

# 810 Invoice

## Functional Group=IN

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

### 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> |
|---------------------|-----------|---------------------------------------|------------|----------------|---------------|--------------|--------------|
| 0100                | ST        | Transaction Set Header                | M          | 1              |               |              | Must use     |
| 0200                | BIG       | Beginning Segment for Invoice         | M          | 1              |               |              | Must use     |
| 0400                | CUR       | Currency                              | O          | 1              |               |              | Used         |
| 0500                | REF       | Reference Identification              | O          | 12             |               |              | Used         |
| <b>LOOP ID - N1</b> |           |                                       |            |                | <b>200</b>    |              |              |
| 0700                | N1        | Name                                  | O          | 1              |               |              | Used         |
| 0800                | N2        | Additional Name Information           | O          | 2              |               |              | Used         |
| 0900                | N3        | Address Information                   | O          | 2              |               |              | Used         |
| 1000                | N4        | Geographic Location                   | O          | 1              |               |              | Used         |
| 1200                | PER       | Administrative Communications Contact | O          | 3              |               |              | Used         |
| 1300                | ITD       | Terms of Sale/Deferred Terms of Sale  | O          | >1             |               |              | Used         |
| 1500                | FOB       | F.O.B. Related Instructions           | 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>Notes</u> | <u>Usage</u> |
|----------------------|-----------|--|------------|----------------|---------------|--------------|--------------|
| <b>LOOP ID - IT1</b> |           |  |            |                | <b>200000</b> |              |              |
| 0100                 | IT1       | Baseline Item Data (Invoice)                         | O          | 1              |               |              | Used         |
| <b>LOOP ID - PID</b> |           |  |            |                | <b>1000</b>   |              |              |
| 0600                 | PID       | Product/Item Description                             | O          | 1              |               |              | Used         |
| 1200                 | REF       | Reference Identification                             | O          | >1             |               |              | Used         |
| 1500                 | DTM       | Date/Time Reference                                  | O          | 10             |               |              | Used         |
| <b>LOOP ID - SAC</b> |           |  |            |                | <b>≥1</b>     |              |              |
| 1800                 | SAC       | Service, Promotion, Allowance, or Charge Information | O          | 1              |               |              | Used         |
| <b>LOOP ID - TXI</b> |           |  |            |                | <b>≥1</b>     |              |              |
| 1900                 | TXI       | Tax Information                                      | O          | 1              |               |              | Used         |

### Summary:

| <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> |
|----------------------|-----------|--|------------|----------------|---------------|--------------|--------------|
| 0100                 | TDS       | Total Monetary Value Summary                         | M          | 1              |               |              | Must use     |
| 0300                 | CAD       | Carrier Detail                                       | O          | 1              |               |              | Used         |
| <b>LOOP ID - SAC</b> |           |  |            |                | <b>≥1</b>     |              |              |
| 0400                 | SAC       | Service, Promotion, Allowance, or Charge Information | O          | 1              |               |              | Used         |
| <b>LOOP ID - TXI</b> |           |  |            |                | <b>≥1</b>     |              |              |
| 0500                 | TXI       | Tax Information                                      | O          | 1              |               |              | Used         |
| 0800                 | SE        | Transaction Set Trailer                              | M          | 1              |               |              | Must use     |

# ST Transaction Set Header

|                     |             |
|---------------------|-------------|
| Pos: 0100           | Max: 1      |
| Heading - Mandatory |             |
| Loop: N/A           | Elements: 2 |

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         | <b>Transaction Set Identifier Code</b><br><b>Description:</b> Code uniquely identifying a Transaction Set   | M           | ID          | 3/3            | Must use     |  |  |  |  |
|             |             | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>810</td> <td>Invoice</td> </tr> </tbody> </table>   | <u>Code</u> | <u>Name</u> | 810            | Invoice      |  |  |  |  |
| <u>Code</u> | <u>Name</u> |   |             |             |                |              |  |  |  |  |
| 810         | Invoice     |   |             |             |                |              |  |  |  |  |
| ST02        | 329         | <b>Transaction Set Control Number</b><br><b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set<br><i>Must be unique within the group.</i> | M           | AN          | 4/9            | Must use     |  |  |  |  |

## Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

# BIG Beginning Segment for Invoice

|                     |             |
|---------------------|-------------|
| Pos: 0200           | Max: 1      |
| Heading - Mandatory |             |
| Loop: N/A           | Elements: 4 |

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

## 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>   |
|------------|-----------|--|------------|-------------------------|----------------|--|
| BIG01      | 373       | <b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year  | M          | DT                      | 8/8            | Must use   |
| BIG02      | 76        | <b>Invoice Number</b><br><b>Description:</b> Identifying number assigned by issuer<br><i>Control number for this document.</i>   | M          | AN                      | 1/22           | Must use   |
| BIG04      | 324       | <b>Purchase Order Number</b><br><b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser  | O          | AN                      | 1/22           | Used   |
| BIG07      | 640       | <b>Transaction Type Code</b><br><b>Description:</b> Code specifying the type of transaction<br><i>Codes other than "PR" may not be processed by all roads. Please verify whether an invoice type can be processed before sending.</i><br><i>Only the following codes will be accepted:</i> | O          | ID                      | 2/2            | Must use   |
|            |           | <b>Code</b>  |            | <b>Name</b>             |                |  |
|            |           | CO   |            | Corrected               |                | <i>Indicates that this document replaces a previously transmitted invoice. A REF segment with code "OI" is required.</i>   |
|            |           | CR   |            | Credit Memo             |                | <i>Indicates that this document is a credit adjustment to a previously transmitted document that is not covered by the code "MC". A SAC segment is required. A REF segment with code "OI" in REF01 is required and no IT1 detail loop is to be sent.</i>   |
|            |           | DR   |            | Debit Memo              |                | <i>The debit memo is intended to be used for freight, or other special charges that were left off a previously transmitted invoice. A SAC segment is required. A REF segment with code "OI" in REF01 is required. The debit memo cannot adjust the price of a previously invoiced line item and no IT1 detail loop is to be sent.</i>                  |
|            |           | MC   |            | Material Credit Invoice |                | <i>Indicates that this document is a credit that reverses a previously invoiced quantity. Since this code clearly indicates the negative aspects of this document, the Quantity Invoiced in IT102, and Unit Price IT104, should be unsigned. All requirements for the detail area of each affected line of the purchase order are required in this</i> |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>   | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
|            |           | <u>Code</u>   |            |             |                |              |
|            |           | <u>Name</u>   |            |             |                |              |
|            | PR        | Product (or Service)  |            |             |                |              |
|            |           | <i>Indicates that this is the original transmission of this invoice for product or service.</i> |            |             |                |              |

**Semantics:**

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 is the consolidated invoice number associated with the invoice identified in BIG02. When BIG07 contains code CI (Consolidated Invoice), BIG02 will contain the consolidated invoice number and BIG10 is not used.

