



**General
Mills**

**Making Food
People Love**

410 Rail Carrier Freight Details and Invoice

X12/V4010/410 : 410 Rail Carrier Freight Details and Invoice

Company:

General Mills

Modified:

1/11/2018

Notes:

Table of Contents

410 Rail Carrier Freight Details and Invoice	1
ISA Interchange Control Header	2
GS Functional Group Header	4
ST Transaction Set Header	6
B3B Beginning Segment for Carrier's Invoice	7
N9 Reference Identification	9
N7 Loop Equipment Details	10
N7 Equipment Details	11
M7 Seal Numbers	13
N8 Waybill Reference	14
F9 Origin Station	15
D9 Destination Station	16
N1 Loop Name	17
N1 Name	18
N3 Address Information	19
N4 Geographic Location	20
R2 Route Information	21
PS Protective Service Instructions	22
LX Loop Assigned Number	23
LX Assigned Number	24
L5 Description, Marks and Numbers	25
L0 Loop Line Item - Quantity and Weight	26
L0 Line Item - Quantity and Weight	27
L1 Rate and Charges	29
PI Price Authority Identification	31
L3 Total Weight and Charges	32
SE Transaction Set Trailer	33
GE Functional Group Trailer	34
IEA Interchange Control Trailer	35

410 Rail Carrier Freight Details and Invoice

Functional Group=IR

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Rail Carrier Freight Details and Invoice Transaction Set (410) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide detailed information of charges associated with a rail movement. The information is provided by a rail carrier and is sent to the freight payer.

Not Defined:

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

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	B3B	Beginning Segment for Carrier's Invoice	M	1			Must use
040	N9	Reference Identification	O	30			Used
LOOP ID - N7					500		
050	N7	Equipment Details	M	1			Must use
080	M7	Seal Numbers	O	5			Used
130	N8	Waybill Reference	M	499			Must use
140	F9	Origin Station	M	1			Must use
150	D9	Destination Station	M	1			Must use
LOOP ID - N1					10		
160	N1	Name	O	1			Used
170	N3	Address Information	O	2			Used
180	N4	Geographic Location	O	1			Used
400	R2	Route Information	O	13			Used
420	PS	Protective Service Instructions	O	5			Used
LOOP ID - LX					25		
430	LX	Assigned Number	M	1			Must use
440	L5	Description, Marks and Numbers	M	15			Must use
LOOP ID - L0					25		
460	L0	Line Item - Quantity and Weight	M	1			Must use
470	L1	Rate and Charges	M	10			Must use
480	PI	Price Authority Identification	O	30			Used
540	L3	Total Weight and Charges	M	1			Must use
570	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

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

ISA Interchange Control Header

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use				
<p>Description: Code to identify the type of information in the Authorization Information All valid standard codes are used. (Total Codes: 7)</p>										
ISA02	I02	Authorization Information	M	AN	10/10	Must use				
<p>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)</p>										
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use				
<p>Description: Code to identify the type of information in the Security Information All valid standard codes are used. (Total Codes: 2)</p>										
ISA04	I04	Security Information	M	AN	10/10	Must use				
<p>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)</p>										
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use				
<p>Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used. (Total Codes: 38)</p>										
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use				
<p>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</p>										
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use				
<p>Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified</p> <p>CodeList Summary (Total Codes: 38, Included: 1)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>08</td> <td>UCC EDI Communications ID (Comm ID)</td> </tr> </tbody> </table>							<u>Code</u>	<u>Name</u>	08	UCC EDI Communications ID (Comm ID)
<u>Code</u>	<u>Name</u>									
08	UCC EDI Communications ID (Comm ID)									
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use				
<p>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</p> <p>General Mills Note: <i>General Mills ID = 9251190000</i></p>										
ISA09	I08	Interchange Date	M	DT	6/6	Must use				
<p>Description: Date of the interchange</p>										
ISA10	I09	Interchange Time	M	TM	4/4	Must use				
<p>Description: Time of the interchange</p>										
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<p>Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used. (Total Codes: 1)</p>				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
		<p>Description: Code specifying the version number of the interchange control segments CodeList Summary (Total Codes: 14, Included: 1) <u>Code</u> <u>Name</u> 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</p>				
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use
		<p>Description: A control number assigned by the interchange sender</p>				
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use
		<p>Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used. (Total Codes: 2)</p>				
ISA15	I14	Usage Indicator	M	ID	1/1	Must use
		<p>Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information CodeList Summary (Total Codes: 3, Included: 1) <u>Code</u> <u>Name</u> P Production Data</p>				
ISA16	I15	Component Element Separator	M		1/1	Must use
		<p>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</p>				

