code when applicable Information: <i>Where PER05 = 'EM', this is the email address</i> <i>Where PER05 = 'FX', this is the Fax Number</i> <i>Where PER05 = 'TE', this is the Telephone Number</i>				
PER07	365	Communication Number Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type of communication number Information: <i>The following Codes are used by Infor Nexus:</i>				
		Code Name				
		EM Electronic Mail				
		FX Facsimile				
		TE Telephone				
		All valid standard codes can be used.				

PER08

364

Communication Number

X

AN

1/80

GTN Optional

Description: Complete communications number including country or area code when applicable

Information:

Where PER07 = 'EM', this is the email address
Where PER07 = 'FX', this is the Fax Number
Where PER07 = 'TE', this is the Telephone Number

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.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 320	Repeat: >1
Optional	
Loop: SAC	Elements: N/A

Loop Path: HL - S
User Option (Usage): GTN Optional
Purpose: 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1		GTN Optional
325	CUR	Currency	O	1		GTN Optional

SAC

Service, Promotion, Allowance, or Charge Information

Pos: 320	Max: 1
Detail - Optional	
Loop: SAC	Elements: 16

Loop Path: HL - S-SAC

User Option (Usage): GTN Optional

Purpose: 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	M	ID	1/1	GTN Required

Description: Code which indicates an allowance or charge for the service specified

Information:

The following Codes are used by Infor Nexus:

Code	Name
C	Charge

All valid standard codes can be used.

SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	GTN Optional
-------	------	---	---	----	-----	--------------

Description: Code identifying the service, promotion, allowance, or charge

Information:

The following Codes are used by Infor Nexus:

Code	Name
A320	Air Transportation Charge
E890	Ocean Freight
F450	Positioning at Origin
I132	Total Invoice Amount

All valid standard codes can be used.

SAC05	610	Amount	O	N2	1/15	GTN Optional
-------	-----	--------	---	----	------	--------------

Description: Monetary amount

Information:

IF SAC02='A320', set to <Ocean/Air Freight>
IF SAC02='E890', set to <Ocean/Air Freight>
IF SAC02='F450', set to <Origin Charge>
IF SAC02='I132', set to <Invoice>

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 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.

CUR

Currency

POS: 929

Max: 1

Detail - Optional

Loop: SAC

Elements: 21

Loop Path: HL - S-SAC
User Option (Usage): GTN Optional
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	Entity Identifier Code	M	ID	2/3	GTN Required
Description: Code identifying an organizational entity, a physical location, property or an individual						
Information:						
<i>The following Codes are used by Infor Nexus:</i>						
<i>Code Name</i>						
<i>BB Business Partner</i>						
<i>ZZ Mutually Defined</i>						
All valid standard codes can be used.						
CUR02	100	Currency Code	M	ID	3/3	GTN Required
Description: Code (Standard ISO) for country in whose currency the charges are specified						

Loop Vessel Identification

Pos: 360	Repeat: >1
Optional	
Loop: V1	Elements: N/A

Loop Path: HL - S
User Option (Usage): GTN Required
Purpose: To provide vessel details and voyage number

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
360	V1	Vessel Identification	O	1		GTN Required
370	R4	Port or Terminal	O	>1		GTN Required
380	DTM	Date/Time Reference	O	>1		GTN Required

V1 Vessel Identification

Pos: 360	Max: 1
Detail - Optional	
Loop: V1	Elements: 9

Loop Path: HL - S-V1

User Option (Usage): GTN Required

Purpose: To provide vessel details and voyage number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
V102	182	Vessel Name	X	AN	2/28	GTN Optional

Description: Name of ship as documented in "Lloyd's Register of Ships"

Information: <Vessel>

Infor Nexus Optional Data Element

See Note 1

V104	55	Flight/Voyage Number	O	AN	2/10	GTN Optional
------	----	----------------------	---	----	------	--------------

Description: Identifying designator for the particular flight or voyage on which the cargo travels

Information: <Voyage/Flight #>

Infor Nexus Optional Data Element

See Note 2

V105	140	Standard Carrier Alpha Code	O	ID	2/4	GTN Optional
------	-----	-----------------------------	---	----	-----	--------------

Description: Standard Carrier Alpha Code

Information:

Operational Carrier SCAC

See Note 3

Syntax Rules:

1. R0102 - At least one of V101 or V102 is required.
2. C0801 - If V108 is present, then V101 is required.

Note 1:

For Air mode: 2-character carrier IATA Airline Code to identify the Airline is required.

For Ocean mode: Actual departed Vessel Name is required.

For Truck mode: Do not specify.

For Rail mode: Do not specify.

Note 2:

For Air mode: Final arriving Flight number is required,

For Ocean mode: Actual departed Voyage Number is required.

For Truck mode: Do not specify.

For Rail mode: Do not specify.

Note 3:

For Air mode: Optional for Air Shipments to capture the Operational Airline who is operating the flight indicated by V104.

Desired by some customers who need to also know the Operational Carrier for all modes, since this can be different from the Contractual Carrier indicated in TD503. Should be populated with the 2-digit IATA Code.

R4

Port or Terminal

P03: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 8

Loop Path: HL - S-V1

User Option (Usage): GTN Required

Purpose: Contractual or operational port or point relevant to the movement of the cargo

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R401	115	Port or Terminal Function Code	M	ID	1/1	GTN Required

Description: Code defining function performed at the port or terminal with respect to a shipment
Information:

The following Codes are used by Infor Nexus:

Code	Name	GTN Cond.
D	Port of Discharge (Operational)	GTN Cond.
L	Port of Loading (Operational)	GTN Cond.
M	Destination (Operational)	GTN Req.
O	Origin (Operational)	GTN Req.

All valid standard codes can be used.

R402	309	Location Qualifier	X	ID	1/2	GTN Required
------	-----	--------------------	---	----	-----	--------------

Description: Code identifying type of location

Information: SEE COMMENT 1

The following Codes are used by Infor Nexus:

Code	Name	SEE COMMENT 3
D	Census Schedule D	
K	Census Schedule K	
IA	International Air Transport Association (IATA) Location Qualifier	
UN	United Nations Location Code (UNLOCODE)	
ZZ	Mutually Defined	SEE COMMENT 3

All valid standard codes can be used.

R403	310	Location Identifier	X	AN	1/30	GTN Required
------	-----	---------------------	---	----	------	--------------

Description: Code which identifies a specific location

Information:

SEE COMMENT 1

IF R401='D', set to <Port of Discharge> - Original Port of Discharge

IF R401='M', set to <BL/AWB Dest> - As appearing on the Freight Bill

IF R401='O', set to <BL/AWB Origin> - As appearing on the Freight Bill

IF R401='L', set to <Port of Load> - Original Port of Load

R404	114	Port Name	O	AN	2/24	GTN Required
------	-----	-----------	---	----	------	--------------

Description: Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property

R405	26	Country Code	O	ID	2/3	GTN Required
------	----	--------------	---	----	-----	--------------

Description: Code identifying the country

R408	156	State or Province Code	O	ID	2/2	GTN Optional
------	-----	------------------------	---	----	-----	--------------

Description: Code (Standard State/Province) as defined by appropriate government agency

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. For Air mode: For Port of Load, provide the origin IATA Code. For Port of Discharge, provide the Dest IATA Code. For Truck mode: For Port of Load / Port of Discharge, do not specify. For Rail mode: For Port of Load / Port of Discharge, do not specify.

2. Infor Nexus requires that the partner send codified location data. We do not accept free form text location names.
3. To use Mutually Defined city codes, a full list of potential cities including the mutually defined unique codes for each city and the UNLOCODE value for that city must be provided as part of the integration setup.

DTM

Date/Time Reference

POS: 380	Max: >1
Detail - Optional	
Loop: V1	Elements: 6

Loop Path: HL - S-V1

User Option (Usage): GTN Required

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	GTN Required

Description: Code specifying type of date or time, or both date and time
Information:

The following Codes are used by Infor Nexus:

Code	Name	GTN Req.
017	Estimated Delivery	GTN Req.
035	Actual Delivery	
161	Loaded on Vessel	GTN Cond.
369	Estimated Departure Date	GTN Req.
370	Actual Departure Date	GTN Cond.
371	Estimated Arrival Date	GTN Cond.
372	Actual Arrival Date	

All valid standard codes can be used.

DTM02	373	Date	X	DT	8/8	GTN Required
-------	-----	------	---	----	-----	--------------

Description: Date expressed as CCYYMMDD

Information: IF DTM01='017', set to <ETA BL Dest (E)>

IF DTM01='035', set to <ETA BL Dest (A)>

IF DTM01='161', set to <Est On Board Date>

IF DTM01='370', set to <Est Depart Date (A)>

IF DTM01='369', set to <Est Depart Date (E)>

IF DTM01='371', set to <ETA Discharge Port (E)>

IF DTM01='372', set to <ETA Discharge Port (A)>

DTM03	337	Time	X	TM	4/8	GTN Required
-------	-----	------	---	----	-----	--------------

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)

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

Comments:

1. For Air mode: Loaded on Vessel, Actual Departure, and Estimated Arrival are also required.
2. For Ocean mode: Loaded on Vessel, Actual Departure, and Estimated Arrival are also required.
3. For Truck mode: No further conditional dates are required.
4. For Rail mode: No further conditional dates are required.

Loop Hierarchical Level - EQUIPMENT

Repeat: 200000
Mandatory
Loop: HL - E Elements: N/A

User Option (Usage): GTN Required

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		GTN Required
110	TD1	Carrier Details (Quantity and Weight)	O	20		GTN Required
130	TD3	Carrier Details (Equipment)	O	12		GTN Required
140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		GTN Required
150	REF	Reference Identification	O	>1		GTN Required
320		Loop SAC	O		>1	GTN Optional
360		Loop V1	O		>1	GTN Optional

HL

Hierarchical Level

Pos: 010

Max: 1

Detail - Mandatory

Loop: HL - E

Elements: 4

Loop Path: HL - E
User Option (Usage): GTN Required
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	Hierarchical ID Number	M	AN	1/12	GTN Required
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	GTN Optional
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	GTN Required
Description: Code defining the characteristic of a level in a hierarchical structure						
Code		Name				
E		Transportation Equipment				

Comments:

- 1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2. For Ocean Shipments, the provider can send >1 HL*E loop. For Air Shipments the provider should ONLY send 1 HL*E loop

TD1

Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL - E	Elements: 10

Loop Path: HL - E

User Option (Usage): GTN Required

Purpose: To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage																																								
TD101	103	Packaging Code	O	AN	3/5	GTN Required																																								
Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required																																														
Information:																																														
The following Codes are used by Infor Nexus:																																														
<table><tr><td>Code</td><td>Name</td></tr><tr><td>BAG</td><td>Bag</td></tr><tr><td>BAL</td><td>Bale</td></tr><tr><td>BBL</td><td>Barrel</td></tr><tr><td>BOT</td><td>Bottle</td></tr><tr><td>BOX</td><td>Box</td></tr><tr><td>CAS</td><td>Case</td></tr><tr><td>CNT</td><td>Container</td></tr><tr><td>CTN</td><td>Carton</td></tr><tr><td>CYL</td><td>Cylinder</td></tr><tr><td>DRM</td><td>Drum</td></tr><tr><td>JAR</td><td>Jar</td></tr><tr><td>KIT</td><td>Kit</td></tr><tr><td>PCS</td><td>Pieces</td></tr><tr><td>PKG</td><td>Package</td></tr><tr><td>PLT</td><td>Pallet</td></tr><tr><td>ROL</td><td>Roll</td></tr><tr><td>UNT</td><td>Unit</td></tr><tr><td>VEH</td><td>Vehicles</td></tr><tr><td>VIL</td><td>Vial</td></tr></table>							Code	Name	BAG	Bag	BAL	Bale	BBL	Barrel	BOT	Bottle	BOX	Box	CAS	Case	CNT	Container	CTN	Carton	CYL	Cylinder	DRM	Drum	JAR	Jar	KIT	Kit	PCS	Pieces	PKG	Package	PLT	Pallet	ROL	Roll	UNT	Unit	VEH	Vehicles	VIL	Vial
Code	Name																																													
BAG	Bag																																													
BAL	Bale																																													
BBL	Barrel																																													
BOT	Bottle																																													
BOX	Box																																													
CAS	Case																																													
CNT	Container																																													
CTN	Carton																																													
CYL	Cylinder																																													
DRM	Drum																																													
JAR	Jar																																													
KIT	Kit																																													
PCS	Pieces																																													
PKG	Package																																													
PLT	Pallet																																													
ROL	Roll																																													
UNT	Unit																																													
VEH	Vehicles																																													
VIL	Vial																																													
(For BreakBulk)																																														
(For RORO)																																														
All valid standard codes can be used.																																														
TD102	80	Lading Quantity	X	NO	1/7	GTN Required																																								
Description: Number of units (pieces) of the lading commodity																																														
Information: Total Number of pieces shipped by LSP																																														
TD106	187	Weight Qualifier	O	ID	1/2	GTN Optional																																								
Description: Code defining the type of weight																																														
Information: See the Comment 1																																														
The following Codes are used by Infor Nexus:																																														
<table><tr><td>Code</td><td>Name</td></tr><tr><td>B</td><td>Billed Weight (Chargeable)</td></tr><tr><td>G</td><td>Gross Weight (Actual)</td></tr><tr><td>N</td><td>Actual Net Weight</td></tr><tr><td>A1</td><td>Dimensional Weight</td></tr></table>							Code	Name	B	Billed Weight (Chargeable)	G	Gross Weight (Actual)	N	Actual Net Weight	A1	Dimensional Weight																														
Code	Name																																													
B	Billed Weight (Chargeable)																																													
G	Gross Weight (Actual)																																													
N	Actual Net Weight																																													
A1	Dimensional Weight																																													
GTN Cond.																																														
GTN Cond.																																														
All valid standard codes can be used.																																														
TD107	81	Weight	X	R	1/10	GTN Required																																								
Description: Numeric value of weight																																														
TD108	355	Unit or Basis for Measurement Code	X	ID	2/2	GTN Required																																								
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken																																														

		Information: <i>The following Codes are used by Infor Nexus:</i> <i>Code Name</i> <i>KG Kilogram</i> <i>LB Pound</i> All valid standard codes can be used.				
TD109	183	Volume	X	R	1/8	GTN Required
Description: Value of volumetric measure						
TD110	355	Unit or Basis for Measurement Code	X	ID	2/2	GTN Required
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
		Information: <i>The following Codes are used by Infor Nexus:</i> <i>Code Name</i> <i>CF Cubic Feet</i> <i>CO Cubic Meters (Net)</i> <i>CR Cubic Meter</i> All valid standard codes can be used.				

Syntax Rules:

- 1. C0102 - If TD101 is present, then TD102 is required.
- 2. C0304 - If TD103 is present, then TD104 is required.
- 3. C0607 - If TD106 is present, then TD107 is required.
- 4. P0708 - If either TD107 or TD108 is present, then the other is required.
- 5. P0910 - If either TD109 or TD110 is present, then the other is required.

Comments:

- 1.
 - For Air mode: Billed Weight is required.
 - For Ocean mode: Gross Weight is required.
 - For Truck mode: Gross Weight is required.
 - For Rail mode: Gross Weight is required.

TD3

Carrier Details (Equipment)

POS: 130	Max: 12
Detail - Optional	
Loop: HL - E	Elements: 10

Loop Path: HL - E

User Option (Usage): GTN Required

Purpose: To specify transportation details relating to the equipment used by the carrier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD302	206	Equipment Initial	O	AN	1/4	GTN Required
Description: Prefix or alphabetic part of an equipment unit's identifying number Information: <i>Shipper or Carrier prefix for Ocean</i> <i>For Air shipment, this should be the Carrier Identification portion (aka first four characters) of the HAWB#</i> <i>See Note 1</i>						
TD303	207	Equipment Number	X	AN	1/10	GTN Required
Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) Information: <i>Container ID for Ocean</i> <i>For Air Shipment, this should be the remaining portion of the HAWB# after the Carrier Identification portion (aka first four characters)</i> <i>THIS IS INFOR NEXUS REQUIRED DATA ELEMENT</i> <i>The TD302 and TD303 will be combined within Infor Nexus to populate the <Container #> field</i> <i>See Note 1</i>						
TD309	225	Seal Number	O	AN	2/15	GTN Optional
Description: Unique number on seal used to close a shipment Information: <i><Seal #></i> <i>See Comment 1</i>						
TD310	24	Equipment Type	X	ID	4/4	GTN Optional
Description: Code identifying equipment type Information: <i><Container Type> See Appendix A for valid list of ISO Container Types</i> <i>See Comment 2</i>						

Syntax Rules:

1. E0110 - Only one of TD301 or TD310 may be present.
2. C0203 - If TD302 is present, then TD303 is required.
3. C0405 - If TD304 is present, then TD305 is required.
4. P0506 - If either TD305 or TD306 is present, then the other is required.

