

Electronic Data Interchange

Invoice<br>X12 4010810<br>Implementation Guide

Release Date: Dec, 2015
Version 1.6

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## Summary of Changes

| Date | Name | Section | Description of Change | Reason for Change |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { April 24, } \\ & 2002 \end{aligned}$ | Tyler <br> MacDonald |  | Creation of EDI 810 Imp Guide |  |
| $\begin{aligned} & \text { August 22, } \\ & 2002 \end{aligned}$ | Pardeep Sidhu |  | Add Best Buy/Future Shop Logo | To reflect new Corporate name and two divisions (Best Buy and Future Shop) |
| $\begin{aligned} & \text { August 27, } \\ & 2002 \end{aligned}$ | Pardeep Sidhu |  | All 3 occurrences of the N1 segment mandatory. | Accounting requires Ship To, Bill To, Remit To data transmitted in the 810 message. |
| $\begin{aligned} & \text { Sept. 3, } \\ & 2002 \end{aligned}$ | Pardeep Sidhu |  | Change SAC Segment loop repetitions | SAC loop repetitions aligned with V4010 definitions |
| Feb 5, 2003 | Pardeep Sidhu |  | Multiple Changes. | BIG - Debit Invoices Only <br> N3 - Added N302 data element ITD - Clarification and additional examples. <br> DTM - Eliminated segment usage. <br> IT1 - Additional codes for IT105 and conditionality for other elements. <br> PID - Mandatory Segment. <br> SKU Description Mandatory. <br> REF - Eliminated segment usage. <br> TDS - Additional clarification and example. <br> CAD/SAC/ISS/PID - <br> Eliminated segment usage. |
| $\begin{aligned} & \text { Dec } 28 \\ & 2015 \end{aligned}$ | Anup Roy Guillermo Romero |  | - Remove all references to Future Shop <br> - New Logo <br> - PST tax validation for Inventory PO | - Single Brand <br> - PST not allowed for inventory POs <br> - TXI - Please check the note 4 |
| Jan 272016 |  |  | Correct Note 5 in TXI section: TDS01 (Total Invoice Amount) and TXI (Sum of Taxes) |  |

## Contact Information

## Business Contact

| Name | EDI Coordinator |
| :--- | :--- |
| Electronic Mail | edi $@$ bestbuycanada.ca |

## Technical Contact

| Name | EDI Team |
| :--- | :--- |
| Electronic Mail | edi@ $@$ bestbuycanada.ca |

## Corporate Information

| Canadian Head Office Mailing Address | 8800 Glenlyon Parkway, Burnaby, BC, V5J 5K3, Canada |
| :--- | :--- |
| Head Office Telephone Number | $(604) 435-8223$ |
| Head Office Fax Number | $(604) 412-5280$ |
| Best Buy Canada Web Store Address | $\underline{\text { www.BestBuy.ca }}$ |
| Best Buy Canada EDI Business Team <br> Electronic Mail | edi@bestbuycanada.ca |
|  |  |

## Purpose of This Transaction

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.

This transaction set will be used to load invoice information directly into Best Buy Canada's back-end systems. This will eliminate the need for manual invoice entry. The information being captured is all information currently associated with hard copy invoices that Best Buy Canada receives from its trading partners.

## Invoice

## Functional Group=|N

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: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|  | ISA | Interchange Control Header | M | 1 |  |  | Must use |
|  | GS | Functional Group Header | M | 1 |  |  | Must use |
| Heading: |  |  |  |  |  |  |  |
| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
| 010 | ST | Transaction Set Header | M | 1 |  |  | Must use |
| 020 | BIG | Beginning Segment for Ship Notice | M | 1 |  |  | Must use |
| 030 | NTE | Note/Special Instructions | 0 | 100 |  |  | Used |
| 040 | CUR | Currency | M | 1 |  |  | Must Use |
| 050 | REF | Reference Field | 0 | 12 |  |  | Used |
| LOOP ID - N1 |  | 200 |  |  |  |  |  |
| 070 | N1 | Company Name | M | 1 |  |  | Must use |
| 090 | N3 | Address | M | 2 |  |  | Must use |
| 100 | N4 | Location | M | 1 |  |  | Must use |
| 120 | PER | Administrative Communication Contact | 0 | 3 |  |  | Used |
| 130 | ITD | Terms of Sale/Deferred Terms of Sale | 0 | >1 |  |  | Used |
| 140 | DTM | Date/Time Reference | 0 | 10 |  |  | Used |
| Detail: |  |  |  |  |  |  |  |
| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
| Loop | IT1 |  | 0 |  | 200000 |  |  |
| 010 | IT1 | Baseline Item Data | M | 1 |  |  |  |
| LOOP ID - PID |  |  |  |  | 1000 |  |  |
| 060 | PID | Product/Item Description | M | 1 |  |  | Used |
| Summary: |  |  |  |  |  |  |  |
| Pos | Id | Segment Name | Reg | Max Use | Repeat | Notes | Usage |
| 010 | TDS | Total Monetary Value Summary | M | 1 |  |  | Used |
| 020 | TXI | Tax Information | M | 10 |  |  |  |
| 030 | CAD | Carrier Detail | 0 | 1 |  |  |  |
| 040 | SAC | Service | 0 | 25 |  |  |  |
| LOOP ID - CTT |  |  |  |  | 1 | N3/0100L |  |
| 070 | CTT | Transaction Totals | 0 | 1 |  | N3/0100 | Used |
| 080 | SE | Transaction Set Trailer | M | 1 |  |  | Must use |
| Not Defined: |  |  |  |  |  |  |  |
| Pos | Id | Segment Name | Reg | Max Use | Repeat | Notes | Usage |
|  | GE | Functional Group Trailer | M | 1 |  |  | Must use |
|  | IEA | Interchange Control Trailer | M | 1 |  |  | Must use |