**Comments:**

1. BIG07 is used only to further define the type of invoice when needed.  
*If the invoice covers a purchase order, a release against a purchase order or a contract, element BIG04 is required.*

# CUR Currency

|                           |                    |
|---------------------------|--------------------|
| <b>Pos: 0400</b>          | <b>Max: 1</b>      |
| <b>Heading - Optional</b> |                    |
| <b>Loop: N/A</b>          | <b>Elements: 2</b> |

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

## 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> |             |                 |     |               |     |           |
|--|-----------------|-------------------------------|------------|-------------|----------------|--------------|-------------|-----------------|-----|---------------|-----|-----------|
| CUR01  | 98              | <b>Entity Identifier Code</b> | M          | ID          | 2/3            | Must use     |             |                 |     |               |     |           |
| <p><b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual</p> <p><i>Only the following code will be accepted:</i></p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SE</td> <td>Selling Party</td> </tr> </tbody> </table>          |                 |                               |            |             |                |              | <u>Code</u> | <u>Name</u>     | SE  | Selling Party |     |           |
| <u>Code</u>  | <u>Name</u>     |                               |            |             |                |              |             |                 |     |               |     |           |
| SE   | Selling Party   |                               |            |             |                |              |             |                 |     |               |     |           |
| CUR02  | 100             | <b>Currency Code</b>          | M          | ID          | 3/3            | Must use     |             |                 |     |               |     |           |
| <p><b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified</p> <p><i>Only the following codes will be accepted:</i></p> <table border="1"> <tbody> <tr> <td>CAD</td> <td>Canadian Dollar</td> </tr> <tr> <td>MXP</td> <td>Mexican Peso</td> </tr> <tr> <td>USD</td> <td>US Dollar</td> </tr> </tbody> </table> |                 |                               |            |             |                |              | CAD         | Canadian Dollar | MXP | Mexican Peso  | USD | US Dollar |
| CAD  | Canadian Dollar |                               |            |             |                |              |             |                 |     |               |     |           |
| MXP  | Mexican Peso    |                               |            |             |                |              |             |                 |     |               |     |           |
| USD  | US Dollar       |                               |            |             |                |              |             |                 |     |               |     |           |

## Syntax:

1. CUR08 C0807 -- If CUR08 is present, then CUR07 is required
2. CUR09 C0907 -- If CUR09 is present, then CUR07 is required
3. CUR10 L101112 -- If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. CUR11 C1110 -- If CUR11 is present, then CUR10 is required
5. CUR12 C1210 -- If CUR12 is present, then CUR10 is required
6. CUR13 L131415 -- If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. CUR14 C1413 -- If CUR14 is present, then CUR13 is required
8. CUR15 C1513 -- If CUR15 is present, then CUR13 is required
9. CUR16 L161718 -- If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. CUR17C1716 -- If CUR17 is present, then CUR16 is required
11. CUR18C1816 -- If CUR18 is present, then CUR16 is required
12. CUR19L192021 -- If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. CUR20C2019 -- If CUR20 is present, then CUR19 is required
14. CUR21C2119 -- If CUR21 is present, then CUR19 is required

## Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

*This segment must be sent if the invoice is payable in funds different from the native funds of the purchaser.*

# REF Reference Identification

|                    |             |
|--------------------|-------------|
| Pos: 0500          | Max: 12     |
| Heading - Optional |             |
| Loop: N/A          | Elements: 2 |

To specify identifying 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>          |    |   |    |                         |  |  |  |  |
|-------------|---|--|-------------|-------------|----------------|-----------------------|----|---|----|-------------------------|--|--|--|--|
| REF01       | 128                                       | <b>Reference Identification Qualifier</b>  | M           | ID          | 2/3            | Must use              |    |   |    |                         |  |  |  |  |
|             |   | <b>Description:</b> Code qualifying the Reference Identification   |             |             |                |                       |    |   |    |                         |  |  |  |  |
|             |   | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>GT</td> <td>Goods and Service Tax Registration Number</td> </tr> <tr> <td>OI</td> <td>Original Invoice Number</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | BM             | Bill of Lading Number | GT | Goods and Service Tax Registration Number | OI | Original Invoice Number |  |  |  |  |
| <u>Code</u> | <u>Name</u>                               |  |             |             |                |                       |    |   |    |                         |  |  |  |  |
| BM          | Bill of Lading Number                     |  |             |             |                |                       |    |   |    |                         |  |  |  |  |
| GT          | Goods and Service Tax Registration Number |  |             |             |                |                       |    |   |    |                         |  |  |  |  |
| OI          | Original Invoice Number                   |  |             |             |                |                       |    |   |    |                         |  |  |  |  |
| REF02       | 127                                       | <b>Reference Identification</b>  | C           | AN          | 1/50           | Used                  |    |   |    |                         |  |  |  |  |
|             |   | <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier  |             |             |                |                       |    |   |    |                         |  |  |  |  |
|             |   | <i>If REF01 = "OI", this number must consist of the concatenation of the original invoice Date BIG01 and the original Invoice Number BIG02 - No embedded blanks (i.e., CCYYMMDDNNNNNN...).</i>   |             |             |                |                       |    |   |    |                         |  |  |  |  |

## Syntax:

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

## Semantics:

- REF04 contains data relating to the value cited in REF02.

*If this invoice is for material purchased and used in Canada, an occurrence of the REF segment is required with REF01 = "GT".*

# N1 Name

|                           |                    |
|---------------------------|--------------------|
| <b>Pos: 0700</b>          | <b>Max: 1</b>      |
| <b>Heading - Optional</b> |                    |
| <b>Loop: N1</b>           | <b>Elements: 4</b> |

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                                 | <b>Entity Identifier Code</b><br><b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual  | M           | ID          | 2/3            | Must use                           |    |          |    |           |    |         |  |  |  |  |
|             |                                    | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BT</td> <td>Bill-to-Party</td> </tr> <tr> <td>RI</td> <td>Remit To</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | BT             | Bill-to-Party                      | RI | Remit To | SF | Ship From | ST | Ship To |  |  |  |  |
| <u>Code</u> | <u>Name</u>                        |   |             |             |                |                                    |    |          |    |           |    |         |  |  |  |  |
| BT          | Bill-to-Party                      |   |             |             |                |                                    |    |          |    |           |    |         |  |  |  |  |
| RI          | Remit To                           |   |             |             |                |                                    |    |          |    |           |    |         |  |  |  |  |
| SF          | Ship From                          |   |             |             |                |                                    |    |          |    |           |    |         |  |  |  |  |
| ST          | Ship To                            |   |             |             |                |                                    |    |          |    |           |    |         |  |  |  |  |
| N102        | 93                                 | <b>Name</b><br><b>Description:</b> Free-form name   | C           | AN          | 1/60           | Used                               |    |          |    |           |    |         |  |  |  |  |
| N103        | 66                                 | <b>Identification Code Qualifier</b><br><b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)  | C           | ID          | 1/2            | Used                               |    |          |    |           |    |         |  |  |  |  |
|             |                                    | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </tbody> </table>   | <u>Code</u> | <u>Name</u> | 92             | Assigned by Buyer or Buyer's Agent |    |          |    |           |    |         |  |  |  |  |
| <u>Code</u> | <u>Name</u>                        |   |             |             |                |                                    |    |          |    |           |    |         |  |  |  |  |
| 92          | Assigned by Buyer or Buyer's Agent |   |             |             |                |                                    |    |          |    |           |    |         |  |  |  |  |
| N104        | 67                                 | <b>Identification Code</b><br><b>Description:</b> Code identifying a party or other code  | C           | AN          | 2/80           | Used                               |    |          |    |           |    |         |  |  |  |  |