Comments:

1.
 - For Air mode: Seal Number is optional when shipment is Air FCL.
 - For Ocean mode: Seal Number is required.
 - For Truck mode: Seal Number is optional when shipment is Truck FTL.
 - For Rail mode: Seal Number is optional when shipment is Rail FCL.

2.

For Air mode: Equipment Type is optional when shipment is Air FCL.
For Ocean mode: Equipment Type is required.
For Truck mode: Equipment Type is optional.
For Rail mode: Equipment Type is optional.

Note 1:

Container Number will be populated in the app with the combined values from TD302+TD303 (e.g. APLU123456).

TD4

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

Pos: 140

Max: 5

Detail - Optional

Loop: HL - E

Elements: 5

Loop Path: HL - E
User Option (Usage): GTN Required
Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage																
TD401	152	Special Handling Code	X	ID	2/3	GTN Required																
Description: Code specifying special transportation handling instructions Information: <ContainerLoad> The following Codes are used by Infor Nexus: <table><tr><th>Code</th><th>Name</th></tr><tr><td>CF</td><td>Container, Factory Load</td></tr><tr><td>LN</td><td>Less Than Container, Consolidator Load</td></tr><tr><td>LT</td><td>Less Than Full Carload</td></tr><tr><td>TC</td><td>Trailer, Consolidator Load</td></tr><tr><td>TF</td><td>Trailer, Factory Load</td></tr><tr><td>VT</td><td>Vehicles in Truckaway</td></tr><tr><td>WBB</td><td>Wharfage - Breakbulk</td></tr></table> All valid standard codes can be used.							Code	Name	CF	Container, Factory Load	LN	Less Than Container, Consolidator Load	LT	Less Than Full Carload	TC	Trailer, Consolidator Load	TF	Trailer, Factory Load	VT	Vehicles in Truckaway	WBB	Wharfage - Breakbulk
Code	Name																					
CF	Container, Factory Load																					
LN	Less Than Container, Consolidator Load																					
LT	Less Than Full Carload																					
TC	Trailer, Consolidator Load																					
TF	Trailer, Factory Load																					
VT	Vehicles in Truckaway																					
WBB	Wharfage - Breakbulk																					

- 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.

REF

Reference Identification

POS: 130	Max: >1
Detail - Optional	
Loop: HL - E	Elements: 4

Loop Path: HL - E

User Option (Usage): GTN Required

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	GTN Required

Description: Code qualifying the Reference Identification

Information:

***There are 3 reference fields available at the Equipment Level. All Qualifiers can be used to pass customer specific data at the Equipment level. Infor Nexus PSO will work with you to configure these qualifiers based on the customers data requirements

The following Codes are used by Infor Nexus:

Code	Name	GTN Req.
CB	Combined Shipment	GTN Req.
CT	Contract Number	GTN Opt.
KK	Delivery Reference	GTN Opt.

All valid standard codes can be used.

REF02	127	Reference Identification	X	AN	1/30	GTN Required
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Information:

IF REF01 = 'CB', set to <Service Type> See Note 1

IF REF01 = 'CT', set to <Contract #>

IF REF01 = 'KK', set to <Load Type> See Note 2

Syntax Rules:

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

Note 1:

Possible values for Service Type:

CFS/CFS – less than container load

CFS/CY – full container consolidated by the Consolidator

CY/CY – full container consolidated by the vendor

CY/CFS – full container consolidated by the vendor

A/A – airport to airport

A/D – airport to door

D/A – door to airport

D/D – door to door

Note 2:

Possible values for Load Type:

Live

Drop

Loop Service, Promotion, Allowance, or Charge Information

Pos: 320	Repeat: >1
Optional	
Loop: SAC	Elements: N/A

Loop Path: HL - E
User Option (Usage): GTN Optional
Purpose: 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1		GTN Optional
325	CUR	Currency	O	1		GTN Optional

SAC

Service, Promotion, Allowance, or Charge Information

Pos: 320	Max: 1
Detail - Optional	
Loop: SAC	Elements: 16

Loop Path: HL - E-SAC

User Option (Usage): GTN Optional

Purpose: 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	M	ID	1/1	GTN Required
Description: Code which indicates an allowance or charge for the service specified						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
C Charge						
All valid standard codes can be used.						
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	GTN Optional
Description: Code identifying the service, promotion, allowance, or charge						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
A320 Air Transportation Charge						
E890 Ocean Freight						
F450 Positioning at Origin						
All valid standard codes can be used.						
SAC05	610	Amount	O	N2	1/15	GTN Optional
Description: Monetary amount						
Information: IF SAC02= 'A320', set to <Ocean/Air Freight>						
IF SAC02= 'E890', set to <Ocean/Air Freight>						
IF SAC02= 'F450', set to <Origin Charge>						

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 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.

CUR

Currency

Loop: SAC

Max: 1

Detail - Optional

Elements: 21

Loop Path: HL - E-SAC
User Option (Usage): GTN Optional
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	Entity Identifier Code	M	ID	2/3	GTN Required
Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes can be used.						
CUR02	100	Currency Code	M	ID	3/3	GTN Required
Description: Code (Standard ISO) for country in whose currency the charges are specified						

Loop Vessel Identification

Repeat: >1
Optional
Loop: V1 Elements: N/A

Loop Path: HL - E

User Option (Usage): GTN Optional

Purpose: To provide vessel details and voyage number

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
360	V1	Vessel Identification	O	1		GTN Required
370	R4	Port or Terminal	O	>1		GTN Required
380	DTM	Date/Time Reference	O	>1		GTN Required

Note 1:

1. The Loop HL/V1 is optional. However, when present, it must contain at least 1 V1, 1 R4 and 1 DTM segment with all conditional elements.
2. More than one Milestone can be reported in a given HL/V1 Loop as long as all milestones occur at the single location indicated by the R4 segment.
3. If multiple milestones occurring at different locations must be reported for this level, then one HL/V1 Loop is required for each location.
4. For example, the following 3 milestones occurring at 2 different locations...

Pickup Requested @ Origin (DTM01=118, R401=O)

Picked Up @ Origin (DTM01=140, R401=O)

Delivered @ Port of Load (DTM01=035, R401=L)

...would be represented as...

V1**MILESTONE

R4*O*UN*MYJBH*Johor Bahru*MY

DTM*118*20070723*1230*LT

DTM*140*20070724*0900*LT

V1**MILESTONE

R4*L*UN*MYRGN*Rangoon*MY

DTM*035*20070724*1645*LT

V1

Vessel Identification

POS: 300

Max: 1

Detail - Optional

Loop: V1

Elements: 9

Loop Path: HL - E-V1
User Option (Usage): GTN Required
Purpose: To provide vessel details and voyage number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
V102	182	Vessel Name	X	AN	2/28	GTN Optional
Description: Name of ship as documented in "Lloyd's Register of Ships"						
Information:						
For reporting Milestones occurring for this piece of Equipment, report 1 V1 loop per Port Function (ie Milestone Location). Report the Vessel Name as "MILESTONE" to indicate the loop contains one or more Milestones.						

Syntax Rules:

- 1. R0102 - At least one of V101 or V102 is required.
- 2. C0801 - If V108 is present, then V101 is required.

R4**Port or Terminal**

Pos: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 8

Loop Path: HL - E-V1**User Option (Usage):** GTN Required**Purpose:** Contractual or operational port or point relevant to the movement of the cargo**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R401	115	Port or Terminal Function Code	M	ID	1/1	GTN Required

Description: Code defining function performed at the port or terminal with respect to a shipment**Information:**

Depending on your customer's Milestone requirements, please work with your Infor Nexus project team to define the combination of R401 and DTM01 qualifiers to represent these Milestones. Common values are provided below, but other standard v4010 values can also be supported.

The following R401 Codes are used by Infor Nexus:

Code	Name
B	Reconsolidation Point (Operational)
C	De-Consolidation Point (Operational)
D	Port of Discharge (Operational)
G	Port of Entry (Operational)
L	Port of Loading (Operational)
M	Destination (Operational)
N	Final Destination (Operational)
O	Origin (Operational)

All valid standard codes can be used.

R402	309	Location Qualifier	X	ID	1/2	GTN Required
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Description: Code identifying type of location**Information:** SEE COMMENT 1

The following Codes are used by Infor Nexus:

Code	Name
D	Census Schedule D
K	Census Schedule K
IA	International Air Transport Association (IATA) Location Qualifier
UN	United Nations Location Code (UNLOCODE)
ZZ	Mutually Defined (SEE COMMENT 2)

All valid standard codes can be used.

R403	310	Location Identifier	X	AN	1/30	GTN Required
------	-----	---------------------	---	----	------	--------------

Description: Code which identifies a specific location**Information:** SEE COMMENT 1

IF R401='D', set to <Discharge Port>
 IF R401='M', set to <BL/AWB Dest>
 IF R401='O', set to <Origin City>
 IF R401='L', set to <Origin Port>

R404	114	Port Name	O	AN	2/24	GTN Optional
------	-----	-----------	---	----	------	--------------

Description: Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property

R405	26	Country Code	O	ID	2/3	GTN Optional
------	----	--------------	---	----	-----	--------------

Description: Code identifying the country

R408	156	State or Province Code	O	ID	2/2	GTN Optional
------	-----	------------------------	---	----	-----	--------------

Description: Code (Standard State/Province) as defined by appropriate government agency

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. If the segment is provided, then R401, R402, and R403 are required, as Infor Nexus requires partners to send a codified location. However, R404, R405 and R408 are also desired as alternate text to assist any support requests from customers.
2. To use Mutually Defined city codes, a full list of potential cities including the mutually defined unique codes for each city and the UNLOCODE value for that city must be provided as part of the integration setup.

DTM

Date/Time Reference

POS: 388	Max: >1
Detail - Optional	
Loop: V1	Elements: 6

Loop Path: HL - E-V1

User Option (Usage): GTN Required

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	GTN Required

Description: Code specifying type of date or time, or both date and time

Information:

Depending on your customer's Milestone requirements, please work with your Infor Nexus project team to define the combination of R401 and DTM01 qualifiers to represent these Milestones. Common values are provided below, but other standard v4010 values can also be supported. There are also 3 Date reference fields available at the Equipment Level. Please work with your Infor Nexus project team to define the qualifiers for these dates.

The following Codes are used by Infor Nexus:

Code	Name
035	Delivered
050	Received
370	Actual Departure Date
372	Actual Arrival Date

All valid standard codes can be used.

DTM02	373	Date	X	DT	8/8	GTN Required
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Description: Date expressed as CCYYMMDD

DTM03	337	Time	X	TM	4/8	GTN Required
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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)

DTM04	623	Time Code	O	ID	2/2	GTN Required
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Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Information:

The following Codes are used by Infor Nexus:

Code	Name
LT	Local Time
UT	Universal Time Coordinate

All valid standard codes can be used.

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.

Comments:

1. If the segment is provided, then DTM01, DTM02, DTM03, and DTM04 are required.
2. If the Time component of the date is not tracked, then report a DTM03 value of 1200 HHMM and a DTM04 value of UT (noon GMT).

Loop Hierarchical Level - ORDER

Repeat: 200000
Mandatory
Loop: HL - O Elements: N/A

User Option (Usage): GTN Required

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		GTN Required
050	PRF	Purchase Order Reference	O	1		GTN Required
150	REF	Reference Identification	O	>1		GTN Required
360		Loop V1	O		>1	GTN Optional

Comments:

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

HL

Hierarchical Level

POS: 010

Max: 1

Detail - Mandatory

Loop: HL - O Elements: 4

Loop Path: HL - O
User Option (Usage): GTN Required
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	Hierarchical ID Number	M	AN	1/12	GTN Required
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	GTN Required
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	GTN Required
Description: Code defining the characteristic of a level in a hierarchical structure						
Code		Name				
O		Order				

Comments:
1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

PRF

Purchase Order Reference

POS: 030

Max: 1

Detail - Optional

Loop: HL - O

Elements: 7

Loop Path: HL - O
User Option (Usage): GTN Required
Purpose: To provide reference to a specific purchase order

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PRF01	324	Purchase Order Number	M	AN	1/22	GTN Required
Description: Identifying number for Purchase Order assigned by the orderer/purchaser						
Information: <Purchase Order>						
PRF02	328	Release Number	O	AN	1/30	GTN Optional
Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction						

REF

Reference Identification

POS: 130	Max: >1
Detail - Optional	
Loop: HL - O	Elements: 4

Loop Path: HL - O

User Option (Usage): GTN Required

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	GTN Required

Description: Code qualifying the Reference Identification

Information:

All Qualifiers can be used to pass customer specific data at the order level. Infor Nexus PSO will work with you to configure these qualifiers based on the customers data requirements

The following Codes are used by Infor Nexus:

Code Name

19 Division Identifier GTN Req. (Must match exactly what was sent as the Division ID on the PO)

ACD Class Code GTN Opt. (If customer uses Order Classes, must match exactly what is sent on the PO)

All valid standard codes can be used.

REF02	127	Reference Identification	X	AN	1/30	GTN Required
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

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

Comments:

1. All REF01 qualifiers are supported as flexible order level references that will be applied to all children HL*I items
2. Division Identifier is Infor Nexus required and should either match what was sent on the PO, or if different, uniquely represent the same Division. Class Code may also be required depending on your Customer's order data requirements. If required, Class Code should either match what was sent on the PO, or if different, uniquely represent the same Order Class.

Loop Vessel Identification

Pos: 360	Repeat: >1
Optional	
Loop: V1	Elements: N/A

Loop Path: HL - O
User Option (Usage): GTN Optional
Purpose: To provide vessel details and voyage number

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
360	V1	Vessel Identification	O	1		GTN Required
370	R4	Port or Terminal	O	>1		GTN Required
380	DTM	Date/Time Reference	O	>1		GTN Required

Note 1:

Purpose: To provide details of actual Milestones (type, date, time, port function, and location) that have occurred against all Line Items associated with this particular Order.

Note 2:

- 1. The Loop HL/V1 is optional. However, when present, it must contain at least 1 V1, 1 R4 and 1 DTM segment with all conditional elements.
- 2. More than one Milestone can be reported in a given HL/V1 Loop as long as all milestones occur at the single location indicated by the R4 segment.
- 3. If multiple milestones occurring at different locations must be reported for this level, then one HL/V1 Loop is required for each location.
- 4. For example, the following 3 milestones occurring at 2 different locations...
 - Pickup Requested @ Origin (DTM01=118, R401=O)
 - Picked Up @ Origin (DTM01=140, R401=O)
 - Received @ Consolidation Point (DTM01=050, R401=B)...would be represented as...

```
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*118*20070723*1230*LT
DTM*140*20070724*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070724*1645*LT
```

V1

Vessel Identification

POS: 300

Max: 1

Detail - Optional

Loop: V1

Elements: 9

Loop Path: HL - O-V1
User Option (Usage): GTN Required
Purpose: To provide vessel details and voyage number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
V102	182	Vessel Name	X	AN	2/28	GTN Required
Description: Name of ship as documented in "Lloyd's Register of Ships"						
Information:						
For reporting Milestones occurring for this piece of Equipment, report 1 V1 loop per Port Function (ie Milestone Location).						
Report the Vessel Name as "MILESTONE" to indicate the loop contains one or more Milestones.						

Syntax Rules:

- 1. R0102 - At least one of V101 or V102 is required.
- 2. C0801 - If V108 is present, then V101 is required.

R4

Port or Terminal

Pos: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 8

Loop Path: HL - O-V1

User Option (Usage): GTN Required

Purpose: Contractual or operational port or point relevant to the movement of the cargo

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R401	115	Port or Terminal Function Code	M	ID	1/1	GTN Required

Description: Code defining function performed at the port or terminal with respect to a shipment

Information:

Depending on your customer's Milestone requirements, please work with your Infor Nexus project team to define the combination of R401 and DTM01 qualifiers to represent these Milestones. Common values are provided below, but other standard v4010 values can also be supported.

The following Codes are used by Infor Nexus:

Code	Name
B	Reconsolidation Point (Operational)
C	De-Consolidation Point (Operational)
D	Port of Discharge (Operational)
G	Port of Entry (Operational)
L	Port of Loading (Operational)
M	Destination (Operational)
N	Final Destination (Operational)
O	Origin (Operational)

All valid standard codes can be used.

R402	309	Location Qualifier	X	ID	1/2	GTN Required
------	-----	--------------------	---	----	-----	--------------

Description: Code identifying type of location

Information: SEE COMMENT 1

The following Codes are used by Infor Nexus:

Code	Name
D	Census Schedule D
K	Census Schedule K
IA	International Air Transport Association (IATA) Location Qualifier
UN	United Nations Location Code (UNLOCODE)
ZZ	Mutually Defined (SEE COMMENT 2)

All valid standard codes can be used.