## Notes:

There is a one-to-one relationship between Invoice Number and Purchase Order Number in Best Buy Canada's Systems; as a result, one Invoice document can refer to one Purchase Order only. However, there can be more than 1 Invoice related to a particular PO, with each Invoice being a separate document and related to the same PO Number.

Best Buy Canada requires Invoices to have a one-to-one relationship with Packing Slips. Each Invoice should refer to 1 (and only 1) packing slip. With this being the case, we would like the packing slip number to be included in the REF segment, using the qualifier 'PK' in the 01 element.

Currency reported in the CUR segment MUST be the same as the currency listed on the Purchase Order. EDI 810 document will be rejected where the currency for the Invoice does not match the currency on the EDI 850 Purchase Order.

Please note that in the IT1 segment, element 01 is the Purchase order Line Number. The Line Number from the original Best Buy Canada PO containing the listed SKU is what gets returned in the IT101 element.

Please note the PID Segment in the IT1 Loop is Mandatory. The SKU description must appear in the PID segment.

Trading Partners that charge GST to Best Buy Canada on their invoices must supply their GST Registration Number in the REF segment.

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:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ISA01 | 101 | Authorization Information Qualifier | M | ID | 2/2 | Must use |
|  |  | Description: Code identifying the type of information in the Authorization Information |  |  |  |  |
|  |  | CodeList Summary (Total Codes: 7, Included: 1) |  |  |  |  |
|  |  | Code Name |  |  |  |  |
|  |  | 00 No Authorization Inform | rese | o Me | grual Infor | in I02) |
| ISA02 | 102 | Authorization Information | O | AN | 10/10 | Used |

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 | 103 | Security Information Qualifier | M | ID | 2/2 | Must use |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Description: Code identifying the type of information in the Security Information |  |  |  |  |
|  |  | CodeList Summary (Total Codes: 2, Included: 1) |  |  |  |  |
|  |  | Name |  |  |  |  |
|  |  | 00 No Security Information Present (No Meaningful Information in I04) |  |  |  |  |
| ISA04 | 104 | Security Information | O | AN | 10/10 | Used |
|  |  | 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 (IO3) |  |  |  |  |
| ISA05 | 105 | Interchange ID Qualifier | M | ID | 2/2 | Must use |
|  |  | Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified |  |  |  |  |
|  |  | CodeList Summary (Total Codes: 41, Included: 1) |  |  |  |  |
|  |  | Name |  |  |  |  |
|  |  | 12 Phone (Telephone Companies) |  |  |  |  |
| ISA06 | 106 | Interchange Sender ID | M | AN | 15/15 |  |

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 | 105 | Interchange ID Qualifier | M | ID | 2/2 | Must use |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified <br> All valid standard codes are used. (Total Codes: 41) |  |  |  |  |
| ISA08 | 107 | Interchange Receiver ID | M | AN | 15/15 | Must use |
|  |  | Description: Identification code publis used by the sender as their sending ID receiving ID to route data to them |  |  | data; ng to | ending, it is use this as a |
| ISA09 | 108 | Interchange Date | M | DT | 6/6 | Must use |
|  |  | Description: Date of the interchange |  |  |  |  |
| ISA10 | 109 | Interchange Time | M | TM | 4/4 | Must use |

Description: Time of the interchange

Repetition Separator
M
1/1
Must use
Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator
Interchange Control Version Number M ID $5 / 5 \quad$ Must use

