304 Shipping Instructions - Inbound

Version: 1.0

Company: **Infor Nexus**

304 Shipping Instructions

Functional Group=SO

Purpose: This Draft Standard for Trial Use provides the format and establishes the data contents of the Shipment Instructions Transaction Set (304) for use within the context of an Electronic Data Interchange (EDI) environment.When this transaction set is transmitted to an ocean carrier, it provides all the information necessary to prepare and distribute a contract of carriage such as an ocean bill of lading, sea waybill, and other shipping documents. When this transaction set is transmitted to a freight forwarder or customs broker, it provides for the transmission of shipping and financial information required by the forwarder or customs broker to move cargo and provide the services requested.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			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	B2	Beginning Segment for Shipment Information Transaction	M	1			GTN Required
080	N9	Reference Identification	O	100			GTN Required
090	V1	Vessel Identification	O	2			GTN Required
LOOP ID - N1					**100**		
160	N1	Name	O	1			GTN Required
170	N2	Additional Name Information	O	2			GTN Optional
180	N3	Address Information	O	2			GTN Optional
190	N4	Geographic Location	O	1			GTN Optional
195	G61	Contact	O	3			GTN Optional
LOOP ID - R4					**20**		
200	R4	Port or Terminal	O	1			GTN Required
210	DTM	Date/Time Reference	O	15			GTN Optional
230	K1	Remarks	O	8			GTN Optional
250	H3	Special Handling Instructions	O	2			GTN Optional
LOOP ID - C8					**20**		
290	C8	Certifications and Clauses	O	1			GTN Optional

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LX					**999**		
010	LX	Assigned Number	O	1			GTN Optional
020	Y2	Container Details	O	10			GTN Optional
LOOP ID - N7					**999**		
030	N7	Equipment Details	O	1			GTN Required
035	QTY	Quantity	O	1			GTN Optional
050	M7	Seal Numbers	O	1			GTN Optional
060	W09	Equipment and Temperature	O	1			GTN Optional
LOOP ID - H1					**10**		
135	H1	Hazardous Material	O	1			GTN Optional
137	H2	Additional Hazardous Material Description	O	4			GTN Optional
LOOP ID - LH1					**100**		
140	LH1	Hazardous Identification	O	1			GTN Optional

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
		Information					
141	LH2	Hazardous Classification Information	O	3		N2/141	GTN Optional
143	LFH	Freeform Hazardous Material Information	O	4			GTN Optional
LOOP ID - L0					**120**		
170	L0	Line Item - Quantity and Weight	O	1			GTN Required
176	QTY	Quantity	O	5		N2/176	GTN Optional
185	L5	Description, Marks and Numbers	O	999			GTN Required
195	N9	Reference Identification	O	100			GTN Optional
LOOP ID - H1					**10**		
270	H1	Hazardous Material	O	1			GTN Optional
280	H2	Additional Hazardous Material Description	O	4			GTN Optional
LOOP ID - LH1					**1**		
290	LH1	Hazardous Identification Information	O	1			GTN Optional
300	LH2	Hazardous Classification Information	O	3		N2/300	GTN Optional
320	LFH	Freeform Hazardous Material Information	O	4			GTN Optional
LOOP ID - N1					**10**		
380	N1	Name	O	1			GTN Optional
390	N2	Additional Name Information	O	2			GTN Optional
400	N3	Address Information	O	2			GTN Optional
410	N4	Geographic Location	O	1			GTN Optional

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - L3					**1**		
010	L3	Total Weight and Charges	O	1			GTN Optional
020	PWK	Paperwork	O	50			GTN Optional
LOOP ID - SAC					**10**		
044	SAC	Service, Promotion, Allowance, or Charge Information	O	1			GTN Optional
060	K1	Remarks	O	50			GTN Optional
080	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:

2/141   If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory; however, the receiver must consider it to be blanks when printing a paper document.

2/176   The lading quantity of principal interest to the parties exchanging information is transmitted in the LO segment. The quantity ordered and other pertinent lading quantities are to be transmitted in the QTY segments in the LO loop.

2/300   If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory; however, the receiver must consider it to be blanks when printing a paper document.

ISA   **Interchange Control Header**

<table>
<tr><td>Pos:</td><td style="text-align:right">Max: 1</td></tr>
<tr><td colspan="2" style="text-align:center">Not Defined - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td style="text-align:right">Elements: 16</td></tr>
</table>

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
Information:
Set to '00' – No Authorization information present

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
Information:
Set to '00' – No Security information present

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 '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 <DNB Code> with 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
Information:
Set to '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

10/13/2020

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

Information:
Set to 'U' – U.S. EDI Community of ASC X12, TDCC and UCS

ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	GTN Required

Description: Code specifying the version number of the interchange control segments

<u>Code</u>	<u>Name</u>
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

ISA13	I12	**Interchange Control Number**	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)

Information:
Set to '0' – No Acknowledgement requested

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

Information:
Set to 'T' – Test or 'P' – Production (mutually agreed upon per integration status)

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 '>'

Note 1:

Sample Segment:
*ISA*00*   *00*   *ZZ*SENDERID   *ZZ*GTNEXUS   *021112*1737*U*00401*000001469*0*T*>~*

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
Information:
Set to 'SO' – Shipping Instructions (304)

Code	Name
SO	Ocean Shipment Information (304)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 <DNB Code>

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 'GTNEXUS'

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS04	373	**Date**	M	DT	8/8	GTN Required

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS06	28	**Group Control Number**	M	N0	1/9	GTN Required

Description: Assigned number originated and maintained by the sender

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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
Information:
Set to 'X' – Accredited Standards Committee X12

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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.

Note 1:

Sample Segment:
*GS*SO*SENDERCODE*GTNEXUS*20021112*1737*1443*X*004010~*

ST	**Transaction Set Header**	**Pos: 010**	**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
Information:
Set to '304' (Shipping Instructions)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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).

Note 1:

Sample Segment:
ST*304*000001443~

B2 Beginning Segment for Shipment Information Transaction

Pos: 020	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 12**

User Option (Usage): GTN Required
Purpose: To transmit basic data relating to shipment information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B201	375	**Tariff Service Code**	O	ID	2/2	GTN Optional

Description: Code specifying the types of services for rating purposes

Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
DD (Door-to-Door)   Rate applies for shipments in door-to-door service
DP (Door-to-Pier)   Rate applies for shipments in door-to-ocean carrier's port/terminal pier service
PD (Pier-to-Door)   Rate applies for shipments in pier-to-door service
PP (Pier-to-Pier)   All cargo other than that specified in codes HH, HP, or PH whether shipped in containers or otherwise
RP (Rail-to-Pier)   Rate applies for shipments in rail-to-pier service
RD (Rail-to-Door)   Rate applies for shipments in rail-to-door service
RR (Rail-to-Rail)   Rate applies for shipments in rail-to-rail service
PR (Pier-to-Rail)   Rate applies for shipments in pier-to-rail service
DR (Door-to-Rail)   Rate applies for shipments in door-to-rail service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B202	140	**Standard Carrier Alpha Code**	O	ID	2/4	GTN Optional

Description: Standard Carrier Alpha Code

Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
<Carrier SCAC>

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B204	145	**Shipment Identification Number**	O	AN	1/30	GTN Optional

Description: Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)

Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B206	146	**Shipment Method of Payment**	M	ID	2/2	GTN Required

Description: Code identifying payment terms for transportation charges

Information:
CC   Collect
MX   Mixed
PO   Prepaid Only

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B207	147	**Shipment Qualifier**	O	ID	1/1	GTN Optional

Description: Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time

Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
2 (Sea Waybill)   A non-negotiable transport document issued by an ocean carrier covering cargo shipped on a vessel owned or chartered by that carrier
B (Bill of Lading)   Bill of Lading for Individual Shipment
E (Express)   Express Bill of Lading
O (Memo Bill)   Memo Bill of Lading (Not used for Rail)

Comments:

1. In order for an inbound 304 to be processed as an update, both the B204 Shipment Identification Number and the B202 carrier SCAC

must match that of the original inbound 304

Note 1:

Sample Segment:
B2*DD*HJSC**SHIPMENTID**CC*B~

N9   Reference Identification

Pos: 080	**Max: 100**
Heading - Optional	
Loop: N/A	**Elements: 7**

User Option (Usage): GTN Required
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier**	M	ID	2/3	GTN Required

Description: Code qualifying the Reference Identification
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
3X	*Subcontract Number*
61	*Taxing Authority Identification Number*
7U	*Related Transaction Reference Number*
BN	*Booking Number (required)*
BM	*Bill of Lading Number*
CE	*Class of Contract Code*
CG	*Consignee's Order Number*
CH	*Customer catalog number*
CQ	*Customs House Broker License Number*
CT	*Contract Number*
DO	*Delivery Order Number*
ED	*Export Declaration*
EI	*Employer's Identification Number*
FI	*File Identifier*
FM	*Federal Maritime Commission (FMC) Forwarder's Number*
FN	*Forwarder's/Agent's Reference Number*
HO	*Shipper's Hazardous Number (indicates hazardous shipment)*
IB	*In Bond Number*
KL	*Contract Reference*
MA	*Ship Notice/Manifest Number*
OU	*Tariff Supplement Number*
PO	*Purchase Order Number*
PR	*Price Quote Number*
RF	*Export Reference Number*
RP	*Repetitive Pattern Code*
SI	*Shipper's Identifying Number For Shipment (SID)*
TG	*Transportation Control Number (TCN)*
TJ	*Federal Taxpayer's Identification Number*
VA	*Vessel Agent Number*
ZZ	*Mutually Defined*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N903	369	**Free-form Description**	X	AN	1/45	GTN Optional

Description: Free-form descriptive text

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Semantics:

1. At least one of N902 or N903 is required

Comments:

1. If an N9 is sent for which N901 = 'HO', it is assumed that all containers contain hazardous materials (the value in N902 will act as a flag only and will be ignored upon processing) and that LX/N7/H1 and LX/N7/LH1 loops will be included for each container.
2. N902 is set to "Contains Hazardous" in the outbound 304 to the carrier for the N9 segment where N901 = 'HO' – N902 is ignored when N901 = 'HO' in the inbound 304 (Infor Nexus treats this as a HazMat flag). See comment #1 above.
3. If the EDI 304 is used as a manifest detail/house bill for AMS filing of inbound to US shipments (see B207 and C802), when N901 = '7U' is received, N902 should be set to the B204 Shipment Identification Number from the master shipping instruction (BL instruction). The N903 should be set to the "House B/L number" that this EDI 304 is representing. If no N903 is received, the "House B/L number" will be set to the B204 for this EDI 304. If N901 = '7U' is not received, Infor Nexus will link the manifest detail/house bill to the master shipping instruction using the booking number (N901=BN in the EDI 304) and the "House B/L number" will be set to the B204 for this EDI 304.
4. N902 should contain the complete container number from N701+N702+N718 when N901 = 'OC'.

Note 1:

Sample Segment:
N9*BN*BOOKINGNUMBER~
N9*CT*CONTRACTNUMBER~
N9*FN*FORWARDERNUMBER~
N9*HO*SHIPPERHAZARDNUMBER~
N9*KL*CONTRACTREF~
N9*SI*SHIPMENTID~

V1   Vessel Identification

<div>

Pos: 090   **Max: 2**
Heading - Optional
Loop: N/A   **Elements: 9**

</div>

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:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT

V103	26	**Country Code**	O	ID	2/3	GTN Optional

Description: Code identifying the country

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:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT

Syntax Rules:

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

Semantics:

1. V103 is the code identifying the country in which the ship (vessel) is registered.

Note 1:
Sample Segment:
*V1**VESSEL NAME**9988W~*

Loop Name

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
160	N1	Name	O	1		GTN Required
170	N2	Additional Name Information	O	2		GTN Optional
180	N3	Address Information	O	2		GTN Optional
190	N4	Geographic Location	O	1		GTN Optional
195	G61	Contact	O	3		GTN Optional

N1 **Name**

Pos: 160   **Max: 1**
Heading - Optional
Loop: N1   **Elements: 6**

Loop Path: 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:
BT	*Bill-to-Party*
CN	*Consignee (required)*
FW	*Forwarder*
N1	*Notify Party no. 1*
N2	*Also Notify Party (Notify Party no. 2)*
N3	*Also Notify Party (Notify Party no. 3)*
R1	*Party to Receive Scale Ticket*
SH	*Shipper (required)*
VI	*Contact Person*
41	*Submitter*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	GTN Optional

Description: Free-form name
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:
Set to 'ZZ' – Mutually defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	GTN Optional

Description: Code identifying a party or other code
Information:
Set to Infor Nexus party code for specified party

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. At least two N1 segments (and therefore N1 loops) are required – one each for N101 = 'CN' and 'SH'.
2. The N1 loop for which N101 = '41' should contain data related to the particular division of the organization submitting the 304 message to a carrier through Infor Nexus. Note that N102 can be up to 60 characters in length for this N101 value per syntax note 2 above.
3. If an N1 loop is not provided for the submitter of the message (N101 = '41'), then Infor Nexus will create this party and set it to the integrated organization (the organization associated with the ISA06 sender ID) before sending the 304 outbound to the carrier.
4. N1 Segments in the N1 loop where N101 = "R1" represent the Verified Gross Weight Party, which is introduced to support the changes to the Safety of Life at Sea (SOLAS) treaty, taking effect on 07/01/2016

Note 1:

Additional Syntax Notes:
1. N102 is required.
2. N102 field length of 1/35 is Infor Nexus specific and is different from the EDI standard of 1/60. However, when N101 = '41' (Submitter), then N102 can be up to 60 characters in length.