R403	310	Location Identifier	X	AN	1/30	GTN Required
------	-----	---------------------	---	----	------	--------------

Description: Code which identifies a specific location

Information:

SEE COMMENT 1

IF R401='D', set to <Discharge Port>

IF R401='M', set to <BL/AWB Dest>

IF R401='O', set to <Origin City>

IF R401='L', set to <Origin Port>

R404	114	Port Name	O	AN	2/24	GTN Required
------	-----	-----------	---	----	------	--------------

Description: Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property

R405	26	Country Code	O	ID	2/3	GTN Required
------	----	--------------	---	----	-----	--------------

Description: Code identifying the country

R408	156	State or Province Code	O	ID	2/2	GTN Optional
------	-----	------------------------	---	----	-----	--------------

Description: Code (Standard State/Province) as defined by appropriate government agency

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. If the segment is provided, then R401, R402, and R403 are required, as Infor Nexus requires partners to send a codified location. However, R404, R405 and R408 are also desired as alternate text to assist any support requests from customers.
2. To use Mutually Defined city codes, a full list of potential cities including the mutually defined unique codes for each city and the UNLOCODE value for that city must be provided as part of the integration setup.

DTM

Date/Time Reference

P0506	Max: >1
Detail - Optional	
Loop: V1	Elements: 6

Loop Path: HL - O-V1

User Option (Usage): GTN Required

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	GTN Required

Description: Code specifying type of date or time, or both date and time

Information:

Depending on your customer's Milestone requirements, please work with your Infor Nexus project team to define the combination of R401 and DTM01 qualifiers to represent these Milestones. Common values are provided below, but other standard v4010 values can also be supported.

The following Codes are used by Infor Nexus:

Code	Name
003	Invoice
011	Shipped (from Factory)
050	Received (aka Received from Supplier)
118	Requested Pick-up (aka Supplier Booked w/FF)
140	Actual (Pick-up) (aka Received from Supplier)

All valid standard codes can be used.

DTM02	373	Date	X	DT	8/8	GTN Required
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Description: Date expressed as CCYYMMDD

DTM03	337	Time	X	TM	4/8	GTN Required
-------	-----	------	---	----	-----	--------------

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)

DTM04	623	Time Code	O	ID	2/2	GTN Required
-------	-----	-----------	---	----	-----	--------------

Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Information:

The following Codes are used by Infor Nexus:

Code	Name
LT	Local Time
UT	Universal Time Coordinate

All valid standard codes can be used.

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.

Comments:

1. If the segment is provided, then DTM01, DTM02, DTM03, and DTM04 are required.
2. If the Time component of the date is not tracked, then report a DTM03 value of 1200 HHMM and a DTM04 value of UT (noon GMT).

Loop Hierarchical Level - ITEM

POS: 010	Repeat: 200000
	Mandatory
Loop: HL - I	Elements: N/A

User Option (Usage): GTN Required

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		GTN Required
020	LIN	Item Identification	O	1		GTN Required
030	SN1	Item Detail (Shipment)	O	1		GTN Required
060	PO4	Item Physical Details	O	1		GTN Optional
070	PID	Product/Item Description	O	200		GTN Optional
080	MEA	Measurements	O	40		GTN Required
150	REF	Reference Identification	O	>1		GTN Required
200	DTM	Date/Time Reference	O	10		GTN Optional
220		Loop N1	O		200	GTN Optional
320		Loop SAC	O		>1	GTN Optional
360		Loop V1	O		>1	GTN Optional

HL

Hierarchical Level

Pos: 010

Max: 1

Detail - Mandatory

Loop: HL - I

Elements: 4

Loop Path: HL - I
User Option (Usage): GTN Required
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	Hierarchical ID Number	M	AN	1/12	GTN Required
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	GTN Required
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	GTN Required
Description: Code defining the characteristic of a level in a hierarchical structure						
		Code	Name			
		I	Item			

Comments:

- 1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning

LIN**Item Identification**

P03: 020	Max: 1
Detail - Optional	
Loop: HL - I	Elements: 31

Loop Path: HL - I**User Option (Usage):** GTN Required**Purpose:** To specify basic item identification data**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	Assigned Identification	O	AN	1/20	GTN Required
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	GTN Required
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes can be used.				
LIN03	234	Product/Service ID	M	AN	1/48	GTN Required
		Description: Identifying number for a product or service Information: <Product Code> IF LIN02 = "IN"				
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	GTN Required
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Information: See Comment 1 If LIN04 = "LS" (Load Sequence) All valid standard codes can be used.				
LIN05	234	Product/Service ID	X	AN	1/48	GTN Required
		Description: Identifying number for a product or service				
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	GTN Required
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes can be used.				
LIN07	234	Product/Service ID	X	AN	1/48	GTN Required
		Description: Identifying number for a product or service Information: If LIN06 = "PL", this is the line item id (number) that is associated to the customers PO line item number				

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.

Semantics:

1. LIN07 is the line item identification associated with the PO line item number.

Comments:

1. Numeric value. If a range is entered, the valid format is numeric followed by a dash followed by a numeric. Other than the dash, no alpha characters (including commas) will be supported. No spaces are allowed. Sorting will be based on the first numeric value before the dash. (Valid examples are: ' 7' or ' 7-10').

SN1

Item Detail (Shipment)

POS: 030

Max: 1

Detail - Optional

Loop: HL - I

Elements: 8

Loop Path: HL - I
User Option (Usage): GTN Required
Purpose: To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN101	350	Assigned Identification	O	AN	1/20	GTN Optional
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SN102	382	Number of Units Shipped	M	R	1/10	GTN Required
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set				
		Information: <Quantity>				
		Shipped Quantity, in terms of units found on Purchase Order				
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	GTN Required
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Information:				
		REFER TO APPENDIX A2 FOR INFOR NEXUS SUPPORTED CODES				
		All valid standard codes can be used.				

Semantics:

- 1. SN101 is the ship notice line-item identification.

Comments:

- 1. SN103 defines the unit of measurement for both SN102 and SN104.

PO4

Item Physical Details

PO401	Max: 1
Detail - Optional	
Loop: HL - I	Elements: 18

Loop Path: HL - I

User Option (Usage): GTN Optional

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	Pack	O	N0	1/6	GTN Optional
Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container Information: <MasterPackQuantity>						
PO402	357	Size	X	R	1/8	GTN Optional
Description: Size of supplier units in pack						
PO403	355	Unit or Basis for Measurement Code	X	ID	2/2	GTN Optional
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Information: REFER TO APPENDIX A2 FOR INFOR NEXUS SUPPORTED CODES All valid standard codes can be used.						
PO414	810	Inner Pack	O	N0	1/6	GTN Optional
Description: The number of eaches per inner container Information: <InnerPackQuantity>						
PO416	350	Assigned Identification	X	AN	1/20	GTN Optional
Description: Alphanumeric characters assigned for differentiation within a transaction set Information: Lower Value of Carton Range <CartonRange>						
PO417	350	Assigned Identification	O	AN	1/20	GTN Optional
Description: Alphanumeric characters assigned for differentiation within a transaction set Information: Upper Value of Carton Range <CartonRange>						

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C1716 - If PO417 is present, then PO416 is required.

PID

Product/Item Description

PID: 070

Max: 200

Detail - Optional

Loop: HL - I

Elements: 9

Loop Path: HL - I
User Option (Usage): GTN Optional
Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
PID01	349	Item Description Type	M	ID	1/1	GTN Required				
Description: Code indicating the format of a description Information: <i>The following Codes are used by Infor Nexus:</i> <table><tr><td>Code</td><td>Name</td></tr><tr><td>F</td><td>Free-form</td></tr></table> All valid standard codes can be used.							Code	Name	F	Free-form
Code	Name									
F	Free-form									
PID05	352	Description	X	AN	1/80	GTN Optional				
Description: A free-form description to clarify the related data elements and their content Information: <ProductName>										

Syntax Rules:

- 1. R0405 - At least one of PID04 or PID05 is required.

MEA

Measurements

POS: 000	Max: 40
Detail - Optional	
Loop: HL - I	Elements: 10

Loop Path: HL - I

User Option (Usage): GTN Required

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	Measurement Reference ID Code	O	ID	2/2	GTN Required

Description: Code identifying the broad category to which a measurement applies

Information:

The following Codes are used by Infor Nexus:

Code	Name	
CT	Counts	GTN Req.
PD	Physical Dimensions	GTN Cond.
WT	Weights	GTN Cond.

All valid standard codes can be used.

MEA02	738	Measurement Qualifier	O	ID	1/3	GTN Required
-------	-----	-----------------------	---	----	-----	--------------

Description: Code identifying a specific product or process characteristic to which a measurement applies

Information:

The following Codes are used by Infor Nexus:

Code	Name	
B	Billed Weight	
G	Gross Weight	
SQ	Shipped Quantity	
VOL	Volume	
IF MEA01='CT', set to 'SQ' GTN Req.		
IF MEA01='PD', set to 'VOL' GTN Cond.		
IF MEA01='WT', set to 'G' GTN Cond.		

See also Comment 1

All valid standard codes can be used.

MEA03	739	Measurement Value	X	R	1/20	GTN Required
-------	-----	-------------------	---	---	------	--------------

Description: The value of the measurement

Information:

IF MEA01='CT', set to <# of Packages>
 IF MEA01='PD', set to <Volume>
 IF MEA01='WT', set to <Weight>

MEA04	C001	Composite Unit of Measure	X	Comp		GTN Required
-------	------	---------------------------	---	------	--	--------------

Description: To identify a composite unit of measure(See Figures Appendix for examples of use)

MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	GTN Required
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Information:

The following Codes are used by Infor Nexus:

Code	Name
CF	Cubic Feet
CR	Cubic Meter
CT	Carton
KG	Kilogram
LB	Pound
MP	Metric Ton
PK	Package
TG	Gross Ton

IF MEA01='CT', set to 'PK' or 'CT'

IF MEA01='PD', set to 'CF' or 'CR'
IF MEA01='WT', set to 'KG', 'LB', 'TG' or 'MP'
All valid standard codes can be used.

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1.
For Air mode: Gross Weight is required.
For Ocean mode: Volume is required.
For Truck mode: Volume is required
For Rail mode: Volume is required.

Note 1:

If MEA01 = CT, then MEA02=SQ and MEA04 = carton unit (PK or CT).
If MEA01 = PD, then MEA02 = VOL and MEA04 = CF or CR.
If MEA01 = WT, then MEA02 = G and MEA04 = KG or LB or TG or MP.

REF

Reference Identification

POS: 130	Max: >1
Detail - Optional	
Loop: HL - I	Elements: 4

Loop Path: HL - I

User Option (Usage): GTN Required

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	GTN Required

Description: Code qualifying the Reference Identification

Information:

***There are 9 reference fields available at the container line item level. All Qualifiers can be used to pass customer specific data at the shipment line level. Infor Nexus PSO will work with you to configure these qualifiers based on the customers data requirements*

The following Codes are used by Infor Nexus:

Code	Name
4H	Commercial Invoice Number
AW	Air Waybill Number (Contractual BL# - typically House Airway Bill for Air)
BM	Bill of Lading Number
CN	Carrier's Reference Number (PRO/Invoice) - (see Comment 1 below)
IN	Consignee's Invoice Number
LT	Lot Number
MF	Manufacturers Part Number
OL	Original Shipper's Bill of Lading Number
WY	Waybill Number - Rail Carrier's Billable Reference (see Comment 1 below)

All valid standard codes can be used.

REF02	127	Reference Identification	X	AN	1/30	GTN Required
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Information:

IF REF01='AW', set to <BL/AWB> THIS IS A GTN REQUIRED FIELD FOR AIR
 IF REF01='BM', set to <BL/AWB> THIS IS A GTN REQUIRED FIELD FOR OCEAN
 IF REF01='OL', set to <BL/AWB> THIS IS A GTN REQUIRED FIELD FOR TRUCK
 IF REF01='IN', set to <Invoice Number>
 IF REF01='4H', set to <Invoice Number>
 IF REF01='CN', set to <PRONumber> OPTIONAL, BY MODE. SEE COMMENT 2 BELOW.
 IF REF01='WY', set to <BL/AWB> THIS IS A GTN REQUIRED FIELD FOR RAIL
 IF REF01='MF', set to <ManufacturerID>

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.

Note 1:

For all modes:

*REF*4H for Commercial Invoice or REF*IN for Consignee's Invoice Number is required as applicable.*

For Air mode:

*REF*AW for the contractual Airway Bill # that the Consignee will pay is required.*

For Ocean mode:

*REF*BM for the contractual Bill of Lading # that the Consignee will pay is required.*

*REF*CN for the operational Master BL # is optional.*

For Truck mode:

*REF*OL for the Shipper Issued Truck BL is required when applicable.*

*REF*CN for the Trucker PRO # is required when applicable.*

For Rail mode:

*REF*WY for the Shipper Issued Rail BL # is required.*

*REF*CN for the Rail Carrier's Waybill is optional.*

DTM

Date/Time Reference

POS: 200	Max: 10
Detail - Optional	
Loop: HL - I	Elements: 6

Loop Path: HL - I

User Option (Usage): GTN Optional

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	GTN Required

Description: Code specifying type of date or time, or both date and time

Information:

The following Codes are used by Infor Nexus:

Code	Name
001	Cancel After
37	Ship Not Before
38	Ship No Later

All valid standard codes can be used.

DTM02	373	Date	X	DT	8/8	GTN Optional
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Description: Date expressed as CCYYMMDD

Information:

IF DTM01='038', set to <ShipWindowEndDate>
 IF DTM01='037', set to <ShipWindowStartDate>
 IF DTM01='037', set to <ShipWindowCancelDate>

DTM03	337	Time	X	TM	4/8	GTN Optional
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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)

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

Comments:

1. Actual Delivery, Actual Departure Date, and Actual Arrival Date would only be sent as a replace ASN once the actual dates are known.

Loop Name	POS: 220
	Repeat: 200
	Optional
Loop: N1	
Elements: N/A	

Loop Path: HL - I
User Option (Usage): GTN Optional
Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	O	1		GTN Optional
240	N3	Address Information	O	2		GTN Optional
250	N4	Geographic Location	O	1		GTN Optional
270	PER	Administrative Communications Contact	O	3		GTN Optional

N1	Name	Pos: 220	Max: 1
		Detail - Optional	
		Loop: N1	Elements: 6

Loop Path: HL - I-N1
User Option (Usage): GTN Optional
Purpose: 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	M	ID	2/3	GTN Required
Description: Code identifying an organizational entity, a physical location, property or an individual						
Information:						
<i>The following Codes are used by Infor Nexus:</i>						
<i>Code Name</i>						
<i>SU Supplier/Manufacturer</i>						
All valid standard codes can be used.						
N102	93	Name	X	AN	1/60	GTN Optional
Description: Free-form name						
N103	66	Identification Code Qualifier	X	ID	1/2	GTN Optional
Description: Code designating the system/method of code structure used for Identification Code (67)						
Information:						
<i>The following Codes are used by Infor Nexus:</i>						
<i>Code Name</i>						
<i>ZZ Mutually Defined</i>						
All valid standard codes can be used.						
N104	67	Identification Code	X	AN	2/80	GTN Optional
Description: Code identifying a party or other code						

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.

N3

Address Information

POS: 240

Max: 2

Detail - Optional

Loop: N1

Elements: 2

Loop Path: HL - I-N1
User Option (Usage): GTN Optional
Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	Address Information	M	AN	1/55	GTN Required
		Description: Address information				
N302	166	Address Information	O	AN	1/55	GTN Optional
		Description: Address information				

N4

Geographic Location

POS: 230	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

Loop Path: HL - I-N1

User Option (Usage): GTN Optional

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	City Name	O	AN	2/30	GTN Required
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	GTN Optional
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	GTN Optional
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	GTN Required
		Description: Code identifying the country				
N405	309	Location Qualifier	X	ID	1/2	GTN Required
		Description: Code identifying type of location All valid standard codes can be used.				
N406	310	Location Identifier	O	AN	1/30	GTN Required
		Description: Code which identifies a specific location				

Syntax Rules:

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

Comments:

1. N402 is required only if city name (N401) is in the U.S. or Canada.

PER

Administrative Communications Contact

Pos: 270	Max: 3
Detail - Optional	
Loop: N1	Elements: 9

Loop Path: HL - I-N1**User Option (Usage):** GTN Optional**Purpose:** To identify a person or office to whom administrative communications should be directed**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	Contact Function Code	M	ID	2/2	GTN Required
		Description: Code identifying the major duty or responsibility of the person or group named All valid standard codes can be used.				
PER02	93	Name	O	AN	1/60	GTN Optional
		Description: Free-form name				
PER03	365	Communication Number Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type of communication number Information: <i>The following Codes are used by Infor Nexus:</i>				
		Code Name				
		EM Electronic Mail				
		FX Facsimile				
		TE Telephone				
		All valid standard codes can be used.				
PER04	364	Communication Number	X	AN	1/80	GTN Optional
		Description: Complete communications number including country or area code when applicable Information: <i>Where PER03 = 'EM', this is the email address</i> <i>Where PER03 = 'FX', this is the Fax Number</i> <i>Where PER03 = 'TE', this is the Telephone Number</i>				
PER05	365	Communication Number Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type of communication number Information: <i>The following Codes are used by Infor Nexus:</i>				
		Code Name				
		EM Electronic Mail				
		FX Facsimile				
		TE Telephone				
		All valid standard codes can be used.				
PER06	364	Communication Number	X	AN	1/80	GTN Optional
		Description: Complete communications number including country or area code when applicable Information: <i>Where PER05 = 'EM', this is the email address</i> <i>Where PER05 = 'FX', this is the Fax Number</i> <i>Where PER05 = 'TE', this is the Telephone Number</i>				
PER07	365	Communication Number Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type of communication number Information: <i>The following Codes are used by Infor Nexus:</i>				
		Code Name				
		EM Electronic Mail				
		FX Facsimile				
		TE Telephone				
		All valid standard codes can be used.				