Description: Code specifying the version number of the interchange control segments
CodeList Summary (Total Codes: 15, Included: 1)
Code Name
00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board
$\begin{array}{lllll}\text { Interchange Control Number } & \text { M } & \text { NO } & \text { 9/9 } & \text { Must use }\end{array}$
Description: A control number assigned by the interchange sender
$\begin{array}{llll}\text { Acknowledgment Requested } & \text { M ID } & 1 / 1 & \text { Must use }\end{array}$
Description: Code indicating sender's request for an interchange acknowledgment
CodeList Summary (Total Codes: 2, Included: 1)
Code Name
1 Acknowledgment Requested
Usage Indicator M ID Must use
Description: Code indicating whether data enclosed by this interchange envelope is test, production or information
CodeList Summary (Total Codes: 3, Included: 2)
Code Name
$P \quad$ Production Data
T Test Data
$\begin{array}{lll}\text { Component Element Separator } & \text { M } 1 / 1 \quad \text { Must use }\end{array}$
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

User Option (Usage): Must use
Purpose: To indicate the beginning of a functional group and to provide control information

| Element Summary: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| GS01 | 479 | Functional Identifier Code | M | ID | 2/2 | Must use |
|  |  | Description: Code identifying a group of application related transaction sets |  |  |  |  |
|  |  | CodeList Summary (Total Codes: 263, Included: 1) |  |  |  |  |
|  |  | Name |  |  |  |  |
|  |  | IN Invoice (810) |  |  |  |  |
| 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 where CC represents the first two digits of the calendar year
GS05 337 Time M $\quad$ MM $4 / 8 \quad$ Must use

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

| GS06 | 28 | Group Control Number | M | NO | 1/9 | Must use |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Description: Assigned number originated and maintained by the sender |  |  |  |  |
| GS07 | 455 | Responsible Agency Code | M | ID | 1/2 | Must use |
|  |  | Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 |  |  |  |  |
|  |  | CodeList Summary (Total Codes: 2, Included: 1) |  |  |  |  |
|  |  | Code Name |  |  |  |  |
|  |  | X Accredited Standards Com | X |  |  |  |
| GS08 | 480 | Version / Release / Industry Identifier Code | M | AN | 1/12 | Must use |

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

CodeList Summary (Total Codes: 41, Included: 1)
Code Name
004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board

## 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 $X 12$ standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

## 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:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ST01 | 143 | Transaction Set Identifier Code | M | ID | 3/3 | Must use |
|  |  | Description: Code uniquely identifying a Transaction Set |  |  |  |  |
|  |  | Code Name |  |  |  |  |
|  |  | 810 Invoice |  |  |  |  |
| ST02 | 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 |  |  |  |  |

## 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.

Beginning Segment for Invoice

| Pos: 020 | Max: 1 |
| :---: | :---: |
| Heading | Mandatory |
| Loop: N/A | Elements: 5 |

User Option (Usage): Must use
Purpose: To indicate the beginning of an invoice transaction set and transmits identifying numbers and dates
Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BIG01 | 373 | Invoice Date | M | DT | 8/8 | Must use |
|  |  | Description: Inv |  |  |  |  |
| BIG02 | 76 | Invoice Number | M | AN | 1/22 | Must use |
|  |  | Description: Cod | chas | Order |  |  |
| BIG03 | 373 | Date | O | DT | 8/8 | Must use |

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year; assigned by the purchaser to purchase order

| BIG04 | 324 | Purchase Order Number | O | AN | $1 / 22$ | Used |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | Description: Identifying number for Purchase | Order assigned by the orderer/purchaser |  |  |  |

## Semantic Notes:

1. The code 'DR' in the BIG07 element is "Debit". BestBuy Canada Systems will only process DR type (Debit) Invoices. Codes other than 'DR' in the BIG07 data element will result in a rejection of the EDI 810 message.
2. Best Buy Canada System currently CANNOT process Credit Invoices (Code CR in BIG 07) via EDI.

Please use manual (Mail/Paper/Fax) processes to send Credit Invoices to BestBuy Canada Ltd.
3. BIG01 is the invoice issue date
4. BIG03 is the date assigned by the purchaser to purchase order
5. BIG10 indicates the consolidated invoice number. When BIG07 contains code $\mathrm{CI}, \mathrm{BIG10}$ is not used.

## Comments:

1. BIG07 is used only to further define the type of invoice when needed.

## NTE

Note/Special Instruction

| Pos: 030 | Max: 100 |
| :---: | :---: |
| Heading | Optional |
| Loop: N/A | Elements: 2 |

User Option (Usage): Must use
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction


## Notes:

1. This segment is used to supply any comments or special instructions pertaining to the invoice. This field is text only and currently has no impact on the Invoice amount or the invoice terms.