GS Functional Group Header

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use

Description: Code identifying a group of application related transaction sets

CodeList Summary (Total Codes: 240, Included: 1)

Code Name

IR Rail Carrier Freight Details and Invoice (410, 980)

GS02	142	Application Sender's Code	M	AN	2/15	Must use
------	-----	----------------------------------	---	----	------	----------

Description: Code identifying party sending transmission; codes agreed to by trading partners

GS03	124	Application Receiver's Code	M	AN	2/15	Must use
------	-----	------------------------------------	---	----	------	----------

Description: Code identifying party receiving transmission; codes agreed to by trading partners

General Mills Note:

General Mills ID = 6125404455

GS04	373	Date	M	DT	8/8	Must use
------	-----	-------------	---	----	-----	----------

Description: Date expressed as CCYYMMDD

GS05	337	Time	M	TM	4/8	Must use
------	-----	-------------	---	----	-----	----------

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

GS06	28	Group Control Number	M	N0	1/9	Must use
------	----	-----------------------------	---	----	-----	----------

Description: Assigned number originated and maintained by the sender

GS07	455	Responsible Agency Code	M	ID	1/2	Must use
------	-----	--------------------------------	---	----	-----	----------

Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

CodeList Summary (Total Codes: 2, Included: 1)

Code Name

X Accredited Standards Committee X12

GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use
------	-----	---	---	----	------	----------

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

CodeList Summary (Total Codes: 39, Included: 1)

Code Name

004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

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

Comments:

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

ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
<p>Description: Code uniquely identifying a Transaction Set All valid standard codes are used. (Total Codes: 298)</p>						
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
<p>Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set</p>						

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).

B3B Beginning Segment for Carrier's Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 11

User Option (Usage): Must use

Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B3B01	76	Invoice Number	M	AN	1/22	Must use
<p>Description: Identifying number assigned by issuer</p> <p>General Mills Note: <i>Rail Carrier's Invoice Number</i></p>						
B3B02	146	Shipment Method of Payment	M	ID	2/2	Must use
<p>Description: Code identifying payment terms for transportation charges</p> <p>CodeList Summary (Total Codes: 28, Included: 2)</p> <p>Code Name</p> <p>CC Collect</p> <p>General Mills Note: <i>Signifies GMI InboundShipment</i></p> <p>PP Prepaid (by Seller)</p> <p>General Mills Note: <i>Signifies GMI OutboundShipment</i></p>						
B3B03	373	Date	M	DT	8/8	Must use
<p>Description: Date expressed as CCYYMMDD</p> <p>General Mills Note: <i>Rail Carrier's Invoice Date</i></p>						
B3B04	193	Net Amount Due	M	N2	1/12	Must use
<p>Description: Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified</p> <p>General Mills Note: <i>Total amount of this transaction (decimal is implied/assumed). Subsequent invoices (populated B3B10) must include only new/incremental charges.</i></p>						
B3B05	373	Date	O	DT	8/8	Used
<p>Description: Date expressed as CCYYMMDD</p> <p>General Mills Note: <i>Date payment is due</i></p>						
B3B06	140	Standard Carrier Alpha Code	M	ID	2/4	Must use
<p>Description: Standard Carrier Alpha Code</p>						
B3B07	91	Transportation Method/Type Code	M	ID	1/2	Must use
<p>Description: Code specifying the method or type of transportation for the shipment</p> <p>CodeList Summary (Total Codes: 71, Included: 1)</p> <p>Code Name</p> <p>R Rail</p>						
B3B08	145	Shipment Identification Number	O	AN	1/30	Used
<p>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)</p> <p>General Mills Note: <i>General Mills Shipment Number</i></p>						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
B3B09	188	Weight Unit Code	O	ID	1/1	Used