PER08

364

Communication Number

X

AN

1/80

GTN Optional

Description: Complete communications number including country or area code when applicable

Information:

Where PER07 = 'EM', this is the email address
Where PER07 = 'FX', this is the Fax Number
Where PER07 = 'TE', this is the Telephone Number

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.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 320	Repeat: >1
Optional	
Loop: SAC	Elements: N/A

Loop Path: HL - I
User Option (Usage): GTN Optional
Purpose: 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1		GTN Optional
325	CUR	Currency	O	1		GTN Optional

SAC

Service, Promotion, Allowance, or Charge Information

Pos: 320	Max: 1
Detail - Optional	
Loop: SAC	Elements: 16

Loop Path: HL - I-SAC

User Option (Usage): GTN Optional

Purpose: 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	M	ID	1/1	GTN Required

Description: Code which indicates an allowance or charge for the service specified

Information:

The following Codes are used by Infor Nexus:

Code	Name
C	Charge

All valid standard codes can be used.

SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	GTN Optional
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Description: Code identifying the service, promotion, allowance, or charge

Information:

The following Codes are used by Infor Nexus:

Code	Name
A320	Air Transportation Charge
E890	Ocean Freight
F450	Positioning at Origin
I132	Total Invoice Amount

All valid standard codes can be used.

SAC05	610	Amount	O	N2	1/15	GTN Optional
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Description: Monetary amount

Information:

IF SAC02='A320', set to <Ocean/Air Freight>
IF SAC02='E890', set to <Ocean/Air Freight>
IF SAC02='F450', set to <Origin Charge>
IF SAC02='I132', set to <Invoice>

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 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.

CUR

Currency

POS: 929

Max: 1

Detail - Optional

Loop: SAC

Elements: 21

Loop Path: HL - I-SAC
User Option (Usage): GTN Optional
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	Entity Identifier Code	M	ID	2/3	GTN Required
Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes can be used.						
CUR02	100	Currency Code	M	ID	3/3	GTN Required
Description: Code (Standard ISO) for country in whose currency the charges are specified						

Loop Vessel Identification

Repeat: >1
Optional
Loop: V1 Elements: N/A

Loop Path: HL - I

User Option (Usage): GTN Optional

Purpose: To provide vessel details and voyage number

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
360	V1	Vessel Identification	O	1		GTN Required
370	R4	Port or Terminal	O	>1		GTN Required
380	DTM	Date/Time Reference	O	>1		GTN Required

Note 1:

Purpose: To provide details of actual Milestones (type, date, time, port function, and location) that have occurred against this particular Line Item.

Note 2:

1. The Loop HL/V1 is optional. However, when present, it must contain at least 1 V1, 1 R4 and 1 DTM segment with all conditional elements.
2. More than one Milestone can be reported in a given HL/V1 Loop as long as all milestones occur at the single location indicated by the R4 segment.
3. If multiple milestones occurring at different locations must be reported for this level, then one HL/V1 Loop is required for each location.
4. For example, the following 3 milestones occurring at 2 different locations...

Pickup Requested @ Origin (DTM01=118, R401=O)

Picked Up @ Origin (DTM01=140, R401=O)

Received @ Consolidation Point (DTM01=050, R401=B)

...would be represented as...

V1**MILESTONE

R4*O*UN*MYJBH*Johor Bahru*MY

DTM*118*20070723*1230*LT

DTM*140*20070724*0900*LT

V1**MILESTONE

R4*B*UN*MYJBH*Johor Bahru*MY

DTM*050*20070724*1645*LT

V1

Vessel Identification

POS: 300

Max: 1

Detail - Optional

Loop: V1

Elements: 9

Loop Path: HL - I-V1
User Option (Usage): GTN Required
Purpose: To provide vessel details and voyage number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
V102	182	Vessel Name	X	AN	2/28	GTN Required
Description: Name of ship as documented in "Lloyd's Register of Ships"						
Information:						
For reporting Milestones occurring for this piece of Equipment, report 1 V1 loop per Port Function (ie Milestone Location).						
Report the Vessel Name as "MILESTONE" to indicate the loop contains one or more Milestones.						

Syntax Rules:

- 1. R0102 - At least one of V101 or V102 is required.
- 2. C0801 - If V108 is present, then V101 is required.

R4

Port or Terminal

Pos: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 8

Loop Path: HL - I-V1

User Option (Usage): GTN Required

Purpose: Contractual or operational port or point relevant to the movement of the cargo

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R401	115	Port or Terminal Function Code	M	ID	1/1	GTN Required

Description: Code defining function performed at the port or terminal with respect to a shipment

Information:

Depending on your customer's Milestone requirements, please work with your Infor Nexus project team to define the combination of R401 and DTM01 qualifiers to represent these Milestones. Common values are provided below, but other standard v4010 values can also be supported.

The following Codes are used by Infor Nexus:

Code	Name
B	Reconsolidation Point (Operational)
C	De-Consolidation Point (Operational)
D	Port of Discharge (Operational)
G	Port of Entry (Operational)
L	Port of Loading (Operational)
M	Destination (Operational)
N	Final Destination (Operational)
O	Origin (Operational)

All valid standard codes can be used.

R402	309	Location Qualifier	X	ID	1/2	GTN Required
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Description: Code identifying type of location

Information: SEE COMMENT 1

The following Codes are used by Infor Nexus:

Code	Name
D	Census Schedule D
K	Census Schedule K
IA	International Air Transport Association (IATA) Location Qualifier
UN	United Nations Location Code (UNLOCODE)
ZZ	Mutually Defined (SEE COMMENT 2)

All valid standard codes can be used.

R403	310	Location Identifier	X	AN	1/30	GTN Required
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Description: Code which identifies a specific location

Information:

SEE COMMENT 1

IF R401='D', set to <Discharge Port>

IF R401='M', set to <BL/AWB Dest>

IF R401='O', set to <Origin City>

IF R401='L', set to <Origin Port>

R404	114	Port Name	O	AN	2/24	GTN Required
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Description: Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property

R405	26	Country Code	O	ID	2/3	GTN Required
------	----	--------------	---	----	-----	--------------

Description: Code identifying the country

R408	156	State or Province Code	O	ID	2/2	GTN Optional
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Description: Code (Standard State/Province) as defined by appropriate government agency

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. If the segment is provided, then R401, R402, and R403 are required, as Infor Nexus requires partners to send a codified location. However, R404, R405 and R408 are also desired as alternate text to assist any support requests from customers.
2. To use Mutually Defined city codes, a full list of potential cities including the mutually defined unique codes for each city and the UNLOCODE value for that city must be provided as part of the integration setup.
3. R4 is required for each port to be identified.

DTM

Date/Time Reference

103: 300	Max: >1
Detail - Optional	
Loop: V1	Elements: 6

Loop Path: HL - I-V1

User Option (Usage): GTN Required

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	GTN Required

Description: Code specifying type of date or time, or both date and time

Information:

Depending on your customer's Milestone requirements, please work with your Infor Nexus project team to define the combination of R401 and DTM01 qualifiers to represent these Milestones. Common values are provided below, but other standard v4010 values can also be supported. There are also 3 Date reference fields available at the Equipment Level. Please work with your Infor Nexus project team to define the qualifiers for these dates.

The following Codes are used by Infor Nexus:

Code	Name
003	Invoice
011	Shipped (from Factory)
050	Received
118	Requested Pick-up
140	Actual (Pick-up)

All valid standard codes can be used.

DTM02	373	Date	X	DT	8/8	GTN Required
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Description: Date expressed as CCYYMMDD

DTM03	337	Time	X	TM	4/8	GTN Required
-------	-----	------	---	----	-----	--------------

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)

DTM04	623	Time Code	O	ID	2/2	GTN Required
-------	-----	-----------	---	----	-----	--------------

Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Information:

The following Codes are used by Infor Nexus:

Code	Name
LT	Local Time
UT	Universal Time Coordinate

All valid standard codes can be used.

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.

Comments:

1. If the segment is provided, then DTM01, DTM02, DTM03, and DTM04 are required.
2. If the Time component of the date is not tracked, then report a DTM03 value of 1200 HHMM and a DTM04 value of UT (noon GMT).

Loop Hierarchical Level - ASSORTMENT (SUBITEM)

Pos: 010	Repeat: 200000
Conditional	
Loop: HL - IA	Elements: N/A

User Option (Usage): GTN Optional

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		GTN Required
020	LIN	Item Identification	O	1		GTN Required
030	SN1	Item Detail (Shipment)	O	1		GTN Required
060	PO4	Item Physical Details	O	1		GTN Optional
080	MEA	Measurements	O	40		GTN Optional
150	REF	Reference Identification	O	>1		GTN Optional
320		Loop SAC	O		>1	GTN Optional

Comments:

1. The HL – Subline Item Level is only required when applicable for the Customer's PO data. If the PO has Color, Dimension, Size, Size Category, or other subline item information, the HL – Subline Item Level is required.

HL

Hierarchical Level

POS: 010

Max: 1

Detail - Mandatory

Loop: HL - IA Elements: 4

Loop Path: HL - IA
User Option (Usage): GTN Required
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	Hierarchical ID Number	M	AN	1/12	GTN Required
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	GTN Required
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	GTN Required
Description: Code defining the characteristic of a level in a hierarchical structure						
Code		Name				
IA		Subline Item				

Comments:

1. 1. The HL – Subline Item Level is only required when applicable for the Customer’s PO data. If the PO has Color, Dimension, Size, Size Category, or other subline item information, the HL – Subline Item Level is required.

LIN

Item Identification

POS: 020	Max: 1
Detail - Optional	
Loop: HL - IA	Elements: 31

Loop Path: HL - IA

User Option (Usage): GTN Required

Purpose: To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	Assigned Identification	O	AN	1/20	GTN Required
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	GTN Required
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes can be used.				
LIN03	234	Product/Service ID	M	AN	1/48	GTN Required
		Description: Identifying number for a product or service Information: <i>Stock Keeping Unit (SKU) If LIN02 = "SK"</i>				
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	GTN Required
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes can be used.				
LIN05	234	Product/Service ID	X	AN	1/48	GTN Required
		Description: Identifying number for a product or service Information: <i>This is U.P.C. Consumer Package Code (1-5-5-1) If LIN04 = "UP"</i>				
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes can be used.				
LIN07	234	Product/Service ID	X	AN	1/48	GTN Optional
		Description: Identifying number for a product or service Information: <i>This is Color if LIN06 = "CL"</i> <i>See also Comment 1</i>				
LIN08	235	Product/Service ID Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Information: <i><Dimension></i> All valid standard codes can be used.				
LIN09	234	Product/Service ID	X	AN	1/48	GTN Optional
		Description: Identifying number for a product or service Information: <i>This is Dimension If LIN08 = "SM"</i> <i>See also Comment 1</i>				
LIN10	235	Product/Service ID Qualifier	X	ID	2/2	GTN Optional
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Information: <i><Size></i> All valid standard codes can be used.				
LIN11	234	Product/Service ID	X	AN	1/48	GTN Optional
		Description: Identifying number for a product or service				

Information: *This is Size If LIN10 = "SZ"*

See also Comment 1

LIN12	235	Product/Service ID Qualifier	X	ID	2/2	GTN Optional
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Information:

<SizeCategory>

All valid standard codes can be used.

LIN13	234	Product/Service ID	X	AN	1/48	GTN Optional
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Description: Identifying number for a product or service

Information: *This is Buyer's Size Code If LIN12 = "IZ"*

See also Comment 1

LIN14	235	Product/Service ID Qualifier	X	ID	2/2	GTN Optional
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Information:

<Assortment Description>

All valid standard codes can be used.

LIN15	234	Product/Service ID	X	AN	1/48	GTN Optional
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Description: Identifying number for a product or service

Information: *This is Assortment Description If LIN14 = "F7"*

LIN16	235	Product/Service ID Qualifier	X	ID	2/2	GTN Optional
-------	-----	-------------------------------------	---	----	-----	--------------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Information:

<PackUnitItem/EAN>

All valid standard codes can be used.

LIN17	234	Product/Service ID	X	AN	1/48	GTN Optional
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Description: Identifying number for a product or service

Information: *This is PackUnitItem/EAN If LIN16 = "EN"*

See also Comment 1

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.

Comments:

1. Color, Dimension, Size, Buyer Size Code, and EAN are required when and how they are present in the Buyer's Purchase Order.

SN1

Item Detail (Shipment)

POS: 030

Max: 1

Detail - Optional

Loop: HL - IA

Elements: 8

Loop Path: HL - IA
User Option (Usage): GTN Required
Purpose: To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN101	350	Assigned Identification	O	AN	1/20	GTN Required
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SN102	382	Number of Units Shipped	M	R	1/10	GTN Required
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set				
		Information:				
		Qty of Assortment Item Shipped <AssortmentQuantity>				
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	GTN Required
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Information:				
		REFER TO APPENDIX A2 FOR INFOR NEXUS SUPPORTED CODES				
		All valid standard codes can be used.				

Semantics:

- 1. SN101 is the ship notice line-item identification.

Comments:

- 1. SN103 defines the unit of measurement for both SN102 and SN104.

PO4

Item Physical Details

P03: 000	Max: 1
Detail - Optional	
Loop: HL - IA	Elements: 18

Loop Path: HL - IA**User Option (Usage):** GTN Optional**Purpose:** To specify the physical qualities, packaging, weights, and dimensions relating to the item**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	Pack	O	N0	1/6	GTN Required
Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container Information: <i>Assortment Master Pack Quantity <AssortmentMasterPackQuantity></i>						
PO402	357	Size	X	R	1/8	GTN Optional
Description: Size of supplier units in pack						
PO403	355	Unit or Basis for Measurement Code	X	ID	2/2	GTN Optional
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Information: <i>REFER TO APPENDIX A2 FOR INFOR NEXUS SUPPORTED CODES</i> All valid standard codes can be used.						
PO414	810	Inner Pack	O	N0	1/6	GTN Required
Description: The number of eaches per inner container Information: <i>Assortment Inner Pack Quantity <AssortmentInnerPackQuantity></i>						
PO416	350	Assigned Identification	X	AN	1/20	GTN Optional
Description: Alphanumeric characters assigned for differentiation within a transaction set Information: <i>Lower Value of Assortment Carton Range <CartonRange></i>						
PO417	350	Assigned Identification	O	AN	1/20	GTN Optional
Description: Alphanumeric characters assigned for differentiation within a transaction set Information: <i>Upper Value of Assortment Carton Range <CartonRange></i>						

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C1716 - If PO417 is present, then PO416 is required.

MEA

Measurements

POS: 000	Max: 40
Detail - Optional	
Loop: HL - IA	Elements: 10

Loop Path: HL - IA

User Option (Usage): GTN Optional

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	Measurement Reference ID Code	O	ID	2/2	GTN Optional
Description: Code identifying the broad category to which a measurement applies						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
CT Counts						
PD Physical Dimensions						
WT Weights						
All valid standard codes can be used.						
MEA02	738	Measurement Qualifier	O	ID	1/3	GTN Optional
Description: Code identifying a specific product or process characteristic to which a measurement applies						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
B Billed Weight						
G Gross Weight						
SQ Shipped Quantity						
VOL Volume						
IF MEA01= 'CT', set to 'SQ'						
IF MEA01= 'PD', set to 'VOL'						
IF MEA01= 'WT', set to 'G'						
All valid standard codes can be used.						
MEA03	739	Measurement Value	X	R	1/20	GTN Optional
Description: The value of the measurement						
Information:						
IF MEA01= 'CT', set to Assortment Carton Count <Assortment Carton Count>						
IF MEA01= 'PD', set to Total Assortment Volume <Total Assortment Volume>						
IF MEA01= 'WT', set to Total Assortment Weight <Total Assortment Weight>						
MEA04	C001	Composite Unit of Measure	X	Comp		GTN Optional
Description: To identify a composite unit of measure(See Figures Appendix for examples of use)						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	GTN Required
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
CF Cubic Feet						
CR Cubic Meter						
CT Carton						
KG Kilogram						
LB Pound						
MP Metric Ton						
PK Package						
TG Gross Ton						
IF MEA01= 'CT', set to 'PK' or 'CT'						
IF MEA01= 'PD', set to 'CF' or 'CR'						

IF MEA01= 'WT', set to 'KG', 'LB', 'TG' or 'MP'

All valid standard codes can be used.