## Comments:

1. The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

## CUR <br> Currency

| Pos: 040 | Max: 1 |
| :---: | :---: |
| Heading | Optional |
| Loop: N/A | Elements: 2 |

User Option (Usage): Must use
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Element Summary:

| Ref | $\frac{\text { Id }}{\text { CUR01 }}$ | 98 | Element Name <br> Entity Identifier Code <br> Description: <br> Code$\quad \frac{\text { Name }}{M}$ | $\frac{\text { Type }}{\text { ID }}$ | $\frac{\text { Min/Max }}{2 / 3}$ | Usage <br> Used |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| CUR02 | 100 | Invoice | Currency Code <br> Description: CAD or USD |  | ID | $3 / 3$ |$\quad$ Must use

## Notes:

1. This segment is used to supply any comments or special instructions pertaining to the invoice. This field is text only and currently has no impact on the Invoice amount or the invoice terms.

## REF

## Reference Identification

| Pos: 050 | Max: 12 |
| :---: | :---: |
| Heading | Optional |
| Loop: N/A | Elements: 2 |

User Option (Usage): Must use
Purpose: To specify identifying information
Element Summary:

| Ref | Id | Element Name |  | Req | Type | Min/Max | Usage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REF01 | 128 | Refer | dentification Qualifier | M | ID | 2/3 | Used |
|  |  | Descr | Code qualifying the Refe | tificati |  |  |  |
|  |  | Code | Name |  |  |  |  |
|  |  | GT | GST Registration Num |  |  |  |  |
|  |  | PK | Tracking Number |  |  |  |  |
|  |  | BM | Bill of Lading |  |  |  |  |
| REF02 | 127 | Refer | dentification | 0 | AN | 1/30 | Used |

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

## Semantic Notes:

1. Data elements REF 01 and REF 02 are paired elements. If one data element exists then the other MUST also be used.
2. The following is a sample of typical uses for this REF segment:

- GT - Goods and Services Tax Registration Number
- VN - Vendor Order Number
- BM - Bill of Lading Number
- PK - Tracking Number

3. If Federal GST Tax is charged in the TXI segment, then the GST registration number MUST be reported in the REF segment (See Note 2 on Page 33).
4. BestBuy Canada would like to request that Vendors return a tracking number in the EDI 810 message. The tracking number can be a Packing Slip, Shipment number, etc. which uniquely identifies each shipment and will be recognized by the Vendor's accounting department. This number should be unique for each shipment and hence unique for each Invoice.

Please use the qualifier "PK" to transmit the tracking number.
The tracking number is an optional data element.

## Syntax Notes:

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


## Notes:

1. Data elements N101 and N102 are paired elements. If one data element exists then the other MUST also be used.
2. All 3 occurrences of the N1 segment are Mandatory

## Address Information

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

User Option (Usage): Must use
Purpose: To specify the location of the named party
Element Summary:


Geographic Location

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

User Option (Usage): Must use
Purpose: To specify the geographic place of the named party
Element Summary:


## PER

Administrative Communication Contact

| Pos: 060 | Max: 3 |
| :---: | :---: |
| Heading | Optional |
| Loop: N1 | Elements: 4 |

User Option (Usage): Must use
Purpose: To identify a person or office to whom administrative communications should be directed
Element Summary:

| Ref <br> PER01 | $\frac{\text { Id }}{366}$ | Element Name | Req | Type | Min/Max | Usage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Contact Function Code | M | ID | 2/2 | Used |
|  |  | Description: Code identifying the major duty or responsibility of the person or group named |  |  |  |  |
|  |  | $\frac{\text { Code }}{\text { AA }} \quad \frac{\text { Name }}{\text { Authorized Representative }}$ |  |  |  |  |
|  |  |  |  |  |  |  |
| PER02 | 93 | Name | 0 | AN | 1/60 | Must use |
|  |  | Description: Contact's Name |  |  |  |  |
| PER03 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
|  |  | Description: Code identifying the major duty or responsibility of the person or group named |  |  |  |  |
|  |  | Code Name |  |  |  |  |
|  |  | TE Telephone |  |  |  |  |
| PER04 | 364 | Communication Number <br> Description: Telephone Number | X | AN | 1/80 | Must use |
|  |  |  |  |  |  |  |

## Notes:

1. If either PER 03 and PER 04 is present, then the other is required

User Option (Usage): Must use
Purpose: To specify terms of sale
Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ITD01 | 336 | Terms Type Code | O | ID | 2/2 | Used |
|  |  | Description: Code identifying type of payment terms |  |  |  |  |
|  |  | Code Name |  |  |  |  |
|  |  | 01 DFI |  |  |  |  |
|  |  | 05 No Discount |  |  |  |  |
|  |  | 06 Other |  |  |  |  |
|  |  | 07 Co-op |  |  |  |  |
|  |  | 08 VIR |  |  |  |  |
|  |  | 22 MA |  |  |  |  |
|  |  | 50 ECD |  |  |  |  |
| ITD02 | 333 | Terms Basis Date Code | 0 | ID | 1/2 | Used |
|  |  | Description: Code identifying the beginning of the terms period |  |  |  |  |