## Syntax:

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

*Four N1 loops are required for each invoice: one for N101 = "BT", "RI", "SF", and "ST".*

*The use of various segments and elements for each of the loops can be found in Table II of the Appendix.*

# N2 Additional Name Information

|                    |             |
|--------------------|-------------|
| Pos: 0800          | Max: 2      |
| Heading - Optional |             |
| Loop: N1           | Elements: 2 |

To specify additional names

## 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> |
|------------|-----------|-------------------------------------|------------|-------------|----------------|--------------|
| N201       | 93        | Name<br>Description: Free-form name | M          | AN          | 1/60           | Must use     |
| N202       | 93        | Name<br>Description: Free-form name | O          | AN          | 1/60           | Used         |

*See Table II of the Appendix.*



# N3 Address Information

|                    |             |
|--------------------|-------------|
| Pos: 0900          | Max: 2      |
| Heading - Optional |             |
| Loop: N1           | Elements: 2 |

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       | <b>Address Information</b><br>Description: Address information | M          | AN          | 1/55           | Must use     |
| N302       | 166       | <b>Address Information</b><br>Description: Address information | O          | AN          | 1/55           | Used         |

*See Table II of the Appendix.*

# N4 Geographic Location

|                    |             |
|--------------------|-------------|
| Pos: 1000          | Max: 1      |
| Heading - Optional |             |
| Loop: N1           | Elements: 4 |

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        | <b>City Name</b><br><b>Description:</b> Free-form text for city name   | O          | AN          | 2/30           | Must use     |
| N402       | 156       | <b>State or Province Code</b><br><b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency<br><i>Code values conform to the standard postal abbreviations. See Table III of the Appendix for the US state codes and Canadian provinces.</i> | C          | ID          | 2/2            | Must use     |
| N403       | 116       | <b>Postal Code</b><br><b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)<br><i>Nine digit zip codes are strongly recommended.</i>  | O          | ID          | 3/15           | Used         |
| N404       | 26        | <b>Country Code</b><br><b>Description:</b> Code identifying the country<br><i>Assume to be "US" when not present.</i><br><i>CA Canada</i><br><i>MX Mexico</i><br><i>US United States</i>   | C          | ID          | 2/3            | Used         |

## Syntax:

1. N402 E0207 -- Only one of N402 or N407 may be present.
2. N406 C0605 -- If N406 is present, then N405 is required
3. N407 C0704 -- If N407 is present, then N404 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.

*See Table II of the Appendix.*

# PER Administrative Communications Contact

|                    |             |
|--------------------|-------------|
| Pos: 1200          | Max: 3      |
| Heading - Optional |             |
| Loop: N1           | Elements: 8 |

To identify a person or office to whom administrative communications should be directed

## 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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| PER01      | 366       | <b>Contact Function Code</b><br><b>Description:</b> Code identifying the major duty or responsibility of the person or group named           | M          | ID          | 2/2            | Must use     |
|            |           | <u>Code</u> <u>Name</u><br>AR                      Accounts Receivable Department  |            |             |                |              |
| PER02      | 93        | <b>Name</b><br><b>Description:</b> Free-form name  | O          | AN          | 1/60           | Used         |
| PER03      | 365       | <b>Communication Number Qualifier</b><br><b>Description:</b> Code identifying the type of communication number                               | C          | ID          | 2/2            | Used         |
|            |           | <u>Code</u> <u>Name</u><br>EM                      Electronic Mail<br>FX                      Facsimile<br>TE                      Telephone |            |             |                |              |
| PER04      | 364       | <b>Communication Number</b><br><b>Description:</b> Complete communications number including country or area code when applicable             | C          | AN          | 1/256          | Used         |
| PER05      | 365       | <b>Communication Number Qualifier</b><br><b>Description:</b> Code identifying the type of communication number                               | C          | ID          | 2/2            | Used         |
|            |           | <u>Code</u> <u>Name</u><br>EM                      Electronic Mail<br>FX                      Facsimile<br>TE                      Telephone |            |             |                |              |
| PER06      | 364       | <b>Communication Number</b><br><b>Description:</b> Complete communications number including country or area code when applicable             | C          | AN          | 1/256          | Used         |
| PER07      | 365       | <b>Communication Number Qualifier</b><br><b>Description:</b> Code identifying the type of communication number                               | C          | ID          | 2/2            | Used         |
|            |           | <u>Code</u> <u>Name</u><br>EM                      Electronic Mail<br>FX                      Facsimile<br>TE                      Telephone |            |             |                |              |
| PER08      | 364       | <b>Communication Number</b><br><b>Description:</b> Complete communications number including country or area code when applicable             | C          | AN          | 1/256          | Used         |

## Syntax:

1. PER03 P0304 -- If either PER03 or PER04 are present, then the others are required.

2. PER05 P0506 -- If either PER05 or PER06 are present, then the others are required.
3. PER07 P0708 -- If either PER07 or PER08 are present, then the others are required.

*See Table II of the Appendix.*

# ITD Terms of Sale/Deferred Terms of Sale

|                    |             |
|--------------------|-------------|
| Pos: 1300          | Max: >1     |
| Heading - Optional |             |
| Loop: N/A          | Elements: 6 |

To specify terms of sale

## 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>            |    |                        |    |                           |  |  |  |  |
|-------------|---------------------------|---|-------------|-------------|----------------|-------------------------|----|------------------------|----|---------------------------|--|--|--|--|
| ITD01       | 336                       | <b>Terms Type Code</b><br><b>Description:</b> Code identifying type of payment terms<br><i>Only the following codes will be accepted:</i>   | O           | ID          | 2/2            | Must use                |    |                        |    |                           |  |  |  |  |
|             |                           | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>05</td> <td>Discount Not Applicable</td> </tr> <tr> <td>08</td> <td>Basic Discount Offered</td> </tr> <tr> <td>09</td> <td>Proximo</td> </tr> </tbody> </table>   | <u>Code</u> | <u>Name</u> | 05             | Discount Not Applicable | 08 | Basic Discount Offered | 09 | Proximo                   |  |  |  |  |
| <u>Code</u> | <u>Name</u>               |   |             |             |                |                         |    |                        |    |                           |  |  |  |  |
| 05          | Discount Not Applicable   |   |             |             |                |                         |    |                        |    |                           |  |  |  |  |
| 08          | Basic Discount Offered    |   |             |             |                |                         |    |                        |    |                           |  |  |  |  |
| 09          | Proximo                   |   |             |             |                |                         |    |                        |    |                           |  |  |  |  |
| ITD02       | 333                       | <b>Terms Basis Date Code</b><br><b>Description:</b> Code identifying the beginning of the terms period<br><i>Only the following codes will be accepted:</i>   | O           | ID          | 1/2            | Must use                |    |                        |    |                           |  |  |  |  |
|             |                           | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>3</td> <td>Invoice Date</td> </tr> <tr> <td>5</td> <td>Invoice Receipt Date</td> </tr> <tr> <td>6</td> <td>Anticipated Delivery Date</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 3              | Invoice Date            | 5  | Invoice Receipt Date   | 6  | Anticipated Delivery Date |  |  |  |  |
| <u>Code</u> | <u>Name</u>               |   |             |             |                |                         |    |                        |    |                           |  |  |  |  |
| 3           | Invoice Date              |   |             |             |                |                         |    |                        |    |                           |  |  |  |  |
| 5           | Invoice Receipt Date      |   |             |             |                |                         |    |                        |    |                           |  |  |  |  |
| 6           | Anticipated Delivery Date |   |             |             |                |                         |    |                        |    |                           |  |  |  |  |
| ITD03       | 338                       | <b>Terms Discount Percent</b><br><b>Description:</b> Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date<br><i>Must not exceed 100%.<br/>2% = 2 or 2.0</i>                         | O           | R           | 1/6            | Used                    |    |                        |    |                           |  |  |  |  |
| ITD05       | 351                       | <b>Terms Discount Days Due</b><br><b>Description:</b> Number of days in the terms discount period by which payment is due if terms discount is earned   | C           | N0          | 1/3            | Used                    |    |                        |    |                           |  |  |  |  |
| ITD07       | 386                       | <b>Terms Net Days</b><br><b>Description:</b> Number of days until total invoice amount is due (discount not applicable)   | O           | N0          | 1/3            | Used                    |    |                        |    |                           |  |  |  |  |
| ITD13       | 765                       | <b>Day of Month</b><br><b>Description:</b> The numeric value of the day of the month between 1 and the maximum day of the month being referenced  | C           | N0          | 1/2            | Used                    |    |                        |    |                           |  |  |  |  |