3. For N102 field length up to 60 characters are allowable based upon a carrier's ability to support this maximum. Please contact Infor Nexus Professional Services to determine which carriers support this maximum.
4. If either N103 or N104 is present, then the other is required.

Note 2:

Sample 1
*N1*CN*CONSIGNEE NAME~*
*N1*SH*SHIPPER NAME~*
*N1*VI*CONTACT PERSON~*
*N1*41*SUBMITTER NAME*ZZ*PARTYCODE~*

Sample 2 - Segment for the Verified Gross Weight (SOLAS requirement) when N101 = "R1" is used
*N1*R1*VGM COMPANY NAME*

N2   Additional Name Information

Pos: 170   **Max: 2**
Heading - Optional
Loop: N1   **Elements: 2**

Loop Path: N1
User Option (Usage): GTN Optional
Purpose: To specify additional names or those longer than 35 characters in length

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name**	M	AN	1/60	GTN Required
		Description: Free-form name				
N202	93	**Name**	O	AN	1/60	GTN Optional
		Description: Free-form name				

Comments:

1. N201 is configurable based upon a carrier's ability to support these segments; please contact Infor Nexus Professional Services to determine which carriers support this functionality.

Note 1:

The N2 segment has a dual purpose:

When N201 IS NOT one of: "UC", "VA", "EI", "GN" , N201 is used to convey LONG NAME information
Sample Segment:
N2*LONG NAME ~
Only one repeat of this N2 segment is allowed.

When N201 IS one of: "UC", "VA", "EI", "GN", the N202 contains a party reference number. It is applicable for the following parties only: Consignee (N101 = CN), Shipper (N101 = "SH") and Notify Party no. 1 (N101 = "N1").
When N201 is "UC", N202 contains Ultimate customer's reference number
When N201 is "VA", N202 contains VAT registration number
When N201 is "EI", N202 contains Employer's identification number
When N201 is "GN", N202 contains Government reference number
Sample Segment:
N2*VA*VATNUMBER ~
Only 1 repeat of this N2 segment (when N201 is one of "UC", "VA", "EI", "GN") is allowed.

Note 2:

Additional Syntax Notes:
1. N201 field length of 1/35 is Infor Nexus specific and is different from the EDI standard of 1/60.
2. For N201 up to 60 characters are allowed based upon a carrier's ability to support this maximum. Please contact Infor Nexus Professional Services to determine which carriers support this maximum.

N3   Address Information

Pos: 180   **Max: 2**
Heading - Optional
Loop: N1   **Elements: 2**

Loop Path: 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				

Note 1:

Additional Syntax Notes:
1. N301 and N302 field length of 1/35 is Infor Nexus specific and is different from the EDI standard of 1/55.
2. For N301 and N302 up to 55 characters are allowable based upon a carrier's ability to support this maximum. Please contact Infor Nexus Professional Services to determine support of the maximum allowable characters per carrier.
3. For specific carriers an N4 segment may be provided in addition to the 1st N301, N302, and 2nd N301. Please contact Infor Nexus Professional Services to determine N4 support per carrier.

Note 2:

Sample Segment:
*N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~*
*N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~*

N4   Geographic Location

<div style="text-align: right">

Pos: 190   **Max: 1**
Heading - Optional
Loop: N1   **Elements: 6**

</div>

Loop Path: 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 Optional
		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 Optional
		Description: Code identifying the country				

Syntax Rules:

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

Comments:

1. The presence of N4 is based upon customer and carrier preference; please contact Infor Nexus Professional Services for details.
2. Within each N1 Loop, if an N4 segment is included Infor Nexus will accept up to 2 N3 segments (1st N301 and N302, 2nd N301) accounting for 3 lines of data and the N4 segment accounts for 1 line of data (maximum of 4 lines of data) within the Inbound 304.
3. N402 is required only if city name (N401) is in the U.S. or Canada.

Note 1:

Additional Syntax Notes:
1. If N4 segment is present, then at a minimum N401 (City Name) must be provided.

Note 2:

Sample Segment:
N4*CITYNAME*OH*44509~
N4*CITYNAME*CA*90248*US~

G61   Contact

<div style="float:right">

Pos: 195   **Max: 3**
Heading - Optional
Loop: N1   **Elements: 5**

</div>

Loop Path: N1
User Option (Usage): GTN Optional
Purpose: To identify a person or office to whom communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6101	366	**Contact Function Code**	M	ID	2/2	GTN Required

Description: Code identifying the major duty or responsibility of the person or group named
Information:
IC   Information Contact
RP   Responsible Person

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6102	93	**Name**	M	AN	1/60	GTN Required

Description: Free-form name
Information:
If G6101 = "RP", this information represents responsible person's name, which should be in CAPITAL letters

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6103	365	**Communication Number Qualifier**	X	ID	2/2	GTN Optional

Description: Code identifying the type of communication number
Information:
EM   Electronic Mail
FX   Facsimile
TE   Telephone

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6104	364	**Communication Number**	X	AN	1/80	GTN Optional

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6105	443	**Contact Inquiry Reference**	O	AN	1/20	GTN Optional

Description: Additional reference number or description to clarify a contact number

Syntax Rules:

1. P0304 - If either G6103 or G6104 is present, then the other is required.

Comments:

1. G6103 qualifies G6104.
2. G61 Segment with G6101 = "RP", which is within N1 loop where N101 = "R1", represents the Contact Name (should be all in CAPITAL letters) and Email / Phone for the Verified Gross Weight Party, in support of the changes to the Safety of Life at Sea (SOLAS) treaty.

Note 1:

Additional Syntax Notes:
1. If either G6103 or G6104 is present, then the other is required.
2. G6102 field length of 1/35 is Infor Nexus specific and is different from the EDI standard of 1/60.
3. G6104 field length of 1/60 is Infor Nexus specific and is different from the EDI standard of 1/80.

Note 2:

Sample 1:
G61*IC*CONTACT NAME*EM*CONTACT@EMAIL.COM~
G61*IC*CONTACT NAME*FX*111-222-3333~
G61*IC*CONTACT NAME*TE*111-222-3334~

Sample 2 - G61 segment for the Verified Gross Weight (SOLAS Requirement):
G61*RP*VGM CONTACT NAME*EM*SHIPPERNAME@SHIPPER.COM
G61*RP*VGM CONTACT NAME*TE*(555) 555-5555

     10/13/2020

Loop Port or Terminal

Pos: 200	**Repeat: 20**
	Optional
Loop: R4	**Elements: N/A**

User Option (Usage): GTN Required
Purpose: Contractual or operational port or point relevant to the movement of the cargo

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
200	R4	Port or Terminal	O	1		GTN Required
210	DTM	Date/Time Reference	O	15		GTN Optional

R4   Port or Terminal

Pos: 200   **Max: 1**
Heading - Optional
Loop: R4   **Elements: 8**

Loop Path: R4
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:

D	*Port of Discharge (Operational)*
	(Port at which cargo is unloaded from vessel)
E	*Place of Delivery (Contractual) (Carrier Destination)*
	(Place at which cargo leaves its care and custody of carrier)
L	*Port of Loading (Operational)*
	(Port at which cargo is loaded on vessel)
N	*Final Destination (Operational)*
	(Consignee's facility at which shipment ends its movement at cargo's expense)
O	*Point of Origin (Operational)*
	(Shipper's facility at which shipment begins its movement at cargo's expense)
Q	*Bill of Lading Origin of Goods (Contractual)*
R	*Place of Receipt (Contractual) (Carrier Pickup)*
	(Place at which cargo enters the care and custody of carrier)
J	*Bill of Lading Port of Loading (Contractual)*
K	*Bill of Lading Port of Discharge (Contractual)*
F	*Freight Payable At (Contractual)*
W	*Bill of Lading Release Office (Operational)*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R402	309	**Location Qualifier**	X	ID	1/2	GTN Optional

Description: Code identifying type of location
Information:
Location Code Qualifier – identifies type of location (Set to 'UN' or 'ZZ')

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R403	310	**Location Identifier**	X	AN	1/30	GTN Optional

Description: Code which identifies a specific location
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
Location Code (UNLOCODE or Infor Nexus code)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R405	26	**Country Code**	O	ID	2/3	GTN Optional

Description: Code identifying the country
Information:
<2 Digit ISO Country Code>

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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. R4 is required for each port to be identified.
2. Four R4 segments are required – one each for R401 = 'D', 'E', 'L', and 'R'. If a customer is unable to provide Place of Delivery 'E' or Place of Receipt 'R', and neither is a Door or Rail move type, then Infor Nexus will copy Port of Load "L" code for R402 and R403 into the Place of Receipt "R" for R402 and R403 as well as copy the Port of Discharge "D" code for R402 and R403 into the Place of Delivery "E" for R402 and R403.
3. R401 values of 'J' and 'K' can be used to specify the contractual bill of lading ports of load and discharge (respectively). Note that in outbound 304 transmissions to carriers, these values are mapped to 'L' and 'D' (respectively).
4. If an R404 location name is not provided in the Inbound 304 message, the location name associated with the R403 location code in the Infor Nexus database will be presented to customers and carriers in both the Infor Nexus Documentation application and in related e-mail notifications. Moreover, an R404 location name will not be sent to the carrier in the Outbound 304 if the customer does not provide it in the Inbound 304.
5. Some carriers allow R404 to be accepted in the stead of R402 & R403 for the place of receipt (R401 = 'R') and place of delivery (R401 = 'E'). Please contact Infor Nexus Professional Services to determine which carriers support this functionality.
6. Bill of Lading Release Office (Operational) information (R401 = 'W') can alternatively be specified using the H302.

Note 1:

Sample Segment:
*R4*O*UN*DEBRV~*
*R4*R*UN*DEBRV*BREMERHAVEN*DE~*
*R4*L*UN*BEANR*ANTWERP*BE~*
*R4*D*UN*USORF*NORFOLK*US***VA~*
*R4*E*UN*USSAV*SAVANNAH*US***GA~*

DTM   **Date/Time Reference**

Loop Path: R4
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:
   095   Request date for bill of lading release.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	X	DT	8/8	GTN Optional

   Description: Date expressed as CCYYMMDD

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. This segment can only follow R401=W, but is not required.

Note 1:

Additional Syntax Notes:
1. At least one of DTM02 or DTM03 is required – EDI condition (both required by Infor Nexus DTM segment).

Note 2:

Sample Segment:
DTM*095*20040714~

K1   **Remarks**

<div style="text-align: right">

Pos: 230   **Max: 8**
Heading - Optional
Loop: N/A   **Elements: 2**

</div>

User Option (Usage): GTN Optional
Purpose: To transmit information in a free-form format for comment or special instruction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
K101	61	**Free-Form Message**	M	AN	1/30	GTN Required
		Description: Free-form information				
K102	61	**Free-Form Message**	O	AN	1/30	GTN Optional
		Description: Free-form information				

Comments:

1. K1 segment repeat of 8 is a Infor Nexus requirement and is different from the EDI max. of 12.
2. In order to take advantage of more than 8 lines of comments, Infor Nexus recommends that the K1 segment within the L3 Loop be utilized instead.