## Notes:

1. Data ITD01 codes 01, 07, 08 and 22 are regarded by Best Buy Canada as traditional DFI (Deduct from Invoice).
2. ECD (Early Cash Discount) is another form of DFI but is excluded in the DFI definition since it relates to the timeliness of the invoice payment whereas all other codes or DFI types are not contingent on the timing of payment.
3. The percentage indicated in the DFI codes are deducted from the Gross Invoice Amount regardless of when payment is provided.
4. The description for each of the ITD 01 terms is listed below and followed by specific examples.
5. DFI Type terms:

01 - This code indicates a DFI (Deduct from Invoice) term.
07 - This code indicates a Co-op term, where the discounted monetary
value is used towards advertising.
08 - This code indicates a VIR (Volume Incentive Rebate) term.
22 - This code indicates an MA (Merchandising Allowance) term.

Other terms:
05 - Discount not applicable.
06 - This code indicates a terms type that does not otherwise appear on
BestBuy Canada's implementation Guide Listing.
50 - This code indicates an ECD (Early Cash Discount) term.

Example 1: ECD and Single DFI
Terms Discount Due date: 60 days
Terms Net Due Date:
Terms Discount percent, Code 50 - ECD $2 \%$

```
days
```

Terms Discount Percent, Code 01 - DFI 10\%
EDI Notation
ITD*50*3*2**60**61~
ITD*01*3*10****61~
Example 2: ECD and Multiple DFI
Terms Discount Due date:
Terms Net Due Date:
30 days
Terms Discount percent, Code 50 - ECD 1\%
Terms Discount Percent, Code 01 - DFI 1\%
Terms Discount Percent, Code 08 - VIR 2\%
Terms Discount Percent, Code 22 - MA 1\%
EDI Notation
ITD*50*3*1**30**31~
ITD*01*3*4***31~
Codes 01, 08,22 should be rolled up to report a single DFI percentage discount.

Example 3: $\quad$ No Discount
Terms Due date: 45 days
EDI Notation
ITD*05*3*****45~
6. If multiple types of terms are being applied to a single invoice, the ITD segment will repeat once for each set of terms.

The Terms Net Due date and Terms Discount due date should be explicit as opposed to a calculation of Due date minus Invoice date.

## DTM

## Date/Time Reference

Pos: 140
Heading - Optional
Loop: N/A Elements: 3

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


## Notes:

1. Data elements DTM 01 and DTM 02 are paired elements. If one data element exists then the other MUST also be used
The DTM segment currently is not used by BestBuy Canada.
The DTM segment may be used in the future to capture dates that Best Buy Canada accounting department and Trading Partners feel are relevant to the Invoice.

A sample of typical uses for this field includes:
011 - Ship Date
035 - Delivered Date
071 - Requested Delivery Date
Baseline Item Data (Invoice)

| Pos: 010 | Max: 1 |
| :---: | :---: |
| Detail | Optional |
| Loop: IT1 | Elements: 11 |

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:

| Ref IT101 | $\frac{\text { Id }}{350}$ | Element Name <br> Assigned Identification | $\frac{\operatorname{Req}}{\mathrm{O}}$ | $\frac{\text { Type }}{\text { AN }}$ | $\frac{\text { Min/Max }}{1 / 20}$ | Usage <br> Used |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Description: Purchase Order Line item Identification (PO Line number) |  |  |  |  |  |  |
| IT102 | 358 | Quantity Invoiced | 0 | R | 1/10 | Used |
| Description: Quantity of Items being billed on this line |  |  |  |  |  |  |
| CodeList Summary (Total Codes:, Included: ) |  |  |  |  |  |  |
| Code $\quad \frac{\text { Name }}{\text { Cach }}$ |  |  |  |  |  |  |
| Description: Percentage Discount offered |  |  |  |  |  |  |
| IT104 | 212 | Unit Price | 0 | R | 1/17 | Used |
| Description: Item's invoiced price |  |  |  |  |  |  |
| Description: Number of days until discount is no longer available |  |  |  |  |  |  |
| IT106 | 235 | Product/Service ID Qualifier | 0 | ID | 2/2 | Used |
| Description: <br> Code Name |  |  |  |  |  |  |
| BP Buyer's Part Number <br> UP UPC Consumer Package Code <br> VP Vendor's Part Number |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| IT107 | 234 | Product/Service ID | X | AN | 1/48 | Used |
|  |  | Description: Best Buy Canada SKU \# |  |  |  |  |
| IT108 | 235 | Product/Service ID Qualifier | 0 | ID | 2/2 | Used |
|  |  | Description: Code Name |  |  |  |  |
|  |  | BP Buyer's Part Number <br> UP UPC Consumer Package Code <br> VP Vendor's Part Number |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| IT109 | 234 | Product/Service ID $\quad X \quad$ AN $\quad 1 / 48 \quad$ Used |  |  |  |  |
|  |  | Description: Vendor Part Number |  |  |  |  |
| IT110 | 235 | Product/Service ID Qualifier $\quad$ O ID $2 / 2$ Used |  |  |  |  |
|  |  | Description: <br> Code Name |  |  |  |  |
|  |  | BP Buyer's Part Number <br> UP UPC Consumer Package Code <br> VP Vendor's Part Number |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |


| Product/Service ID | X AN | $1 / 48$ | Used |  |
| :--- | :--- | :--- | :--- | :--- |
| Description: UPC Code |  |  |  |  |

## Syntax Notes:

1. Data elements IT106/IT107, IT108/IT109, IT110/IT111 are paired elements. If either data element is present then the other is REQUIRED.
2. IT101 is the Purchase Order line item identification number. If used, this data element should contain the Line Number for the identified item from the original BestBuy Canada Purchase Order.
3. The calculated sum \{Quantity [IT102] multiplied by Unit Price [IT104]\} of all IT1 line items MUST equal the amount listed in TDS02 data element.
4. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.

## Semantic Notes:

1. IT101 is the purchase order line item identification

## Product/Item Description

Pos: 060
Detail - Optional
Loop: PID Elements: 2

User Option (Usage): Must use
Purpose: To describe a product or process in coded or free-form format
Element Summary:

| Ref <br> PID01 | $\frac{\text { Id }}{349}$ | Element Name <br> Item Description Type <br> Description: F for Free form | $\frac{\text { Req }}{\mathrm{M}}$ | $\frac{\text { Type }}{\text { ID }}$ | $\frac{\text { Min/Max }}{1 / 1}$ | Usage <br> Must use |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| PID05 | 352 | Description <br> Description: Item Description | $O$ | AN | $1 / 80$ | Used |

## Notes:

1. Data elements PID01 and PID05 are paired elements. If either data element is present then the other is REQUIRED.
2. The PID Segment is Mandatory and must be used to report product description.

User Option (Usage): Must use
Purpose: To specify the total invoice discounts and amounts
Element Summary:

| $\frac{\text { Ref }}{\text { TDS01 }}$ | $\frac{\text { Id }}{610}$ | Element Name <br> Amount <br> Description: Total Invoice Amount | $\frac{\text { Req }}{\mathrm{M}}$ | $\frac{\text { Type }}{\mathrm{N} 2}$ | $\frac{\text { Min/Max }}{1 / 15}$ | $\frac{\text { Usage }}{\text { Must use }}$ |
| :--- | :--- | :--- | :---: | :---: | :---: | :---: |
| TDS02 | 610 | Amount <br> Description: Invoice SubTotal amount for Terms Discount Calculation | O | N2 | $1 / 15$ | Used |

## Notes:

1. The TDS01 element is used to list the Total monetary amount of the invoice AFTER Taxes and before Terms Discount or Rebates.

The amounts listed in the TDS 01 data element MUST be the same as the amounts listed on Account Statements sent by the trading partner to BestBuy Canada Accounting department.

The TDS02 element is used to list the Amount upon which terms discount is calculated. This is the amount BEFORE Taxes and without any consideration of discounts or rebates.
2. The calculated sum \{Quantity [IT102] multiplied by Unit Price [IT104]\} of all IT1 line items MUST equal the amount listed in TDS02 data element. See the example below.
Example:

| Invoice Line <br> Number | Description | Quantity <br> Invoiced | Unit Price | Extended <br> Price |
| :--- | :--- | ---: | ---: | ---: |
| IT101 | XYZ P100 | 10 | 10.00 | 100.00 |
| IT102 | XYZ Y790 | 5 | 20.00 | 100.00 |
| IT103 | ZR 100 | 4 | 25.00 | 100.00 |
| IT104 | ABC CD 6500 | 2 | 50.00 | 100.00 |
| IT105 | ABC CD 9900 | 40 | 2.50 | 100.00 |

Invoice Sub-Total (TDS02 Data Element)
500.00

Taxes (Assume 7 \% GST)
$+$

Total Invoice Amount (TDS01 Data Element) 535.00
3. The amounts listed in TDS01 and TDS02 data elements have an implied decimal. For example, BestBuy Canada system will interpret the value 11400 as 114.00

| Pos: 020 | Max: 1 |
| :---: | :---: |
| Summary | Optional |
| Loop: N/A | Elements: 2 |