## Syntax:

- ITD03 L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
- ITD08 L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
- ITD09 L091011 -- If ITD09 is present, then at least one of ITD10 or ITD11 is required.

## Semantics:

- ITD15 is the percentage applied to a base amount used to determine a late payment charge.

## Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

*The following explains the use of the elements and codes:*

*If ITD01 = "05"*

*ITD07 is required*

*ITD03, ITD05 and ITD13 must not be sent*

*IF ITD01 = "08"*

*ITD03, ITD05, and ITD07 are required*

*ITD13 must not be sent*

*ITD03 must be greater than zero*

*If ITD01 = "09"*

*ITD13 is required*

*ITD03 is required for other than net proximo terms*

*ITD05 and ITD07 must not be sent*

# FOB F.O.B. Related Instructions

|                    |             |
|--------------------|-------------|
| Pos: 1500          | Max: 1      |
| Heading - Optional |             |
| Loop: N/A          | Elements: 3 |

To specify transportation instructions relating to 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> |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
|---|---------------------------------|---|-------------|-------------|----------------|--------------|----|-----------------------------|---|-------------------------|----|---------------------------------|----|---------------------|----|--------|--|--|--|--|
| FOB01   | 146                             | <b>Shipment Method of Payment</b><br><b>Description:</b> Code identifying payment terms for transportation charges  | M           | ID          | 2/2            | Must use     |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
|   |                                 | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CC</td> <td>Collect</td> </tr> <tr> <td>DF</td> <td>Defined by Buyer and Seller</td> </tr> <tr> <td colspan="2"><i>Code "DF" indicates that the method of payment is not specified.</i></td> </tr> <tr> <td>PC</td> <td>Prepaid but Charged to Customer</td> </tr> <tr> <td>PP</td> <td>Prepaid (by Seller)</td> </tr> <tr> <td>PU</td> <td>Pickup</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | CC             | Collect      | DF | Defined by Buyer and Seller | <i>Code "DF" indicates that the method of payment is not specified.</i> |                         | PC | Prepaid but Charged to Customer | PP | Prepaid (by Seller) | PU | Pickup |  |  |  |  |
| <u>Code</u>   | <u>Name</u>                     |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| CC  | Collect                         |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| DF  | Defined by Buyer and Seller     |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| <i>Code "DF" indicates that the method of payment is not specified.</i> |                                 |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| PC  | Prepaid but Charged to Customer |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| PP  | Prepaid (by Seller)             |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| PU  | Pickup                          |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| FOB06   | 309                             | <b>Location Qualifier</b><br><b>Description:</b> Code identifying type of location  | C           | ID          | 1/2            | Used         |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
|   |                                 | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CI</td> <td>City</td> </tr> <tr> <td>DE</td> <td>Destination (Shipping)</td> </tr> <tr> <td>OR</td> <td>Origin (Shipping Point)</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | CI             | City         | DE | Destination (Shipping)      | OR  | Origin (Shipping Point) |    |                                 |    |                     |    |        |  |  |  |  |
| <u>Code</u>   | <u>Name</u>                     |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| CI  | City                            |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| DE  | Destination (Shipping)          |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| OR  | Origin (Shipping Point)         |   |             |             |                |              |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |
| FOB07   | 352                             | <b>Description</b><br><b>Description:</b> A free-form description to clarify the related data elements and their content  | O           | AN          | 1/80           | Used         |    |                             |   |                         |    |                                 |    |                     |    |        |  |  |  |  |

## Syntax:

1. FOB03 C0302 -- If FOB03 is present, then FOB02 is required
2. FOB04 C0405 -- If FOB04 is present, then FOB05 is required
3. FOB07 C0706 -- If FOB07 is present, then FOB06 is required
4. FOB08 C0809 -- If FOB08 is present, then FOB09 is required

## Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

*Required by the Rail Industry Forum.*

# IT1 Baseline Item Data (Invoice)

|                   |              |
|-------------------|--------------|
| Pos: 0100         | Max: 1       |
| Detail - Optional |              |
| Loop: IT1         | Elements: 10 |

To specify the basic and most frequently used line item data for the invoice and related transactions