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Note 1:

If MEA01 = CT, then MEA02=SQ and MEA04 = carton unit (PK or CT).

If MEA01 = PD, then MEA02 = VOL and MEA04 = CF or CR.

If MEA01 = WT, then MEA02 = G and MEA04 = KG or LB or TG or MP.

REF

Reference Identification

POS: 130

Max: >1

Detail - Optional

Loop: HL - IA Elements: 4

Loop Path: HL - IA
User Option (Usage): GTN Optional
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	GTN Required
Description: Code qualifying the Reference Identification						
Information:						
<i>**There are reference fields available at the assortment level. All Qualifiers can be used to pass customer specific data at the assortment level. Infor Nexus PSO will work with you to configure these qualifiers based on the customers data requirements</i>						
All valid standard codes can be used.						
REF02	127	Reference Identification	X	AN	1/30	GTN Required
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

Syntax Rules:

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

Loop Service, Promotion, Allowance, or Charge Information

Pos: 320	Repeat: >1
Optional	
Loop: SAC	Elements: N/A

Loop Path: HL - IA
User Option (Usage): GTN Optional
Purpose: 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1		GTN Optional
325	CUR	Currency	O	1		GTN Optional

SAC

Service, Promotion, Allowance, or Charge Information

Pos: 320	Max: 1
Detail - Optional	
Loop: SAC	Elements: 16

Loop Path: HL - IA-SAC

User Option (Usage): GTN Optional

Purpose: 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	M	ID	1/1	GTN Required
Description: Code which indicates an allowance or charge for the service specified						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
C Charge						
All valid standard codes can be used.						
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	GTN Optional
Description: Code identifying the service, promotion, allowance, or charge						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
A520 Base Charge						
All valid standard codes can be used.						
SAC05	610	Amount	O	N2	1/15	GTN Optional
Description: Monetary amount						
Information:						
IF SAC02='A520', set to Assortment First Cost Price <Assortment First Cost Price>						

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 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.

CUR

Currency

Loop: SAC

Max: 1

Detail - Optional

Elements: 21

Loop Path: HL - IA-SAC
User Option (Usage): GTN Optional
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	Entity Identifier Code	M	ID	2/3	GTN Required
Description: Code identifying an organizational entity, a physical location, property or an individual						
Information:						
<i>The following Codes are used by Infor Nexus:</i>						
<i>Code Name</i>						
<i>BB Business Partner</i>						
All valid standard codes can be used.						
CUR02	100	Currency Code	M	ID	3/3	GTN Required
Description: Code (Standard ISO) for country in whose currency the charges are specified						

Loop Hierarchical Level - PACK

Repeat: 200000
Conditional
Loop: HL - P Elements: N/A

User Option (Usage): GTN Optional

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

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	HL	Hierarchical Level	M	1		GTN Required
030	SN1	Item Detail (Shipment)	O	1		GTN Required
060	PO4	Item Physical Details	O	1		GTN Required
080	MEA	Measurements	O	40		GTN Required
150	REF	Reference Identification	O	>1		GTN Optional
190	MAN	Marks and Numbers	O	>1		GTN Required

Comments:

1. The HL – Pack Detail Level is optional and only expected when required per mutual agreement with the Customer.

HL

Hierarchical Level

POS: 010

Max: 1

Detail - Mandatory

Loop: HL - P Elements: 4

Loop Path: HL - P
User Option (Usage): GTN Required
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	Hierarchical ID Number	M	AN	1/12	GTN Required
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	GTN Required
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	GTN Required
Description: Code defining the characteristic of a level in a hierarchical structure						
Code		Name				
P		Pack				

Comments:
1. The HL – Pack Detail Level is optional and only expected when required per mutual agreement with the Customer.

Note 1:
Purpose: This loop represents a set (1 or more) of Packs (ie Cartons or other type of Pack) which have a similar pack configurations (ie carton dimensions, weight, pack qty) and relative quantity of the parent Item/Assortment packed inside. Each individual Pack is identified by the Identifier(s) found in the MAN segment, where each MAN represents a single pack

SN1

Item Detail (Shipment)

POS: 030

Max: 1

Detail - Optional

Loop: HL - P

Elements: 8

Loop Path: HL - P
User Option (Usage): GTN Required
Purpose: To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN101	350	Assigned Identification	O	AN	1/20	GTN Optional
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SN102	382	Number of Units Shipped	M	R	1/10	GTN Required
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set				
		Information:				
		Number of Items or Assortment Items in a Pack <PackUnitItemQuantity>				
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	GTN Required
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Information:				
		REFER TO APPENDIX A2 FOR INFOR NEXUS SUPPORTED CODES				
		All valid standard codes can be used.				

Semantics:

- 1. SN101 is the ship notice line-item identification.

Comments:

- 1. SN103 defines the unit of measurement for both SN102 and SN104.

PO4

Item Physical Details

POS: 000	Max: 1
Detail - Optional	
Loop: HL - P	Elements: 18

Loop Path: HL - P

User Option (Usage): GTN Required

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage						
PO404	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required Information: <i>The following Codes are used by Infor Nexus:</i> <table><tr><td>Code</td><td>Name</td></tr><tr><td>CTN</td><td>Carton</td></tr></table> All valid standard codes can be used.	Code	Name	CTN	Carton	X	AN	3/5	GTN Required		
Code	Name											
CTN	Carton											
PO405	187	Weight Qualifier Description: Code defining the type of weight Information: <i>The following Codes are used by Infor Nexus:</i> <table><tr><td>Code</td><td>Name</td></tr><tr><td>G</td><td>Gross Weight</td></tr></table> All valid standard codes can be used.	Code	Name	G	Gross Weight	O	ID	1/2	GTN Required		
Code	Name											
G	Gross Weight											
PO406	384	Gross Weight per Pack Description: Numeric value of gross weight per pack Information: <i>Gross Weight per pack <PackUnitHeaderWeight></i>	X	R	1/9	GTN Required						
PO407	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 Information: <i>The following Codes are used by Infor Nexus:</i> <table><tr><td>Code</td><td>Name</td></tr><tr><td>KG</td><td>Kilogram <PackUnitHeaderWeightUnit></td></tr><tr><td>LB</td><td>Pound <PackUnitHeaderWeightUnit></td></tr></table> All valid standard codes can be used.	Code	Name	KG	Kilogram <PackUnitHeaderWeightUnit>	LB	Pound <PackUnitHeaderWeightUnit>	X	ID	2/2	GTN Required
Code	Name											
KG	Kilogram <PackUnitHeaderWeightUnit>											
LB	Pound <PackUnitHeaderWeightUnit>											
PO408	385	Gross Volume per Pack Description: Numeric value of gross volume per pack Information: <i>Gross Volume per pack </PackUnitList/PackUnit/PackUnitHeader/Volume></i>	X	R	1/9	GTN Required						
PO409	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 Information: <i>The following Codes are used by Infor Nexus:</i> <table><tr><td>Code</td><td>Name</td></tr><tr><td>CF</td><td>Cubic Feet </PackUnitList/PackUnit/PackUnitHeader/Volume/@Unit></td></tr><tr><td>CR</td><td>Cubic Meter </PackUnitList/PackUnit/PackUnitHeader/Volume/@Unit></td></tr></table> All valid standard codes can be used.	Code	Name	CF	Cubic Feet </PackUnitList/PackUnit/PackUnitHeader/Volume/@Unit>	CR	Cubic Meter </PackUnitList/PackUnit/PackUnitHeader/Volume/@Unit>	X	ID	2/2	GTN Required
Code	Name											
CF	Cubic Feet </PackUnitList/PackUnit/PackUnitHeader/Volume/@Unit>											
CR	Cubic Meter </PackUnitList/PackUnit/PackUnitHeader/Volume/@Unit>											
PO410	82	Length Description: Largest horizontal dimension of an object measured when the object is in the upright position Information: <i>Carton Length <DimensionInfoLength></i>	X	R	1/8	GTN Required						
PO411	189	Width	X	R	1/8	GTN Required						

Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position

Information:

Carton Width <DimensionInfoWidth>

PO412	65	Height	X	R	1/8	GTN Required
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Description: Vertical dimension of an object measured when the object is in the upright position

Information:

Carton Height <DimensionInfoHeight>

PO413	355	Unit or Basis for Measurement Code	X	ID	2/2	GTN Required
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Information:

The following Codes are used by Infor Nexus:

Code Name

IN Inch <DimensionUnit>

All valid standard codes can be used.

PO414	810	Inner Pack	O	NO	1/6	GTN Required
-------	-----	-------------------	---	----	-----	--------------

Description: The number of eaches per inner container

Information:

The Total Piece count in this Carton <PackUnitHeaderQuantity>

PO418	1470	Number	O	NO	1/9	GTN Required
-------	------	---------------	---	----	-----	--------------

Description: A generic number

Information:

<Mixed Pack Unit> - Boolean – Used to indicate carton has multiple items

0 = No

1 = Yes

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

MEA

Measurements

POS: 000	Max: 40
Detail - Optional	
Loop: HL - P	Elements: 10

Loop Path: HL - P

User Option (Usage): GTN Required

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	Measurement Reference ID Code	O	ID	2/2	GTN Optional
Description: Code identifying the broad category to which a measurement applies						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
PD Physical Dimensions						
WT Weights						
All valid standard codes can be used.						
MEA02	738	Measurement Qualifier	O	ID	1/3	GTN Optional
Description: Code identifying a specific product or process characteristic to which a measurement applies						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
B Billed Weight						
G Gross Weight						
N Actual Net Weight						
VOL Volume						
IF MEA01= 'PD', set to 'VOL'						
IF MEA01= 'WT', set to 'G' or 'N' 'B' (Gross or Net or NetNet)						
All valid standard codes can be used.						
MEA03	739	Measurement Value	X	R	1/20	GTN Optional
Description: The value of the measurement						
Information:						
IF MEA01= 'PD', set to Total Volume for Item in Pack <PackUnitItemList/PackUnitItem/Volume>						
IF MEA01= 'WT', set to Total Weight or Net Weight or NetNet Weight for Item in Pack						
<PackUnitItemList/PackUnitItem/Weight> (Gross Weight) / <PackUnitItemList/PackUnitItem/NetWeight> (Net Weight) /						
<PackUnitItemList/PackUnitItem/NetNetWeight> (NetNet Weight)						
MEA04	C001	Composite Unit of Measure	X	Comp		GTN Optional
Description: To identify a composite unit of measure(See Figures Appendix for examples of use)						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	GTN Required
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
Information:						
The following Codes are used by Infor Nexus:						
Code Name						
CF Cubic Feet						
CR Cubic Meter						
KG Kilogram						
LB Pound						
MP Metric Ton						
TG Gross Ton						
IF MEA01= 'PD', set to 'CF' or 'CR'						
IF MEA01= 'WT', set to 'KG', 'LB', 'TG' or 'MP'						
All valid standard codes can be used.						

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Note 1:

If MEA01 = PD, then MEA02 = VOL and MEA04 = CF or CR.

If MEA01 = WT, then MEA02 = G, N, or B and MEA04 = KG or LB or TG or MP.

REF

Reference Identification

POS: 130

Max: >1

Detail - Optional

Loop: HL - P

Elements: 4

Loop Path: HL - P
User Option (Usage): GTN Optional
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
REF01	128	Reference Identification Qualifier	M	ID	2/3	GTN Required				
Description: Code qualifying the Reference Identification Information: <i>**There are reference fields available at the pack level. All Qualifiers can be used to pass customer specific data at the pack level. Infor Nexus PSO will work with you to configure these qualifiers based on the customers data requirements</i> <i>The following Codes are used by Infor Nexus:</i> <table><tr><td>Code</td><td>Name</td></tr><tr><td>LT</td><td>Lot Number GTN Opt.</td></tr></table> <i>The following qualifiers are available on the Outbound 856 from Infor Nexus</i> <i>Only: Y6 Sort and Segregate GTN Opt.</i> All valid standard codes can be used.							Code	Name	LT	Lot Number GTN Opt.
Code	Name									
LT	Lot Number GTN Opt.									
REF02	127	Reference Identification	X	AN	1/30	GTN Optional				
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Information: <i>IF REF01= 'LT', set to <LOTNumber></i> <i>The following elements are available on the Outbound 856 from Infor Nexus</i> <i>Only: IF REF01= 'Y6', set to <SortCode></i>										

Syntax Rules:

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

MAN

Marks and Numbers

P03: 130	Max: >1
Detail - Optional	
Loop: HL - P	Elements: 6

Loop Path: HL - P

User Option (Usage): GTN Required

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	GTN Required				
Description: Code specifying the application or source of Marks and Numbers (87)										
Information:										
The following Codes are used by Infor Nexus:										
<table><tr><td>Code</td><td>Name</td></tr><tr><td>AI</td><td>UCC/EAN-128 Application Identifier (AI) and Data</td></tr></table>							Code	Name	AI	UCC/EAN-128 Application Identifier (AI) and Data
Code	Name									
AI	UCC/EAN-128 Application Identifier (AI) and Data									
All valid standard codes can be used.										
MAN02	87	Marks and Numbers	M	AN	1/48	GTN Required				
Description: Marks and numbers used to identify a shipment or parts of a shipment										
Information:										
License Plate Number of Pack Unit, typically the Carton ID. <LPN>										
MAN04	88	Marks and Numbers Qualifier	X	ID	1/2	GTN Optional				
Description: Code specifying the application or source of Marks and Numbers (87)										
Information:										
The following Codes are used by Infor Nexus:										
<table><tr><td>Code</td><td>Name</td></tr><tr><td>W</td><td>Pallet Number</td></tr></table>							Code	Name	W	Pallet Number
Code	Name									
W	Pallet Number									
All valid standard codes can be used.										
MAN05	87	Marks and Numbers	X	AN	1/48	GTN Optional				
Description: Marks and numbers used to identify a shipment or parts of a shipment										
Information:										
Pallet ID <PalletID>										

Syntax Rules:

1. P0405 - If either MAN04 or MAN05 is present, then the other is required.
2. C0605 - If MAN06 is present, then MAN05 is required.