## Notes:

1. The TXI segment can be repeated a maximum of 10 times. In Best Buy Canada's 810 document, it should be repeated once for each Tax Type being charged (TXI01) on the Invoice.
2. If GST Tax is charged and is transmitted in the TXI segment, then the GST Registration Number MUST be transmitted in the REF segment (See Note 2 on Page 21).
3. Trading Partners MUST transmit 0.00 in TXI 02 and use CG in TXI 01 if no GST is charged.
4. Trading Partners should not transmit PST tax for any Inventory Purchase Orders. If PST tax is received for Inventory Purchase Orders, the invoice will be rejected and an email notification will be sent to the email address provided during EDI setup.
5. Total invoice amount (TDS:01) should exactly match the sum of amount before tax (TDS:02) plus sum of all the taxes (all TXI:02 values).
CAD

## Carrier Detail

| Pos: 030 | Max: 1 |
| :---: | :---: |
| Summary | Optional |
| Loop: N/A | Elements: 5 |

User Option (Usage): Not used
Purpose: To specify transportation details for the transaction

| Element Summary: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| CAD01 | 91 | Transportation Method/Type Code | 0 | ID | 1/2 | Used |
| CAD04 |  | Description: Code specifying the method or type of transportation for the shipment |  |  |  |  |
|  | 140 | Standard Carrier Alpha Code | $\bigcirc$ | ID | $2 / 4$ | Used |
|  |  | Description: This is a 2 to 4 character code uniquely identifying the Carrier |  |  |  |  |
| CAD05 | 387 | Routing | 0 | AN | 1/35 | Used |
|  |  | Description: Text describing the route the product will take |  |  |  |  |
| CAD07 | 128 | Reference Identification Qualifier | $\bigcirc$ | ID | 2/3 | Used |
|  |  | Description: 21 for Tracking Number |  |  |  |  |
| CAD08 | 127 | Reference Identification | $\bigcirc$ | AN | 1/30 | Used |
|  |  | Description: Insert appropriate reference text here |  |  |  |  |

## Notes:

1. The CAD segment currently is not used by BestBuy Canada.

The CAD Segment may be used in the future to capture Carrier details that BestBuy Canada accounting department and Trading Partners feel are relevant to the Invoice.

## SAC

## Service

| Pos: 040 | Max: 1 |
| :---: | :---: |
| Summary | Optional |
| Loop: SAC | Elements: 4 |

User Option (Usage): Not 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 | Used |
| Description: Not currently defined |  |  |  |  |  |  |
| SAC02 | 1300 | Service | X | ID | 4/4 | Used |
| Description: Code identifying the service, promotion, allowance, or charge |  |  |  |  |  |  |
| Code $\quad \underline{\text { Name }}$ |  |  |  |  |  |  |
| A172 Administrative |  |  |  |  |  |  |
| SAC05 | 610 | Amount | 0 | N2 | 1/15 | Used |
| Description: Monetary amount of the allowance or charge |  |  |  |  |  |  |
| SAC15 | 352 | Description | X | AN | 1/60 | Used |
|  |  | Description: Free form description |  |  |  |  |

## Notes:

1. The SAC segment currently is not used by BestBuy Canada. If this segment is included in the invoice file, the full invoice will be rejected in EDI and an email notification will be sent by the system to the email id listed for the partner during the initial EDI setup.

The SAC segment may be used in the future to capture Service Charges that BestBuy Canada accounting department and Trading Partners feel are relevant to the Invoice.

## 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:

| Ref | $\frac{\text { Id }}{\text { CTT01 }}$ | 354 | Element Name <br> Number of Line Items <br> Description: Total number of line items in the transaction set | $\frac{\text { Req }}{M}$ | $\frac{\text { Type }}{N 0}$ | $\frac{\text { Min/Max }}{1 / 6}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## 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: |  |  |  |  |  |  |
| :---: | :---: | :--- | :--- | :--- | :--- | :--- |
| Ref <br> SE01 | $\frac{\text { Id }}{96}$ | Element Name <br> Number of Included Segments | $\frac{\text { Req }}{\mathrm{M}}$ | $\frac{\text { Type }}{\text { N } 0}$ | $\frac{\text { Min/Max }}{1 / 10}$ | $\frac{\text { Usage }}{\text { Must use }}$ |

## Comments:

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

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:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |

## 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.

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: |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\frac{\text { Ref }}{\text { Eld }}$ | $\frac{\text { Id }}{\text { IEA }}$ | $\frac{\text { Element Name }}{\text { Number of Included Functional Groups }}$ | $\frac{\text { Req }}{\text { M }}$ | $\frac{\text { Type }}{\text { N0 }}$ | $\frac{\text { Min/Max }}{1 / 5}$ | Usage <br> Must use |
| IEA02 | $I 12$ | Interchange Control Number | M | N0 | $9 / 9$ | Must use |

## Additional Validations


#### Abstract

These validations are added as a part of the enhancement ITG WR\#47705 - B2B Invoice Failure Notification Validation 1:

If an invoice has any value in the SAC segment, reject the invoice; the error message should say "unable to read SAC segment; please include all extra charges in the unit cost"


## Validation 2:

If TXI02 under the qualifier CG is $>0$, REF02 under the qualifier GT must be present and be at least 9 characters long; depending on the value, the error message may say "no GST registration \# provided" or "invalid GST registration \#"

## Validation 3:

If IT103 is not "EA", reject the invoice; the error message should contain "unit of measurement error; please re-submit this invoice with UOM in EA"

## Validation 4:

If BIG07 = "DR" and TDS01 < 0, reject an invoice; the error message should say "credit notes cannot be accepted via EDI, please submit a paper copy"

## Validation 5:

- Reject all invoices that have TDS01 / TDS02 $>1.15$ (the invoice's total over the invoice's subtotal exceeds $15 \%$ )

Populate the error Message "Taxes should not exceed $15 \%$ of invoice's subtotal amount."

- Document the kind of effort that would be required if business wants to change the $15 \%$ figure to a different figure, in the future


## Validation 6:

All three occurrences of N1 segment - "remit-to" = qualifier RI, "bill-to" = qualifier BT, "ship-to" = qualifier ST, should be mandatory and also should contain some value other than Null or spaces or blank; currently B2B accepts invoices with only one of the three OR at times with no meaningful value.
Ex: Sometimes, the value contains all spaces and a comma.
The validation has to make sure that there is some 'value' in the N1 segment (data element 01 and 02 ) each time N1 occurs.
Populate the error message "Incomplete data in N1 segment - "remit-to" = qualifier RI, "bill-to" = qualifier BT, "ship-to" = qualifier ST. Should be consistent with what is on BBY PO."
Note:
There is no validation required for N3 and N4 segments
Validation 7:
If TDS02 + (the sum of all TXI02) x 100 is $<>$ TDS01, then reject the invoice with the following message
"Calculation error in TDS and TXI segments: Subtotal + Taxes $\gg$ Total. Please correct and retransmit this
invoice".

## Sample Document

```
ISA*00* *00* *ZZ*1234567890 *12*6044358223FCD *020415*2117*U*00401*000001234*0*P*~
GS*IN*1234567890*6044358223FCD*20020415*1812*1234*X*004010~
ST*810*00001~
BIG*20020415*12-34567-89*20020401*1234567***DR~
NTE*INV*This is an EDI Invoice~
CUR*CQ*CAD~
REF*PK*0000123321~
REF*GT*R123456789~
N1*RI*ACME WIDGET CO.*~
N3*1234 SOME STREET~
N4*TOWNSVILLE*BC*A1B 2C3~
PER*AA*John Doe*TE*(123) 456-7890~
N1*BT*BEST BUY CANADA LTD.*~
N3*8800 Glenlyon Parkway~
N4*Burnaby*BC*V5J 5K3~
PER*AA*Mary Doe*TE*(604) 412-1420~
N1*ST*FUTURE SHOP #0001*~
N3*1740 West Broadway~
N4*Vancouver*BC*V6J 1Y1~
ITD*01*3*2.5**15**30~
IT1*4*5*EA*123.45*CT*BP*12345678*VP*123-A-456*UP*9876543210123~
PID*F****ACME WIDGET 1.0~
IT1*1*3*EA*98.76*CT*BP*87654321*VP*654-A-321*UP*1234567890987~
PID*F****ACME WIDGET 2.0 DELUXE~
TDS*97748*91353~
TXI*CG*63.95~
CTT*2~
SE*26*00001~
GE*1*1234~
IEA*1*000001234~
```

```
ISA*00* *00* *01*045815722I *12*6044358223FCD
```

ISA*00* *00* *01*045815722I *12*6044358223FCD
*160620*0522*U*00401*000000565*0*P*>
GS*IN*045815722I*6044358223FCD*20160620*052213*429*X*004010
ST*810*0001
BIG*20160618*3051039534*20160607*44556413** *DR
CUR*CQ*CAD
REF*BM* 06880570001027394
REF*GT*869575555RT0001
N1*RI*HAIER AMERICA
N3*PO BOX 90445
N4*CHICAGO*IL*60654
N1*BT*BEST BUY CANADA LTD.

```

N3*8800 GLENLYON PARKWAY
N4*BURNABY*BC*V5J 5K3
N1*ST*BEST BUY CANADA \#1510
N3*19890 92ND A AVENUE
N4*LANGLEY*BC*V1M 3A9
ITD*05*3*****60
IT1**208*EA*186.00*CT*BP*10320304*VP*HC31TG42SV*UP*688057308555
PID*F****3.2 cu. ft TM VCM door
TDS*4062240*3868800
TXI*CG*1934.40
CTT*1
SE*21*0001

IEA*1*000000565```