Note 1:

Sample Segment:
K1*THESE ARE THE K1 REMARKS FOR T*HIS 304 MESSAGE. K101 AND K10~
K1*2 EACH SUPPORT UP TO 30 CHARAC*TERS OF DATA AND THERE ARE A T~
K1*OTAL OF 8 K1 SEGMENTS ALLOWED *PER INBOUND 304 TO GT NEXUS.~
K1*THESE ARE FREE FORM MESSAGE FI*ELDS~

H3 **Special Handling Instructions**

Pos: 250   **Max: 2**
Heading - Optional
Loop: N/A   **Elements: 5**

User Option (Usage): GTN Optional
Purpose: To specify special handling instructions in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
H301	152	**Special Handling Code**	X	ID	2/3	GTN Optional

Description: Code specifying special transportation handling instructions
Information:
CTL   Controlled Atmosphere
MAT   Modified Atmosphere

Ref	Id	Element Name	Req	Type	Min/Max	Usage
H302	153	**Special Handling Description**	X	AN	2/30	GTN Optional

Description: Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate

Syntax Rules:

1. E0102 - Only one of H301 or H302 may be present.

Note 1:

Sample Segment:
*H3*CTL~*
*H3**SPECIAL HANDLING INSTRUCTIONS~*

Loop Certifications and Clauses

<table>
<tr><td>Pos: 290</td><td>Repeat: 20</td></tr>
<tr><td colspan="2" align="center">Optional</td></tr>
<tr><td>Loop: C8</td><td>Elements: N/A</td></tr>
</table>

User Option (Usage): GTN Optional
Purpose: To specify applicable certifications and clauses

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
290	C8	Certifications and Clauses	O	1		GTN Optional

C8   Certifications and Clauses

<div>

Pos: 290   **Max: 1**
Heading - Optional
Loop: C8   **Elements: 4**

</div>

Loop Path: C8
User Option (Usage): GTN Optional
Purpose: To specify applicable certifications and clauses

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
C802	246	**Certification/Clause Code**	X	ID	2/4	GTN Optional

Description: Code identifying certification/clause information

Information:

THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT

01	*Shipper's Load and Count*
03	*Laden on Board*
04	*Laden on Board Vessel*
09	*Sea Waybill*
11	*Memo Bill of Lading Only*
17	*Freight Prepaid*
18	*Freight Collect*
20	*US SED Flag – must supply C803*
	(see comments section above for details on C802 = '20' usage)
22	*On Board Rail*
24	*On Board Vessel*
25	*Received For Shipment*
34	*Laden on Board Named Vessel*
CC	*Custom (see comments section above for details on C802 = 'CC' usage)*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
C803	247	**Certification/Clause Text**	X	AN	2/60	GTN Optional

Description: Free-form description of commercial invoice certification/clause

Syntax Rules:

1. R0302 - At least one of C803 or C802 is required.

Comments:

1. If C802 = '20', C803 is required and should be set to the relevant AES number.
2. If C802 = 'CC', C803 is required. This clause value is used for the following two purposes: 1) set C803 = 'Clause Not Required' if the carrier does not require a certification clause, and 2) set C803 = <custom certification clause text> if the proper certification clause is not available from the list of C802 values below and the customer wishes to use its own certification clause text.
3. Multiple C8 segment support is possible on a per carrier basis; please contact Infor Nexus Professional Services for details.
4. There are additional C802 Certification/Clause Code information supported that are not included in the list below; please contact Infor Nexus Professional Services if any questions about unlisted C802 Clause Code values.

Note 1:

Additional Syntax Notes:
1. C803 may be provided if the submitter would like to override the standard certification clause description.

Note 2:

Sample Segment:
C8**20*X20020410013218~
C8**24~
C8**03*LADEN ON BOARD~
C8**04*LADEN ON BOARD VESSEL~
C8**25*RECEIVED FOR SHIPMENT
C8**34~

Loop Assigned Number

Pos: 010	**Repeat: 999**
	Optional
Loop: LX	**Elements: N/A**

User Option (Usage): GTN Required
Purpose: To reference a line number in a transaction set

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	LX	Assigned Number	O	1		GTN Optional
020	Y2	Container Details	O	10		GTN Optional
030		Loop N7	O		999	GTN Required
170		Loop L0	O		120	GTN Required

LX   **Assigned Number**

Pos: 010	**Max: 1**
Detail - Optional	
Loop: LX	**Elements: 1**

Loop Path: LX
User Option (Usage): GTN Optional
Purpose: To reference a line number in a transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LX01	554	**Assigned Number**	M	N0	1/6	GTN Required

Description: Number assigned for differentiation within a transaction set
Information:
<Bill of Lading line item number>

Note 1:

Sample Segment:
*LX*1~*

Y2   Container Details

<table>
<tr><td>Pos: 020</td><td>Max: 10</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: LX</td><td>Elements: 10</td></tr>
</table>

Loop Path: LX
User Option (Usage): GTN Optional
Purpose: To specify container information and transportation service to be used

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
Y201	95	**Number of Containers**	M	N0	1/4	GTN Required

Description: Number of shipping containers
Information:
Set to '9999'

Ref	Id	Element Name	Req	Type	Min/Max	Usage
Y203	56	**Type of Service Code**	O	ID	2/2	GTN Optional

Description: Code specifying extent of transportation service requested
Information:
HH	*Shipper/Forwarder loading at origin and Consignee/Broker unloading at destination*
HP	*Shipper/Forwarder loading at origin and Carrier (CFS) unloading at destination*
PH	*Carrier (CFS) loading at origin and Consignee/Broker unloading at destination*
PP	*Carrier (CFS) loading at origin and Carrier (CFS) unloading at destination*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
Y204	24	**Equipment Type**	M	ID	4/4	GTN Required

Description: Code identifying equipment type
Information:
Set to any valid equipment type – Infor Nexus ignores Y204. Valid equipment types are identified below.
22GP	*20' Standard Dry*
42GP	*40' Standard Dry*
45GP	*40' High Cube Dry*
L5GP	*45' High Cube Dry*
M5GP	*48' High Cube Dry*
22RE	*20' Reefer*
42RE	*40' Reefer*
45RE	*40' High Cube Reefer*
22PL	*20' Flat Rack*
42PL	*40' Flat Rack*
22UT	*20' Open Top*
42UT	*40' Open Top*
22HR	*20' Non-Operating Reefer*
42HR	*40' Non-Operating Reefer*
L5HR	*40' High Cube Non-Operating Reefer*

Semantics:

1. The Y201 and Y204 data elements are present because they are required by EDI. Infor Nexus ignores these data elements.

Comments:

1. Y203 is used to denote CFS move types.
2. A single Y2 segment should be included in the first instance of the LX loop only in order to denote a CFS move type. Any Y2 segments included in subsequent iterations of the LX loop will be ignored.

Note 1:

Sample Segment:
*Y2*9999***42RE~*

Loop Equipment Details

Pos: 030	**Repeat: 999**
Optional	
Loop: N7	**Elements: N/A**

Loop Path: LX
User Option (Usage): GTN Required
Purpose: To identify the equipment

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>
030	N7	Equipment Details	O	1		GTN Required
035	QTY	Quantity	O	1		GTN Optional
050	M7	Seal Numbers	O	1		GTN Optional
060	W09	Equipment and Temperature	O	1		GTN Optional
135		Loop H1	O		10	GTN Optional
140		Loop LH1	O		100	GTN Optional

N7   **Equipment Details**

<table>
<tr><td>Pos: 030</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: N7</td><td>Elements: 24</td></tr>
</table>

Loop Path: LX-N7
User Option (Usage): GTN Required
Purpose: To identify the equipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N701	206	**Equipment Initial**	O	AN	1/4	GTN Optional

Description: Prefix or alphabetic part of an equipment unit's identifying number
Information:
(optional for container prefix; conditionally required if Break Bulk or RoRo shipment)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N702	207	**Equipment Number**	M	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:
Container Number. Set to '-999999' if not known.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N703	81	**Weight**	X	R	1/10	GTN Optional

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N704	187	**Weight Qualifier**	X	ID	1/2	GTN Optional

Description: Code defining the type of weight
Information:
G   Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N705	167	**Tare Weight**	X	N0	3/8	GTN Optional

Description: Weight of the equipment
Information:
In order to satisfy the Safety of Life at Sea (SOLAS) treaty requirements, Infor Nexus is using the element N705 - Tare Weight to represent the Verified Gross Weight. The element N716, which is per X12 standard paired with N705, is used to convey the Verification Method information (see also the comment for N716 element)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N708	183	**Volume**	X	R	1/8	GTN Optional

Description: Value of volumetric measure

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N709	184	**Volume Unit Qualifier**	X	ID	1/1	GTN Optional

Description: Code identifying the volume unit
Information:
E   Cubic Feet
X   Cubic Meters

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N716	571	**Tare Qualifier Code**	X	ID	1/1	GTN Optional

Description: Code identifying the type of tare
Information:
A non-standard usage of this element conveys information about the gross weight Verification method, one of the requirements of the Safety of Life at Sea (SOLAS) treaty - see also the comment for N705, a paired element to N716. If N705 is present, and the verification method is not known, the default value should be "M" - "Calculated".

Code	Name
A	Actual
M	Calculated

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N717	188	**Weight Unit Code**	O	ID	1/1	GTN Optional

Description: Code specifying the weight unit
Information:

		E *Metric Tons* *K* *Kilograms* *L* *Pounds* *S* *Short Ton* *T* *Long Ton*				
N718	761	**Equipment Number Check Digit**	O	N0	1/1	GTN Optional

Description: Number which designates the check digit applied to a piece of equipment

N722	24	**Equipment Type**	O	ID	4/4	GTN Optional

Description: Code identifying equipment type

Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
22GP   20' Standard Dry
42GP   40' Standard Dry
L2GP   45' Standard Dry
M2GP   48' Standard Dry
P2GP   53' Standard Dry
25GP   20' High Cube Dry
45GP   40' High Cube Dry
L5GP   45' High Cube Dry
M5GP   48' High Cube Dry
P5GP   53' High Cube Dry
22RE   20' Reefer
42RE   40' Reefer
L5RE   45' High Cube Reefer
45RE   40' High Cube Reefer
22PL   20' Flat Rack
42PL   40' Flat Rack
22UT   20' Open Top
42UT   40' Open Top
22TN   20' Tank
42TN   40' Tank
22HR   20' Non-Operating Reefer
42HR   40' Non-Operating Reefer
45HR   40' High Cube Non Operating Reefer
L5HR   40' High Cube Non-Operating Reefer
9V13   45' Trailer
9V17   48' Trailer
9V24   53' Trailer
9V05   45' Insulated Trailer
4F09   40' Flatbed Trailer
9F25   45' Flatbed Trailer
4F06   40' Expandable Flatbed
9F18   45' Expandable Flatbed
LS40   40' Low Boy Flatbed
LF60   45' Low Boy Flatbed
4T01   40' Tank Trailer
22RD   20' Dual Reefer
22GH   20' Standard GOH
42GH   40' Standard GOH
L2GH   45' Standard GOH
45GH   40' High Cube GOH
L5GH   45' High Cube GOH
M5GH   48' High Cube GOH
22BK   20' Bulk pressurized
22BU   20' Bulk non-pressurized
22PC   20' Flat Rack Collapsible
22TD   20' Isotank dangerous liquid
22TG   20' Isotank Gas
22VH   20' Vented
42BU   40' Bulk non-pressurized

Syntax Rules:

1. P0304 - If either N703 or N704 is present, then the other is required.
2. P0516 - If either N705 or N716 is present, then the other is required.
3. P0809 - If either N708 or N709 is present, then the other is required.

Comments:

1. N701 is mandatory for rail transactions.

Note 1:

Additional Syntax Notes:
1. If N703 is present, then N717 is required. This conditionality is an Infor Nexus requirement, not an EDI requirement.
2. N702 field length of 1/6 is Infor Nexus specific and is different from the EDI standard of 1/10.
3. If either N708 or N709 is present, then the other is required.
4. For Break Bulk and RoRo shipments a 4 char Prefix (N701), 1 to 6 char Number (N702) and Check Digit (N718) are required, and each N7 must have a unique combination of N701 + N702 + N718 if more than one Break Bulk or RoRo LX/N7 Loop exists.

