

# **Electronic Data Interchange**

## **Invoice Implementation Guideline**

### **Transaction Set 810 X12 Version 4010**

# ICS Interchange Control Structures

## Introduction:

The purpose of this standard is to define the control structures for the electronic interchange of one or more encoded business transactions including the EDI (Electronic Data Interchange) encoded transactions of Accredited Standards Committee X12. This standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

| <u>Page No.</u> | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>                 | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|-----------------|-----------------|----------------|-----------------------------|------------------|----------------|--------------------|---------------------------|
| 3               | 010             | ISA            | Interchange Control Header  | M                | 1              |                    |                           |
| 5               | 020             | GS             | Functional Group Header     | M                | 1              |                    |                           |
| 20              | 030             | GE             | Functional Group Trailer    | M                | 1              |                    |                           |
| 21              | 040             | IEA            | Interchange Control Trailer | M                | 1              |                    |                           |

**Segment:** **ISA Interchange Control Header**  
**Position:** 010  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To start and identify an interchange of zero or more functional groups and interchange-related control segments

**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

### Data Element Summary

| <u>Ref.</u> | <u>Data</u>    | <u>Name</u>  | <u>Attributes</u> |
|-------------|----------------|--|-------------------|
| <u>Des.</u> | <u>Element</u> |  |                   |
| ISA01       | I01            | <b>Authorization Information Qualifier</b><br>Code to identify the type of information in the Authorization Information<br>00 No Authorization Information Present (No Meaningful Information in I02)  | M ID 2/2          |
| ISA02       | I02            | <b>Authorization Information</b><br>Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)                              | M AN 10/10        |
| ISA03       | I03            | <b>Security Information Qualifier</b><br>Code to identify the type of information in the Security Information<br>00 No Security Information Present (No Meaningful Information in I04)   | M ID 2/2          |
| ISA04       | I04            | <b>Security Information</b><br>This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)   | M AN 10/10        |
| ISA05       | I05            | <b>Interchange ID Qualifier</b><br>Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified<br>ZZ Mutually Defined   | M ID 2/2          |
| ISA06       | I06            | <b>Interchange Sender ID</b><br>Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element<br>07253615T - TVA Test ID<br>07253615E - TVA Production ID     | M AN 15/15        |
| ISA07       | I05            | <b>Interchange ID Qualifier</b><br>Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified<br>01 Duns (Dun & Bradstreet)<br>02 SCAC (Standard Carrier Alpha Code)<br>12 Phone (Telephone Companies) | M ID 2/2          |

**ZZ Mutually Defined**

|              |            |  |          |   |
|--------------|------------|--|----------|---|
| <b>ISA08</b> | <b>I07</b> | <b>Interchange Receiver ID</b>   | <b>M</b> | <b>AN 15/15</b>                                     |
|              |            | Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them  |          |   |
|              |            | <b>Determined by Receiver</b>  |          |   |
| <b>ISA09</b> | <b>I08</b> | <b>Interchange Date</b>  | <b>M</b> | <b>DT 6/6</b>                                       |
|              |            | Date of the interchange  |          |   |
| <b>ISA10</b> | <b>I09</b> | <b>Interchange Time</b>  | <b>M</b> | <b>TM 4/4</b>                                       |
|              |            | Time of the interchange  |          |   |
| <b>ISA11</b> | <b>I10</b> | <b>Interchange Control Standards Identifier</b>  | <b>M</b> | <b>ID 1/1</b>                                       |
|              |            | Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer  |          |   |
|              |            | <b>U</b>   |          | <b>U.S. EDI Community of ASC X12, TDCC, and UCS</b> |
| <b>ISA12</b> | <b>I11</b> | <b>Interchange Control Version Number</b>  | <b>M</b> | <b>ID 5/5</b>                                       |
|              |            | This version number covers the interchange control segments  |          |   |
| <b>ISA13</b> | <b>I12</b> | <b>Interchange Control Number</b>  | <b>M</b> | <b>N0 9/9</b>                                       |
|              |            | A control number assigned by the interchange sender  |          |   |
| <b>ISA14</b> | <b>I13</b> | <b>Acknowledgment Requested</b>  | <b>M</b> | <b>ID 1/1</b>                                       |
|              |            | Code sent by the sender to request an interchange acknowledgment (TA1)   |          |   |
|              |            | <b>0</b>   |          | <b>No Acknowledgment Requested</b>                  |
| <b>ISA15</b> | <b>I14</b> | <b>Test Indicator</b>  | <b>M</b> | <b>ID 1/1</b>                                       |
|              |            | Code to indicate whether data enclosed by this interchange envelope is test or production  |          |   |
|              |            | <b>P</b>   |          | <b>Production Data</b>                              |
|              |            | <b>T</b>   |          | <b>Test Data</b>                                    |
| <b>ISA16</b> | <b>I15</b> | <b>Component Element Separator</b>   | <b>M</b> | <b>AN 1/1</b>                                       |
|              |            | Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator |          |   |
|              |            | <b>Mutually Defined</b>  |          |   |