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

CTT

Transaction Totals

POS: 010

Max: 1

Summary - Optional

Loop: N/A

Elements: 7

User Option (Usage): GTN Optional
Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	Number of Line Items	M	NO	1/6	GTN Required

Description: Total number of line items in the transaction set

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): GTN Required
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)

Element Summary:

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

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): GTN Required
Purpose: To indicate the end of a functional group and to provide control information

Element Summary:

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

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): GTN Required
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	Number of Included Functional Groups	M	NO	1/5	GTN Required
Description: A count of the number of functional groups included in an interchange						
IEA02	I12	Interchange Control Number	M	NO	9/9	GTN Required
Description: A control number assigned by the interchange sender						

Appendix A:

A1. ISO Equipment Type Codes

CODE	DESCRIPTION
0000	Unspecified
2203	20 ' Standard GOH
2278	20 ' Tank
22B0	20 Foot Bulk
22BK	20 ' Bulk Pressurized
22BU	20 ' Bulk Non-pressurized
22G0	20 Foot General Purpose
22H0	20 Foot Insulated
22HR	20 ' Non Operating Reefer
22P1	20 Foot Flat Rack
22P3	20 Foot Collapsible Flat Rack
22PC	20 ' Flat Rack Collapsible
22R0	20 ' Standard Dry
22R1	20 Foot Reefer
22RD	20 ' Dual Reefer
22RE	20 ' Reefer
22T0	20 Foot Tank
22TD	20 ' Isotank Dangerous Liquid
22TG	20 ' Isotank Gas

22U1	20 Foot Open Top
22U6	20 ' Open Side Open Top
22UT	20 ' Open Top
22VH	20 ' Vented
25GP	20 ' High Cube Dry
26P3	20 ' Flat Rack/Platform
29P0	20 Foot Platform
29P0	20 ' Artificial Tweendeck
42BU	40 ' Bulk Non-pressurized
42G0	40 Foot General Purpose
42HR	40 ' Non Operating Reefer
42P1	40 Foot Flat Rack
42P3	40 Foot Collapsible Flat Rack
42PC	40 ' Flat Rack Collapsible
42R1	40 Foot Reefer
42T0	40 Foot Tank
42U1	40 Foot Open Top
42U6	40 ' Open Side Open Top
42UT	40 ' Open Top
42VH	40 ' Vented
4307	40 ' Standard GOH
4332	40 ' Reefer
44G0	40 ' Standard Dry
4507	40 ' High Cube GOH
45G0	40 Foot High Cube
45GP	40 ' High Cube Dry
45R1	40 Foot High Cube Reefer
45RE	40 ' High Cube Reefer
46P3	40 ' Flat Rack/Platform
49P0	40 Foot Platform
49P0	40 ' Artificial Tweendeck
4F06	40 ' Expandable Flatbed

4F09	40' Flatbed
4T01	40' Tank Trailer
4T04	40' Tank
9403	45' High Cube GOH
9511	45' Standard GOH
9F18	45' Expandable Flatbed
9F25	45' Flatbed
9V05	45' Insulated Trailer
9V13	45' Trailer
BBOS	Oversized Break Bulk
L2GP	45' Standard Dry
L5G1	45 Foot High Cube
L5GP	45' High Cube Dry
L5HR	45' High Cube Non Operating Reefer
L5HR	40' High Cube Non Operating Reefer
L5R1	45 Foot High Cube Reefer
L5RE	45' Reefer
LF60	45' Low Boy Flatbed
LS40	40' Low Boy Flatbed
M2G4	48' Trailer
M2GP	48' Standard Dry
M5GH	48' High Cube GOH
M5GP	48' High Cube Dry
P2G4	53' Trailer
P2GP	53' Standard Dry
P5GP	53' High Cube Dry
ROOS	Oversized Roll-on Roll-off
00B0	Bulk
TRTK	Tank Trailer
TRFB	Flat Bed Trailer
TROT	Open Top Trailer
TRRF	Refrigerated

F2A0 27' Trailer

A2. Unit of Measure Codes

CODE	DESCRIPTION
-------------	--------------------

EA	Each
----	------

PR	Pair
----	------

PC	Piece
----	-------

BX	Box
----	-----

BR	Barrel
----	--------

BG	Bag
----	-----

DZ	Dozen
----	-------

CT	Carton
----	--------

CA	Case
----	------

ST	Set
----	-----

UN	Unit
----	------

V1	Vial
----	------

BO	Bottle
----	--------

TH	Thousand
----	----------

PK	Package
----	---------

U2	Tablet
----	--------

DR	Drum
----	------

CS	Cassette
----	----------

CP	Crate
----	-------

CL	Cylinder
----	----------

HU	Hundred
----	---------

JR	Jar
----	-----

KT	Kit
----	-----

LO	Lot
----	-----

PL	Pallets
----	---------

AS	Assortment
----	------------

RO	Roll
----	------

BA Bale
BD Bundle

Appendix B:

Common Scenarios and Sample Files

B1. Sample File for Ocean FCL Scenario

This sample EDI file represents a FCL shipment with the following structure:

```
Shipment 1 (511803240)
  Container 1 (TRLU9055505)
    Order 1 (PP20937200)
      Item 1 (498K15601) from Commercial Invoice 1
      Item 2 (8097803272) from Commercial Invoice 1
    Order 2 (PP208654785)
      Item 1 (J8023K927) from Commercial Invoice 2
      Item 2 (876234587) from Commercial Invoice 2
  Container 2 (TRLU8794563)
    Order 3 (KK7093980)
      Item 1 (782073019) from Commercial Invoice 3
      Item 2 (546123078) from Commercial Invoice 3
    Order 4 (UU7896547)
      Item 1 (782073019) from Commercial Invoice 4
      Item 2 (546123078) from Commercial Invoice 4
```

```
ISA*00*          *00*          *ZZ*STDSP2FW      *ZZ*GTNEXUS      *080314*1236*U*00401*000001674*0*T*>
GS*SH*STDSP2FW*STDCERTSH*20080314*1236*1674*X*004010
ST*856*0001
BSN*00*511803240*20080314*2006**AS
HL*1**S
TD5**2*HLCU*S*AW
REF*ZZ*STDCERTSH
N1*FW*FWNAME*ZZ*FWCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*FORWARDERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*CB*Customs Broker Name*ZZ*Customs Broker Code
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*BROKERSCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*CA*Carrier Name*ZZ*Carrier Code
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*STUFFINGLOCCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*SH*SHIPPERNAME*ZZ*SHIPPERCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SHIPPERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*CN*CONSIGNEENAME*ZZ*CONSIGNEECODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*CONSIGNEECITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*CS*Consolidator Name*ZZ*Consolidator Code
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*CONSOLIDATORCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
SAC*C*F450***20000
CUR*BB*USD
V1**NYK ATHENA**00040
R4*O*UN*MYPGU*PASIRGUDANG-JOHOR*MY
```

R4*L*UN*SGSIN*SINGAPORE*SG
 R4*D*UN*USLAX*LOSANGELES*US
 R4*M*UN*USLAX*LOSANGELES*US
 DTM*369*20070810*1213
 DTM*161*20070810*0900
 DTM*370*20070810*1245
 DTM*371*20070825*2234
 DTM*017*20080829*2242
 HL*2*1*E
 TDJ*PCS*85****G*100.105*KG*20.826*CR
 TD3**TRLU*9055505*****HLA0869820*44G0
 TD4*CF
 REF*CB*CY/CY
 REF*CT*UTI1234
 REF*KK*Live
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*L*UN*SGSIN*SINGAPORE*SG
 DTM*035*20070808*0700*LT
 HL*3*2*O
 PRF*PP20937200
 REF*19*DIVISIONCODE
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*003*20070726*0900*LT
 HL*4*3*I
 LIN*1*IN*498K15601*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*CN*HLCUPGU070850318
 REF*BM*HLCUPGU070850319
 N1*SU*CUSTOMER SHIP TO LOCATION*ZZ*SHIPTOCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 N1*SU*SUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*5*3*I
 LIN*1*IN*8097803272*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG

REF*4H*COMMERCIALINVOICE1
REF*BM*HLCUPGU070850319
N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
SAC*C*F450***20000
CUR*BB*USD
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*118*20070723*1230*LT
DTM*140*20070724*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070724*1645*LT
HL*6*2*O
PRF*PP208654785
REF*19*UNKNOWN
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*003*20070726*0900*LT
HL*7*6*I
LIN*1*IN*J8023K927*LS*1*PL*1
SN1**5*PC
PO4*2*1*PC*****23**2*4
PID*F***DESCRIPTION
MEA*CT*SQ*24*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*4H*COMMERCIALINVOICE2
REF*BM*HLCUPGU070850319
N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
SAC*C*F450***20000
CUR*BB*USD
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*118*20070723*1230*LT
DTM*140*20070724*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070724*1645*LT
HL*8*6*I
LIN*1*IN*876234587*LS*1*PL*1
SN1**8*PC
PO4*2*1*PC*****23**2*4
PID*F***DESCRIPTION
MEA*CT*SQ*24*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*4H*COMMERCIALINVOICE2
REF*BM*HLCUPGU070850319
N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
SAC*C*F450***20000
CUR*BB*USD
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY

DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*9*1*E
 TD1*CTN*85****N*100.105*KG*20.826*CR
 TD3**TRLU*8794563*****HLA0869820*44G0
 TD4*CF
 REF*CB*CY/CY
 REF*CT*UTI1234
 V1**UNKNOWN
 R4*L*UN*SGSIN*SINGAPORE*SG
 DTM*035*20070808*0700*LT
 HL*10*9*O
 PRF*KK7093980
 REF*19*UNKNOWN
 REF*19*COMMERCIALINVOICE3
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*003*20070726*0900*LT
 HL*11*10*I
 LIN*1*IN*782073019*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F***DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*809224635
 REF*BM*HLCUPGU070850319
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*12*10*I
 LIN*1*IN*546123078*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F***DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*BM*HLCUPGU070850319
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT

DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*13*9*O
 PRF*UU7896547
 REF*19*UNKNOWN
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*003*20070726*0900*LT
 HL*14*13*I
 LIN*1*IN*782073019*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE4
 REF*BM*HLCUPGU070850319
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*15*13*I
 LIN*1*IN*546123078*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE4
 REF*BM*HLCUPGU070850319
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 SE*270*0001
 GE*I*1674
 IEA*1*000001674

B2. Sample File for Ocean Consolidated LCL-to-FCL Scenario

This sample EDI file represents a Consolidated LCL->FCL shipment with the following structure:

Shipment 1 (511803240)

Container 1 (TRLU9055505)

Order 1 (PP20937200)

Item 1 (498K15601) from Commercial Invoice 1 from Supplier 1

Item 2 (8097803272) from Commercial Invoice 1 from Supplier 1

Order 2 (PP208654785)

Item 1 (J8023K927) from Commercial Invoice 2 from Supplier 2

Item 2 (876234587) from Commercial Invoice 2 from Supplier 2

```

ISA*00*          *00*          *ZZ*STDSP2FW          *ZZ*GTNEXUS          *080314*1236*U*00401*000001674*0*T*>
GS*SH*STDSP2FW*STDCERTSH*20080314*1236*1674*X*004010
ST*856*0001
BSN*00*511803240*20080314*2006**AS
HL*1**S
TD5**2*HLCU*S*AW
REF*ZZ*STDCERTSH
N1*FW*FWNAME*ZZ*FWCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*FORWARDERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*CB*Customs Broker Name*ZZ*Customs Broker Code
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*BROKERSCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*CA*Carrier Name*ZZ*Carrier Code
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*STUFFINGLOCCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*SH*SHIPPERNAME*ZZ*SHIPPERCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SHIPPERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*CN*CONSIGNEENAME*ZZ*CONSIGNEECODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*CONSIGNEECITYNAME*ST*POSTALCODE*CC*UN*UNLOC
N1*CS*Consolidator Name*ZZ*Consolidator Code
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*CONSOLIDATORCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
SAC*C*F450***40000
CUR*BB*USD
V1**NYK ATHENA**00040
R4*O*UN*MYPGU*PASIRGUDANG-JOHOR*MY
R4*L*UN*SGSIN*SINGAPORE*SG
R4*D*UN*USLAX*LOSANGELES*US
R4*M*UN*USLAX*LOSANGELES*US
DTM*369*20070810*1213
DTM*161*20070810*0900
DTM*370*20070810*1245
DTM*371*20070825*2234
DTM*017*20080829*2242
HL*2*1*E
TD1*PCS*85****G*100.105*KG*20.826*CR
TD3**TRLU*9055505*****HLA0869820*44G0
TD4*LN
REF*CB*CFS/CY
REF*CT*UTI1234
REF*KK*Drop
SAC*C*F450***40000
CUR*BB*USD
V1**MILESTONE
R4*B*UN*SGSIN*SINGAPORE*SG
DTM*035*20070807*1200*LT
V1**MILESTONE

```

R4*L*UN*SGSIN*SINGAPORE*SG
 DTM*035*20070808*0700*LT
 HL*3*2*O
 PRF*PP20937200
 REF*19*DIVISIONCODE
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*003*20070726*0900*LT
 HL*4*3*I
 LIN*1*IN*498K15601*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F*****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*CN*HLCUPGU070850318
 REF*BM*HLCUPGU070850319
 N1*SUCUSTOMER SHIP TO LOCATION*ZZ*SHIPTOCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SHIPTOCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gtnexus.com*FX*555-1212*TE*555-1212
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE1
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gtnexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***10000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070726*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070727*1645*LT
 HL*5*3*I
 LIN*1*IN*8097803272*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F*****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*BM*HLCUPGU070850319
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE1
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gtnexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***10000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070726*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070727*1645*LT
 HL*6*2*O
 PRF*PP208654785
 REF*19*UNKNOWN

```

V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*003*20070726*0900*LT
HL*7*6*I
LIN*1*IN*J8023K927*LS*1*PL*1
SN1**5*PC
PO4*2*1*PC*****23**2*4
PID*F****DESCRIPTION
MEA*CT*SQ*24*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*4H*COMMERCIALINVOICE2
REF*BM*HLCUPGU070850319
N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE2
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
SAC*C*F450***10000
CUR*BB*USD
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*118*20070722*1230*LT
DTM*140*20070725*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070727*1645*LT
HL*8*6*I
LIN*1*IN*876234587*LS*1*PL*1
SN1**8*PC
PO4*2*1*PC*****23**2*4
PID*F****DESCRIPTION
MEA*CT*SQ*24*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*4H*COMMERCIALINVOICE2
REF*BM*HLCUPGU070850319
N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE2
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
SAC*C*A320***10000
CUR*BB*USD
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*118*20070722*1230*LT
DTM*140*20070725*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070727*1645*LT
SE*160*0001
GE*I*1674
IEA*1*000001674

```

B3. Sample File for Ocean True LCL via NVOCC Scenario

This sample EDI file represents a Consolidated LCL->FCL shipment with the following structure:

Shipment 1 (511803240)

Container 1 (TRLU9055505)

Order 1 (PP20937200)

Item 1 (498K15601) from Commercial Invoice 1 from Supplier 1

Item 2 (8097803272) from Commercial Invoice 1 from Supplier 1

ISA*00* *00* *ZZ*STDSP2FW *ZZ*GTNEXUS *080314*1236*U*00401*000001674*0*T*>
 GS*SH*STDSP2FW*STDCERTSH*20080314*1236*1674*X*004010
 ST*856*0001
 BSN*00*511803240*20080314*2006**AS
 HL*1**S
 TD5**2*CEVV*S*AW
 REF*ZZ*STDCERTSH
 N1*FW*FWNAME*ZZ*FWCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*FORWARDERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CB*Customs Broker Name*ZZ*Customs Broker Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*BROKERSCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CA*Carrier Name*ZZ*Carrier Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*STUFFINGLOCCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*SH*SHIPPERNAME*ZZ*SHIPPERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SHIPPERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CN*CONSIGNEENAME*ZZ*CONSIGNEECODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*CONSIGNEECITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CS*Consolidator Name*ZZ*Consolidator Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*CONSOLIDATORCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 SAC*C*F450***40000
 CUR*BB*USD
 V1**NYK ATHENA**00040
 R4*O*UN*MYPGU*PASIRGUDANG-JOHOR*MY
 R4*L*UN*SGSIN*SINGAPORE*SG
 R4*D*UN*USLAX*LOSANGELES*US
 R4*M*UN*USLAX*LOSANGELES*US
 DTM*369*20070810*1213
 DTM*161*20070810*0900
 DTM*370*20070810*1245
 DTM*371*20070825*2234
 DTM*017*20080829*2242
 HL*2*1*E
 TD1*PCS*85****G*100.105*KG*20.826*CR
 TD3**TRLU*9055505*****CVV0869820*44G0
 TD4*LN
 REF*CB*CFS/CFS
 REF*CT*CVV12345
 REF*KK*Live
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*B*UN*SGSIN*SINGAPORE*SG
 DTM*035*20070807*1200*LT
 V1**MILESTONE
 R4*L*UN*SGSIN*SINGAPORE*SG
 DTM*035*20070808*0700*LT
 HL*3*2*O
 PRF*PP20937200
 REF*19*DIVISIONCODE
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*003*20070726*0900*LT
 HL*4*3*I
 LIN*1*IN*498K15601*LS*1*PL*1

```

SN1**5*PC
PO4*2*1*PC*****23**2*4
PID*F*****DESCRIPTION
MEA*CT*SQ*24*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*4H*COMMERCIALINVOICE1
REF*CN*CEVV511803240
REF*BM*CEVV511803240D
N1*SU*CUSTOMER SHIP TO LOCATION*ZZ*SHIPTOCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SHIPTOCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
N1*SU*SUPPLIERNAME*ZZ*SUPPLIERCODE1
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
SAC*C*F450***10000
CUR*BB*USD
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*118*20070723*1230*LT
DTM*140*20070726*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070727*1645*LT
HL*5*3*I
LIN*1*IN*8097803272*LS*1*PL*1
SN1**5*PC
PO4*2*1*PC*****23**2*4
PID*F*****DESCRIPTION
MEA*CT*SQ*24*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*4H*COMMERCIALINVOICE1
REF*CN*CEVV511803240
REF*BM*CEVV511803240D
N1*SU*SUPPLIERNAME*ZZ*SUPPLIERCODE1
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
SAC*C*F450***10000
CUR*BB*USD
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*118*20070723*1230*LT
DTM*140*20070726*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070727*1645*LT
SE*109*0001
GE*1*1674
IEA*1*000001674

```

B4. Sample File for Air Scenario

This sample EDI file represents an Air shipment with the following structure:

```

Shipment 1 (1AQ911A)
    Equipment 1 (9887631111)
        Order 1 (1040750-1)

```

Item 1 (045K09590) from Commercial Invoice 1 (207318)

Item 2 (604K42380) from Commercial Invoice 1 (207317)