Note 2:

Sample 1:
N7*HJSC*123456*13227*G****125*E********L*1****42RE~

Sample 2 - Segment for the Verified Gross Weight (SOLAS requirement) - values for both, non-verified and verified, are present:
N7*HJSC*123456*25000*G*30000***********A*K*****42RE~

QTY **Quantity**

<table>
<tr><td>**Pos: 035**</td><td>**Max: 1**</td></tr>
<tr><td colspan="2">**Detail - Optional**</td></tr>
<tr><td>**Loop: N7**</td><td>**Elements: 4**</td></tr>
</table>

Loop Path: LX-N7
User Option (Usage): GTN Optional
Purpose: To specify quantity information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
QTY01	673	**Quantity Qualifier**	M	ID	2/2	GTN Required

Description: Code specifying the type of quantity
Information:
39   Shipped Quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
QTY02	380	**Quantity**	X	R	1/15	GTN Optional

Description: Numeric value of quantity
Information:
Container Piece Count

Ref	Id	Element Name	Req	Type	Min/Max	Usage
QTY03	C001	**Composite Unit of Measure**	O	Comp		GTN Optional

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
QTY03-01	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:

BG   Bag
BA   Bale
BF   Board Feet
BR   Barrel
BE   Beam
2W   Bin
BO   Bottle
BX   Box
BN   Bulk
BD   Bundle
CN   Can
CB   Carboy
CT   Carton
CA   Case
Z3   Cask
CX   Coil
CJ   Cone
CH   Container
CP   Crate
CL   Cylinder
DR   Drum
JR   Jar
KE   Keg
KT   Kit
LS   Loose
PH   Packed
PK   Package
PK   Parcel
PA   Pail
PF   Pallet (Lift)
PC   Piece
RA   Rack

RE	*Reel*
RL	*Roll*
SJ	*Sack*
SH	*Sheet*
SV	*Skid*
SO	*Spool*
TK	*Tank*
TE	*Tote Bin*
TY	*Tray*
TB	*Tube*
UN	*Unit*
NV	*Vehicle*

Syntax Rules:

1. R0204 - At least one of QTY02 or QTY04 is required.
2. E0204 - Only one of QTY02 or QTY04 may be present.

Semantics:

1.

Comments:

1. QTY03 is the container package type

Note 1:

Additional Syntax Notes:
1. At least one of QTY02 or QTY04 is required (Infor Nexus supports QTY02 only).
2. Only one of QTY02 or QTY04 may be present (Infor Nexus supports QTY02 only).

Note 2:

Sample Segment:
QTY*39*15*PC~

M7   **Seal Numbers**

<div style="float:right">

Pos: 050   **Max: 1**
Detail - Optional
Loop: N7   **Elements: 5**

</div>

Loop Path: LX-N7
User Option (Usage): GTN Optional
Purpose: To record seal numbers used and the organization that applied the seals

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
M701	225	**Seal Number**	M	AN	2/15	GTN Required
		Description: Unique number on seal used to close a shipment				
M702	225	**Seal Number**	O	AN	2/15	GTN Optional
		Description: Unique number on seal used to close a shipment				

Comments:

1. The M7 maximum usage of 1 is an Infor Nexus requirement (different from the EDI max. of 5)
2. Although not enforced by Infor Nexus, if you are using the carrier to submit House Bill/Manifest details to US Customs' AMS for US bound shipments, you must include at least one seal number per container.

Note 1:

Sample Segment:
*M7*552552*8839393~*

W09   Equipment and Temperature

Pos: 060	**Max: 1**
Detail - Optional	
Loop: N7	**Elements: 9**

Loop Path: LX-N7
User Option (Usage): GTN Optional
Purpose: To relate equipment type and required temperatures

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
W0901	40	**Equipment Description Code**	M	ID	2/2	GTN Required

Description: Code identifying type of equipment used for shipment
Information:
CZ   Refrigerated Container
GS   Generator Set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
W0902	408	**Temperature**	X	R	1/4	GTN Optional

Description: Temperature
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
Minimum Temperature.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
W0903	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:
CE   Centigrade, Celsius
FA   Fahrenheit

Ref	Id	Element Name	Req	Type	Min/Max	Usage
W0904	408	**Temperature**	X	R	1/4	GTN Optional

Description: Temperature
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
Maximum Temperature.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
W0905	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:
CE   Centigrade, Celsius
FA   Fahrenheit

Ref	Id	Element Name	Req	Type	Min/Max	Usage
W0907	1122	**Vent Setting Code**	O	ID	1/1	GTN Optional

Description: Code describing the setting on the air vents on ocean-type containers
Information:
A   Vent 25% Open
B   Vent 50% Open
C   Vent 75% Open
D   Vent 100% Open
E   Closed
Z   Carrier to Set Based on Commodity Type

Ref	Id	Element Name	Req	Type	Min/Max	Usage
W0908	488	**Percent**	O	N0	1/3	GTN Optional

Description: Percent expressed as 0 to 100
Information:
Percent Humidity.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
W0909	380	**Quantity**	O	R	1/15	GTN Optional

Description: Numeric value of quantity
Information:
Air Exchange quantity.

Syntax Rules:

1. P0203 - If either W0902 or W0903 is present, then the other is required.
2. P0405 - If either W0904 or W0905 is present, then the other is required.

Semantics:

1. W0902 is the minimum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0903).
2. W0904 is the maximum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0905).
3. W0908 is the humidity percentage.
4. W0909 is the number of air exchanges per hour.

Comments:

1. The W09 segment is used only for refrigerated containers.

Note 1:

Sample Segment:
*W09*CZ*6*CE*12*CE**E*5*1~*

Loop Hazardous Material

Pos: 135	**Repeat: 10**
Optional	
Loop: H1	**Elements: N/A**

Loop Path: LX-N7
User Option (Usage): GTN Optional
Purpose: To specify information relative to hazardous material

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
135	H1	Hazardous Material	O	1		GTN Optional
137	H2	Additional Hazardous Material Description	O	4		GTN Optional

H1 Hazardous Material

<table>
<tr><td colspan="2">Pos: 135</td><td>Max: 1</td></tr>
<tr><td colspan="3">Detail - Optional</td></tr>
<tr><td>Loop: H1</td><td></td><td>Elements: 9</td></tr>
</table>

Loop Path: LX-N7-H1
User Option (Usage): GTN Optional
Purpose: To specify information relative to hazardous material

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
H101	62	**Hazardous Material Code**	M	AN	4/10	GTN Required
		Description: Code relating to hazardous material code qualifier for regulated hazardous materials				
H102	209	**Hazardous Material Class Code**	O	AN	1/4	GTN Optional
		Description: Code specifying the kind of hazard for a material				
H103	208	**Hazardous Material Code Qualifier**	O	ID	1/1	GTN Optional
		Description: Code which qualifies the Hazardous Material Class Code (209) **Information:** *Set to 'I' – Intergovernmental Maritime Organization (IMO) Code*				
H104	64	**Hazardous Material Description**	O	AN	2/30	GTN Optional
		Description: Material name, special instructions, and phone number if any				
H105	63	**Hazardous Material Contact**	O	AN	1/24	GTN Optional
		Description: Phone number and name of person or department to contact in case of emergency				
H107	77	**Flashpoint Temperature**	X	N	1/3	GTN Optional
		Description: The flashpoint temperature for hazardous material				
H108	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:** *CE Centigrade, Celsius* *FA Fahrenheit*				
H109	254	**Packing Group Code**	O	ID	1/3	GTN Optional
		Description: Code indicating degree of danger in terms of Roman number I, II or III				

Syntax Rules:

1. P0708 - If either H107 or H108 is present, then the other is required.

Comments:

1. This segment is required when the shipment contains hazardous material.
2. H107 is the lowest temperature for hazardous materials.
3. If 'FA' is used in H108, Infor Nexus will convert the value in H107 to Celsius in the outbound 304 to carriers (H108 = 'CE' in outbound 304).
4. Infor Nexus supports proper shipping names (H104 Hazardous Material Description) of 60 characters. However, EDI limits the length of H104 to 30 characters. Characters 31-60 of the proper shipping name will be read from positions 1-30 of H201 where H202 = 'PNC'.

Note 1:

Sample Segment:
H1*28131*423*I*MATERIAL DESCRIPTION - 30CHARS*CONTACT INFO - 24 CHARS.**10*CE*II~

H2

Additional Hazardous Material Description

Pos: 137   **Max: 4**
Detail - Optional
Loop: H1   **Elements: 2**

Loop Path: LX-N7-H1
User Option (Usage): GTN Optional
Purpose: To specify free-form hazardous material descriptive data in addition to the information provided in the H1 segment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
H201	64	**Hazardous Material Description**	M	AN	2/30	GTN Required
		Description: Material name, special instructions, and phone number if any				
H202	274	**Hazardous Material Classification**	O	AN	1/30	GTN Optional

Description: Free-form description of hazardous material classification or division or label requirements
Information:
NEC	*Net Explosive Content*
TEC	*Technical Name (if proper name is 'NOS')*
SCC	*IMO Subsidiary Class Code*
PNC	*Proper Name Continued*

Comments:

1. H202 values are Infor Nexus-defined, not EDI-defined.
2. An H2 segment with H202 = 'PNC' serves to allow for the addition of 30 characters (60 total) to the proper shipping name (H104) which is currently limited to 30 characters by EDI.
3. Like the IMO Class Code (H102), the IMO Subsidiary Class Code (H201 where H202 = 'SCC') carries a min/max length of 1/4. Please treat the min/max length of H201 as 1/4 rather than 2/30 when H202 = 'SCC'.

Note 1:

Additional Syntax Notes:
1. H202 qualifies H201 (Infor Nexus requirement – not an EDI requirement).
2. If either H201 or H202 is present, then the other is required.

Note 2:

Sample Segment:
H2*MATERIAL DESCRIPTION CONTINUED*PNC~
H2*NET EXPLOSIVE CONTENT*NEC~
H2*TECHNICAL NAME*TEC~
H2*1111*SCC~

Loop Hazardous Identification Information

Pos: 140	**Repeat: 100**
	Optional
Loop: LH1	**Elements: N/A**

Loop Path: LX-N7
User Option (Usage): GTN Optional
Purpose: To specify the hazardous commodity identification reference number and quantity

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
140	LH1	Hazardous Identification Information	O	1		GTN Optional
141	LH2	Hazardous Classification Information	O	3		GTN Optional
143	LFH	Freeform Hazardous Material Information	O	4		GTN Optional

LH1

Hazardous Identification Information

Loop Path: LX-N7-LH1
User Option (Usage): GTN Optional
Purpose: To specify the hazardous commodity identification reference number and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH101	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:
Set to 'ZZ' – Mutually defined

LH102	80	**Lading Quantity**	M	N0	1/7	GTN Required

Description: Number of units (pieces) of the lading commodity
Information:
Set to '999'

LH109	665	**Residue Indicator Code**	O	ID	1/1	GTN Optional

Description: Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded
Information:
P   Residue Last Contained Description (Packages)

Comments:

1. LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements (these data elements are not used by Infor Nexus and are present only because the EDI standard requires them).
2. In LH109, a value of "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Note 1:

Sample Segment:
LH1*ZZ*999*******P~

LH2

Hazardous Classification Information

Pos: 141   **Max: 3**
Detail - Optional
Loop: LH1   **Elements: 11**

Loop Path: LX-N7-LH1
User Option (Usage): GTN Optional
Purpose: To specify the hazardous notation and endorsement information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH201	215	**Hazardous Classification**	O	ID	1/30	GTN Optional

Description: The hazardous classification corresponding to the shipping name of the hazardous commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH202	983	**Hazardous Class Qualifier**	O	ID	1/1	GTN Optional

Description: Code qualifying hazardous class
Information:
P   *Primary*
S   *Secondary*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH205	759	**Reportable Quantity Code**	O	ID	2/2	GTN Optional

Description: Code to identify presence of hazardous substance
Information:
RQ   *Reportable Quantity (Set to 'RQ' to identify reportable quantity as 'YES')*

Syntax Rules:

1. P0607 - If either LH206 or LH207 is present, then the other is required.
2. P0809 - If either LH208 or LH209 is present, then the other is required.
3. P1011 - If either LH210 or LH211 is present, then the other is required.