**Segment:** **GS** Functional Group Header  
**Position:** 020  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a functional group and to provide control information

**Syntax Notes:**

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

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

**Data Element Summary**

| <u>Ref.</u> | <u>Data</u> | <u>Element</u> | <u>Name</u>  | <u>Attributes</u> |
|-------------|-------------|----------------|--|-------------------|
| GS01        | 479         |                | <b>Functional Identifier Code</b><br>Code identifying a group of application related transaction sets<br>IN Invoice (810)  | M ID 2/2          |
| GS02        | 142         |                | <b>Application Sender's Code</b><br>Code identifying party sending transmission; codes agreed to by trading partners<br><b>07253615T - TVA Test ID</b><br><b>07253615E - TVA Production ID</b>   | M AN 2/15         |
| GS03        | 124         |                | <b>Application Receiver's Code</b><br>Code identifying party receiving transmission; codes agreed to by trading partners   | M AN 2/15         |
| GS04        | 373         |                | <b>Date</b><br>Date (CCYYMMDD)   | M DT 8/8          |
| GS05        | 337         |                | <b>Time</b><br>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | M TM 4/8          |
| GS06        | 28          |                | <b>Group Control Number</b><br>Assigned number originated and maintained by the sender   | M N0 1/9          |
| GS07        | 455         |                | <b>Responsible Agency Code</b><br>Code used in conjunction with Data Element 480 to identify the issuer of the standard<br>X Accredited Standards Committee X12  | M ID 1/2          |
| GS08        | 480         |                | <b>Version / Release / Industry Identifier Code</b><br>Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and  | M AN 1/12         |

GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

**004010**

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

# 810 Invoice

Functional Group ID=**IN**

## Introduction:

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. No.</u> | <u>Seg. ID</u> | <u>Name</u>                          | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|---|-----------------|----------------|--------------------------------------|------------------|----------------|--------------------|---------------------------|
| M | 010             | ST             | Transaction Set Header               | M                | 1              |                    |                           |
| M | 020             | BIG            | Beginning Segment for Invoice        | M                | 1              |                    |                           |
|   |                 |                |                                      |                  |                | 200                |                           |
|   | 070             | N1             | Vendor Name                          | O                | 1              |                    |                           |
|   | 130             | ITD            | Terms of Sale/Deferred Terms of Sale | O                | >1             |                    |                           |

## Detail:

|   | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>                  | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|---|-----------------|----------------|------------------------------|------------------|----------------|--------------------|---------------------------|
|   |                 |                |                              |                  |                | 200000             |                           |
| M | 010             | IT1            | Baseline Item Data (Invoice) | M                | 1              |                    |                           |
|   |                 |                |                              |                  |                | 1000               |                           |
|   | 060             | PID            | Product/Item Description     | O                | 1              |                    |                           |
|   |                 |                |                              |                  |                | 1000               |                           |
|   | 200             | SLN            | Subline Item Detail          | O                | 1              |                    |                           |

