



810 Invoice

X12/V4010/810 : 810 Invoice

Version: 2.0

| | |
|------------------|-------------------|
| Created: | 8/16/2021 |
| Modified: | 10/13/2023 |

Table of Contents

| | |
|--|-----------|
| 810 Invoice | 1 |
| ISA Interchange Control Header | 3 |
| GS Functional Group Header | 5 |
| ST Transaction Set Header | 7 |
| BIG Beginning Segment for Invoice | 8 |
| REF Reference Identification | 9 |
| N1 Loop Name | 10 |
| N1 Name | 11 |
| N2 Additional Name Information | 12 |
| N3 Address Information | 13 |
| N4 Geographic Location | 14 |
| DTM Date/Time Reference | 15 |
| IT1 Loop Baseline Item Data (Invoice) | 16 |
| IT1 Baseline Item Data (Invoice) | 17 |
| REF Reference Identification | 19 |
| SAC Loop Service, Promotion, Allowance, or Charge Information | 20 |
| SAC Service, Promotion, Allowance, or Charge Information | 21 |
| TDS Total Monetary Value Summary | 23 |
| SAC Loop Service, Promotion, Allowance, or Charge Information | 24 |
| SAC Service, Promotion, Allowance, or Charge Information | 25 |
| CTT Transaction Totals | 27 |
| SE Transaction Set Trailer | 28 |
| GE Functional Group Trailer | 29 |
| IEA Interchange Control Trailer | 30 |

810 Invoice

Functional Group=IN

Purpose: 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.

Not Defined:

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

Heading:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> |
|---------------------|-----------|-------------------------------|------------|----------------|---------------|--------------|--------------|
| 010 | ST | Transaction Set Header | M | 1 | | | Must use |
| 020 | BIG | Beginning Segment for Invoice | M | 1 | | | Must use |
| 050 | REF | Reference Identification | O | 12 | | | Used |
| LOOP ID - N1 | | | | | 200 | | |
| 070 | N1 | Name | M | 1 | | | Must use |
| 080 | N2 | Additional Name Information | O | 2 | | | Used |
| 090 | N3 | Address Information | M | 2 | | | Used |
| 100 | N4 | Geographic Location | M | 1 | | | Used |
| 140 | DTM | Date/Time Reference | M | 10 | | | Must use |

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> |
|----------------------|-----------|--|------------|----------------|---------------|--------------|--------------|
| LOOP ID - IT1 | | | | | 200000 | | |
| 010 | IT1 | Baseline Item Data (Invoice) | M | 1 | | | Must use |
| 120 | REF | Reference Identification | O | >1 | | | Used |
| LOOP ID - SAC | | | | | 25 | | |
| 180 | SAC | Service, Promotion, Allowance, or Charge 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> |
|----------------------|-----------|--|------------|----------------|---------------|--------------|--------------|
| 010 | TDS | Total Monetary Value Summary | M | 1 | | | Must use |
| LOOP ID - SAC | | | | | 25 | | |
| 040 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | Used |
| 070 | CTT | Transaction Totals | O | 1 | | N3/070 | Used |
| 080 | SE | Transaction Set Trailer | M | 1 | | | Must use |

Not Defined:

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

Notes:

3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

ISA Interchange Control Header

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

User Option (Usage): Must use

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| ISA01 | I01 | Authorization Information Qualifier | M | ID | 2/2 | Must use |
| | | Description: Code to identify the type of information in the Authorization Information All valid standard codes are used. (Total Codes: 7) | | | | |
| ISA02 | I02 | Authorization Information | M | AN | 10/10 | Must use |
| | | Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) | | | | |
| ISA03 | I03 | Security Information Qualifier | M | ID | 2/2 | Must use |
| | | Description: Code to identify the type of information in the Security Information All valid standard codes are used. (Total Codes: 2) | | | | |
| ISA04 | I04 | Security Information | M | AN | 10/10 | Must use |
| | | Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) | | | | |
| ISA05 | I05 | Interchange ID Qualifier | M | ID | 2/2 | Must use |
| | | Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used. (Total Codes: 38) | | | | |
| ISA06 | I06 | Interchange Sender ID | M | AN | 15/15 | Must use |
| | | Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element | | | | |
| ISA07 | I05 | Interchange ID Qualifier | M | ID | 2/2 | Must use |
| | | Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used. (Total Codes: 38) | | | | |
| ISA08 | I07 | Interchange Receiver ID | M | AN | 15/15 | Must use |
| | | Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them | | | | |
| ISA09 | I08 | Interchange Date | M | DT | 6/6 | Must use |
| | | Description: Date of the interchange | | | | |
| ISA10 | I09 | Interchange Time | M | TM | 4/4 | Must use |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| | | Description: Time of the interchange | | | | |
| ISA11 | I10 | Interchange Control Standards Identifier | M | ID | 1/1 | Must use |
| | | Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer | | | | |
| | | All valid standard codes are used. (Total Codes: 1) | | | | |
| ISA12 | I11 | Interchange Control Version Number | M | ID | 5/5 | Must use |
| | | Description: Code specifying the version number of the interchange control segments | | | | |
| | | Code List Summary (Total Codes: 14, Included: 4) | | | | |
| | | Code Name | | | | |
| | | 00307 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1996 | | | | |
| | | 00400 Standard Issued as ANSI X12.5-1997 | | | | |
| | | 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997 | | | | |
| | | 00402 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1998 | | | | |
| ISA13 | I12 | Interchange Control Number | M | N0 | 9/9 | Must use |
| | | Description: A control number assigned by the interchange sender | | | | |
| ISA14 | I13 | Acknowledgment Requested | M | ID | 1/1 | Must use |
| | | Description: Code sent by the sender to request an interchange acknowledgment (TA1) | | | | |
| | | All valid standard codes are used. (Total Codes: 2) | | | | |
| ISA15 | I14 | Usage Indicator | M | ID | 1/1 | Must use |
| | | Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information | | | | |
| | | All valid standard codes are used. (Total Codes: 3) | | | | |
| ISA16 | I15 | Component Element Separator | M | | 1/1 | Must use |
| | | Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator | | | | |

GS Functional Group Header

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

User Option (Usage): Must use

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|---|-----------|---|------------|-------------|----------------|--------------|
| GS01 | 479 | Functional Identifier Code | M | ID | 2/2 | Must use |
| Description: Code identifying a group of application related transaction sets | | | | | | |
| Code List Summary (Total Codes: 240, Included: 1) | | | | | | |
| Code Name | | | | | | |
| IN Invoice Information (810,819) | | | | | | |
| GS02 | 142 | Application Sender's Code | M | AN | 2/15 | Must use |
| Description: Code identifying party sending transmission; codes agreed to by trading partners | | | | | | |
| GS03 | 124 | Application Receiver's Code | M | AN | 2/15 | Must use |
| Description: Code identifying party receiving transmission; codes agreed to by trading partners | | | | | | |
| GS04 | 373 | Date | M | DT | 8/8 | Must use |
| Description: Date expressed as CCYYMMDD | | | | | | |
| GS05 | 337 | Time | M | TM | 4/8 | Must use |
| Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | | | | | | |
| GS06 | 28 | Group Control Number | M | N0 | 1/9 | Must use |
| Description: Assigned number originated and maintained by the sender | | | | | | |
| GS07 | 455 | Responsible Agency Code | M | ID | 1/2 | Must use |
| Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 | | | | | | |
| All valid standard codes are used. (Total Codes: 2) | | | | | | |
| GS08 | 480 | Version / Release / Industry Identifier Code | M | AN | 1/12 | Must use |
| Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed | | | | | | |
| Code List Summary (Total Codes: 39, Included: 1) | | | | | | |
| Code Name | | | | | | |
| 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board | | | | | | |

Code Name
 through October 1997

Semantics:

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

Comments:

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

ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

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

Semantics:

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

BIG Beginning Segment for Invoice

| | |
|---------------------|-------------|
| Pos: 020 | Max: 1 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 8 |