Comments:

1. If LH201 or LH202 is present, then LH205 is not allowed (Infor Nexus requirement)
2. If LH205 is present, then neither LH201 nor LH202 is allowed (Infor Nexus requirement)
3. To set reportable quantity to 'YES', include an LH2 segment with LH205 = 'RQ'

Note 1:

Sample Segment:
LH2*PRIMARY*P~
LH2*SECONDARY*S~
LH2*****RQ~

LFH

Freeform Hazardous Material Information

Pos: 143   **Max: 4**
Detail - Optional
Loop: LH1   **Elements: 7**

Loop Path: LX-N7-LH1
User Option (Usage): GTN Optional
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LFH01	808	**Hazardous Material Shipment Information Qualifier**	M	ID	3/3	GTN Required

Description: Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements

Information:
LQY   *"Limited Quantity" Declaration*
MPI   *Marine Pollutant*
MFA   *Medical First Aid Guide (MFAG) Page Number*
EMS   *Emergency Schedule (EMS) Page Number*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LFH02	809	**Hazardous Material Shipment Information**	M	AN	1/25	GTN Required

Description: Specific information required by law for hazardous material shipments
Information:
Set to '1'

Syntax Rules:

1. P0506 - If either LFH05 or LFH06 is present, then the other is required.

Note 1:

Sample Segment:
LFH*MFA*1~
LFH*MPI*1~
LFH*EMS*1~
LFH*LQY*1~

Loop Line Item - Quantity and Weight

Pos: 170	**Repeat: 120**
Optional	
Loop: L0	**Elements: N/A**

Loop Path: LX
User Option (Usage): GTN Required
Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
170	L0	Line Item - Quantity and Weight	O	1		GTN Required
176	QTY	Quantity	O	5		GTN Optional
185	L5	Description, Marks and Numbers	O	999		GTN Required
195	N9	Reference Identification	O	100		GTN Optional
270		Loop H1	O		10	GTN Optional
290		Loop LH1	O		1	GTN Optional
380		Loop N1	O		10	GTN Optional

L0   **Line Item - Quantity and Weight**

<table>
<tr><td>Pos: 170</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: L0</td><td>Elements: 15</td></tr>
</table>

Loop Path: LX-L0
User Option (Usage): GTN Required
Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L001	213	**Lading Line Item Number**	O	N0	1/3	GTN Optional

Description: Sequential line number for a lading item
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L004	81	**Weight**	X	R	1/10	GTN Optional

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L005	187	**Weight Qualifier**	X	ID	1/2	GTN Optional

Description: Code defining the type of weight
Information:
G   Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L006	183	**Volume**	X	R	1/8	GTN Optional

Description: Value of volumetric measure

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L007	184	**Volume Unit Qualifier**	X	ID	1/1	GTN Optional

Description: Code identifying the volume unit
Information:
E   Cubic Feet
X   Cubic Meters
F   Board Feet

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L008	80	**Lading Quantity**	X	N0	1/7	GTN Optional

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L009	211	**Packaging Form Code**	X	ID	3/3	GTN Optional

Description: Code for packaging form of the lading quantity
Information:
AMM   Ammo Pack
BAG   Bag
BAL   Bale
BSK   Basket
BBL   Barrel
BDL   Bundle
BEM   Beam
BIN   Bin
BKG   Bulk Bag
BLK   Bulk
BOT   Bottle
BOX   Box
BXI   Box with inner container
CAN   Can
CAG   Cage
CAS   Case
CBC   Containers of Bulk Cargo
CBY   Carboy
CHS   Chest
CNA   Household Goods

		CNT	*Container*			
		COL	*Coil*			
		CON	*Cones*			
		CRD	*Cradled*			
		CRT	*Crate*			
		CSK	*Cask*			
		CTN	*Carton*			
		CYL	*Cylinder*			
		DRM	*Drum*			
		FIR	*Firkin*			
		FSK	*Flask*			
		GOH	*Garments on Hangers*			
		HPR	*Hamper*			
		HGH	*Hogshead*			
		JAR	*Jar*			
		KEG	*Keg*			
		KIT	*Kit*			
		LIF	*Lifts*			
		LOG	*Log*			
		LSE	*Loose*			
		MXD	*Mixed Type Pack*			
		PAL	*Pail*			
		PCK	*Packed*			
		PCS	*Pieces*			
		PKG	*Package*			
		PKG	*Parcel*			
		PLN	*Pipeline*			
		PLT	*Pallet*			
		RCK	*Rack*			
		REL	*Reel*			
		ROL	*Roll*			
		SAK	*Sack*			
		SET	*Set*			
		SHT	*Sheet*			
		SKD	*Skid*			
		SLP	*Slip*			
		SPL	*Spool*			
		TBE	*Tube*			
		TBN	*Tote Bin*			
		TNK	*Tank*			
		TRC	*Tierce*			
		TRI	*Triwall Box*			
		TRY	*Tray*			
		UNP	*Unpacked*			
		UNT	*Units*			
		VEH	*Vehicles*			
		WHE	*On Own Wheel*			
		WRP	*Wrapped*			

L010	458	**Dunnage Description**		O	AN	2/25	GTN Optional

Description: Material used to protect lading

L011	188	**Weight Unit Code**		O	ID	1/1	GTN Optional

Description: Code specifying the weight unit
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT (required qualifier of L004)
E   Metric Ton
K   Kilograms
L   Pounds
S   Short Ton
T   Long Ton

Syntax Rules:

1. P0203 - If either L002 or L003 is present, then the other is required.
2. P0405 - If either L004 or L005 is present, then the other is required.
3. P0607 - If either L006 or L007 is present, then the other is required.
4. P0809 - If either L008 or L009 is present, then the other is required.
5. C1104 - If L011 is present, then L004 is required.
6. P1315 - If either L013 or L015 is present, then the other is required.

Comments:

1. If more than one L0 loop is present in the same LX loop, then it is assumed that more than one commodity is being shipped in a single container and that a single N7 loop is present in the same LX loop (one container with more than one commodity being shipped within).
2. For customers who are unable to supply the correct Packaging Form Code within L009, Infor Nexus will map the appropriate Packaging Form Code to the Outbound 304 L009, based upon predetermined free form text supplied by the customer within the Inbound L010. Please contact Infor Nexus Professional Services for details.

Note 1:

Additional Syntax Notes:
The presence of L010 is based upon customer preference; please contact Infor Nexus Professional Services for details.

Note 2:

Sample Segment:
*L0*1***13227*G*1000*E*1*PCS**L~*

QTY Quantity

Pos: 176 **Max: 5**
Detail - Optional
Loop: L0 **Elements: 4**

Loop Path: LX-L0
User Option (Usage): GTN Optional
Purpose: To specify quantity information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
QTY01	673	**Quantity Qualifier**	M	ID	2/2	GTN Required

Description: Code specifying the type of quantity
Information:
39   Shipped Quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
QTY04	61	**Free-Form Message**	X	AN	1/30	GTN Optional

Description: Free-form information
Information:
THIS IS AN INFOR NEXUS REQUIRED FIELD
Container Quantity (number of containers for quantity)

Syntax Rules:

1. R0204 - At least one of QTY02 or QTY04 is required.
2. E0204 - Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

Comments:

1. For customers who do not support QTY04 within the LX/L0/QTY loop, for each unique LX (container) the number of containers and type will be calculated for QTY04 within the Outbound 304 message (e.g.: QTY04 = 1x20' represents container count of 1, for a 20' container). Please contact Infor Nexus Professional Services for details.

Note 1:

Additional Syntax Notes:
QTY04 field length of 1/8 is Infor Nexus specific and is different from the EDI standard of 1/30.

Note 2:

Sample Segment:
*QTY*39***1x42 RE~*

L5   Description, Marks and Numbers

Loop Path: LX-L0
User Option (Usage): GTN Required
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L502	79	**Lading Description**	O	AN	1/50	GTN Optional

Description: Description of an item as required for rating and billing purposes
Information:
THIS IS AN INFOR NEXUS REQUIRED FIELD (in 1st L5 only)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L503	22	**Commodity Code**	X	AN	1/30	GTN Optional

Description: Code describing a commodity or group of commodities

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L504	23	**Commodity Code Qualifier**	X	ID	1/1	GTN Optional

Description: Code identifying the commodity coding system used for Commodity Code
Information:
J   Harmonized System-Based Schedule B
B   U.S. Foreign Trade Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L506	87	**Marks and Numbers**	X	AN	1/48	GTN Optional

Description: Marks and numbers used to identify a shipment or parts of a shipment

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L507	88	**Marks and Numbers Qualifier**	O	ID	1/2	GTN Optional

Description: Code specifying the application or source of Marks and Numbers (87)
Information:
L   Line Item Only

Syntax Rules:

1. P0304 - If either L503 or L504 is present, then the other is required.
2. C0706 - If L507 is present, then L506 is required.
3. P0809 - If either L508 or L509 is present, then the other is required.

Comments:

1. L502 may be used to send quantity information as part of the product description.

Note 1:

Additional Syntax Notes:
1. L502 field length of 1/35 is Infor Nexus specific and is different from the EDI standard of 1/50.
2. L506 field length of 1/15 is Infor Nexus specific and is different from the EDI standard of 1/48.
3. L502 is required by Infor Nexus in the first instance of the L5 segment only and can optionally be included in subsequent L5 segments.

Note 2:

Sample Segment:
*L5**Electrical*8501*J**MARKS & #'S*L~*
*L5**No Solid Wood Packing Materials****MARKS & #'S*L~*
*L5**Lading Desc. - 35 chars****MARKS & #'S*L~*
*L5**No SED Required AES****MARKS & #'S*L~*
*L5**Mixed Metal Scrap****MARKS & #'S*L~*
*L5**General Info****MARKS & #'S*L~*

N9   Reference Identification

Pos: 195	**Max: 100**
Detail - Optional	
Loop: L0	**Elements: 7**

Loop Path: LX-L0
User Option (Usage): GTN Optional
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier**	M	ID	2/3	GTN Required

Description: Code qualifying the Reference Identification
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT
PO   Purchase Order Number
SE   Serial Number
OC   Ocean Container Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N903	369	**Free-form Description**	X	AN	1/45	GTN Optional

Description: Free-form descriptive text

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Comments:

1. N902 should contain the complete container number from N701+N702+N718 when N901 = 'OC' to link commodities to containers; this reference number is not passed within the Outbound 304 to the carrier.
2. Infor Nexus will pass LX/L0 N901 = 'PO' and 'SE' references at position 080 (header) within the Outbound 304 to the carrier, unless otherwise specified; Please contact Infor Nexus Professional Services to determine which carriers support N9 references within the LX /L0 Loop.

Note 1:

Sample Segment:
*N9*PO*PONUMBER~*

Loop Hazardous Material

Pos: 270 **Repeat: 10**
Optional
Loop: H1 **Elements: N/A**

Loop Path: LX-L0
User Option (Usage): GTN Optional
Purpose: To specify information relative to hazardous material

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
270	H1	Hazardous Material	O	1		GTN Optional
280	H2	Additional Hazardous Material Description	O	4		GTN Optional

H1   Hazardous Material

Pos: 270		**Max: 1**
	Detail - Optional	
Loop: H1		**Elements: 9**

Loop Path: LX-L0-H1
User Option (Usage): GTN Optional
Purpose: To specify information relative to hazardous material

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
H101	62	**Hazardous Material Code**	M	AN	4/10	GTN Required
		Description: Code relating to hazardous material code qualifier for regulated hazardous materials				
H102	209	**Hazardous Material Class Code**	O	AN	1/4	GTN Optional
		Description: Code specifying the kind of hazard for a material				
H103	208	**Hazardous Material Code Qualifier**	O	ID	1/1	GTN Optional
		Description: Code which qualifies the Hazardous Material Class Code (209)				
		Information: *Set to 'I' – Intergovernmental Maritime Organization (IMO) Code*				
H104	64	**Hazardous Material Description**	O	AN	2/30	GTN Optional
		Description: Material name, special instructions, and phone number if any				
H105	63	**Hazardous Material Contact**	O	AN	1/24	GTN Optional
		Description: Phone number and name of person or department to contact in case of emergency				
H107	77	**Flashpoint Temperature**	X	N	1/3	GTN Optional
		Description: The flashpoint temperature for hazardous material				
H108	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: *CE Centigrade, Celsius* *FA Fahrenheit*				
H109	254	**Packing Group Code**	O	ID	1/3	GTN Optional
		Description: Code indicating degree of danger in terms of Roman number I, II or III				

Syntax Rules:

1. P0708 - If either H107 or H108 is present, then the other is required.

Comments:

1. This segment is required when the shipment contains hazardous material.
2. H107 is the lowest temperature for hazardous materials.
3. If 'FA' is used in H108, Infor Nexus will convert the value in H107 to Celsius in the outbound 304 to carriers (H108 = 'CE' in outbound 304).
4. Infor Nexus supports proper shipping names (H104 Hazardous Material Description) of 60 characters. However, EDI limits the length of H104 to 30 characters. Characters 31-60 of the proper shipping name will be read from positions 1-30 of H201 where H202 = 'PNC'.