## Summary:

|   | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>  | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|---|-----------------|----------------|--|------------------|----------------|--------------------|---------------------------|
| M | 010             | TDS            | Total Monetary Value Summary                         | M                | 1              |                    |                           |
|   |                 |                |  |                  |                | 25                 |                           |
|   | 040             | SAC            | Service, Promotion, Allowance, or Charge Information | O                | 1              |                    |                           |
| M | 080             | SE             | Transaction Set Trailer                              | M                | 1              |                    |                           |

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 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).  
**Comments:**

**Data Element Summary**

|   | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|---|------------------|---------------------|---|-------------------|
| M | ST01             | 143                 | Transaction Set Identifier Code<br>Code uniquely identifying a Transaction Set<br>810 Invoice   | M ID 3/3          |
| M | ST02             | 329                 | Transaction Set Control Number<br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M AN 4/9          |



**Segment:** **BIG** Beginning Segment for Invoice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

**Syntax Notes:**

- Semantic Notes:**
- 1 BIG01 is the invoice issue date.
  - 2 BIG03 is the date assigned by the purchaser to purchase order.
  - 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

- Comments:**
- 1 BIG07 is used only to further define the type of invoice when needed.

**Data Element Summary**

| Ref.        | Data           | Name   | Attributes |
|-------------|----------------|--|------------|
| <u>Des.</u> | <u>Element</u> |  |            |
| M           | BIG01          | 373 Date   | M DT 8/8   |
|             |                | Date expressed as CCYYMMDD   |            |
|             |                | Invoice Date   |            |
| M           | BIG02          | 76 Invoice Number  | M AN 1/22  |
|             |                | Identifying number assigned by issuer  |            |
|             | BIG04          | 324 Purchase Order Number  | O AN 1/22  |
|             |                | Identifying number for Purchase Order assigned by the orderer/purchaser  |            |
|             |                | TVA Purchase Order Number from the 850 BEG03 segment   |            |
|             | BIG05          | 328 Release Number   | O AN 1/30  |
|             |                | Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction |            |
|             |                | TVA Release Number from the 850 BEG04 segment  |            |

**Segment:** **N1** Vendor Name  
**Position:** 070  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:**

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

**Semantic Notes:**  
**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.

**Data Element Summary**

| Ref.        | Data           |             |   |                   |
|-------------|----------------|-------------|---|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> |   | <u>Attributes</u> |
| M           | N101           | 98          | <b>Entity Identifier Code</b><br>Code identifying an organizational entity, a physical location, property or an individual<br>VN Vendor                                 | M ID 2/3          |
|             | N102           | 93          | <b>Vendor Name</b><br>Free-form name  | X AN 1/60         |
|             | N103           | 66          | <b>Identification Code Qualifier</b><br>Code designating the system/method of code structure used for Identification Code (67)<br>92 Assigned by Buyer or Buyer's Agent | X ID 1/2          |
|             | N104           | 67          | <b>Identification Code</b><br>Code identifying a party or other code<br>TVA Vendor Number from 850 N104 segment   | X AN 2/80         |

**Segment:** **ITD** Terms of Sale/Deferred Terms of Sale  
**Position:** 130  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify terms of sale  
**Syntax Notes:**

- 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.

**Semantic Notes:**

- 1 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.