ISA*00* *00* *ZZ*STDSP5AC *ZZ*GTNEXUS *080314*1236*U*00401*000001674*0*T*>
 GS*SH*STDSP5AC*STDCERTSH*20080314*1236*1674*X*004010
 ST*856*0001
 BSN*00*1AQ911A*20080314*2006**AS
 HL*1**S
 TD5**2*UNPC*A*AW
 REF*ZZ*STDCERTSH
 N1*FW*FWNAME*ZZ*FWCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*FORWARDERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 N1*CB*Customs Broker Name*ZZ*Customs Broker Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*BROKERSCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 N1*SH*SHIPPERNAME*ZZ*SHIPPERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SHIPPERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CN*CONSIGNEENAME*ZZ*CONSIGNEECODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*CONSIGNEECITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*A320***20000
 CUR*ZZ*USD
 V1**UNITED AIRLINES**UA909
 R4*O*UN*USNYC*NEWYORK*US
 R4*L*UN*USLGA*LAGUARDIA*US
 R4*D*UN*NLAMS*AMSTERDAM*NL
 R4*M*UN*NLAMS*AMSTERDAM*NL
 DTM*369*20080910*1213
 DTM*371*20080912*2024
 DTM*017*20080912*2300
 DTM*161*20080910*1045
 HL*2*1*E
 TD1*PCS*106****G*100.105*KG*20.826*CR
 TD3**UNPC*9887631111
 TD4*LN
 REF*CB*DOOR/DOOR
 REF*CT*UTI1234
 REF*KK*Live
 SAC*C*A320***20000
 CUR*ZZ*USD
 V1**MILESTONE
 R4*L*UN*USLGA*LAGUARDIA*US
 DTM*035*20080910*0915*LT
 HL*3*2*O
 PRF*1040750-1
 REF*19*DIVISIONCODE
 HL*4*3*I
 LIN*1*IN*045K09590*LS*1*PL*1
 SN1**6*PC
 PO4*2*1*PC*****23**2*4
 PID*F***DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*207318
 REF*AW*98876631111
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE

N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*A320***20000
 CUR*ZZ*USD
 V1**MILESTONE
 R4*O*UN*USNYC*NEW YORK*US
 DTM*003*20080901*0900*LT
 HL*5*3*I
 LIN*1*IN*604K42380*LS*1*PL*1
 SN1**6*PC
 PO4*2*1*PC*****23**2*4
 PID*F*****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*207317
 REF*AW*98876631111
 N1*SU*SUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*A320***20000
 CUR*ZZ*USD
 V1**MILESTONE
 R4*O*UN*USNYC*NEW YORK*US
 DTM*003*20080901*0900*LT
 SE*85*0001
 GE*1*1674
 IEA*1*000001674

B5. Sample File for Ocean FCL with Assortment Scenario

This sample EDI file represents a FCL shipment with Assortments with the following structure:

Shipment 1 (511803240)

Container 1 (TRLU9055505)

Order 1 (PP20937200)

Item 1 (498K15601) from Commercial Invoice 1

Assortment 1 (SKU 12344)

Assortment 2 (SKU 99876)

Item 2 (8097803272) from Commercial Invoice 1

Assortment 1 (SKU 888765)

Assortment 2 (SKU 333323)

ISA*00* *00* *ZZ*STDSP2FW *ZZ*GTNEXUS *080314*1236*U*00401*000001674*0*T*>
 GS*SH*STDSP2FW*STDCERTSH*20080314*1236*1674*X*004010
 ST*856*0001
 BSN*00*511803240*20080314*2006**AS
 HL*1**S
 TD5**2*HLCU*S*AW
 REF*ZZ*STDCERTSH
 N1*FW*FWNAME*ZZ*FWCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*FORWARDERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CB*Customs Broker Name*ZZ*Customs Broker Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*BROKERS CITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CA*Carrier Name*ZZ*Carrier Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*STUFFINGLOCCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*SH*SHIPPERNAME*ZZ*SHIPPERCODE

N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SHIPPERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CN*CONSIGNEENAME*ZZ*CONSIGNEECODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*CONSIGNEECITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CS*Consolidator Name*ZZ*Consolidator Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*CONSOLIDATORCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 SAC*C*F450***20000
 CUR*BB*USD
 V1**NYK ATHENA**00040
 R4*O*UN*MYPGU*PASIRGUDANG-JOHOR*MY
 R4*L*UN*SGSIN*SINGAPORE*SG
 R4*D*UN*USLAX*LOSANGELES*US
 R4*M*UN*USLAX*LOSANGELES*US
 DTM*369*20070810*1213
 DTM*161*20070810*0900
 DTM*370*20070810*1245
 DTM*371*20070825*2234
 DTM*017*20080829*2242
 HL*2*1*E
 TD1*PCS*85****G*100.105*KG*20.826*CR
 TD3**TRLU*9055505*****HLA0869820*44G0
 TD4*CF
 REF*CB*CY/CY
 REF*CT*UTII1234
 REF*KK*Live
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*L*UN*SGSIN*SINGAPORE*SG
 DTM*035*20070808*0700*LT
 HL*3*2*O
 PRF*PP20937200
 REF*19*DIVISIONCODE
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*003*20070726*0900*LT
 HL*4*3*I
 LIN*1*IN*498K15601*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F*****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*CN*HLCUPGU070850318
 REF*BM*HLCUPGU070850319
 N1*SU*CUSTOMER SHIP TO LOCATION*ZZ*SHIPTOCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 N1*SU*SUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT

DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*5*4*IA
 LIN*1*SK*12344*UP*111122234*CL*Black*SM*Mens*SZ*L*IZ*Category*F7*Mens Shirt*EN*EAN12544
 SN1*12345*2*EA
 PO4*2*1*EA*****2**001*024
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*ZZ*REF1
 SAC*C*A520***250
 CUR*BB*USD
 HL*6*4*IA
 LIN*1*SK*99876*UP*111122999*CL*Black*SM*Mens*SZ*M*IZ*Category*F7*Mens Shirt*EN*EAN55555
 SN1*12345*2*EA
 PO4*2*1*EA*****2**025*049
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*ZZ*REF1
 SAC*C*A520***250
 CUR*BB*USD
 HL*7*3*I
 LIN*1*IN*8097803272*LS*1*PL*1
 SN1*12345*5*PC
 PO4*2*1*PC*****23**2*4
 PID*F****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*BM*HLCUPGU070850319
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*8*7*IA
 LIN*1*SK*888765*UP*543322234*CL*Black*SM*Mens*SZ*XL*IZ*Category*F7*Mens Shirt*EN*EAN76334
 SN1*12345*2*EA
 PO4*2*1*EA*****2**049*073
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*ZZ*REF1
 SAC*C*A520***250
 CUR*BB*USD
 HL*9*7*IA
 LIN*1*SK*333323*UP*876522234*CL*Black*SM*Mens*SZ*XXL*IZ*Category*F7*Mens Shirt*EN*EAN12399
 SN1*12345*2*EA
 PO4*2*1*EA*****2**078*102
 MEA*CT*SQ*24*CF

MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*ZZ*REF1
 SAC*C*A520***250
 CUR*BB*USD
 SE*145*0001
 GE*I*1674
 IEA*1*000001674

B6. Sample File for Ocean FCL with Pack Scenario

This sample EDI file represents a FCL shipment with Packs with the following structure:

Shipment 1 (511803240)

Container 1 (TRLU9055505)

Order 1 (PP20937200)

Item 1 (498K15601) from Commercial Invoice 1

Pack 1 (CartonID 111111111111)

Pack 2 (CartonID 222222222222)

Item 2 (8097803272) from Commercial Invoice 1

Pack 3 (CartonID 333333333333)

Order 2 (PP208654785)

Item 1 (J8023K927) from Commercial Invoice 2

Pack 2 (CartonID 222222222222)

Item 2 (876234587) from Commercial Invoice 2

Pack 4 (CartonID 444444444444)

ISA*00* *00* *ZZ*STDSP2FW *ZZ*GTNEXUS *080314*1236*U*00401*000001674*0*T*>
 GS*SH*STDSP2FW*STDCERTSH*20080314*1236*1674*X*004010
 ST*856*0001
 BSN*00*511803240*20080314*2006**AS
 HL*I**S
 TD5**2*HLCU*S*AW
 REF*ZZ*STDCERTSH
 N1*FW*FWNAME*ZZ*FWCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*FORWARDERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CB*Customs Broker Name*ZZ*Customs Broker Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*BROKERSCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CA*Carrier Name*ZZ*Carrier Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*STUFFINGLOCCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*SH*SHIPPERNAME*ZZ*SHIPPERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SHIPPERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CN*CONSIGNEENAME*ZZ*CONSIGNEECODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*CONSIGNEECITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CS*Consolidator Name*ZZ*Consolidator Code
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*CONSOLIDATORCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 SAC*C*F450***20000
 CUR*BB*USD
 V1**NYK ATHENA**00040
 R4*O*UN*MYPGU*PASIRGUDANG-JOHOR*MY
 R4*L*UN*SGSIN*SINGAPORE*SG
 R4*D*UN*USLAX*LOSANGELES*US
 R4*M*UN*USLAX*LOSANGELES*US
 DTM*369*20070810*1213
 DTM*161*20070810*0900
 DTM*370*20070810*1245

DTM*371*20070825*2234
 DTM*017*20080829*2242
 HL*2*1*E
 TD1*PCS*85****G*100.105*KG*20.826*CR
 TD3**TRLU*9055505*****HLA0869820*44G0
 TD4*CF
 REF*CB*CY/CY
 REF*CT*UTI1234
 REF*KK*Live
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*L*UN*SGSIN*SINGAPORE*SG
 DTM*035*20070808*0700*LT
 HL*3*2*O
 PRF*PP20937200
 REF*19*DIVISIONCODE
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*003*20070726*0900*LT
 HL*4*3*I
 LIN*1*IN*498K15601*LS*1*PL*1
 SN1**5*PC
 PO4*2*I*PC*****23**2*4
 PID*F****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*CN*HLCUPGU070850318
 REF*BM*HLCUPGU070850319
 N1*SU*CUSTOMER SHIP TO LOCATION*ZZ*SHIPTOCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 N1*SU*SUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*5*4*P
 SN1**3*EA
 PO4****CTN*G*25*LB*2*CF*2*2*2*IN*3****0
 MEA*WT*G*25*KG
 MEA*WT*N*25*KG
 MEA*WT*B*25*KG
 MEA*PD*VOL*10*CR
 REF*LT*1200
 MAN*AI*1111111111111111**W*334567
 HL*6*4*P
 SN1**2*EA
 PO4****CTN*G*25*LB*1*CF*2*2*2*IN*7****1
 MEA*WT*G*20*KG
 MEA*WT*N*20*KG

MEA*WT*B*20*KG
 MEA*PD*VOL*10*CR
 REF*LT*1200
 MAN*AI*222222222222**W*339982
 HL*7*3*I
 LIN*1*IN*8097803272*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*BM*HLCUPGU070850319
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*Q*7*P
 SN1**5*EA
 PO4****CTN*G*25*LB*2*CF*2*2*2*IN*5****0
 MEA*WT*G*25*KG
 MEA*WT*N*25*KG
 MEA*WT*B*25*KG
 MEA*PD*VOL*10*CR
 REF*LT*1200
 MAN*AI*3333333333333333**W*334567
 HL*9*2*O
 PRF*PP208654785
 REF*19*UNKNOWN
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*003*20070726*0900*LT
 HL*10*9*I
 LIN*1*IN*J8023K927*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE2
 REF*BM*HLCUPGU070850319
 N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT

V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*11*10*P
 SN1**5*EA
 PO4****CTN*G*25*LB*2*CF*2*2*2*IN*7****1
 MEA*WT*G*5*KG
 MEA*WT*N*5*KG
 MEA*WT*B*5*KG
 MEA*PD*VOL*10*CR
 REF*LT*1200
 MAN*AI*222222222222**W*339982
 HL*12*9*I
 LIN*1*IN*876234587*LS*1*PL*1
 SN1**8*PC
 PO4*2*1*PC*****23**2*4
 PID*F*****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE2
 REF*BM*HLCUPGU070850319
 N1*SUS*SUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1*STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*13*12*P
 SN1**8*EA
 PO4****CTN*G*25*LB*2*CF*2*2*2*IN*8****0
 MEA*WT*G*25*KG
 MEA*WT*N*25*KG
 MEA*WT*B*25*KG
 MEA*PD*VOL*10*CR
 REF*LT*1200
 MAN*AI*444444444444**W*334567
 SE*202*0001
 GE*I*1674
 IEA*1*000001674

B7. Sample File for Ocean FCL with Assortment and Pack Scenario

This sample EDI file represents a FCL shipment with Assortments and Packs with the following structure:

Shipment 1 (511803240)
 Container 1 (TRLU9055505)
 Order 1 (PP20937200)
 Item 1 (498K15601) from Commercial Invoice 1
 Assortment 1 (SKU 12344)
 Pack 1 (CartonID 111111111111)
 Pack 2 (CartonID 222222222222)
 Item 2 (8097803272) from Commercial Invoice 1
 Assortment 2 (SKU 99876)
 Pack 3 (CartonID 333333333333333)

Order 2 (PP208654785)

Item 1 (J8023K927) from Commercial Invoice 2

Assortment 1 (SKU 888765)

Pack 2 (CartonID 22222222222222)

Item 2 (876234587) from Commercial Invoice 2

Assortment 2 (SKU 333323)

Pack 4 (CartonID 444444444444)

ISA*00* *00* *ZZ*STDSP2FW *ZZ*GTNEXUS *080314*1236*U*00401*000001674*0*T*>

GS*SH*STDSP2FW*STDCERTSH*20080314*1236*1674*X*004010

ST*856*0001

BSN*00*511803240*20080314*2006**AS

HL*1**S

TD5**2*HLCU*S*MLB

REF*ZZ*STDCERTSH

N1*FW*FWNAME*ZZ*FWCODE

N3*STREETADDRESSLINE1* STREETADDRESSLINE2

N4*FORWARDERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC

N1*CB*Customs Broker Name*ZZ*Customs Broker Code

N3*STREETADDRESSLINE1* STREETADDRESSLINE2

N4*BROKERSCTYNAME*ST*POSTALCODE*CC*UN*UNLOC

N1*CA*Carrier Name*ZZ*Carrier Code

N3*STREETADDRESSLINE1* STREETADDRESSLINE2

N4*STUFFINGLOCCITYNAME*ST*POSTALCODE*CC*UN*UNLOC

N1*SH*SHIPPERNAME*ZZ*SHIPPERCODE

N3*STREETADDRESSLINE1* STREETADDRESSLINE2

N4*SHIPPERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC

N1*CN*CONSIGNEENAME*ZZ*CONSIGNEECODE

N3*STREETADDRESSLINE1* STREETADDRESSLINE2

N4*CONSIGNEECITYNAME*ST*POSTALCODE*CC*UN*UNLOC

N1*CS*Consolidator Name*ZZ*Consolidator Code

N3*STREETADDRESSLINE1* STREETADDRESSLINE2

N4*CONSOLIDATORCITYNAME*ST*POSTALCODE*CC*UN*UNLOC

SAC*C*F450***20000

CUR*BB*USD

V1**NYK ATHENA**00040

R4*O*UN*MYPGU*PASIRGUDANG-JOHOR*MY

R4*L*UN*SGSIN*SINGAPORE*SG

R4*D*UN*USLAX*LOSANGELES*US

R4*M*UN*USLAX*LOSANGELES*US

DTM*369*20070810*1213

DTM*161*20070810*0900

DTM*370*20070810*1245

DTM*371*20070825*2234

DTM*017*20080829*2242

HL*2*1*E

TD1*PCS*85****G*100.105*KG*20.826*CR

TD3**TRLU*9055505*****HLA0869820*44G0

TD4*CF

REF*CB*CY/CY

REF*CT*UTI1234

REF*KK*Live

SAC*C*F450***20000

CUR*BB*USD

V1**MILESTONE

R4*L*UN*SGSIN*SINGAPORE*SG

DTM*035*20070808*0700*LT

HL*3*2*O

PRF*PP20937200

REF*19*DIVISIONCODE

V1**MILESTONE

R4*O*UN*MYJBH*Johor Bahru*MY

DTM*003*20070726*0900*LT
 HL*4*3*I
 LIN*1*IN*498K15601*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F*****DESCRIPTION
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*CN*HLCUPGU070850318
 REF*BM*HLCUPGU070850319
 N1*SU*CUSTOMER SHIP TO LOCATION*ZZ*SHIPTOCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gtnexus.com*FX*555-1212*TE*555-1212
 N1*SU*SUPPLIERNAME*ZZ*SUPPLIERCODE
 N3*STREETADDRESSLINE1* STREETADDRESSLINE2
 N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 PER*ZZ*JEFF*EM*Jeff.fioresi@gtnexus.com*FX*555-1212*TE*555-1212
 SAC*C*F450***20000
 CUR*BB*USD
 V1**MILESTONE
 R4*O*UN*MYJBH*Johor Bahru*MY
 DTM*118*20070723*1230*LT
 DTM*140*20070724*0900*LT
 V1**MILESTONE
 R4*B*UN*MYJBH*Johor Bahru*MY
 DTM*050*20070724*1645*LT
 HL*5*4*IA
 LIN*1*SK*12344*UP*111122234*CL*Black*SM*Mens*SZ*L*IZ*Category*F7*Mens Shirt*EN*EAN12544
 SN1*12345*20*EA
 PO4*1*1*EA*****10**111111111111*222222222222
 MEA*CT*SQ*2*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*ZZ*REF1
 SAC*C*A520***250
 CUR*BB*USD
 HL*6*5*P
 SN1**15*EA
 PO4****CTN*G*25*LB*2*CF*2*2*2*IN*15****0
 MEA*WT*G*25*KG
 MEA*WT*N*25*KG
 MEA*WT*B*25*KG
 MEA*PD*VOL*10*CR
 REF*LT*1200
 MAN*AI*111111111111**W*334567
 HL*7*5*P
 SN1**5*EA
 PO4****CTN*G*25*LB*2*CF*2*2*2*IN*20****1
 MEA*WT*G*20*KG
 MEA*WT*N*20*KG
 MEA*WT*B*20*KG
 MEA*PD*VOL*10*CR
 REF*LT*1200
 MAN*AI*222222222222**W*339982
 HL*8*3*I
 LIN*1*IN*8097803272*LS*1*PL*1
 SN1**5*PC
 PO4*2*1*PC*****23**2*4
 PID*F*****DESCRIPTION