User Option (Usage): Must use

Purpose: 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 | Date | M | DT | 8/8 | Must use |
| | | Description: Date expressed as CCYYMMDD | | | | |
| BIG02 | 76 | Invoice Number | M | AN | 1/22 | Must use |
| | | Description: Identifying number assigned by issuer | | | | |
| BIG03 | 373 | Date | M | DT | 8/8 | Must use |
| | | Description: Date expressed as CCYYMMDD | | | | |
| BIG04 | 324 | Purchase Order Number | M | AN | 1/22 | Must use |
| | | Description: Identifying number for Purchase Order assigned by the orderer/purchaser | | | | |
| BIG05 | 328 | Release Number | O | AN | 1/30 | Used |
| | | Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction | | | | |
| BIG06 | 327 | Change Order Sequence Number | O | AN | 1/8 | Used |
| | | Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set | | | | |
| BIG07 | 640 | Transaction Type Code | O | ID | 2/2 | Used |
| | | Description: Code specifying the type of transaction | | | | |
| | | All valid standard codes are used. (Total Codes: 446) | | | | |
| BIG10 | 76 | Invoice Number | O | AN | 1/22 | Used |
| | | Description: Identifying number assigned by issuer | | | | |

Semantics:

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.

REF Reference Identification

| | |
|--------------------|-------------|
| Pos: 050 | Max: 12 |
| Heading - Optional | |
| Loop: N/A | Elements: 3 |

User Option (Usage): Used

Purpose: 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 | Reference Identification Qualifier | M | ID | 2/3 | Must use |

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1503, Included: 2)

Code Name

PK Packing List Number
 VN Vendor Order Number

| | | | | | | |
|-------|-----|--------------------------|---|----|------|----------|
| REF02 | 127 | Reference Identification | M | AN | 1/30 | Must use |
|-------|-----|--------------------------|---|----|------|----------|

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

| | | | | | | |
|-------|-----|-------------|---|----|------|------|
| REF03 | 352 | Description | X | AN | 1/80 | Used |
|-------|-----|-------------|---|----|------|------|

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

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

Semantics:

- 1.

Loop Name

| | |
|-----------|---------------|
| Pos: 070 | Repeat: 200 |
| Mandatory | |
| Loop: N1 | Elements: N/A |

User Option (Usage): Used

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|-----------------------------|------------|----------------|---------------|--------------|
| 070 | N1 | Name | M | 1 | | Must use |
| 080 | N2 | Additional Name Information | O | 2 | | Used |
| 090 | N3 | Address Information | M | 2 | | Used |
| 100 | N4 | Geographic Location | M | 1 | | Used |

N1 Name

| | |
|---------------------|-------------|
| Pos: 070 | Max: 1 |
| Heading - Mandatory | |
| Loop: N1 | Elements: 2 |

Loop Path: N1

User Option (Usage): Must use

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

Element Summary:

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

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

Code List Summary (Total Codes: 1312, Included: 2)

| <u>Code</u> | <u>Name</u> |
|-------------|-------------|
| RI | Remit To |
| ST | Ship To |

| | | | | | | |
|------|----|------|---|----|------|----------|
| N102 | 93 | Name | M | AN | 1/60 | Must use |
|------|----|------|---|----|------|----------|

Description: Free-form name

Syntax Rules:

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

N2 Additional Name Information

| | |
|--------------------|-------------|
| Pos: 080 | Max: 2 |
| Heading - Optional | |
| Loop: N1 | Elements: 2 |

Loop Path: N1

User Option (Usage): Used

Purpose: To specify additional names or those longer than 35 characters in length

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 | M | AN | 1/60 | Must use |
| | | Description: Free-form name | | | | |
| N202 | 93 | Name | O | AN | 1/60 | Used |
| | | Description: Free-form name | | | | |

N3 Address Information

| | |
|---------------------|-------------|
| Pos: 090 | Max: 2 |
| Heading - Mandatory | |
| Loop: N1 | Elements: 2 |