**Data Element Summary**

| <u>Ref.</u>  | <u>Data</u> | <u>Name</u>  | <u>Attributes</u> |
|--------------|-------------|--|-------------------|
| <b>ITD01</b> | <b>336</b>  | <b>Terms Type Code</b>   | <b>O ID 2/2</b>   |
|              |             | Code identifying type of payment terms   |                   |
|              |             | 05 Discount Not Applicable   |                   |
|              |             | 08 Basic Discount Offered  |                   |
| <b>ITD02</b> | <b>333</b>  | <b>Terms Basis Date Code</b>   | <b>O ID 1/2</b>   |
|              |             | Code identifying the beginning of the terms period   |                   |
|              |             | 3 Invoice Date   |                   |
| <b>ITD03</b> | <b>338</b>  | <b>Terms Discount Percent</b>  | <b>O R 1/6</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 |                   |
|              |             | Format: 999.999  |                   |
| <b>ITD05</b> | <b>351</b>  | <b>Terms Discount Days Due</b>   | <b>X N0 1/3</b>   |
|              |             | Number of days in the terms discount period by which payment is due if terms discount is earned  |                   |
| <b>ITD07</b> | <b>386</b>  | <b>Terms Net Days</b>  | <b>O N0 1/3</b>   |
|              |             | Number of days until total invoice amount is due (discount not applicable)   |                   |

**Segment:** **IT1** **Baseline Item Data (Invoice)**  
**Position:** 010  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
  - 2 If either IT106 or IT107 is present, then the other is required.
  - 3 If either IT108 or IT109 is present, then the other is required.
  - 4 If either IT110 or IT111 is present, then the other is required.
  - 5 If either IT112 or IT113 is present, then the other is required.
  - 6 If either IT114 or IT115 is present, then the other is required.
  - 7 If either IT116 or IT117 is present, then the other is required.
  - 8 If either IT118 or IT119 is present, then the other is required.
  - 9 If either IT120 or IT121 is present, then the other is required.
  - 10 If either IT122 or IT123 is present, then the other is required.
  - 11 If either IT124 or IT125 is present, then the other is required.

- Semantic Notes:** 1 IT101 is the purchase order line item identification.  
**Comments:**
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
  - 2 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.

#### Data Element Summary

| <u>Ref.</u><br><u>Des.</u> | <u>Data</u><br><u>Element</u> | <u>Name</u>  | <u>Attributes</u> |
|----------------------------|-------------------------------|--|-------------------|
| IT101                      | 350                           | <b>Assigned Identification</b><br>Alphanumeric characters assigned for differentiation within a transaction set<br>TVA Purchase Order Line Item Number from 850 PO101 segment  | <b>O AN 1/20</b>  |
| IT102                      | 358                           | <b>Quantity Invoiced</b><br>Number of units invoiced (supplier units)<br>Format: 99999999.99   | <b>X R 1/10</b>   |
| IT103                      | 355                           | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>Refer to 004010 Data Element Dictionary for acceptable code values. | <b>X ID 2/2</b>   |
| IT104                      | 212                           | <b>Unit Price</b><br>Price per unit of product, service, commodity, etc.<br>Format: 9999999999.999999  | <b>X R 1/17</b>   |

**Segment:** **PID** Product/Item Description

**Position:** 060

**Loop:** PID Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:**

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

**Semantic Notes:**

- 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.

#### Data Element Summary

| Ref.        | Data           | Name   | Attributes        |
|-------------|----------------|--|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u>  | <u>Attributes</u> |
| M           | PID01          | 349 Item Description Type  | M ID 1/1          |
|             |                | Code indicating the format of a description                                    |                   |
|             |                | F Free-form  |                   |
|             | PID05          | 352 Description  | X AN 1/80         |
|             |                | A free-form description to clarify the related data elements and their content |                   |
|             |                | Line Item Description  |                   |

**Segment:** **SLN** Subline Item Detail  
**Position:** 200  
**Loop:** SLN Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify product subline detail item data  
**Syntax Notes:**

- 1 If either SLN04 or SLN05 is present, then the other is required.
- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- 11 If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

**Semantic Notes:**

- 1 SLN01 is the identifying number for the subline item.
- 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

**Comments:**

- 1 See the Data Element Dictionary for a complete list of IDs.
- 2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
- 3 SLN09 through SLN28 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.