Description: Code specifying the weight unit

General Mills Note: *If no code is sent, pounds is assumed.*

CodeList Summary (Total Codes: 8, Included: 2)

Code Name

K Kilograms

L Pounds

B3B10	202	Correction Indicator	O	ID	2/2	Used
-------	-----	----------------------	---	----	-----	------

Description: Code used to indicate that the transaction set contains information which corrects previous information

General Mills Note:

A code must be sent here to identify this as a Subsequent (to the original) Invoice. GMI system reads this element as either empty (Original) or populated (Subsequent). One - AND ONLY ONE - Original Invoice is processed per GMI shipment number. Subsequent Invoices are processed only after an Original has posted successfully. Subsequent charges are those leftoff of the original invoice.

CodeList Summary (Total Codes: 36, Included: 1)

Code Name

AD Adjustment of Previous Freight Bill Charges

B3B11	100	Currency Code	O	ID	3/3	Used
-------	-----	---------------	---	----	-----	------

Description: Code (Standard ISO) for country in whose currency the charges are specified

General Mills Note: *Send B3B11 element only if invoice is in Canadian Dollars (CAD or CND).*

Semantics:

1. B3B03 is the billing date.
2. B3B05 is the payment due date.
3. B3B11 defines the currency used in the transaction.

Comments:

1. The B3B09 default value is pounds.

N9 Reference Identification

Pos: 040	Max: 30
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 1)

Code Name

BM Bill of Lading Number

N902	127	Reference Identification	X	AN	1/30	Must use
------	-----	--------------------------	---	----	------	----------

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

General Mills Note: *General Mills Shipment Number must be sent here with "BM" qualifier in the N901 element.*

Invoices can not be processed without this shipment number!

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. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

General Mills Note:

*This is NOT an optional segment for General Mills!
This segment is mandatory for payment processing.*

Loop Equipment Details

Pos: 050	Repeat: 500
Mandatory	
Loop: N7	Elements: N/A

User Option (Usage): Must use

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>
050	N7	Equipment Details	M	1		Must use
080	M7	Seal Numbers	O	5		Used

N7 Equipment Details

Pos: 050	Max: 1
Heading - Mandatory	
Loop: N7	Elements: 6

User Option (Usage): Must use
Purpose: To identify the equipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
N701	206	Equipment Initial	O	AN	1/4	Must use				
<p>Description: Prefix or alphabetic part of an equipment unit's identifying number</p> <p>General Mills Note: <i>Equipment <u>initial</u> from the actual trailer/unit (letters must be upper case)</i></p>										
N702	207	Equipment Number	M	AN	1/10	Must use				
<p>Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)</p> <p>General Mills Note: <i>Equipment <u>number</u> from the actual trailer/unit</i></p>										
N703	81	Weight	X	R	1/10	Must use				
<p>Description: Numeric value of weight</p> <p>General Mills Note: <i>Weight of shipment</i></p>										
N704	187	Weight Qualifier	X	ID	1/2	Must use				
<p>Description: Code defining the type of weight</p> <p>CodeList Summary (Total Codes: 51, Included: 1)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Actual Net Weight</td> </tr> </tbody> </table>							<u>Code</u>	<u>Name</u>	N	Actual Net Weight
<u>Code</u>	<u>Name</u>									
N	Actual Net Weight									
N711	40	Equipment Description Code	O	ID	2/2	Must use				
<p>Description: Code identifying type of equipment used for shipment</p> <p>CodeList Summary (Total Codes: 134, Included: 1)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>RR</td> <td>Rail Car</td> </tr> </tbody> </table>							<u>Code</u>	<u>Name</u>	RR	Rail Car
<u>Code</u>	<u>Name</u>									
RR	Rail Car									
N715	567	Equipment Length	O	N0	4/5	Must use				
<p>Description: Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)</p> <p>General Mills Note: <i>Format: FFFII, where FFF is feet and II is inches (00 through 11)</i></p>										

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.