Loop Path: N1

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

| | |
|---------------------|-------------|
| Pos: 100 | Max: 1 |
| Heading - Mandatory | |
| Loop: N1 | Elements: 4 |

Loop Path: N1

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| N401 | 19 | City Name | M | AN | 2/30 | Must use |
| | | Description: Free-form text for city name | | | | |
| N402 | 156 | State or Province Code | O | ID | 2/2 | Used |
| | | Description: Code (Standard State/Province) as defined by appropriate government agency | | | | |
| N403 | 116 | Postal Code | M | ID | 3/15 | Used |
| | | Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | | | |
| N404 | 26 | Country Code | M | ID | 2/3 | Must use |
| | | Description: Code identifying the country | | | | |

Syntax Rules:

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

Comments:

1. N402 is required only if city name (N401) is in the U.S. or Canada.

DTM Date/Time Reference

| | |
|---------------------|-------------|
| Pos: 140 | Max: 10 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 2 |

User Option (Usage): Must use

Purpose: 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 | Date/Time Qualifier | M | ID | 3/3 | Must use |

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1112, Included: 1)

| <u>Code</u> | <u>Name</u> |
|-------------|-------------|
| 011 | Shipped |

| | | | | | | |
|-------|-----|------|---|----|-----|----------|
| DTM02 | 373 | Date | M | DT | 8/8 | Must use |
|-------|-----|------|---|----|-----|----------|

Description: Date expressed as CCYYMMDD

Syntax Rules:

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

Loop Baseline Item Data (Invoice)

| | |
|-----------|-------------------|
| Pos: 010 | Repeat: 200000 |
| Mandatory | |
| Loop: IT1 | Elements: N/A |

User Option (Usage): Must use

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|------------------------------|------------|----------------|---------------|--------------|
| 010 | IT1 | Baseline Item Data (Invoice) | M | 1 | | Must use |
| 120 | REF | Reference Identification | O | >1 | | Used |
| 180 | | Loop SAC | O | | 25 | Used |

IT1 Baseline Item Data (Invoice)

| | |
|--------------------|-------------|
| Pos: 010 | Max: 1 |
| Detail - Mandatory | |
| Loop: IT1 | Elements: 9 |

Loop Path: IT1

User Option (Usage): Must use

Purpose: 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 | Assigned Identification | M | AN | 1/20 | Used |
| | | Description: Alphanumeric characters assigned for differentiation within a transaction set | | | | |
| IT102 | 358 | Quantity Invoiced | M | R | 1/10 | Used |
| | | Description: Number of units invoiced (supplier units) | | | | |
| IT103 | 355 | Unit or Basis for Measurement Code | M | ID | 2/2 | Used |
| | | Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | |
| | | Code List Summary (Total Codes: 794, Included: 1) | | | | |
| | | <u>Code</u> | <u>Name</u> | | | |
| | | EA | Each | | | |
| IT104 | 212 | Unit Price | M | R | 1/17 | Used |
| | | Description: Price per unit of product, service, commodity, etc. | | | | |
| IT105 | 639 | Basis of Unit Price Code | M | ID | 2/2 | Used |
| | | Description: Code identifying the type of unit price for an item | | | | |
| | | Code List Summary (Total Codes: 91, Included: 1) | | | | |
| | | <u>Code</u> | <u>Name</u> | | | |
| | | PE | Price per Each | | | |
| IT106 | 235 | Product/Service ID Qualifier | M | ID | 2/2 | Used |
| | | Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |
| | | Code List Summary (Total Codes: 477, Included: 1) | | | | |
| | | <u>Code</u> | <u>Name</u> | | | |
| | | VP | Vendor's (Seller's) Part Number | | | |
| IT107 | 234 | Product/Service ID | M | AN | 1/48 | Used |
| | | Description: Identifying number for a product or service | | | | |
| IT108 | 235 | Product/Service ID Qualifier | M | ID | 2/2 | Used |
| | | Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |
| | | Code List Summary (Total Codes: 477, Included: 1) | | | | |
| | | <u>Code</u> | <u>Name</u> | | | |
| | | BP | Buyer's Part Number | | | |

| | | | | | | |
|-------|-----|---------------------------|---|----|------|------|
| IT109 | 234 | Product/Service ID | M | AN | 1/48 | Used |
|-------|-----|---------------------------|---|----|------|------|

Description: Identifying number for a product or service

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.
7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.
11. P2425 - If either IT124 or IT125 is present, then the other is required.

