EDI X12 210

Motor Carrier Freight Details and Invoice

Version: V4010

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Revision History

Revision	Date	Prepared By	Comments
1.0	April 2024	Integration Team	Updated MAN, AT7 segment

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210   Motor Carrier Freight Details and Invoice

Functional Group=IM

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Motor Carrier Freight Details and Invoice. The EDI 210 transaction set is called the Motor Carrier Freight Details and Invoice. It replaces a paper invoice, used by commercial truckers and other freight carriers. The 210 transaction is typically sent from the carrier to a shipper, consignee or third-party payment center for payment of freight charges. One 210 transaction is usually sent for each movement. It provides an itemized detail of the charges, along with other information you would typically find on a paper invoice:

Usage Indicators:

Usage Indicators are applied at all levels of the guidelines and shown adjacent to data items such as segment groups, segments, composite data elements and simple data elements. They dictate the agreed usage of the data items or entities.

The Usage Indicators are:

Value	Description
M	Mandatory
	Indicates the item is mandatory in the UN/EDIFACT message.
X	Conditional
	The entity is used by agreement between trading partners
O	Optional
	Indicates that this item is at the need or discretion of both trading partners.
NA	Not Recommended (Advised)
	Indicates the item needn't be transmitted in this implementation.

Terminology:

Within this manual specific terminology will be used that you may not be familiar with. In order to give you some guidance, please find below the most important EDI terms and their according definitions.

Delimiters	**Segment Terminator: ~** Each segment in this message is separated by a ~ character
	Element Separator: * sign indicates the start of a new element, either a simple or composite element
	Sub element separator: + character indicates the start of a sub-element of a composite element.
Segment	A segment is uniquely identified by a three character mnemonic tag, which is used as a reference to a common group of business information. For example, Invoice

	number, shipment identification number and SCAC code information, all this data is contained in Beginning segment B3.
Service Segment	A service segment is a segment that contains non-business related data. These segments usually include interchanges and messages, in the form of headers and trailers. For example ISA and GS are typical service segments.
Segment Group	A segment group is a collection of segments that are related within a message structure. A simple example would be a group for details of transport. This would typically include a segment for the reference (using N9).
Composite Element	A composite element is a lower level of detail to identify business data within segment. It is normally used when a data item requires addition information. Each composite element has a unique code identifying it. A composite element could be used, for example when a data item is in the form of a code and it requires a type qualifier and also organization responsible for its maintenance.
Data Element	A data element is the lowest level within the EDI structure for holding data. Each data element has a unique code identifying it. A data element can exist as a stand-alone element or as a sub-element within a composite element.

EDI 210 Segments:

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</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>Usage</u>
100	ST	Transaction Set Header	M	1		Must Use
200	B3	Beginning Segment	M	1		Must Use
600	N9	Reference Identification	O	2		Used
700	G62	Date/Time	O	1		Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
<u>Loop ID – N1</u>			<u>M</u>		<u>4</u>	
1100	N1	Name	M	1		Must Use
1300	N3	Address Information	O	1		Used
1400	N4	Geographic Location	O	1		Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
<u>Loop ID – LX</u>			<u>M</u>		<u>100</u>	
1200	LX	Assigned Number	M	1		Must Use
1700	L0	Line Item-Quantity and Weight	M	4		Must Use
1800	L1	Rate and Charges	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>Usage</u>
	GE	Functional Group Trailer	M	1		Must Use
	IEA	Interchange Control Trailer	M	1		Must Use

ISA	**Interchange Control Header**			**Mandatory**	**Max: 1**

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:

Ref	Element Description	Req	Type	Min/Max	Usage
ISA01	Authorization Information Qualifier	M	ID	2/2	Must Use
	Description: Code to identify the type of information in the Authorization Information All valid standard codes are used.				
ISA02	Authorization Information	M	AN	10/10	Must Use
	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)				
ISA03	Security Information Qualifier	M	ID	2/2	Must Use
	Description: Code to identify the type of information in the Security Information All valid standard codes are used.				
ISA04	Security Information	M	AN	10/10	Must Use
	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)				
ISA05	Interchange ID Qualifier	M	ID	2/2	Must Use
	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.				
ISA06	Interchange Sender ID	M	AN	15/15	Must Use
	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				
ISA07	Interchange ID Qualifier	M	ID	2/2	Must Use
	Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
ISA08	Interchange Receiver ID	M	AN	15/15	Must Use