Semantics:

1. N712 is the owner of the equipment.
2. N723 is the operator or carrier of the rights of the equipment.

Comments:

1. N701 is mandatory for rail transactions.

2. N720 and N721 are expressed in inches.

M7 Seal Numbers

Pos: 080	Max: 5
Heading - Optional	
Loop: N7	Elements: 2

User Option (Usage): Used

Purpose: To record seal numbers used and the organization that applied the seals

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
M701	225	Seal Number	M	AN	2/15	Used
		Description: Unique number on seal used to close a shipment				
M702	225	Seal Number	O	AN	2/15	Used
		Description: Unique number on seal used to close a shipment				

Comments:

1. M705 indicates the name of the organization which applied the seal(s).

N8 Waybill Reference

Pos: 130	Max: 499
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To identify the waybill and to specify the equipment used and the destination details

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N801	186	Waybill Number	M	NO	1/6	Must use

Description: Carrier accounting number of the waybill for the inbound movement

General Mills Note: Number used to reference a shipment between carriers

N802	373	Date	M	DT	8/8	Must use
------	-----	-------------	---	----	-----	----------

Description: Date expressed as CCYYMMDD

General Mills Note: Waybill date

Syntax Rules:

1. P030405 - If either N803, N804 or N805 are present, then the others are required.
2. P0607 - If either N806 or N807 is present, then the other is required.
3. P0809 - If either N808 or N809 is present, then the other is required.
4. P1011 - If either N810 or N811 is present, then the other is required.

Semantics:

1. N802 is the waybill date.
2. N808 is the destination station of movement.
3. N810 will contain destination railroad initial Standard Carrier Alpha Code (SCAC).
4. N811 will contain railroad destination Freight Station Accounting Code (FSAC).

Comments:

1. Waybill type should be transmitted only when the transaction set involves a multiple Car/TOFC/COFC shipment or a conveying flat car. Waybill type should not be sent on a single Car/TOFC/COFC.
2. N807 is the waybill date.

F9 Origin Station

Pos: 140	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

Purpose: To identify the rail origin of the shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
F901	573	Freight Station Accounting Code	O	ID	1/5	Used
Description: Code (Freight Station Accounting) (AAR Managed Code for Locations)						
F902	19	City Name	M	AN	2/30	Must use
Description: Free-form text for city name						
F903	156	State or Province Code	M	ID	2/2	Must use
Description: Code (Standard State/Province) as defined by appropriate government agency						
F908	154	Standard Point Location Code	O	ID	6/9	Used
Description: Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city						
F909	116	Postal Code	O	ID	3/15	Used
Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)						

Semantics:

1. F902 is the origin station for movement.
2. F904 is the country code for the city named in the F902.
3. F905 is the freight station accounting code of the origin junction settlement carrier.
4. F908 is the Standard Point Location Code (SPLC) for the city named in the F902.
5. F909 is the postal code for the city named in the F902.
6. F910 is the Standard Point Location Code (SPLC) for the city named in the F906.
7. F911 is the postal code for the city named in the F906.
8. F912 is the country code for the city named in the F906.