Note 1:

Sample Segment:
*H1*28131*423*I*MATERIAL DESCRIPTION - 30CHARS*CONTACT INFO - 24 CHARS.**10*CE*II~*

H2

Additional Hazardous Material Description

Pos: 280   **Max: 4**
Detail - Optional
Loop: H1   **Elements: 2**

Loop Path: LX-L0-H1
User Option (Usage): GTN Optional
Purpose: To specify free-form hazardous material descriptive data in addition to the information provided in the H1 segment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
H201	64	**Hazardous Material Description**	M	AN	2/30	GTN Required

    Description: Material name, special instructions, and phone number if any

Ref	Id	Element Name	Req	Type	Min/Max	Usage
H202	274	**Hazardous Material Classification**	O	AN	1/30	GTN Optional

    Description: Free-form description of hazardous material classification or division or label requirements

Information:

NEC	Net Explosive Content
TEC	Technical Name (if proper name is 'NOS')
SCC	IMO Subsidiary Class Code
PNC	Proper Name Continued

Comments:

1. H202 values are Infor Nexus-defined, not EDI-defined.
2. An H2 segment with H202 = 'PNC' serves to allow for the addition of 30 characters (60 total) to the proper shipping name (H104) which is currently limited to 30 characters by EDI.
3. Like the IMO Class Code (H102), the IMO Subsidiary Class Code (H201 where H202 = 'SCC') carries a min/max length of 1/4. Please treat the min/max length of H201 as 1/4 rather than 2/30 when H202 = 'SCC'.

Note 1:

Additional Syntax Notes:
1. H202 qualifies H201 (Infor Nexus requirement – not an EDI requirement).
2. If either H201 or H202 is present, then the other is required.

Note 2:

Sample Segment:
H2*MATERIAL DESCRIPTION CONTINUED*PNC~
H2*NET EXPLOSIVE CONTENT*NEC~
H2*TECHNICAL NAME*TEC~
H2*1111*SCC~

Loop Hazardous Identification Information

Pos: 290   **Repeat: 1**
Optional
Loop: LH1   **Elements: N/A**

Loop Path: LX-L0
User Option (Usage): GTN Optional
Purpose: To specify the hazardous commodity identification reference number and quantity

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
290	LH1	Hazardous Identification Information	O	1		GTN Optional
300	LH2	Hazardous Classification Information	O	3		GTN Optional
320	LFH	Freeform Hazardous Material Information	O	4		GTN Optional

LH1

Hazardous Identification Information

Pos: 290   **Max: 1**
Detail - Optional
Loop: LH1   **Elements: 11**

Loop Path: LX-L0-LH1
User Option (Usage): GTN Optional
Purpose: To specify the hazardous commodity identification reference number and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH101	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:
Set to 'ZZ' – Mutually defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH102	80	**Lading Quantity**	M	N0	1/7	GTN Required

Description: Number of units (pieces) of the lading commodity
Information:
Set to '999'

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH109	665	**Residue Indicator Code**	O	ID	1/1	GTN Optional

Description: Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded
Information:
P   Residue Last Contained Description (Packages)

Comments:

1. LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements (these data elements are not used by Infor Nexus and are present only because the EDI standard requires them).
2. In LH109, a value of "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Note 1:

Sample Segment:
LH1*ZZ*999*******P~

LH2 Hazardous Classification Information

Pos: 300   **Max: 3**
Detail - Optional
Loop: LH1   **Elements: 11**

Loop Path: LX-L0-LH1
User Option (Usage): GTN Optional
Purpose: To specify the hazardous notation and endorsement information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH201	215	**Hazardous Classification**	O	ID	1/30	GTN Optional

Description: The hazardous classification corresponding to the shipping name of the hazardous commodity

LH202	983	**Hazardous Class Qualifier**	O	ID	1/1	GTN Optional

Description: Code qualifying hazardous class
Information:
P   Primary
S   Secondary

LH205	759	**Reportable Quantity Code**	O	ID	2/2	GTN Optional

Description: Code to identify presence of hazardous substance
Information:
RQ   Reportable Quantity (Set to 'RQ' to identify reportable quantity as 'YES')

Syntax Rules:

1. P0607 - If either LH206 or LH207 is present, then the other is required.
2. P0809 - If either LH208 or LH209 is present, then the other is required.
3. P1011 - If either LH210 or LH211 is present, then the other is required.

Comments:

1. If LH201 or LH202 is present, then LH205 is not allowed (Infor Nexus requirement)
2. If LH205 is present, then neither LH201 nor LH202 is allowed (Infor Nexus requirement)
3. To set reportable quantity to 'YES', include an LH2 segment with LH205 = 'RQ'

Note 1:

Sample Segment:
LH2*PRIMARY*P~
LH2*SECONDARY*S~
LH2*****RQ~

LFH Freeform Hazardous Material Information

Pos: 320   **Max: 4**
Detail - Optional
Loop: LH1   **Elements: 7**

Loop Path: LX-L0-LH1
User Option (Usage): GTN Optional
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LFH01	808	**Hazardous Material Shipment Information Qualifier**	M	ID	3/3	GTN Required

Description: Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements
Information:
LQY   "Limited Quantity" Declaration
MPI   Marine Pollutant
MFA   Medical First Aid Guide (MFAG) Page Number
EMS   Emergency Schedule (EMS) Page Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LFH02	809	**Hazardous Material Shipment Information**	M	AN	1/25	GTN Required

Description: Specific information required by law for hazardous material shipments
Information:
Set to '1'

Syntax Rules:

1. P0506 - If either LFH05 or LFH06 is present, then the other is required.

Note 1:

Sample Segment:
LFH*MFA*1~
LFH*MPI*1~
LFH*EMS*1~
LFH*LQY*1~

Loop Name

Pos: 380	**Repeat: 10**
Optional	
Loop: N1	**Elements: N/A**

Loop Path: LX-L0
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
380	N1	Name	O	1		GTN Optional
390	N2	Additional Name Information	O	2		GTN Optional
400	N3	Address Information	O	2		GTN Optional
410	N4	Geographic Location	O	1		GTN Optional

N1   **Name**

<table>
<tr><td>**Pos: 380**</td><td>**Max: 1**</td></tr>
<tr><td colspan="2">**Detail - Optional**</td></tr>
<tr><td>**Loop: N1**</td><td>**Elements: 6**</td></tr>
</table>

Loop Path: LX-L0-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:
BT   Bill-to-Party
CN   Consignee (required)
FW   Forwarder
N1   Notify Party no. 1
N2   Also Notify Party (Notify Party no. 2)
N3   Also Notify Party (Notify Party no. 3)
R1   Party to Receive Scale Ticket
SH   Shipper (required)
VI   Contact Person
41   Submitter

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	GTN Optional

Description: Free-form name
Information:
THIS IS AN INFOR NEXUS REQUIRED DATA ELEMENT

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:
Set to 'ZZ' – Mutually defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	GTN Optional

Description: Code identifying a party or other code
Information:
Set to Infor Nexus party code for specified party

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. At least two N1 segments (and therefore N1 loops) are required – one each for N101 = 'CN' and 'SH'.
2. The N1 loop for which N101 = '41' should contain data related to the particular division of the organization submitting the 304 message to a carrier through Infor Nexus. Note that N102 can be up to 60 characters in length for this N101 value per syntax note 2 above.
3. If an N1 loop is not provided for the submitter of the message (N101 = '41'), then Infor Nexus will create this party and set it to the integrated organization (the organization associated with the ISA06 sender ID) before sending the 304 outbound to the carrier.
4. N1 Segments in the N1 loop where N101 = "R1" represent the Verified Gross Weight Party, which is introduced to support the changes to the Safety of Life at Sea (SOLAS) treaty, taking effect on 07/01/2016

Note 1:

Additional Syntax Notes:
1. N102 is required.
2. N102 field length of 1/35 is Infor Nexus specific and is different from the EDI standard of 1/60. However, when N101 = '41' (Submitter), then N102 can be up to 60 characters in length.

3. For N102 field length up to 60 characters are allowable based upon a carrier's ability to support this maximum. Please contact Infor Nexus Professional Services to determine which carriers support this maximum.
4. If either N103 or N104 is present, then the other is required.

Note 2:

Sample 1
*N1*CN*CONSIGNEE NAME~*
*N1*SH*SHIPPER NAME~*

N2   Additional Name Information

<div>

Pos: 390   **Max: 2**
Detail - Optional
Loop: N1   **Elements: 2**

</div>

Loop Path: LX-L0-N1
User Option (Usage): GTN Optional
Purpose: To specify additional names or those longer than 35 characters in length

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name**	M	AN	1/60	GTN Required
		Description: Free-form name				
N202	93	**Name**	O	AN	1/60	GTN Optional
		Description: Free-form name				

Comments:

1. N201 is configurable based upon a carrier's ability to support these segments; please contact Infor Nexus Professional Services to determine which carriers support this functionality.

Note 1:

The N2 segment has a dual purpose:

When N201 IS NOT one of: "UC", "VA", "EI", "GN" , N201 is used to convey LONG NAME information
Sample Segment:
N2*LONG NAME ~
Only one repeat of this N2 segment is allowed.

When N201 IS one of: "UC", "VA", "EI", "GN", the N202 contains a party reference number. It is applicable for the following parties only: Consignee (N101 = CN), Shipper (N101 = "SH") and Notify Party no. 1 (N101 = "N1").
When N201 is "UC", N202 contains Ultimate customer's reference number
When N201 is "VA", N202 contains VAT registration number
When N201 is "EI", N202 contains Employer's identification number
When N201 is "GN", N202 contains Government reference number
Sample Segment:
N2*VA*VATNUMBER ~
Only 1 repeat of this N2 segment (when N201 is one of "UC", "VA", "EI", "GN") is allowed.

N3 Address Information

<table>
<tr><td>Pos: 400</td><td>Max: 2</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 2</td></tr>
</table>

Loop Path: LX-L0-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				

Note 1:

Additional Syntax Notes:
1. N301 and N302 field length of 1/35 is Infor Nexus specific and is different from the EDI standard of 1/55.
2. For N301 and N302 up to 55 characters are allowable based upon a carrier's ability to support this maximum. Please contact Infor Nexus Professional Services to determine support of the maximum allowable characters per carrier.
3. For specific carriers an N4 segment may be provided in addition to the 1st N301, N302, and 2nd N301. Please contact Infor Nexus Professional Services to determine N4 support per carrier.

Note 2:

Sample Segment:
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~

N4   Geographic Location

Pos: 410	**Max: 1**
Detail - Optional	
Loop: N1	**Elements: 6**

Loop Path: LX-L0-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 Optional
		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 Optional
		Description: Code identifying the country				
N405	309	**Location Qualifier**	X	ID	1/2	GTN Optional
		Description: Code identifying type of location				
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. The presence of N4 is based upon customer and carrier preference; please contact Infor Nexus Professional Services for details.
2. Within each N1 Loop, if an N4 segment is included Infor Nexus will accept up to 2 N3 segments (1st N301 and N302, 2nd N301) accounting for 3 lines of data and the N4 segment accounts for 1 line of data (maximum of 4 lines of data) within the Inbound 304.
3. N402 is required only if city name (N401) is in the U.S. or Canada.
4. N402 is required only if city name (N401) is in the U.S. or Canada.

Note 1:

Additional Syntax Notes:
1. If N4 segment is present, then at a minimum N401 (City Name) must be provided.

Note 2:

Sample Segment:
N4*CITYNAME*OH*44509~
N4*CITYNAME*CA*90248*US~

Loop Total Weight and Charges

Pos: 010	**Repeat: 1**
	Optional
Loop: L3	**Elements: N/A**

User Option (Usage): GTN Optional
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	L3	Total Weight and Charges	O	1		GTN Optional
020	PWK	Paperwork	O	50		GTN Optional
044		Loop SAC	O		10	GTN Optional
060	K1	Remarks	O	50		GTN Optional

L3   **Total Weight and Charges**

<table>
<tr><td>Pos: 010</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Summary - Optional</td></tr>
<tr><td>Loop: L3</td><td>Elements: 15</td></tr>
</table>

Loop Path: L3
User Option (Usage): GTN Optional
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L301	81	**Weight**	X	R	1/10	GTN Optional

Description: Numeric value of weight
Information:
Set to '-1'. Only used for 304-guideline compatibility.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L302	187	**Weight Qualifier**	X	ID	1/2	GTN Optional

Description: Code defining the type of weight
Information:
Z   Mutually Defined

Syntax Rules:

1. P0102 - If either L301 or L302 is present, then the other is required.
2. P0304 - If either L303 or L304 is present, then the other is required.
3. P0910 - If either L309 or L310 is present, then the other is required.
4. C1201 - If L312 is present, then L301 is required.
5. P1415 - If either L314 or L315 is present, then the other is required.