## 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> |    |                       |    |                                 |   |    |     |      |
|-------------|---------------------------------|--|-------------|-------------|----------------|--------------|----|-----------------------|----|---------------------------------|---|----|-----|------|
| IT101       | 350                             | <b>Assigned Identification</b><br><b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set<br><i>If the purchaser's line number is sent on the purchase order, IT101 is required and must equal the line number on that purchase order. When an electronic purchase order is sent, the line number in PO101 for the item being invoiced is the line number that is required in the IT101.</i>   | O           | AN          | 1/20           | Used         |    |                       |    |                                 |   |    |     |      |
| IT102       | 358                             | <b>Quantity Invoiced</b><br><b>Description:</b> Number of units invoiced (supplier units)<br><i>Value must be greater than zero.</i>   | C           | R           | 1/10           | Must use     |    |                       |    |                                 |   |    |     |      |
| IT103       | 355                             | <b>Unit or Basis for Measurement Code</b><br><b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br><i>Must equal the unit of measure as ordered by the buying party. See Table IV of the Appendix for Unit of Measure Code values.</i>   | C           | ID          | 2/2            | Must use     |    |                       |    |                                 |   |    |     |      |
| IT104       | 212                             | <b>Unit Price</b><br><b>Description:</b> Price per unit of product, service, commodity, etc.<br><i>Unit price will be expressed in unit of measure from data element 355. Unit price will be net of gross price, trade discounts and item-specific mark-ups, but will not be adjusted for payment terms or any order-specific special charges. Unit price must be greater than or equal to zero.</i>   | C           | R           | 1/17           | Must use     |    |                       |    |                                 |   |    |     |      |
| IT106       | 235                             | <b>Product/Service ID Qualifier</b><br><b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br><table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MF</td> <td>Manufacturer</td> </tr> <tr> <td>PI</td> <td>Purchaser's Item Code</td> </tr> <tr> <td>VP</td> <td>Vendor's (Seller's) Part Number</td> </tr> </tbody> </table><br><i>If the order was not sent electronically and the purchaser's item code is indicated, an occurrence of data elements 235/234 is required with 235 = "PI" and 234 equal to the purchaser's item code. If the order was sent electronically with an occurrence of data elements 235/234 with 235 = "PI", then an occurrence of data elements 235/234 is required with 235 = "PI".</i> | <u>Code</u> | <u>Name</u> | MF             | Manufacturer | PI | Purchaser's Item Code | VP | Vendor's (Seller's) Part Number | C | ID | 2/2 | Used |
| <u>Code</u> | <u>Name</u>                     |  |             |             |                |              |    |                       |    |                                 |   |    |     |      |
| MF          | Manufacturer                    |  |             |             |                |              |    |                       |    |                                 |   |    |     |      |
| PI          | Purchaser's Item Code           |  |             |             |                |              |    |                       |    |                                 |   |    |     |      |
| VP          | Vendor's (Seller's) Part Number |  |             |             |                |              |    |                       |    |                                 |   |    |     |      |
| IT107       | 234                             | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service   | C           | AN          | 1/48           | Used         |    |                       |    |                                 |   |    |     |      |



| <u>Ref</u>  | <u>Id</u>                       | <u>Element Name</u>   | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |    |                       |    |                                 |  |  |  |  |
|---|---------------------------------|---|-------------|-------------|----------------|--------------|----|-----------------------|----|---------------------------------|--|--|--|--|
| <i>IT108 through IT111 are repeating pairs of data elements 235 and 234.<br/>Notes shown in IT106 apply to all data elements 235.</i> |                                 |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| IT108   | 235                             | <b>Product/Service ID Qualifier</b><br><b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  | C           | ID          | 2/2            | Used         |    |                       |    |                                 |  |  |  |  |
|   |                                 | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MF</td> <td>Manufacturer</td> </tr> <tr> <td>PI</td> <td>Purchaser's Item Code</td> </tr> <tr> <td>VP</td> <td>Vendor's (Seller's) Part Number</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | MF             | Manufacturer | PI | Purchaser's Item Code | VP | Vendor's (Seller's) Part Number |  |  |  |  |
| <u>Code</u>   | <u>Name</u>                     |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| MF  | Manufacturer                    |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| PI  | Purchaser's Item Code           |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| VP  | Vendor's (Seller's) Part Number |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| IT109   | 234                             | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service  | C           | AN          | 1/48           | Used         |    |                       |    |                                 |  |  |  |  |
| IT110   | 235                             | <b>Product/Service ID Qualifier</b><br><b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  | C           | ID          | 2/2            | Used         |    |                       |    |                                 |  |  |  |  |
|   |                                 | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MF</td> <td>Manufacturer</td> </tr> <tr> <td>PI</td> <td>Purchaser's Item Code</td> </tr> <tr> <td>VP</td> <td>Vendor's (Seller's) Part Number</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | MF             | Manufacturer | PI | Purchaser's Item Code | VP | Vendor's (Seller's) Part Number |  |  |  |  |
| <u>Code</u>   | <u>Name</u>                     |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| MF  | Manufacturer                    |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| PI  | Purchaser's Item Code           |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| VP  | Vendor's (Seller's) Part Number |   |             |             |                |              |    |                       |    |                                 |  |  |  |  |
| IT111   | 234                             | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service  | C           | AN          | 1/48           | Used         |    |                       |    |                                 |  |  |  |  |

### Syntax:

- IT102 P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
- IT106 P0607 -- If either IT106 or IT107 are present, then the others are required.
- IT108 P0809 -- If either IT108 or IT109 are present, then the others are required.
- IT110 P1011 -- If either IT110 or IT111 are present, then the others are required.
- IT112 P1213 -- If either IT112 or IT113 are present, then the others are required.
- IT114 P1415 -- If either IT114 or IT115 are present, then the others are required.
- IT116 P1617 -- If either IT116 or IT117 are present, then the others are required.
- IT118 P1819 -- If either IT118 or IT119 are present, then the others are required.
- IT120 P2021 -- If either IT120 or IT121 are present, then the others are required.
- IT122 P2223 -- If either IT122 or IT123 are present, then the others are required.
- IT124 P2425 -- If either IT124 or IT125 are present, then the others are required.

### Semantics:

- IT101 is the line item identification.

### Comments:

- Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

# PID Product/Item Description

|                   |             |
|-------------------|-------------|
| Pos: 0600         | Max: 1      |
| Detail - Optional |             |
| Loop: PID         | Elements: 2 |

To describe a product or process in coded or free-form format

## 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> |  |  |  |  |
|-------------|-------------|---|-------------|-------------|----------------|--------------|--|--|--|--|
| PID01       | 349         | <b>Item Description Type</b><br><b>Description:</b> Code indicating the format of a description   | M           | ID          | 1/1            | Must use     |  |  |  |  |
|             |             | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Free-form</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | F              | Free-form    |  |  |  |  |
| <u>Code</u> | <u>Name</u> |   |             |             |                |              |  |  |  |  |
| F           | Free-form   |   |             |             |                |              |  |  |  |  |
| PID05       | 352         | <b>Description</b><br><b>Description:</b> A free-form description to clarify the related data elements and their content                                    | C           | AN          | 1/80           | Must use     |  |  |  |  |

## Syntax:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

## Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

## Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

# REF Reference Identification

|                   |             |
|-------------------|-------------|
| Pos: 1200         | Max: >1     |
| Detail - Optional |             |
| Loop: IT1         | Elements: 2 |

To specify identifying 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>          |  |  |  |  |
|-------------|-----------------------|--|-------------|-------------|----------------|-----------------------|--|--|--|--|
| REF01       | 128                   | <b>Reference Identification Qualifier</b><br><b>Description:</b> Code qualifying the Reference Identification  | M           | ID          | 2/3            | Must use              |  |  |  |  |
|             |                       | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> </tbody> </table>           | <u>Code</u> | <u>Name</u> | BM             | Bill of Lading Number |  |  |  |  |
| <u>Code</u> | <u>Name</u>           |  |             |             |                |                       |  |  |  |  |
| BM          | Bill of Lading Number |  |             |             |                |                       |  |  |  |  |
| REF02       | 127                   | <b>Reference Identification</b><br><b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | C           | AN          | 1/50           | Must use              |  |  |  |  |

## Syntax:

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

## Semantics:

- REF04 contains data relating to the value cited in REF02.