#### Data Element Summary

|    | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|----|------------------|---------------------|--|-------------------|
| M  | SLN01            | 350                 | <b>Assigned Identification</b><br>Alphanumeric characters assigned for differentiation within a transaction set<br>TVA Purchase Order Line Item Number from 850 PO101 segment  | <b>M AN 1/20</b>  |
| >> | SLN02            | 350                 | <b>Assigned Identification</b><br>Alphanumeric characters assigned for differentiation within a transaction set<br>CONT Contract Charges<br>COVR Cover Charges<br>ENVI Environmental Fee<br>EXPD Expediting Charge<br>MISC Miscellaneous<br>PAMW Payment Amount Withheld<br>PDSC Discount Amount Taken<br>PFRT Payment Freight Amount<br>PTAX Payment Tax Amount<br>RDEP Reconciliation Deposit<br>RWTH Reconciliation Withdrawal<br>SCHG Special Charges<br>SHDR Subline Header<br>SRCD Origin Location For Freight | <b>O AN 1/20</b>  |
| M  | SLN03            | 662                 | <b>Relationship Code</b><br>Code indicating the relationship between entities  | <b>M ID 1/1</b>   |

|          |               |             |  |     |          |               |
|----------|---------------|-------------|--|-----|----------|---------------|
|          |               |             | A  | Add |          |               |
|          | <b>SLN04</b>  | <b>380</b>  | <b>Quantity</b>  |     | <b>X</b> | <b>R 1/15</b> |
|          |               |             | Numeric value of quantity  |     |          |               |
|          |               |             | Format: 9999999999.99  |     |          |               |
|          | <b>SLN05</b>  | <b>C001</b> | <b>Composite Unit of Measure</b>   |     | <b>X</b> |               |
|          |               |             | To identify a composite unit of measure (See Figures Appendix for examples of use)                             |     |          |               |
| <b>M</b> | <b>C00101</b> | <b>355</b>  | <b>Unit or Basis for Measurement Code</b>  |     | <b>M</b> | <b>ID 2/2</b> |
|          |               |             | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |     |          |               |
|          |               |             | Refer to 004010 Data Element Dictionary for acceptable code values.  |     |          |               |
|          | <b>SLN06</b>  | <b>212</b>  | <b>Unit Price</b>  |     | <b>X</b> | <b>R 1/17</b> |
|          |               |             | Price per unit of product, service, commodity, etc.  |     |          |               |
|          |               |             | Format: 9999999999.999999  |     |          |               |

**Segment:** **TDS** Total Monetary Value Summary  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the total invoice discounts and amounts  
**Syntax Notes:**  
**Semantic Notes:**

- 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.

**Data Element Summary**

|   | <u>Ref.</u><br><u>Des.</u> | <u>Data</u><br><u>Element</u> | <u>Name</u>                                    | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | TDS01                      | 610                           | Amount   | M N2 1/15         |
|   |                            |                               | Monetary amount                                |                   |
|   |                            |                               | Total amount of Invoice before terms discount. |                   |
|   |                            |                               | Format: 9999999999999999                       |                   |



**Segment:** SAC Service, Promotion, Allowance, or Charge Information  
**Position:** 040  
**Loop:** SAC Optional  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
  - 2 If either SAC03 or SAC04 is present, then the other is required.
  - 3 If either SAC06 or SAC07 is present, then the other is required.
  - 4 If either SAC09 or SAC10 is present, then the other is required.
  - 5 If SAC11 is present, then SAC10 is required.
  - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
  - 7 If SAC14 is present, then SAC13 is required.
  - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 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. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
  - 3 SAC08 is the allowance or charge rate per unit.
  - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
  - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
  - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
  - 7 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 to further the code in 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.