DTM*140*20070724*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070724*1645*LT
HL*13*12*IA
LIN*1*SK*888765*UP*543322234*CL*Black*SM*Mens*SZ*XL*IZ*Category*F7*Mens Shirt*EN*EAN76334
SN1*12345*15*EA
PO4*1*1*EA*****15**222222222222*222222222222
MEA*CT*SQ*1*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*ZZ*REF1
SAC*C*A520***250
CUR*BB*USD
HL*14*13*P
SN1**15*EA
PO4****CTN*G*25*LB*2*CF*2*2*2*IN*20****1
MEA*WT*G*5*KG
MEA*WT*N*5*KG
MEA*WT*B*5*KG
MEA*PD*VOL*10*CR
REF*LT*1200
MAN*AI*222222222222**W*339982
HL*15*11*I
LIN*1*IN*876234587*LS*1*PL*1
SN1**8*PC
PO4*2*1*PC*****23**2*4
PID*F*****DESCRIPTION
MEA*CT*SQ*24*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*4H*COMMERCIALINVOICE2
REF*BM*HLCUPGU070850319
N1*SUSUPPLIERNAME*ZZ*SUPPLIERCODE
N3*STREETADDRESSLINE1* STREETADDRESSLINE2
N4*SUPPLIERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
PER*ZZ*JEFF*EM*Jeff.fioresi@gt nexus.com*FX*555-1212*TE*555-1212
SAC*C*F450***20000
CUR*BB*USD
V1**MILESTONE
R4*O*UN*MYJBH*Johor Bahru*MY
DTM*118*20070723*1230*LT
DTM*140*20070724*0900*LT
V1**MILESTONE
R4*B*UN*MYJBH*Johor Bahru*MY
DTM*050*20070724*1645*LT
HL*16*15*IA
LIN*1*SK*333323*UP*876522234*CL*Black*SM*Mens*SZ*XXL*IZ*Category*F7*Mens Shirt*EN*EAN12399
SN1*12345*2*EA
PO4*1*1*EA*****20**444444444444*444444444444
MEA*CT*SQ*1*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*ZZ*REF1
SAC*C*A520***250
CUR*BB*USD
HL*17*16*P
SN1**20*EA
PO4****CTN*G*25*LB*2*CF*2*2*2*IN*20****0
MEA*WT*G*25*KG
MEA*WT*N*25*KG
MEA*WT*B*25*KG

MEA*PD*VOL*10*CR
 REF*LT*1200
 MAN*AI*4444444444**W*334567
 SE*242*0001
 GE*1*1674
 IEA*1*000001674

B8. Sample File for Truck FTL Scenario

ISA*00* *00* *ZZ*STDSP6MC *ZZ*GTNEXUS *080314*1236*U*00401*000001674*0*T*>
 GS*SH*STDSP6MC*STDCERTSH*20080314*1236*1674*X*004010
 ST*856*0001
 BSN*00*511803240*20080314*2006**AS
 HL*1**S
 TD5**2*DART*J*NOT SPECIFIED
 REF*CR*STDCERTSH
 N1*FW*FWNAME*ZZ*FWCODE
 N3*STREETADDRESSLINE1*STREETADDRESSLINE2
 N4*FORWARDERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*SH*SHIPPERNAME*ZZ*SHIPPERCODE
 N3*STREETADDRESSLINE1*STREETADDRESSLINE2
 N4*SHIPPERCITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 N1*CN*CONSIGNEENAME*ZZ*CONSIGNEECODE
 N3*STREETADDRESSLINE1*STREETADDRESSLINE2
 N4*CONSIGNEECITYNAME*ST*POSTALCODE*CC*UN*UNLOC
 V1**DART TRANSIT
 R4*O*UN*USVIS*LOS ANGELES*US***CA
 R4*M*UN*USELP*EL PASO*US***TX
 DTM*369*20070810*1213
 DTM*017*20070811*1245
 HL*2*1*E
 TD1*CTN*45****G*180.105*KG*35.826*CR
 TD3**DART*TRAILER*SEALNUMBER*9V13
 TD4*TF
 REF*CB*D/D
 HL*3*2*O
 PRF*MASTERPONUMBER1
 REF*19*DIVISIONCODE1
 REF*19*NGC
 HL*4*3*I
 LIN*1*IN*STYLENUMBER1*LS*1*PL*POLINENUMBER1
 SN1**75*EA
 MEA*CT*SQ*24*CF
 MEA*PD*VOL*3*CR
 MEA*WT*G*24*KG
 REF*4H*COMMERCIALINVOICE1
 REF*OL*SHIPPERISSUEDTRUCKBL1
 REF*CN*CARRIERSPRONUMBER
 HL*5*4*P
 SN1**1*EA
 PO4****CTN*G*25*KG*1*CF*24*24*12*IN*3****1
 MEA*WT*G*1*KG
 MEA*WT*N*1*KG
 MEA*WT*B*1*KG
 MEA*PD*VOL*3*CR
 MAN*AI*CARTONID1
 MAN*AI*CARTONID2
 MAN*AI*CARTONID3
 MAN*AI*CARTONID4
 MAN*AI*CARTONID5

MAN*AI*CARTONID6
MAN*AI*CARTONID7
MAN*AI*CARTONID8
MAN*AI*CARTONID9
MAN*AI*CARTONID10
MAN*AI*CARTONID11
MAN*AI*CARTONID12
MAN*AI*CARTONID13
MAN*AI*CARTONID14
MAN*AI*CARTONID15
MAN*AI*CARTONID16
MAN*AI*CARTONID17
MAN*AI*CARTONID18
MAN*AI*CARTONID19
MAN*AI*CARTONID20
MAN*AI*CARTONID21
MAN*AI*CARTONID22
MAN*AI*CARTONID23
MAN*AI*CARTONID24
MAN*AI*CARTONID25
HL*G*4*P
SN1**1*EA
PO4****CTN*G*25*KG*1*CF*24*24*12*IN*3****1
MEA*WT*G*1*KG
MEA*WT*N*1*KG
MEA*WT*B*1*KG
MEA*PD*VOL*3*CR
MAN*AI*CARTONID1
MAN*AI*CARTONID2
MAN*AI*CARTONID3
MAN*AI*CARTONID4
MAN*AI*CARTONID5
MAN*AI*CARTONID6
MAN*AI*CARTONID7
MAN*AI*CARTONID8
MAN*AI*CARTONID9
MAN*AI*CARTONID10
MAN*AI*CARTONID11
MAN*AI*CARTONID12
MAN*AI*CARTONID13
MAN*AI*CARTONID14
MAN*AI*CARTONID15
MAN*AI*CARTONID16
MAN*AI*CARTONID17
MAN*AI*CARTONID18
MAN*AI*CARTONID19
MAN*AI*CARTONID20
MAN*AI*CARTONID21
MAN*AI*CARTONID22
MAN*AI*CARTONID23
MAN*AI*CARTONID24
MAN*AI*CARTONID25
HL*7*4*P
SN1**1*EA
PO4****CTN*G*25*KG*1*CF*24*24*12*IN*3****1
MEA*WT*G*1*KG
MEA*WT*N*1*KG
MEA*WT*B*1*KG
MEA*PD*VOL*3*CR
MAN*AI*CARTONID1
MAN*AI*CARTONID2
MAN*AI*CARTONID3

MAN*AI*CARTONID4
MAN*AI*CARTONID5
MAN*AI*CARTONID6
MAN*AI*CARTONID7
MAN*AI*CARTONID8
MAN*AI*CARTONID9
MAN*AI*CARTONID10
MAN*AI*CARTONID11
MAN*AI*CARTONID12
MAN*AI*CARTONID13
MAN*AI*CARTONID14
MAN*AI*CARTONID15
MAN*AI*CARTONID16
MAN*AI*CARTONID17
MAN*AI*CARTONID18
MAN*AI*CARTONID19
MAN*AI*CARTONID20
MAN*AI*CARTONID21
MAN*AI*CARTONID22
MAN*AI*CARTONID23
MAN*AI*CARTONID24
MAN*AI*CARTONID25
HL*8*2*O
PRF*MASTERPONUMBER2
REF*19*DIVISIONCODE2
REF*19*NGC
HL*9*8*I
LIN*1*IN*STYLENUMBER2*LS*1*PL*POLINENUMBER2
SN1**60*EA
MEA*CT*SQ*24*CF
MEA*PD*VOL*3*CR
MEA*WT*G*24*KG
REF*4H*COMMERCIALINVOICE2
REF*OL*SHIPPERISSUEDTRUCKBL2
REF*CN*CARRIERSPRONUMBER
HL*10*9*P
SN1**1*EA
PO4****CTN*G*25*KG*1*CF*24*24*12*IN*3****1
MEA*WT*G*1*KG
MEA*WT*N*1*KG
MEA*WT*B*1*KG
MEA*PD*VOL*3*CR
MAN*AI*CARTONID26
MAN*AI*CARTONID27
MAN*AI*CARTONID28
MAN*AI*CARTONID29
MAN*AI*CARTONID30
MAN*AI*CARTONID31
MAN*AI*CARTONID32
MAN*AI*CARTONID33
MAN*AI*CARTONID34
MAN*AI*CARTONID35
MAN*AI*CARTONID36
MAN*AI*CARTONID37
MAN*AI*CARTONID38
MAN*AI*CARTONID39
MAN*AI*CARTONID40
MAN*AI*CARTONID41
MAN*AI*CARTONID42
MAN*AI*CARTONID43
MAN*AI*CARTONID44
MAN*AI*CARTONID45

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HL*11*9*P
SN1**1*EA
PO4****CTN*G*25*KG*1*CF*24*24*12*IN*3****1
MEA*WT*G*1*KG
MEA*WT*N*1*KG
MEA*WT*B*1*KG
MEA*PD*VOL*3*CR
MAN*AI*CARTONID26
MAN*AI*CARTONID27
MAN*AI*CARTONID28
MAN*AI*CARTONID29
MAN*AI*CARTONID30
MAN*AI*CARTONID31
MAN*AI*CARTONID32
MAN*AI*CARTONID33
MAN*AI*CARTONID34
MAN*AI*CARTONID35
MAN*AI*CARTONID36
MAN*AI*CARTONID37
MAN*AI*CARTONID38
MAN*AI*CARTONID39
MAN*AI*CARTONID40
MAN*AI*CARTONID41
MAN*AI*CARTONID42
MAN*AI*CARTONID43
MAN*AI*CARTONID44
MAN*AI*CARTONID45
HL*12*9*P
SN1**1*EA
PO4****CTN*G*25*KG*1*CF*24*24*12*IN*3****1
MEA*WT*G*1*KG
MEA*WT*N*1*KG
MEA*WT*B*1*KG
MEA*PD*VOL*3*CR
MAN*AI*CARTONID26
MAN*AI*CARTONID27
MAN*AI*CARTONID28
MAN*AI*CARTONID29
MAN*AI*CARTONID30
MAN*AI*CARTONID31
MAN*AI*CARTONID32
MAN*AI*CARTONID33
MAN*AI*CARTONID34
MAN*AI*CARTONID35
MAN*AI*CARTONID36
MAN*AI*CARTONID37
MAN*AI*CARTONID38
MAN*AI*CARTONID39
MAN*AI*CARTONID40
MAN*AI*CARTONID41
MAN*AI*CARTONID42
MAN*AI*CARTONID43
MAN*AI*CARTONID44
MAN*AI*CARTONID45
SE*228*0001
GE*1*1674
IEA*1*000001674

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B9. Sample File for Truck LTL Scenario

Sample File Not Available

B10. Sample File for Railcar Scenario

Sample File Not Available

B11. Sample File for Delete Shipment Scenario

Sample File Not Available

Appendix C:

File Naming Convention

To facilitate our mutual support efforts for your integration to multiple customers through this integration, please follow the following file naming convention when transmitting the file.

<Sender ID>_<Receiver ID>_<Message Type>_<Transmission ID>_<Trans Date Time>.<EXT>

Where for X12 EDI...

For example: **STDSP6MC_STDCERTSH_SH_000001046_081222T14102926.X12**

Appendix D:
Document Change Log

Version	Date	Author(s)	Summary of Changes/Comments
R11_1_Draft	May 15, 2009	Jeff Fioresi	Draft of MIG revisions per Release 11.1
R11_1_Final	July 01, 2009	Jamie Somma	Updated Appendix C1, C2 with relevant sample files. Added Appendix D for Document Change tracking. Renamed file per standard naming convention.
R11_1_Final, rev1	July 26, 2009	Jamie Somma	Updated TD101 to refer to correct reference to supported values. Renamed Appendix B to match intended use. Removed confusing comments on N1 segment under the HL Item level. R403: Clarified support for UN, IA, D, K, or ZZ identifiers for all R4's. V1/R4/DTM: Clarified usage of V1

			loops at HL*E, HL*O, and HL*I levels for Milestone purposes instead of just DTM segments. DTM01: Updated qualifier for Loaded on Vessel = 161
R11_1_Final, rev2	Aug 7, 2009	Jamie Somma	Added/revised sample files for: B1. Ocean FCL B2. Ocean Consolidated LCL->FCL B3. Ocean True LCL B4. Air
R11_1_Final, rev3	Feb 8, 2010	Jeff Fiorese	Noted that CRLF Segment Separator is to be sent on each sample file example
R12_1_Final	March 23, 2010	Jeff Fiorese	Added support for Assortments and Packs and updated sample files
R12_2_Final	September 7, 2010	Jeff Fiorese	ISA12 element corrected to read 0401 in sample files N103 element corrected in sample files to be 'ZZ' TD101 element corrected in MIG to be 'CNT' and corrected in sample files
R12_3_Final	November 18, 2010	Jeff Fiorese	TD101 (HL*E) valid values corrected TD401 (HL*E) comment added about not providing if RORO or Breakbulk
R12_3_Final	December 13, 2010	Jeff Fiorese	Added MEA Segment to HL*P level
R12_3_Final	May 3, 2011	Jeff Fiorese	Made CTT Segment Optional
R12_3_Final	June 8, 2011	Jeff Fiorese	Added PO408 and PO409 within HL*P loop to capture Carton level volume
R2011_6_Final	September 12, 2011	Jeff Fiorese	Modified Comment#2 within HL/I/REF where REF01 = 'CN' to read for Air mode case 'MAWB#' instead of 'HAWB#'
R2013_4_Final	May 31, 2013	Jamie Somma	Updated element usage (GTN Required, GTN Optional, GTN Conditional) based on agreed Partner Certification data requirements
R2013_4_Final	July 31, 2013	Zdravko Belicajevic	In HL-S/ N1 Loop, changed N3 and N4 from GTN Required to GTN Optional In HL-S/N1 Loop, segment N4, changed N405 and N406 from GTN Required to GTN Optional
R2013_4_Final	Oct 07, 2013	Zdravko Belicajevic	Correction of the sample B4: The TD401 qualifier changed from 'CF' to 'LN'
R 15.1	Mar 03, 2015	Zdravko Belicajevic	Per GTN-21176, the following equipment type codes have been added in Appendix A1: 00B0, TRTK, TRFB, TROT, TRRF, F2A0
R 19.2	Feb 15, 2019	Zdravko Belicajevic	Removed "PORT" as one of the value from the TD505 code list Corrected sample messages for TD505 code: "AW" instead of "MLB"

R 19.6	Sep 17, 2019	Zdravko Belicajevic	Replaced the logo and all references to "GT Nexus" with "Infor Nexus"
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