	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				
ISA09	Interchange Date	M	DT	6/6	Must Use
	Description: Date of the interchange				
ISA10	Interchange Time	M	TM	4/4	Must Use
	Description: Time of the interchange				
ISA11	Interchange Control Standards Identifier	M	ID	1/1	Must Use
	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.				
ISA12	Interchange Control Version Number	M	ID	5/5	Must Use
	Description: Code specifying the version number of the interchange control segments
ISA13	Interchange Control Number	M	N0	9/9	Must Use
	Description: A control number assigned by the interchange sender				
ISA14	Acknowledgment Requested	M	ID	1/1	Must Use
	Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.
ISA15	Usage Indicator	M	ID	1/1	Optional
	Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.
ISA16	Component Element Separator	M		1/1	Optional
	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				

Within ISA12:

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

Within ISA14:

Code	Name
0	No Acknowledgment Requested
1	Interchange Acknowledgment Requested

Within ISA15:

Code	Name
P	Production Data
T	Test Data

Example:

```
ISA*00*    *00*    *ZZ*CLEINT    *ZZ*CU1000    *140430*1933*U*00401*1    *0*P*>
```

| GS | Functional Group Header | Mandatory | Max: 1 |

User Option (Usage): Must Use

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

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: 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.

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
GS01	Functional Identifier Code	M	ID	2/2	Must Use
	Description: Code identifying a group of application related transaction sets Code List Summary				
GS02	Application Sender's Code	M	AN	2/15	Must Use
	Description: Code identifying party sending transmission; codes agreed to by trading partners				
GS03	Application Receiver's Code	M	AN	2/15	Must Use
	Description: Code identifying party receiving transmission; codes agreed to by trading partners				
GS04	Date	M	DT	8/8	Must Use
	Description: Date expressed as CCYYMMDD				
GS05	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	Group Control Number	M	N0	1/9	Must Use
	Description: Assigned number originated and maintained by the sender				
GS07	Responsible Agency Code	M	ID	1/2	Must Use

Within the GS01 Description cell, a nested code table:

Code	Name
IM	Motor Carrier Freight Details and Invoice

		Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480				
			Code	Name		
			T	Transportation Data Coordinating Committee (TDCC)		
			X	Accredited Standards Committee X12		
GS08	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					
			Code	Name		
			004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997		

Example:

 GS*IM*CLEINT*CU1000*20181109*1200*1*X*004010

ST	**Transaction Set Header**	**Mandatory**	**Max: 1**

User Option (Usage): Must Use

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

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
ST01	Transaction Set Identifier Code	M	ID	3/3	Must Use
	Description: Code uniquely identifying a Transaction Set <table><tr><td>**Code**</td><td>**Name**</td></tr><tr><td>210</td><td>Motor Carrier Freight Details and Invoice</td></tr></table>				
ST02	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				

Example:

ST*210*0001

B3	Beginning Segment for Carrier's Invoice	Mandatory	Max: 1

User Option (Usage): Must Use

Purpose: To transmit basic data relating to the carrier's invoice

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
B302	Invoice Number	M	AN	1/22	Must Use
	Description: To transmit basic data relating to the carrier's invoice Invoice Number				
B303	Shipment Identification Number	O	AN	1/30	Used
	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) Movement Number				
B304	Shipment Method of Payment	M	ID	2/2	Must Use
	Description: Code identifying payment terms for transportation charges. **Acceptable codes are limited to:** 	Code	Name
---	---
CC	Collect
PP	Prepaid
BP	Pay and Add					
B306	Invoice Date	M	DT	8/8	Must Use
	Description: Date (expressed as CCYYMMDD)				
B307	Invoice Amount	M	N2	1/12	Must Use
	Description: Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified.				
B308	Correction Indicator	O	ID	2/2	Used
	Description: Code used to indicate that the transaction set contains information which corrects previous information Acceptable codes are limited to: 	Code	Name
---	---
BD	Balance Due Billing					