Comments:

1. F905 is the freight station accounting code of the city named in F906.

D9 Destination Station

Pos: 150	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

Purpose: To identify the rail destination of the shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
D901	573	Freight Station Accounting Code	O	ID	1/5	Used
		Description: Code (Freight Station Accounting) (AAR Managed Code for Locations)				
D902	19	City Name	M	AN	2/30	Must use
		Description: Free-form text for city name				
D903	156	State or Province Code	M	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
D908	154	Standard Point Location Code	O	ID	6/9	Used
		Description: Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city				
D909	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				

Semantics:

1. D902 is the destination station of movement.
2. D904 is the country code for the city named in the D902.
3. D905 is the freight station accounting code of the destination junction settlement carrier.
4. D908 is the Standard Point Location Code (SPLC) for the city named in the D902.
5. D909 is the postal code for the city names in the D902.
6. D910 is the Standard Point Location Code (SPLC) for the city named in the D906.
7. D911 is the postal code for the city named in the D906.
8. D912 is the country code for the city named in the D906.

Comments:

1. D905 is the freight station accounting code of the city name in D906.

Loop Name

Pos: 160	Repeat: 10
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
160	N1	Name	O	1		Used
170	N3	Address Information	O	2		Used
180	N4	Geographic Location	O	1		Used

N1 Name

Pos: 160	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

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

CodeList Summary (Total Codes: 1312, Included: 4)

Code Name

CN	Consignee
PF	Party to Receive Freight Bill
SF	Ship From
SH	Shipper

N102	93	Name	X	AN	1/60	Must use
------	----	-------------	---	----	------	----------

Description: Free-form name

Syntax Rules:

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

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N3 Address Information

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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

Pos: 180	Max: 1
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				

Syntax Rules:

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

Comments:

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

R2 Route Information

Pos: 400	Max: 13
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

Purpose: To specify carrier and routing sequences and details

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
R201	140	Standard Carrier Alpha Code	M	ID	2/4	Used

Description: Standard Carrier Alpha Code

R202	133	Routing Sequence Code	M	ID	1/2	Used
------	-----	------------------------------	---	----	-----	------

Description: Code describing the relationship of a carrier to a specific shipment movement

CodeList Summary (Total Codes: 23, Included: 11)

<u>Code</u>	<u>Name</u>
1	1st Carrier after Origin Carrier
2	2nd Carrier after Origin Carrier
3	3rd Carrier after Origin Carrier
4	4th Carrier after Origin Carrier
5	5th Carrier after Origin Carrier
6	6th Carrier after Origin Carrier
7	7th Carrier after Origin Carrier
8	8th Carrier after Origin Carrier
9	9th Carrier after Origin Carrier
A	Origin Carrier, Agent's Routing (Rail)
S	Origin Carrier, Shipper's Routing (Rail)

R203	19	City Name	O	AN	2/30	Used
------	----	------------------	---	----	------	------

Description: Free-form text for city name

Syntax Rules:

1. C0807 - If R208 is present, then R207 is required.

Semantics:

1. R203 is the station or city name at which carriers interchange shipments.
2. R210 is the billing date.

PS Protective Service Instructions

Pos: 420	Max: 5
Heading - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Used

Purpose: To specify mechanical protective service and ventilation instructions

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PS01	746	Protective Service Rule Code	M	ID	3/9	Used
Description: Association of American Railroads (AAR) Protective Service that applies to shipment						
PS02	241	Protective Service Code	M	ID	1/4	Used
Description: Code specifying perishable protective service- rail carriers only						
All valid standard codes are used. (Total Codes: 9)						
PS03	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
CodeList Summary (Total Codes: 794, Included: 2)						
Code Name						
CE Centigrade, Celsius						
FA Fahrenheit						
PS04	408	Temperature	X	R	1/4	Used
Description: Temperature						
General Mills Note: <i>Optimum temperature for shipment</i>						

Syntax Rules:

1. L030414 - If PS03 is present, then at least one of PS04 or PS14 is required.
2. C0403 - If PS04 is present, then PS03 is required.
3. C1403 - If PS14 is present, then PS03 is required.