Semantics:

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.

REF Reference Identification

| | |
|-------------------|-------------|
| Pos: 120 | Max: >1 |
| Detail - Optional | |
| Loop: IT1 | Elements: 3 |

Loop Path: IT1

User Option (Usage): Used

Purpose: 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 | Reference Identification Qualifier | M | ID | 2/3 | Must use |

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

PK Packing List Number

| | | | | | | |
|-------|-----|--------------------------|---|----|------|------|
| REF02 | 127 | Reference Identification | X | AN | 1/30 | Used |
|-------|-----|--------------------------|---|----|------|------|

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

| | | | | | | |
|-------|-----|-------------|---|----|------|------|
| REF03 | 352 | Description | X | AN | 1/80 | Used |
|-------|-----|-------------|---|----|------|------|

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

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

Semantics:

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

Loop Service, Promotion, Allowance, or Charge Information

| | |
|-----------|---------------|
| Pos: 180 | Repeat: 25 |
| Optional | |
| Loop: SAC | Elements: N/A |

Loop Path: IT1

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|--|------------|----------------|---------------|--------------|
| 180 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | Used |

SAC Service, Promotion, Allowance, or Charge Information

| | |
|-------------------|-------------|
| Pos: 180 | Max: 1 |
| Detail - Optional | |
| Loop: SAC | Elements: 5 |

Loop Path: IT1-SAC

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|-------------------------------|-----|------|---------|----------|
| SAC01 | 248 | Allowance or Charge Indicator | M | ID | 1/1 | Must use |

Description: Code which indicates an allowance or charge for the service specified

Code List Summary (Total Codes: 7, Included: 1)

Code Name

C Charge

| | | | | | | |
|-------|------|---|---|----|-----|------|
| SAC02 | 1300 | Service, Promotion, Allowance, or Charge Code | X | ID | 4/4 | Used |
|-------|------|---|---|----|-----|------|

Description: Code identifying the service, promotion, allowance, or charge

Code List Summary (Total Codes: 1053, Included: 6)

Code Name

A122 Additional Tariff Classifications
 C530 Duty Charge
 D730 Import Service Fee
 H535 Supplemental Duty
 H550 Surcharge
 H650 Tax - Excise Tax - Origin

| | | | | | | |
|-------|-----|--------|---|----|------|------|
| SAC05 | 610 | Amount | O | N2 | 1/15 | Used |
|-------|-----|--------|---|----|------|------|

Description: Monetary amount

| | | | | | | |
|-------|-----|---|---|----|-----|------|
| SAC12 | 331 | Allowance or Charge Method of Handling Code | O | ID | 2/2 | Used |
|-------|-----|---|---|----|-----|------|

Description: Code indicating method of handling for an allowance or charge

Code List Summary (Total Codes: 22, Included: 1)

Code Name

06 Charge to be Paid by Customer

| | | | | | | |
|-------|-----|-------------|---|----|------|------|
| SAC15 | 352 | Description | X | AN | 1/80 | Used |
|-------|-----|-------------|---|----|------|------|

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.

4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A", then SAC05 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.

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.