	CA	Cancelled Bill					
B309	Delivery Date		X	DT	8/8	Optional
	Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD						
B310	Date/Time Qualifier		X	ID	3/3	optional
	Code specifying type of date or time, or both date and time						
	Code	Name					
	035	Delivered					
B311	Standard Carrier Alpha Code		M	ID	2/4	Must Use
	Description: Standard Carrier Alpha Code						

Example:

B3**T7777999*M-1060*CC**20180830*599*BD***CAR1

N9	**Reference Identification**	**Optional**	**Max: 3**

User Option (Usage): Recommended

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

Syntax Note: 1. At least one of N902 or N903 is required.

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
N901	Reference Identification Qualifier	M	ID	2/3	Must Use
	Description: Code qualifying the Reference Identification				
	Code	**Name**			
	BM	Bill of Lading Number			
	CN	Carrier's Reference Number (PRO/Invoice)			
N902	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.				

Example:

N9*BM*BLNUMBER

G62	Date/Time		Optional	Max: 3

User Option (Usage): Recommended
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
G6201	Date Qualifier	M	ID	2/2	Must Use
	Description: Code specifying type of date **Acceptable codes are limited to:**				
G6202	Date	M	DT	8/8	Must Use
	Description: Date expressed as YYYYMMDD				

Code	Name
10	Requested Ship Date/Pick-up Date
41	Invoice Receipt Date

Example:
 G62*10*20180822

Loop N1		Mandatory	Repeat 4

User Option (Usage): Must Use

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
1100	N1	Name	M	1		Must Use
1300	N3	Address Information	O	1		Used
1400	N4	Geographic Location	O	1		Used

N1	Name	Mandatory	Max: 1

User Option (Usage): Must Use

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

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
N101	**Entity Identifier Code**	M	ID	2/3	Must Use
	Description: Code identifying an organizational entity, a physical location, property or an individual.				
N102	Name	X	AN	1/60	Used
	Description: Party name.				
N103	Identification Code Qualifier	X	AN	1/2	Used
	Description: Code designating the system/method of code structure used for Identification Code				
N104	Identification Code	X	AN	2/80	Used
	Description: Code identifying a party or other code.				

Within N101:

Code	Name
BT	Bill-to-Party
SF	Ship From
ST	Ship To
RI	Remit To

Example:

N1*SF*TEST SHIPPER

N3	**Address Information**		**Optional**		**Max: 1**

User Option (Usage): Optional

Purpose: To specify the location of the named party

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
N301	**Address Information**	M	AN	1/55	Must Use
N302	**Address Information**	O	AN	1/55	Optional

Example:

 N3*123 ANY PLACE

N4	**Geographic Location**		**Optional**		**Max: 1**

User Option (Usage): Optional

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
N401	City Name	O	AN	2/30	Used
	Description: Free-form text for city name				
N402	State or Province Code	O	ID	2/2	Used
	Description: Code (Standard State/Province) as defined by appropriate government agency.				
N403	Postal Code	O	ID	3/15	Used
	Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	Country Code	O	ID	2/3	Used
	Description: Code identifying the country				

Example:

N4*HONG KONG***HK

Loop LX						Mandatory Repeat 100

User Option (Usage): Must Use

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
1200	LX	Assigned Number	M	1		Must Use
1700	L0	Line Item-Quantity and Weight	M	4		Must Use
1800	L1	Rate and Charges	M	1		Must Use

LX	Assigned Number		Mandatory	Max: 1

User Option (Usage): Optional

Purpose: To reference a line number in a transaction set

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
LX01	Assigned Number	M	N0	1/6	Must Use
	Description: Number assigned for differentiation within a transaction set				

Example:

LX*1

L0	Line Item - Quantity and Weight			Optional	**Repeat 10**

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

Ref	Element Description	Req	Type	Min/Max	Usage
L004	Weight	X	R	1/10	Optional
	Description: Numeric value of weight				
L006	Volume	X	R	1/10	Optional
	Description: Value of volumetric measure				
L007	Volume unit qualifier	X	ID	1/1	Optional
	Description : Code identifying the volume unit				
	Code Name E Cubic Feet				
L011	Weight Unit Code	0	ID	1/1	Not Used
	Description: Code specifying the weight unit				
	Code Name L Pounds				