# DTM Date/Time Reference

|                   |             |
|-------------------|-------------|
| Pos: 1500         | Max: 10     |
| Detail - Optional |             |
| Loop: IT1         | Elements: 2 |

To specify pertinent dates and times

## 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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| DTM01      | 374       | <b>Date/Time Qualifier</b><br><b>Description:</b> Code specifying type of date or time, or both date and time               | M          | ID          | 3/3            | Must use     |
|            |           | <u>Code</u> <u>Name</u><br>011                              Shipped   |            |             |                |              |
| DTM02      | 373       | <b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | C          | DT          | 8/8            | Must use     |

## Syntax:

1. DTM02 R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
2. DTM04 C0403 -- If DTM04 is present, then DTM03 is required
3. DTM05 P0506 -- If either DTM05 or DTM06 are present, then the others are required.

# SAC Service, Promotion, Allowance, or Charge Information

|                   |             |
|-------------------|-------------|
| Pos: 1800         | Max: 1      |
| Detail - Optional |             |
| Loop: SAC         | Elements: 5 |

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:

| <u>Ref</u>  | <u>Id</u>                       | <u>Element Name</u>  | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
|-------------|---------------------------------|--|-------------|-------------|----------------|--------------|------|-----------|------|---------|------|---------|------|-------------------------------|------|----------|------|------------|------|--------|------|-----------------|------|----------------|------|--------------------|------|-----------|------|-------------------------------|------|-----------------|------|---------------------------------|------|-----|--|--|--|--|
| SAC01       | 248                             | <b>Allowance or Charge Indicator</b><br><b>Description:</b> Code which indicates an allowance or charge for the service specified<br><i>Only the following codes will be accepted:</i>   | M           | ID          | 1/1            | Must use     |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
|             |                                 | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Allowance</td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | A              | Allowance    | C    | Charge    |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| <u>Code</u> | <u>Name</u>                     |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| A           | Allowance                       |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| C           | Charge                          |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| SAC02       | 1300                            | <b>Service, Promotion, Allowance, or Charge Code</b><br><b>Description:</b> Code identifying the service, promotion, allowance, or charge<br><i>Only the following codes will be accepted unless SAC05 equals zero.</i>  | C           | ID          | 4/4            | Must use     |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
|             |                                 | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>B750</td><td>Core Charge</td></tr> <tr><td>C080</td><td>Demurrage</td></tr> <tr><td>C110</td><td>Deposit</td></tr> <tr><td>D240</td><td>Freight</td></tr> <tr><td>D360</td><td>Goods and Services Tax Charge</td></tr> <tr><td>D500</td><td>Handling</td></tr> <tr><td>D870</td><td>Inspection</td></tr> <tr><td>F180</td><td>Pallet</td></tr> <tr><td>G660</td><td>Scrap Allowance</td></tr> <tr><td>G740</td><td>Service Charge</td></tr> <tr><td>H330</td><td>State Sales Charge</td></tr> <tr><td>H550</td><td>Surcharge</td></tr> <tr><td>H660</td><td>Tax - Federal Excise Tax, FET</td></tr> <tr><td>H700</td><td>Tax - Local Tax</td></tr> <tr><td>H760</td><td>Tax - State Hazardous Substance</td></tr> <tr><td>H850</td><td>Tax</td></tr> </tbody> </table> <p><i>Use this code only if one of the more specific tax codes does not apply. SAC15 is required to describe this tax.</i></p> | <u>Code</u> | <u>Name</u> | B750           | Core Charge  | C080 | Demurrage | C110 | Deposit | D240 | Freight | D360 | Goods and Services Tax Charge | D500 | Handling | D870 | Inspection | F180 | Pallet | G660 | Scrap Allowance | G740 | Service Charge | H330 | State Sales Charge | H550 | Surcharge | H660 | Tax - Federal Excise Tax, FET | H700 | Tax - Local Tax | H760 | Tax - State Hazardous Substance | H850 | Tax |  |  |  |  |
| <u>Code</u> | <u>Name</u>                     |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| B750        | Core Charge                     |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| C080        | Demurrage                       |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| C110        | Deposit                         |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| D240        | Freight                         |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| D360        | Goods and Services Tax Charge   |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| D500        | Handling                        |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| D870        | Inspection                      |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| F180        | Pallet                          |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| G660        | Scrap Allowance                 |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| G740        | Service Charge                  |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H330        | State Sales Charge              |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H550        | Surcharge                       |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H660        | Tax - Federal Excise Tax, FET   |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H700        | Tax - Local Tax                 |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H760        | Tax - State Hazardous Substance |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H850        | Tax                             |  |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| SAC05       | 610                             | <b>Amount</b><br><b>Description:</b> Monetary amount<br><i>Must be greater than or equal to zero.</i>  | O           | N2          | 1/15           | Must use     |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| SAC13       | 127                             | <b>Reference Identification</b><br><b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br><i>Required for SAC02 = "D360", "H330", "H700", or "H760".<br/>Used to identify the taxing location.<br/>Format: SSZZZZZZZZ where</i>  | C           | AN          | 1/50           | Used         |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>   | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
|            |           | <i>SS is the postal abbreviation of the state/province of the taxing location. This portion of the element is required.<br/>           ZZZZZZZZ is the postal zip of the taxing location. This portion of the element is required for sales tax at any level.</i> |            |             |                |              |
| SAC15      | 352       | <b>Description</b><br><b>Description:</b> A free-form description to clarify the related data elements and their content<br><i>Literal explanation of charge.</i>   | C          | AN          | 1/80           | Used         |

**Syntax:**

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

**Semantics:**

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

**Comments:**

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

# TXI Tax Information

|                   |             |
|-------------------|-------------|
| Pos: 1900         | Max: 1      |
| Detail - Optional |             |
| Loop: TXI         | Elements: 4 |

To specify tax 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>       |    |                      |   |                  |   |             |  |  |  |  |
|-------------|----------------------|---|-------------|-------------|----------------|--------------------|----|----------------------|---|------------------|---|-------------|--|--|--|--|
| TXI01       | 963                  | <b>Tax Type Code</b><br><b>Description:</b> Code specifying the type of tax   | M           | ID          | 2/2            | Must use           |    |                      |   |                  |   |             |  |  |  |  |
|             |                      | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>FT</td> <td>Federal Excise Tax</td> </tr> <tr> <td>SP</td> <td>State/Provincial Tax</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | FT             | Federal Excise Tax | SP | State/Provincial Tax |   |                  |   |             |  |  |  |  |
| <u>Code</u> | <u>Name</u>          |   |             |             |                |                    |    |                      |   |                  |   |             |  |  |  |  |
| FT          | Federal Excise Tax   |   |             |             |                |                    |    |                      |   |                  |   |             |  |  |  |  |
| SP          | State/Provincial Tax |   |             |             |                |                    |    |                      |   |                  |   |             |  |  |  |  |
| TXI02       | 782                  | <b>Monetary Amount</b><br><b>Description:</b> Monetary amount   | C           | R           | 1/18           | Used               |    |                      |   |                  |   |             |  |  |  |  |
| TXI03       | 954                  | <b>Percent</b><br><b>Description:</b> Percentage expressed as a decimal   | C           | R           | 1/10           | Used               |    |                      |   |                  |   |             |  |  |  |  |
| TXI07       | 662                  | <b>Relationship Code</b><br><b>Description:</b> Code indicating the relationship between entities   | O           | ID          | 1/1            | Used               |    |                      |   |                  |   |             |  |  |  |  |
|             |                      | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Delete</td> </tr> <tr> <td>I</td> <td>Included</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> <tr> <td>S</td> <td>Substituted</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | D              | Delete             | I  | Included             | O | Information Only | S | Substituted |  |  |  |  |
| <u>Code</u> | <u>Name</u>          |   |             |             |                |                    |    |                      |   |                  |   |             |  |  |  |  |
| D           | Delete               |   |             |             |                |                    |    |                      |   |                  |   |             |  |  |  |  |
| I           | Included             |   |             |             |                |                    |    |                      |   |                  |   |             |  |  |  |  |
| O           | Information Only     |   |             |             |                |                    |    |                      |   |                  |   |             |  |  |  |  |
| S           | Substituted          |   |             |             |                |                    |    |                      |   |                  |   |             |  |  |  |  |

## Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.  
 P0405 -- If either TXI04 or TXI05 are present, then the others are required.  
 C0803 -- If TXI08 is present, then TXI03 is required

## Semantics:

- TXI02 is the monetary amount of the tax.
- TXI03 is the tax percent expressed as a decimal.
- TXI07 is a code indicating the relationship of the price or amount to the associated segment.

*This segment is optional and is designated for purchases made by Canadian railroads.*

# TDS Total Monetary Value Summary

|                     |             |
|---------------------|-------------|
| Pos: 0100           | Max: 1      |
| Summary - Mandatory |             |
| Loop: N/A           | Elements: 2 |

To specify the total invoice discounts and amounts

## 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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| TDS01      | 610       | Amount   | M          | N2          | 1/15           | Must use     |
|            |           | <b>Description:</b> Monetary amount<br><i>Must equal the sum of (IT102 X IT104) rounded to 2 decimals, for all IT1 segments plus the sum of all SAC05 elements (with the appropriate regard for the allowance or charge indicator, SAC01).</i> |            |             |                |              |
| TDS02      | 610       | Amount   | O          | N2          | 1/15           | Used         |
|            |           | <b>Description:</b> Monetary amount  |            |             |                |              |

## Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

## Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.



# CAD Carrier Detail

|                    |             |
|--------------------|-------------|
| Pos: 0300          | Max: 1      |
| Summary - Optional |             |
| Loop: N/A          | Elements: 5 |

To specify transportation details for the transaction

## 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>                             |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
|--|--|--|-------------|-------------|----------------|--|---|-------|---|---------------|---|-------------|---|-----------------|---|-----------------|---|--------------------------|---|-------|---|------------------|--|--|---|------------------------|---|----------------|---|---------------------|---|------|---|-------|---|------------------------|---|-----------------|---|------------------------|----|-----|----|----------|----|-----------|--|--|--|--|
| CAD01  | 91                                       | <b>Transportation Method/Type Code</b><br><b>Description:</b> Code specifying the method or type of transportation for the shipment  | O           | ID          | 1/2            | Used                                     |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
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| <u>Code</u>  | <u>Name</u>                              |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| A  | Air                                      |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| B  | Barge                                    |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| C  | Consolidation                            |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| D  | Parcel Post                              |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| E  | Expedited Truck                          |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| H  | Customer Pickup                          |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| I  | Common Irregular Carrier                 |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| J  | Motor                                    |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| L  | Contract Carrier                         |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| <i>Contract carrier as specified by purchaser.</i> |  |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| M  | Motor (Common Carrier)                   |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| N  | Private Vessel                           |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| O  | Containerized Ocean                      |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| R  | Rail                                     |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| S  | Ocean                                    |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| U  | Private Parcel Service                   |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| W  | Inland Waterway                          |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| X  | Intermodal (Piggyback)                   |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| BU   | Bus                                      |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| PL   | Pipeline                                 |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| SS   | Steamship                                |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| CAD04  | 140                                      | <b>Standard Carrier Alpha Code</b><br><b>Description:</b> Standard Carrier Alpha Code  | C           | ID          | 2/4            | Used                                     |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| CAD05  | 387                                      | <b>Routing</b><br><b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity<br><i>Alpha carrier name.</i>  | C           | AN          | 1/35           | Used                                     |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| CAD07  | 128                                      | <b>Reference Identification Qualifier</b><br><b>Description:</b> Code qualifying the Reference Identification<br><i>Required except when CAD01 = "U".<br/>Only the following code will be accepted:</i>  | O           | ID          | 2/3            | Used                                     |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
|  |  | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CN</td> <td>Carrier's Reference Number (PRO/Invoice)</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | CN             | Carrier's Reference Number (PRO/Invoice) |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| <u>Code</u>  | <u>Name</u>                              |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| CN   | Carrier's Reference Number (PRO/Invoice) |  |             |             |                |  |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |
| CAD08  | 127                                      | <b>Reference Identification</b><br><b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br><i>Required except when CAD01 = "U".</i>   | C           | AN          | 1/50           | Used                                     |   |       |   |               |   |             |   |                 |   |                 |   |                          |   |       |   |                  |  |  |   |                        |   |                |   |                     |   |      |   |       |   |                        |   |                 |   |                        |    |     |    |          |    |           |  |  |  |  |

**Syntax:**

1. CAD05 R0504 -- At least one of CAD05 or CAD04 is required.
2. CAD07 C0708 -- If CAD07 is present, then CAD08 is required

*This segment is required if a SAC segment is used with SAC02 = "D240" (Freight Charges)*

# SAC Service, Promotion, Allowance, or Charge Information

|                    |             |
|--------------------|-------------|
| Pos: 0400          | Max: 1      |
| Summary - Optional |             |
| Loop: SAC          | Elements: 5 |

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:

| <u>Ref</u>  | <u>Id</u>                       | <u>Element Name</u>   | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
|-------------|---------------------------------|---|-------------|-------------|----------------|--------------|------|-----------|------|---------|------|---------|------|-------------------------------|------|----------|------|------------|------|--------|------|-----------------|------|----------------|------|--------------------|------|-----------|------|-------------------------------|------|-----------------|------|---------------------------------|------|-----|--|--|--|--|
| SAC01       | 248                             | <b>Allowance or Charge Indicator</b><br><b>Description:</b> Code which indicates an allowance or charge for the service specified<br><i>Only the following codes will be accepted:</i>  | M           | ID          | 1/1            | Must use     |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
|             |                                 | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Allowance</td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> </tbody> </table>   | <u>Code</u> | <u>Name</u> | A              | Allowance    | C    | Charge    |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| <u>Code</u> | <u>Name</u>                     |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| A           | Allowance                       |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| C           | Charge                          |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| SAC02       | 1300                            | <b>Service, Promotion, Allowance, or Charge Code</b><br><b>Description:</b> Code identifying the service, promotion, allowance, or charge<br><i>Only the following codes will be accepted unless SAC05 equals zero.</i>   | C           | ID          | 4/4            | Must use     |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
|             |                                 | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>B750</td><td>Core Charge</td></tr> <tr><td>C080</td><td>Demurrage</td></tr> <tr><td>C110</td><td>Deposit</td></tr> <tr><td>D240</td><td>Freight</td></tr> <tr><td>D360</td><td>Goods and Services Tax Charge</td></tr> <tr><td>D500</td><td>Handling</td></tr> <tr><td>D870</td><td>Inspection</td></tr> <tr><td>F180</td><td>Pallet</td></tr> <tr><td>G660</td><td>Scrap Allowance</td></tr> <tr><td>G740</td><td>Service Charge</td></tr> <tr><td>H330</td><td>State Sales Charge</td></tr> <tr><td>H550</td><td>Surcharge</td></tr> <tr><td>H660</td><td>Tax - Federal Excise Tax, FET</td></tr> <tr><td>H700</td><td>Tax - Local Tax</td></tr> <tr><td>H760</td><td>Tax - State Hazardous Substance</td></tr> <tr><td>H850</td><td>Tax</td></tr> </tbody> </table> <i>Use this code only if one of the more specific tax codes does not apply, SAC15 is required to describe this tax.</i> | <u>Code</u> | <u>Name</u> | B750           | Core Charge  | C080 | Demurrage | C110 | Deposit | D240 | Freight | D360 | Goods and Services Tax Charge | D500 | Handling | D870 | Inspection | F180 | Pallet | G660 | Scrap Allowance | G740 | Service Charge | H330 | State Sales Charge | H550 | Surcharge | H660 | Tax - Federal Excise Tax, FET | H700 | Tax - Local Tax | H760 | Tax - State Hazardous Substance | H850 | Tax |  |  |  |  |
| <u>Code</u> | <u>Name</u>                     |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| B750        | Core Charge                     |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| C080        | Demurrage                       |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| C110        | Deposit                         |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| D240        | Freight                         |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| D360        | Goods and Services Tax Charge   |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| D500        | Handling                        |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| D870        | Inspection                      |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| F180        | Pallet                          |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| G660        | Scrap Allowance                 |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| G740        | Service Charge                  |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H330        | State Sales Charge              |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H550        | Surcharge                       |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H660        | Tax - Federal Excise Tax, FET   |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H700        | Tax - Local Tax                 |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H760        | Tax - State Hazardous Substance |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| H850        | Tax                             |   |             |             |                |              |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| SAC05       | 610                             | <b>Amount</b><br><b>Description:</b> Monetary amount<br><i>Must be greater than or equal to zero.</i>   | O           | N2          | 1/15           | Must use     |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |
| SAC13       | 127                             | <b>Reference Identification</b><br><b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br><i>Required for SAC02 = "D360", "H330", "H700", or "H760".<br/>           Used to identify the taxing location.<br/>           Format: SSZZZZZZZZ where</i>   | C           | AN          | 1/50           | Used         |      |           |      |         |      |         |      |                               |      |          |      |            |      |        |      |                 |      |                |      |                    |      |           |      |                               |      |                 |      |                                 |      |     |  |  |  |  |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>   | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
|            |           | <i>SS is the postal abbreviation of the state/province of the taxing location. This portion of the element is required.<br/>ZZZZZZZZ is the postal zip of the txing location. This portion of the element is required for sales tax at any level.</i> |            |             |                |              |
| SAC15      | 352       | <b>Description</b><br><b>Description:</b> A free-form description to clarify the related data elements and their content<br><i>Literal explanation of charge.</i>   | C          | AN          | 1/80           | Used         |

### Syntax:

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

### Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

### Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

# TXI Tax Information

|                           |                    |
|---------------------------|--------------------|
| <b>Pos: 0500</b>          | <b>Max: 1</b>      |
| <b>Summary - Optional</b> |                    |
| <b>Loop: TXI</b>          | <b>Elements: 4</b> |

To specify tax 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>           |    |                 |   |                  |   |             |  |  |  |  |
|-------------|------------------------|---|-------------|-------------|----------------|------------------------|----|-----------------|---|------------------|---|-------------|--|--|--|--|
| TXI01       | 963                    | <b>Tax Type Code</b><br><b>Description:</b> Code specifying the type of tax   | M           | ID          | 2/2            | Must use               |    |                 |   |                  |   |             |  |  |  |  |
|             |                        | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GS</td> <td>Goods and Services Tax</td> </tr> <tr> <td>ST</td> <td>State Sales Tax</td> </tr> </tbody> </table>   | <u>Code</u> | <u>Name</u> | GS             | Goods and Services Tax | ST | State Sales Tax |   |                  |   |             |  |  |  |  |
| <u>Code</u> | <u>Name</u>            |   |             |             |                |                        |    |                 |   |                  |   |             |  |  |  |  |
| GS          | Goods and Services Tax |   |             |             |                |                        |    |                 |   |                  |   |             |  |  |  |  |
| ST          | State Sales Tax        |   |             |             |                |                        |    |                 |   |                  |   |             |  |  |  |  |
| TXI02       | 782                    | <b>Monetary Amount</b><br><b>Description:</b> Monetary amount   | C           | R           | 1/18           | Used                   |    |                 |   |                  |   |             |  |  |  |  |
| TXI03       | 954                    | <b>Percent</b><br><b>Description:</b> Percentage expressed as a decimal   | C           | R           | 1/10           | Used                   |    |                 |   |                  |   |             |  |  |  |  |
| TXI07       | 662                    | <b>Relationship Code</b><br><b>Description:</b> Code indicating the relationship between entities   | O           | ID          | 1/1            | Used                   |    |                 |   |                  |   |             |  |  |  |  |
|             |                        | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Delete</td> </tr> <tr> <td>I</td> <td>Included</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> <tr> <td>S</td> <td>Substituted</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | D              | Delete                 | I  | Included        | O | Information Only | S | Substituted |  |  |  |  |
| <u>Code</u> | <u>Name</u>            |   |             |             |                |                        |    |                 |   |                  |   |             |  |  |  |  |
| D           | Delete                 |   |             |             |                |                        |    |                 |   |                  |   |             |  |  |  |  |
| I           | Included               |   |             |             |                |                        |    |                 |   |                  |   |             |  |  |  |  |
| O           | Information Only       |   |             |             |                |                        |    |                 |   |                  |   |             |  |  |  |  |
| S           | Substituted            |   |             |             |                |                        |    |                 |   |                  |   |             |  |  |  |  |

## Syntax:

1. TXI02 R020306 -- At least one of TXI02, TXI03 or TXI06 is required.
2. TXI04 P0405 -- If either TXI04 or TXI05 are present, then the others are required.
3. TXI08 C0803 -- If TXI08 is present, then TXI03 is required

## Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

*This segment is optional and is designated for purchases made by Canadian railroads.*

# SE Transaction Set Trailer

|                            |                    |
|----------------------------|--------------------|
| <b>Pos: 0800</b>           | <b>Max: 1</b>      |
| <b>Summary - Mandatory</b> |                    |
| <b>Loop: N/A</b>           | <b>Elements: 2</b> |

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        | <b>Number of Included Segments</b><br><b>Description:</b> Total number of segments included in a transaction set including ST and SE segments   | M          | N0          | 1/10           | Must use     |
| SE02       | 329       | <b>Transaction Set Control Number</b><br><b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set<br><i>Must be identical to the transaction set control number in the ST segment.</i> | M          | AN          | 4/9            | Must use     |

## Comments:

- SE is the last segment of each transaction set.