Semantics:

1. L3 is not used by Infor Nexus, but L3 is required (L3*-1*Z~ at a minimum) when PWK, SAC and / or K1 segment is present

Note 1:

Sample Segment:
L3-1*Z~*

PWK   Paperwork

Loop Path: L3
User Option (Usage): GTN Optional
Purpose: To identify the type or transmission or both of paperwork or supporting information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK01	755	**Report Type Code**	M	ID	2/2	GTN Required

Description: Code indicating the title or contents of a document, report or supporting item
Information:
BC   Bill of Lading Copy
BO   Bill of Lading Original

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK02	756	**Report Transmission Code**	O	ID	1/2	GTN Optional

Description: Code defining timing, transmission method or format by which reports are to be sent
Information:
PO   Printed

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK03	757	**Report Copies Needed**	O	N0	1/2	GTN Optional

Description: The number of copies of a report that should be sent to the addressee
Information:
THIS IS AN INFOR NEXUS REQUIRED FIELD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK07	352	**Description**	O	AN	1/80	GTN Optional

Description: A free-form description to clarify the related data elements and their content
Information:
Set to 'RATED' for bills that include rate information. Blank for bills that do not include rate information.

Syntax Rules:

1. P0506 - If either PWK05 or PWK06 is present, then the other is required.

Semantics:

1. L3 is required (L3*-1*Z~ at a minimum) when PWK is present.
2. Infor Nexus requires PWK03 in the PWK segment.

Comments:

1. PWK07 may be used to indicate special information to be shown on the specified report.

Note 1:

Sample Segment:
*PWK*BO*PO*3****RATED~*
*PWK*BC*PO*2****Free Form Description -80 characters allowed in this field; Clarify data elements~*

Loop Service, Promotion, Allowance, or Charge Information

Pos: 044	**Repeat: 10**
Optional	
Loop: SAC	**Elements: N/A**

Loop Path: L3
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
044	SAC	Service, Promotion, Allowance, or Charge Information	O	1		GTN Optional

SAC Service, Promotion, Allowance, or Charge Information

Pos: 044   **Max: 1**
Summary - Optional
Loop: SAC   **Elements: 16**

Loop Path: L3-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:
C   Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID	4/4	GTN Optional

Description: Code identifying the service, promotion, allowance, or charge
Information:
Charge Type
C150   Destination Charge
*   Destination Port charges.*
D200   Freight Charges to Destination
*   Destination Haulage charges.*
E890   Ocean Freight
*   Ocean Freight charge*
F050   Other
*   Additional Charges*
H940   Terminal Charge
*   Origin Port Charges.*
TERT   Terminal Handling Charges
*   Origin Haulage charges.*
ZZZZ   Mutually Defined
*   Used to indicate All charges.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC12	331	**Allowance or Charge Method of Handling Code**	O	ID	2/2	GTN Optional

Description: Code indicating method of handling for an allowance or charge
Information:
CC   Collect
PP   Prepaid

Syntax Rules:

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

Semantics:

1. L3 is required (L3*-1*Z~ at a minimum) when SAC is present.

Comments:

1. This segment is only sent in the EDI feed to those carriers expecting the Charge details from their shipper/service provider. If the

shipper/service does not populate the Expected Charge Details, the BL Payment Terms value is sent to the carrier as Basic Freight. In case the shipper/service does not populate the Expected Charge Details, and the BL Payment Terms value is Mixed (B206), this segment is not sent out to the carrier.

Note 1:

Sample Segment:
SAC*C*E890**********CC~

K1   Remarks

Loop Path: L3
User Option (Usage): GTN Optional
Purpose: To transmit information in a free-form format for comment or special instruction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
K101	61	**Free-Form Message**	M	AN	1/30	GTN Required
		Description: Free-form information				
K102	61	**Free-Form Message**	O	AN	1/30	GTN Optional
		Description: Free-form information				

Semantics:

1. L3 is required (L3*-1*Z~ at a minimum) when K1 is present.

Comments:

1. Infor Nexus can send up to 50 K1 segments.
2. In order to take advantage of more than 8 lines of comments, Infor Nexus recommends that the K1 segment within the L3 Loop be utilized.

Note 1:

Sample Segment:
*K1*THESE ARE THE K1 REMARKS FOR T*HIS 304 MESSAGE. K101 AND K10~*
*K1*2 EACH SUPPORT UP TO 30 CHARAC*TERS OF DATA AND THERE ARE A T~*
*K1*OTAL OF 50 K1 SEGMENTS ALLOWED *PER INBOUND 304 TO GT NEXUS.~*
*K1*THESE ARE FREE FORM MESSAGE FI*ELDS; SOME OF THE ADDITIONAL ~*
*K1*INFORMATION MAY INCLUDE:~*
*K1*NO SOLID WOOD PACKING MATERIAL*S~*
*K1*RELAY VESSEL XYZ BELGIUM* 120~*
*K1*PLEASE ISSUE ORIGINAL B/L~*
*K1*PLEASE DO NOT SHOW OCEAN FREIG*HT IN B/L~*
*K1*NO SOLID WOOD PACKING MATERIAL*S~*
*K1*OCF COLLECT~*
*K1*THC PREPAID~*
*K1*SENDER NAME: PLACED HERE~*
*K1*PHONE#:11-22-3456789 FAX#:11-2*2-345~*
*K1*6789~*

SE Transaction Set Trailer

Pos: 080	**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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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.

Note 1:

Sample Segment:
SE*122*000001443~

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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.

Note 1:

Sample Segment:
*GE*1*1443~*

IEA

Interchange Control Trailer

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	N0	1/5	GTN Required

Description: A count of the number of functional groups included in an interchange

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA02	I12	**Interchange Control Number**	M	N0	9/9	GTN Required

Description: A control number assigned by the interchange sender

Note 1:

Sample Segment:
IEA*1*000001469~

Appendix A:

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Appendix B:

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Common Scenarios and Sample Files

1. General Case - Sample Inbound 304 Message
ISA*00*   *00*   *ZZ*SENDERID   *ZZ*GTNEXUS   *021112*1737*U*00401*000001469*0*T*>~
GS*SO*SENDERCODE*GTNEXUS*20021112*1737*1443*X*004010~
ST*304*000001443~
B2*DD*HJSC**SHIPMENTID**CC*B~
N9*BN*BOOKINGNUMBER~
N9*CT*CONTRACTNUMBER~
N9*FN*FORWARDERNUMBER~
N9*HO*SHIPPERHAZARDNUMBER~
N9*KL*CONTRACTREF~
N9*SI*SHIPMENTID~
V1**VESSEL NAME**9988W~
N1*CN*CONSIGNEE NAME~
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~
N1*SH*SHIPPER NAME~
N2*FREE FORM NAME~
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~
N1*VI*CONTACT PERSON~
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~
G61*IC*CONTACT NAME*EM*CONTACT@EMAIL.COM~
G61*IC*CONTACT NAME*FX*000-111-2222~
G61*IC*CONTACT NAME*TE*000-111-2223~
N1*41*SUBMITTER NAME*ZZ*PARTYCODE~
N2*FREE FORM NAME~
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~

```
G61*IC*CONTACT NAME*EM*CONTACT@EMAIL.COM~
G61*IC*CONTACT NAME*FX*111-222-3333~
G61*IC*CONTACT NAME*TE*111-222-3334~
R4*O*UN*DEBRV~
R4*R*UN*DEBRV*BREMERHAVEN*DE~
R4*L*UN*BEANR*ANTWERP*BE~
R4*D*UN*USORF*NORFOLK*US***VA~
R4*E*UN*USSAV*SAVANNAH*US***GA~
K1*THESE ARE THE K1 REMARKS FOR T*HIS 304 MESSAGE.  K101 AND K10~
K1*2 EACH SUPPORT UP TO 30 CHARAC*TERS OF DATA AND THERE ARE A T~
K1*OTAL OF 8 K1 SEGMENTS ALLOWED *PER INBOUND 304 TO GT NEXUS.~
K1*THESE ARE FREE FORM MESSAGE FI*ELDS~
H3*CTL~
H3**SPECIAL HANDLING INSTRUCTIONS~
C8**03*LADEN ON BOARD~
LX*1~
Y2*9999***42RE~
N7*HJSC*123456*13227*G****125*E********L*1****42RE~
QTY*39*15*PC~
M7*552552*8839393~
W09*CZ*6*CE*12*CE**E*5*1~
H1*28131*423*I*MATERIAL DESCRIPTION - 30CHARS*CONTACT INFO - 24 CHARS.**10*CE*II~
H2*MATERIAL DESCRIPTION CONTINUED*PNC~
H2*NET EXPLOSIVE CONTENT*NEC~
H2*TECHNICAL NAME*TEC~
H2*1111*SCC~
LH1*ZZ*999*******P~
LH2*PRIMARY*P~
LH2*SECONDARY*S~
LH2*****RQ~
LFH*MFA*1~
LFH*MPI*1~
LFH*EMS*1~
LFH*LQY*1~
L0*1***13227*G*1000*E*1*PCS**L~
QTY*39***1x42 RE~
L5**Electrical*8501*J**MARKS & #'S*L~
L5**No Solid Wood Packing Materials****MARKS & #'S*L~
L5**Lading Desc. - 35 chars****MARKS & #'S*L~
L5**No SED Required AES****MARKS & #'S*L~
L5**Mixed Metal Scrap****MARKS & #'S*L~
L5**General Info****MARKS & #'S*L~
N9*PO*PONUMBER~
L3*-1*Z~
PWK*BO*PO*3****RATED~
PWK*BC*PO*2****Free Form Description-80 characters allowed in this field; Clarify data elements~
SAC*C*E890**********CC~
SE*74*000001443~
GE*1*1443~
IEA*1*000001469~

2. A sample to illustrate the Safety of Life at Sea (SOLAS) treaty requirements
ISA*00*        *00*        *ZZ*SENDERID       *ZZ*GTNEXUS        *021112*1737*U*00401*000001469*0*T*>~
GS*SO*SENDERCODE*GTNEXUS*20021112*1737*1443*X*004010~
ST*304*000001443~
B2*DD*HJSC**SHIPMENTID**CC*B~
N9*BN*BOOKINGNUMBER~
N9*CT*CONTRACTNUMBER~
N9*FN*FORWARDERNUMBER~
N9*HO*SHIPPERHAZARDNUMBER~
N9*KL*CONTRACTREF~
N9*SI*SHIPMENTID~
```

```
V1**VESSEL NAME**9988W~
N1*CN*CONSIGNEE NAME~
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~
N1*SH*SHIPPER NAME~
N2*FREE FORM NAME~
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~
N1*VI*CONTACT PERSON~
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~
G61*IC*CONTACT NAME*EM*CONTACT@EMAIL.COM~
G61*IC*CONTACT NAME*FX*000-111-2222~
G61*IC*CONTACT NAME*TE*000-111-2223~
N1*41*SUBMITTER NAME*ZZ*PARTYCODE~
N2*FREE FORM NAME~
N3*ADDRESS INFORMATION*BUILDING, STREET, P.O. BOX~
N3*ADDRESS INFORMATION*CITY, STATE, POSTAL CODE~
G61*IC*CONTACT NAME*EM*CONTACT@EMAIL.COM~
G61*IC*CONTACT NAME*FX*111-222-3333~
G61*IC*CONTACT NAME*TE*111-222-3334~
N1*R1*VGM COMPANY NAME~
N3*VGM ADDRESS*VGM ADDRESS1~
N3*VGM ADDRESS2*VGM ADDRESS3~
G61*RP*VGM CONTACT NAME*EM*SHIPPERNAME@SHIPPER.COM~
G61*RP*VGM CONTACT NAME*TE*(555) 555-5555~
R4*O*UN*DEBRV~
R4*R*UN*DEBRV*BREMERHAVEN*DE~
R4*L*UN*BEANR*ANTWERP*BE~
R4*D*UN*USORF*NORFOLK*US***VA~
R4*E*UN*USSAV*SAVANNAH*US***GA~
K1*THESE ARE THE K1 REMARKS FOR T*HIS 304 MESSAGE.  K101 AND K10~
K1*2 EACH SUPPORT UP TO 30 CHARAC*TERS OF DATA AND THERE ARE A T~
K1*OTAL OF 8 K1 SEGMENTS ALLOWED *PER INBOUND 304 TO GT NEXUS.~
K1*THESE ARE FREE FORM MESSAGE FI*ELDS~
H3*CTL~
H3**SPECIAL HANDLING INSTRUCTIONS~
C8**03*LADEN ON BOARD~
LX*1~
Y2*9999***42RE~
N7*HJSC*123456*25000*G*30000**********A*K*****42RE~
QTY*39*15*PC~
M7*552552*8839393~
W09*CZ*6*CE*12*CE**E*5*1~
L0*1***13227*G*1000*E*1*PCS**L~
QTY*39***1x42 RE~
L5**Electrical*8501*J**MARKS & #'S*L~
L3*-1*Z~
PWK*BO*PO*3****RATED~
SE*58*000001443~
GE*1*1443~
IEA*1*000001469~
```