Semantics:

1. PS03 qualifies the temperature in PS04 and PS14.
2. PS04 is the optimum allowable temperature condition for shipment.
3. PS11 identifies the location of the heater. A "Y" indicates the heater is ceiling-mounted; an "N" indicates the heater is in the body.
4. PS12 identifies whether or not the commodity is a food product. A "Y" indicates the commodity is a food product; an "N" indicates it is a non-food product.
5. PS13 indicates the amount of doorway space for the full width of the car. A "Y" indicates the doorway space is not less than 30 inches for the full width of the car; an "N" indicates it is less than 30 inches.
6. PS14 is the set temperature at service origin.

Comments:

1. PS05 through PS08 are used to specify the station to which the temperature applies. PS05 and PS06 are preferred over PS07 and PS08.
2. PS09 is the weight of body ice in hundreds.

Loop Assigned Number

Pos: 430	Repeat: 25
Mandatory	
Loop: LX	Elements: N/A

User Option (Usage): Must use

Purpose: To reference a line number in a transaction set

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>
430	LX	Assigned Number	M	1		Must use
440	L5	Description, Marks and Numbers	M	15		Must use
460		Loop L0	M		25	Must use

LX Assigned Number

Pos: 430	Max: 1
Heading - Mandatory	
Loop: LX	Elements: 1

User Option (Usage): Must use

Purpose: To reference a line number in a transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LX01	554	Assigned Number	M	NO	1/6	Must use

Description: Number assigned for differentiation within a transaction set

L5 Description, Marks and Numbers

Pos: 440	Max: 15
Heading - Mandatory	
Loop: LX	Elements: 3

User Option (Usage): Must use

Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L502	79	Lading Description	O	AN	1/50	Used
Description: Description of an item as required for rating and billing purposes						
L503	22	Commodity Code	X	AN	1/30	Used
Description: Code describing a commodity or group of commodities						
General Mills Note: NMFC Code						
L504	23	Commodity Code Qualifier	X	ID	1/1	Used
Description: Code identifying the commodity coding system used for Commodity Code						
CodeList Summary (Total Codes: 23, Included: 1)						
Code Name						
N National Motor Freight Classification (NMFC)						

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.

Loop Line Item - Quantity and Weight

Pos: 460	Repeat: 25
Mandatory	
Loop: L0	Elements: N/A

User Option (Usage): Must use

Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
460	L0	Line Item - Quantity and Weight	M	1		Must use
470	L1	Rate and Charges	M	10		Must use
480	PI	Price Authority Identification	O	30		Used

L0 Line Item - Quantity and Weight

Pos: 460	Max: 1
Heading - Mandatory	
Loop: L0	Elements: 4

User Option (Usage): Must use

Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L002	220	Billed/Rated-as Quantity	X	R	1/11	Used

Description: Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81

L003	221	Billed/Rated-as Qualifier	X	ID	2/2	Used
------	-----	----------------------------------	---	----	-----	------

Description: Code identifying the type of quantity or value on which the rate or item pricing is based

CodeList Summary (Total Codes: 47, Included: 14)

Code Name

- CF Cubic Foot
- DM Miles
- EA Each
- FR Flat Rate
- FT Foot
- LB Pound
- LC 100 Pounds
- MR Mileage
- NC Car
- NL Load
- NP Piece
- NU Unit

Description: A specific measurement in rating shipments

- TD Days
- TH Hours

L004	81	Weight	X	R	1/10	Used
------	----	---------------	---	---	------	------

Description: Numeric value of weight

General Mills Note: Weight information is only pulled from this element if it is not present in the L002 element.

L005	187	Weight Qualifier	X	ID	1/2	Used
------	-----	-------------------------	---	----	-----	------

Description: Code defining the type of weight

All valid standard codes are used. (Total Codes: 51)

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.