TDS Total Monetary Value Summary

| | |
|---------------------|-------------|
| Pos: 010 | Max: 1 |
| Summary - Mandatory | |
| Loop: N/A | Elements: 1 |

User Option (Usage): Must use

Purpose: 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 |

Description: Monetary amount

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

Loop Service, Promotion, Allowance, or Charge Information

| | |
|-----------|---------------|
| Pos: 040 | Repeat: 25 |
| Optional | |
| Loop: SAC | Elements: N/A |

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|--|------------|----------------|---------------|--------------|
| 040 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | Used |

SAC Service, Promotion, Allowance, or Charge Information

| | |
|--------------------|-------------|
| Pos: 040 | Max: 1 |
| Summary - Optional | |
| Loop: SAC | Elements: 6 |

Loop Path: SAC

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

| <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 | Allowance or Charge Indicator | M | ID | 1/1 | Must use |

Description: Code which indicates an allowance or charge for the service specified

Code List Summary (Total Codes: 7, Included: 2)

Code Name

A Allowance
C Charge

| | | | | | | |
|-------|------|--|---|----|-----|----------|
| SAC02 | 1300 | Service, Promotion, Allowance, or Charge Code | X | ID | 4/4 | Must use |
|-------|------|--|---|----|-----|----------|

Description: Code identifying the service, promotion, allowance, or charge

Code List Summary (Total Codes: 1053, Included: 1)

Code Name

A122 Additional Tariff Classifications

| | | | | | | |
|-------|-----|---------------|---|----|------|----------|
| SAC05 | 610 | Amount | M | N2 | 1/15 | Must use |
|-------|-----|---------------|---|----|------|----------|

Description: Monetary amount

| | | | | | | |
|-------|-----|---|---|----|-----|----------|
| SAC06 | 378 | Allowance/Charge Percent Qualifier | X | ID | 1/1 | Not used |
|-------|-----|---|---|----|-----|----------|

Description: Code indicating on what basis allowance or charge percent is calculated

All valid standard codes are used. (Total Codes: 11)

| | | | | | | |
|-------|-----|--|---|----|-----|------|
| SAC12 | 331 | Allowance or Charge Method of Handling Code | O | ID | 2/2 | Used |
|-------|-----|--|---|----|-----|------|

Description: Code indicating method of handling for an allowance or charge

Code List Summary (Total Codes: 22, Included: 2)

Code Name

05 Charge to be Paid by Vendor
06 Charge to be Paid by Customer

| | | | | | | |
|-------|-----|--------------------|---|----|------|------|
| SAC15 | 352 | Description | X | AN | 1/80 | Used |
|-------|-----|--------------------|---|----|------|------|

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.

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

Semantics:

1. If SAC01 is "A", then SAC05 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.

Comments:

- 1.

CTT Transaction Totals

| | |
|--------------------|-------------|
| Pos: 070 | Max: 1 |
| Summary - Optional | |
| Loop: N/A | Elements: 2 |

User Option (Usage): Used

Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|----------------------|------------|-------------|----------------|--------------|
| CTT01 | 354 | Number of Line Items | M | N0 | 1/6 | Must use |

Description: Total number of line items in the transaction set

| | | | | | | |
|-------|-----|------------|---|---|------|------|
| CTT02 | 347 | Hash Total | O | R | 1/10 | Used |
|-------|-----|------------|---|---|------|------|

Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE Transaction Set Trailer

| | |
|---------------------|-------------|
| Pos: 080 | Max: 1 |
| Summary - Mandatory | |
| Loop: N/A | Elements: 2 |

User Option (Usage): Must use

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| SE01 | 96 | Number of Included Segments | M | N0 | 1/10 | Must use |
| | | Description: Total number of segments included in a transaction set including ST and SE segments | | | | |
| SE02 | 329 | Transaction Set Control Number | M | AN | 4/9 | Must use |
| | | Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | | |

Comments:

1. SE is the last segment of each transaction set.

GE Functional Group Trailer

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

User Option (Usage): Must use

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

Element Summary:

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

Semantics:

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

Comments:

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

IEA Interchange Control Trailer

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

User Option (Usage): Must use

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| IEA01 | I16 | Number of Included Functional Groups | M | N0 | 1/5 | Must use |
| | | Description: A count of the number of functional groups included in an interchange | | | | |
| IEA02 | I12 | Interchange Control Number | M | N0 | 9/9 | Must use |
| | | Description: A control number assigned by the interchange sender | | | | |