Example:

L0****987*G*1*E****L

| | L1 | Rate and Charges | | | Optional | Repeat 10 |

L1	Rate and Charges			Optional	Repeat 10

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

Ref	Element Description	Req	Type	Min/Max	Usage
L102	Freight Rate	X	R	1/9	Optional
	Description: Rate that applies to the specific commodity				
L103	Rate/Value Qualifier	X	ID	2/2	Must Use
	Description: Code qualifying how to extend charges or interpret value				
L104	Charge	X	N2	1/12	Optional
	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	Special Charge or Allowance Code	O	ID	3/3	Optional
	Description : Code identifying type of special charge or allowance				
L112	Special Charge Description	O	AN	2/25	Not Used
	Description: Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150.				
L120	**Currency Code**	**O**	**ID**	**3/3**	Used
	Description : Code (Standard ISO) for country in whose currency the charges are specified				

Within the L103 Description cell:

Code	Name
FR	Flat Rate
LB	Per Pound
PF	Per Cubic Feet
PM	Per Mile
PW	Percentage of Charges
SP	Per Stop
CW	Per Hundred Weight
FC	Flat Charge

Within the L108 Description cell:

MSC Charge Code List.txt

List of MSC's Charge Codes :

Example:

L1**163*FR*6561****GST****AB********USD

L7	**Tariff Reference**	**Optional**	**Max: 10**

User Option (Usage): Optional

Purpose: To reference details of the tariff used to arrive at applicable rates or charge

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
L7007	Freight Class Code	O	AN	2/5	Optional
	Description: Code indicating generalized classification that applies to one or more items in the shipment, i.e., class 70, 77.5, etc.				

Example:

L7*1******150

SE	**Transaction Set Trailer**	**Mandatory**	**Max: 1**

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:

Ref	Element Description	Req	Type	Min/Max	Usage
SE01	Number of Included Segments	M	N0	1/10	Used
	Description: Count of segments included (does not include Header and Footer segments				
SE02	Transaction Set Control Number	M	AN	4/9	Used
	Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Same as Transaction Set Control Number as in ST segment				

Example:

SE*7*0001

GE	**Functional Group Trailer**	**Mandatory**	**Max: 1**

User Option (Usage): Must Use

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

Element Summary:

Ref	Element Description	Req	Type	Min/Max	Usage
GE01	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	Group Control Number	M	N0	1/9	Must Use
	Description: Assigned number originated and maintained by the sender. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.				

Example:

  GE*1*1

IEA	**Interchange Control Trailer**	**Mandatory**	**Max: 1**

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:

Ref	Element Description	Req	Type	Min/Max	Usage
IEA01	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	Interchange Control Number	M	N0	9/9	Must Use
	Description: A control number assigned by the interchange sender				

Example:

  IEA*1*1

Sample EDI 210:

ISA*00*   *00*   *ZZ*CLEINT   *ZZ*CU1000   *140430*1933*U*00401*1   *0*P*>

GS*IM*CLEINT *CU1000 *20180316*1933*1*X*004010

ST*210*0001

B3**T7777999*M-1060*CC**20180830*599*BD***CAR1

N9*BM*077-5555

N9*PX*7142003951

G62*10*20180822

G62*41*20180822

N1*BT*SUP6

N3*GM CUST CARE/AFTERSALES   US*C/O MENLO WORLDWIDE P O BOX 5159

N4*PORTLAND*OR*97208*US

N1*RI*CAR1

N3*5200 MAINGATE DRIVE*Penske

N4*ONTARIO*ON*L4W1G5*CA

N1*SF*SUP6*ZZ*Data

N3*3427 Parker Lane

N4*Austin*TX*78741*US

N1*ST*SUP6

N3*4055 Valley View

N4*Dallas*TX*75244*US

LX*1

L0****987*G*1*E****L

L1**163*FR*6561****GST****AB*******USD

SE*22*0001

GE*1*1

IEA*1*1