#### Data Element Summary

| Ref.        | Data           | Name  | Attributes |
|-------------|----------------|---|------------|
| <u>Des.</u> | <u>Element</u> |   |            |
| M           | SAC01          | 248 Allowance or Charge Indicator   | M ID 1/1   |
|             |                | Code which indicates an allowance or charge for the service specified           |            |
|             |                | C Charge  |            |
|             | SAC03          | 559 Agency Qualifier Code   | X ID 2/2   |
|             |                | Code identifying the agency assigning the code values                           |            |
|             |                | Refer to 004010 Data Element Dictionary for acceptable code values.             |            |
|             | SAC04          | 1301 Agency Service, Promotion, Allowance, or Charge Code                       | X AN 1/10  |
|             |                | Agency maintained code identifying the service, promotion, allowance, or charge |            |
|             |                | CONT Contract Charges   |            |
|             |                | COVR Cover Charges  |            |
|             |                | ENVI Environmental Fee  |            |
|             |                | EXPD Expediting Charge  |            |
|             |                | MISC Miscellaneous  |            |
|             |                | PAMW Payment Amount Withheld  |            |
|             |                | PDSC Discount Amount Taken  |            |
|             |                | PFRT Payment Freight Amount   |            |
|             |                | PTAX Payment Tax Amount   |            |

|              |            |  |                  |
|--------------|------------|--|------------------|
|              |            | RDEP Reconciliation Deposit  |                  |
|              |            | RWTH Reconciliation Withdrawal   |                  |
|              |            | SCHG Special Charges   |                  |
|              |            | SHDR Subline Header  |                  |
|              |            | SRCD Origin Location For Freight   |                  |
| <b>SAC05</b> | <b>610</b> | <b>Amount</b>  | <b>O N2 1/15</b> |
|              |            | Monetary amount  |                  |
| <b>SAC08</b> | <b>118</b> | <b>Rate</b>  | <b>O R 1/9</b>   |
|              |            | Rate expressed in the standard monetary denomination for the currency specified                                |                  |
|              |            | Unit Price   |                  |
|              |            | Format: 999.999999   |                  |
| <b>SAC09</b> | <b>355</b> | <b>Unit or Basis for Measurement Code</b>  | <b>X ID 2/2</b>  |
|              |            | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |                  |
|              |            | Refer to 004010 Data Element Dictionary for acceptable code values.  |                  |
| <b>SAC10</b> | <b>380</b> | <b>Quantity</b>  | <b>X R 1/15</b>  |
|              |            | Numeric value of quantity  |                  |
|              |            | Format: 9999999999.99  |                  |
| <b>SAC15</b> | <b>352</b> | <b>Description</b>   | <b>X AN 1/80</b> |
|              |            | A free-form description to clarify the related data elements and their content                                 |                  |

**Segment:** **SE** Transaction Set Trailer  
**Position:** 080  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 SE is the last segment of each transaction set.

#### Data Element Summary

|   | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|---|------------------|---------------------|---|-------------------|
| M | SE01             | 96                  | Number of Included Segments<br>Total number of segments included in a transaction set including ST and SE segments  | M N0 1/10         |
| M | SE02             | 329                 | Transaction Set Control Number<br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M AN 4/9          |

**Segment: GE Functional Group Trailer**

**Position:** 030  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of a functional group and to provide control information

**Syntax Notes:**

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

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

**Data Element Summary**

| <u>Ref.</u> | <u>Data</u> | <u>Element Name</u>  | <u>Attributes</u> |
|-------------|-------------|--|-------------------|
| GE01        | 97          | <b>Number of Transaction Sets Included</b><br>Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element | <b>M N0 1/6</b>   |
| GE02        | 28          | <b>Group Control Number</b><br>Assigned number originated and maintained by the sender   | <b>M N0 1/9</b>   |

**Segment:** **IEA** Interchange Control Trailer  
**Position:** 040  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments

**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

| <u>Ref.</u> | <u>Data</u>    | <u>Name</u>  | <u>Attributes</u> |
|-------------|----------------|--|-------------------|
| <u>Des.</u> | <u>Element</u> |  |                   |
| IEA01       | I16            | <b>Number of Included Functional Groups</b><br>A count of the number of functional groups included in an interchange | <b>M N0 1/5</b>   |
| IEA02       | I12            | <b>Interchange Control Number</b><br>A control number assigned by the interchange sender                             | <b>M N0 9/9</b>   |