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Appendix C:

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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...
- *Sender ID = Interchange Sender ID ISA06*
- *Receiver ID = Functional Application Receiver ID GS03*
- *Message Type = Functional Identifier Code GS01*
- *Transmission ID = Interchange Control Number ISA13*
- *Trans Date Time = ISA09 + ISA10 + file generation seconds.milliseconds in YYMMDDTHHMMSSms format*
- *EXT = .X12*

For example: SENDERID_CUSTCODE_SO_000001046_20081222T14102926.X12

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Appendix D:

Document History

Version	Date	Author(s)	Summary of Changes
	10/25/02		*Made changes to comments in H1 and H2 to convey the support of 60 characters for H104 (we supported 50 characters for the proper shipping name before).* *- Added 'BM' (BL #) as a valid N901 value.*
	11/19/02		*Added support of a QTY segment in the LX/N7 loop*
	1/9/03		*Added Y2 segment to LX loop in order to support CFS moves*
	1/17/03		*Removed '01' and '02' as valid C802 values*
	2/18/03		*Added 'L2GP' (45' Standard Dry) as a valid N722 value*
	2/28/03		*Changed max. occurrences of the M7 segment from 5 to 1 and added M702 support*
	3/11/03		*Clarified that only 1 L0 loop is allowed per 1 LX loop (not 120)*
	3/24/03		*- Changed max. number of N9 segments (references) from 100 to 30* *- Changed max. number of H3 segments from 6 to 2* *- Added N717 comment regarding metric, long and short ton qualifier usage* *- Added comment regarding M7 usage and removed M701 comment RE value of '-999999'* *- Added B207 value of 'O' (memo BL – 7.3 use)* *- Added C802 value of '11' (memo BL – 7.3 use)*
	3/27/03		*Created a B2 comment concerning*

			inbound 304 updates and the B202 & B204 data elements
	4/3/03		*Added comment that L502 is required by GT Nexus in the first L5 segment only*
	4/14/03		*- Changed H202 = 'SCC' text of "IMDG Subsidiary Class Code" to "IMO Subsidiary Class Code"* *- Removed N1 syntax note #4 regarding N103 and N104 being required for N101 = '41'*
	4/16/03		*- Removed V101 (vessel code) and V108 (vessel code qualifier)* *- Clarified that W0902 (reefer min. temp) and W0904 (reefer max. temp) are required in the W09 segment*
	4/28/03		*- Changed K1 segment repeat from 9 to 8* *- Changed LX/L0 loop repeat from 1 to 120 to allow for multi-commodity shipments (in a single container) per recent enhancement*
	4/30/03		*- Made note that PWK03 is required by GT Nexus if PWK is present* *- Added L5 syntax note RE L506 field length of 15 being different from the EDI standard of 48* *- Clarified that QTY03 is optional in the LX/N7 loop*
	5/22/03		*- Added N1 comments clarifying use of the N1 loop when N101 = '41'* *- Clarified that N301, N302 and LX\L0\QTY04 field lengths are different from the EDI standard*
	5/29/03		*Added 'BKG' (Bulk Bag) as a valid L009 value*
	6/6/03		*Added N901 value of '7U' and related comments (memo BL – 7.3 use)*
	6/11/03		*- Added 'CC' (custom) as a valid C802 value and inserted related comments regarding usage* *- Added R4 comments regarding use of R404*
	6/19/03		*- Clarified that N102 can be up to 60 characters in length when N101 = '41'* *- Added H2 comment regarding min/max length of IMO Subsidiary Class Code*
	8/8/03		*Added support of N903 reference description in header level N9 segment*

	12/15/03		*Modified Semantic Note 3 in the N9 segment concerning manifest detail / house bill usage.*
	12/16/03		*- Added Semantic Note 4, and 'OC' code, to the N9 segment concerning reference in N902 of the complete container number when N901 = 'OC' (Ocean Container Number). (bug 17994)* *- Added Package Form Codes to L009 (bug 17945)* *- Removed reference to "except those that begin with numbers" from the QTY03, of LX/N7 loop, Unit or Basis for Measurement Code element description (since '2W' is a valid data element).*
	12/17/03		*- Added Package Form Codes 'JAR', 'LSE' and 'PCK' to L009.* *- Added N708 (Volume) and N709 (Volume Unit Qualifier) elements; including Syntax Note 4.* *- Removed N717 Weight Unit Code of 'E', 'S' and 'T'.* *- Added K1 Remarks to L3 Loop; changed max. usage to 50.*
	12/29/03		*- Added syntax note regarding N102 field length of up to 60 characters, based upon carrier support.* *- Added Syntax Note regarding N301, N302 field length of up to 60 characters, based upon carrier support.*
	12/30/03		*- Added comment to QTY segment for LX/L0/QTY loop regarding customer preference to have GT Nexus calculate QTY04 with container count and type description.* *- Added syntax note and comment regarding use of L010 to generate the appropriate Outbound L009, based upon customer preference.* *- Clarified use of K1 Remarks within L3 loop to maximize number of lines.* *- Removed "M" (Mandatory) status for C8 Certifications and Clauses segment and made it "O" (Optional), and removed comment that at least one C8 is required.* *- Added comment regarding multiple C8 segment support is possible on a*

			per carrier basis. *- Added a comment regarding list of Equipment Type for N722 is not all-inclusive.*
	12/31/03		*Added optional N4 Geographic Location segment to be configured on a per customer basis.*
	01/06/04		*- Added to existing comment for G61 segment that Contact information is acceptable for N101 = 'VI' or N101 = '41'.* *- Changed maximum for N902 from 1/20 to 1/30.*
	01/09/04		*Added to existing comment (#2), for R4 segment, that for non-door or non-rail move types the Port of Load 'L' and Port of Discharge 'D' R402 and R403 code will be copied into Place of Receipt 'R' and Place of Delivery 'E' values for R402 and R403 respectively.*
	02/13/04		*- Updated complete list of supported container types to N722.* *- Removed comment #2 regarding Equipment Type list for N722 is not all-inclusive.* *- Added L009 Packing Form code of 'SET' (Set).*
	02/16/04		*Added optional N2 Additional Name Information segment (up to 60 characters) to be configured on a per customer / carrier basis.*
	03/29/04		*Added support for N101 = 'N3' Also Notify Party (Notify Party no. 3).*
	04/13/04		*Clarified requirement for LX/N7 QTY02 data element (must be present).*
	04/21/04		*- Extended min/max for G6104 (Telephone, Fax, Email) to 1/60 from 1/35.* *- Removed restriction of G61 usage to N101 of 'VI' (Contact) and '41' (Submitter) only; all party types may utilize G61 segment.*
	05/11/04		*Changed the LX/L0 loop QTY (Quantity) segment from GT Nexus Mandatory to Optional.*
	07/28/04		*Added R4 support of 'F' Freight Payable At (Contractual) and 'W' Bill of Lading Release Office (Operational), and related DTM segment within R4 Loop for R401 of 'W'.*
	08/02/04		*- Added L009 Packaging Form Code of 'LOG' (Log), 'MXD' (Mixed Type*

			Pack) and 'UNP' (Unpacked). - Added all QTY03 Measurement Codes, within the LX/N7 Loop, as provided within the Outbound 304 MIG.
	09/17/04		Added L007 Volume Unit qualifier 'F' – 100 Board Feet.
	12/21/04		Added N9 Reference Identification segment support (1950) within LX/L0 loop.
	02/11/05		- Added L009 Packaging Form Codes of: 'BSK', 'CAG', 'CHS', 'CRD', 'FIR', 'HPR', 'HGH', 'PLN', 'TRC' and 'WRP'.
	09/06/07		Changed L007 Volume Unit qualifier 'F' description to "Board Feet".
	11/16/07		Changed L3 Loop K101, K102 Data Element Summary to emphasize use for free-form text.
	2/22/08		Add R401 value Q (Bill of Lading Origin of Goods (Contractual)).
	4/16/08		Add 'E', 'S', 'T' qualifiers to N717 and L011.
	05/19/08		Added support for a Harmonized Code, L503 and L504.
	10/24/08		Changed the maximum use of the Y2 to ten (from one).
	09/15/09		Changed N9 Reference Identification Max Use from '30' to '100'.
	07/21/10		Added support for SAC segment
	09/08/10		- Added C802 Certification / Clause Code value of '01' "Shipper's Load and Count", '09' "Sea Waybill", '17' "Freight Prepaid", '18' "Freight Collect" and comment regarding support of unlisted C802 values. - Added L504 Commodity Code Qualifier of 'B'. - Added W0903, W0905 Unit code of 'FA' ("Fahrenheit").
	02/15/10		Changed SAC Max Use from '1' to '10'
	08/01/11		- Updated N3 Address Information Comment #2 and #3 regarding N3 maximum allowable characters and N4 usage in relation to the 1st N301, N302 and 2nd N301. - Updated N4 Geographic Location Comment #1 and #2 regarding usage based upon customer / carrier preference and the maximum N3 data elements allowed when N4 is present. Added Syntax Note #1 regarding minimum requirement of N401 City Name if N4 segment is present.

	08/11/11		*- Removed L3 segment. Not required or consumed by GT Nexus and all references to L3 Loop.* *- Added Syntax Note #5 regarding minimum expected format of N7 Equipment Number for Break Bulk and RoRo shipments (N701 + N702 + N718).*
	01/20/12		*Added L3 segment; L3 is required (L3*-1*Z~ at a minimum) when PWK, SAC and / or K1 segment is present, including Semantic Notes for: L3, PWK and SAC, and updated the Sample Inbound 304 Message and Introduction segment structure.*
	01/24/12		*- Added the SAC Loop within the Introduction segment structure.* *- Updated the LX/L0 Loop – N9 segment to reflect maximum use of 100 and added N901Qualifier of 'SE' ("Serial Number").* *- Added the segment Position and Level definition throughout the document.*
	02/04/13		*Added support for Packaging Form Code "Parcel" in L0 and QTY segments*
	12/06/13		*Added support for Hazardous Material (s) (H1/H2/LH1/LH2/LFH) at commodity level (LX/L0)*
	03/17/16		*Added elements / codes to satisfy the forthcoming changes to the Safety of Life at Sea (SOLAS) treaty, which will take effect on 07/01/2016:* *- N1 Segment, element N101 - the qualifier "R1" has been added to support Verified Gross Weight Party* *- G61 Segment, element G6101 - the qualifier "RP" (Responsible Person) has been added to support Verified Gross Weight Contact Name and Email / Phone* *- N7 segment - paired elements N705 and N716: a non-standard usage of these elements conveys information about the Verified Gross Weight and the Verification Method respectively*
	09/17/2019		*Replaced the logo and all references to "GT Nexus" with "Infor Nexus"*
	02/20/2020		*Removed "PK" (Parcel), added "PL" (Pallet) in the QTY03-01(LX-N7 loop) list of codes*

	10/092020		*Header level changes:* *Adding second occurrence of the N2 segment, which now has a dual purpose:* *- If N201 DOES NOT have one of the values: "UC", "VA", "EI", "GN", then the value in N201 represents the Party Long Name (only one occurrence allowed)* *- If N201 DOES have either of the values: "UC", "VA", "EI", "GN", the value in N202 represents the Party Reference Number (i.e. if N201 = "VA", the value in N202 is VAT Number) - only one occurrence allowed* *Detail Level Changes:* *- The complete N1 loop has been added to the parent L0 (Commodity) loop.*