Semantics:

1. L008 is the number of handling units of the line item tendered to the carrier.

2. L013 can only be used if the code in L009 is PLT, SKD, or SLP.
3. L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

Comments:

1. L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

L1 Rate and Charges

Pos: 470	Max: 10
Heading - Mandatory	
Loop: L0	Elements: 5

User Option (Usage): Must use

Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L102	60	Freight Rate	X	R	1/9	Must use
Description: Rate that applies to the specific commodity						
L103	122	Rate/Value Qualifier	X	ID	2/2	Must use
Description: Code qualifying how to extend charges or interpret value						
CodeList Summary (Total Codes: 163, Included: 8)						
Code Name						
FR Flat Rate						
PC Per Car						
PD Per Day						
PF Per Cubic Foot						
PH Per Hundred (of Basic Unit)						
PM Per Mile						
PR Per Hour						
PU Per Unit						
L104	58	Charge	X	N2	1/12	Must use
Description: For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified						
L108	150	Special Charge or Allowance Code	O	ID	3/3	Used
Description: Code identifying type of special charge or allowance						
General Mills Note: Linehaul is represented by an empty L108 element. All other charges must be represented by one of the codes listed below.						
CodeList Summary (Total Codes: 1073, Included: 4)						
Code Name						
DIV Diversion and Reconsignment						
FUE Fuel Charge						
SWC Switching Charge						
WRC Load Weighing Charge						
L112	276	Special Charge Description	O	AN	2/25	Used
Description: Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150						

Syntax Rules:

1. P0203 - If either L102 or L103 is present, then the other is required.
2. R040506 - At least one of L104, L105 or L106 is required.
3. P1415 - If either L114 or L115 is present, then the other is required.
4. P1718 - If either L117 or L118 is present, then the other is required.

Semantics:

1. L119 is the percent used to determine the charge in L104.
2. L120, if used, indicates the currency for all monetary amounts in this L1 segment.
3. L121 is the origin rated as charge amount.

PI Price Authority Identification

Pos: 480	Max: 30
Heading - Optional	
Loop: L0	Elements: 8

User Option (Usage): Used

Purpose: To communicate basis of pricing, such as contract number, quote number, or tariff number

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PI01	128	Reference Identification Qualifier	M	ID	2/3	Used
Description: Code qualifying the Reference Identification						
CodeList Summary (Total Codes: 1503, Included: 3)						
Code Name						
CT Contract Number						
PR Price Quote Number						
TS Tariff Number						
PI02	127	Reference Identification	M	AN	1/30	Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
PI05	168	Tariff Agency Code	O	ID	1/4	Used
Description: Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment						
PI06	965	Issuing Carrier Identifier	O	AN	1/10	Used
Description: Identification assigned by issuing carrier						
PI07	660	Contract Suffix	O	AN	1/2	Used
Description: Used to identify a type of contract						
PI08	169	Tariff Item Number	O	AN	1/16	Used
Description: Number assigned in the tariff to specific rate or group of rates that applies to one or more items in the shipment						
PI12	373	Date	X	DT	8/8	Used
Description: Date expressed as CCYYMMDD						
PI13	373	Date	X	DT	8/8	Used
Description: Date expressed as CCYYMMDD						

Syntax Rules:

1. C1412 - If PI14 is present, then PI12 is required.
2. C1513 - If PI15 is present, then PI13 is required.

Semantics:

1. PI07 is the price authority suffix for the contract.
2. PI08 is the price authority item number.
3. PI09 is the price authority supplement.
4. PI10 is the price authority section number.
5. PI11 is the price authority suffix for tariff.
6. PI12 is the effective date.
7. PI13 is the expiration date.

L3 Total Weight and Charges

Pos: 540	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L305	58	Charge	O	N2	1/12	Used

Description: For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified

General Mills Note: *Total freight charges for this transaction*

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. L305 is the total charges.

SE Transaction Set Trailer

Pos: 570	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	NO	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

- SE is the last segment of each transaction set.

GE Functional Group Trailer

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

User Option (Usage): Must use

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

Element Summary:

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

Semantics:

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

Comments:

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

IEA Interchange Control Trailer

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	116	Number of Included Functional Groups	M	N0	1/5	Must use
Description: A count of the number of functional groups included in an interchange						
IEA02	112	Interchange Control Number	M	N0	9/9	Must use
Description: A control number assigned by the interchange sender						