BEST BUY CANADA LTD.

FUTURE SHOP

ECommerce

Electronic Data Interchange

Purchase Order
X.12 4010 850

Implementation Guide

Release Date: February 28, 2000

Version 1.6

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Summary of Changes

Date	Name	Section	Description of Change	Reason for Change
Jan 13, 2000	Andrew See		Document Created.	
Aug 9, 2000	Pardeep Sidhu	PO1 Loop	Add SDQ segment for Cross Dock and remove SLN/N1 segments in the PO1 loop	
Apr 30, 2002	Tyler MacDonald	BEG	Addition of "RO" option in the 02 element of the BEG segment	To identify Just-In-Time PO
Apr 30, 2002	Tyler MacDonald	DTM	Conversion of DTM qualifier 037 to 071	To indicate Requested Delivery Date
August 22, 2002	Pardeep Sidhu		Add Best Buy/Future Shop Logo	To reflect new name and two divisions (Best Buy and Future Shop)
Oct. 10, 2002	Pardeep Sidhu	CTT	Add CTT 02 data element	Match Implementation guide to actual mapping/data in the EDI message.

Structure of This Guide

Summary of Changes In this section, you will find the history of this document, from the day of its creation to its present state. Specifically, you will find:

- When this document was created
- Who created it
- What had been changed
- Where the changes were located
- Who changed it
- When the change was made

Structure of This Guide In this section, you will find a high level description of what is in each section of this guide.

Document Conventions In this section, you will find the typographical conventions that are used in this guide. You will also learn how to interpret the Segment Specifications and other pertinent information.

Key Terms In this section, you will find a list of key terms and their definitions. You will also find the definition of codes and acronyms used in various sections of this document.

Contact Information In this section, you will find your Best Buy/Future Shop contact information. Specifically, you will find the following information about your Business and Technical Contact Person at Best Buy/Future Shop:

- Name
- Title
- Telephone Number
- Fax Number
- Electronic Mail Address

You will also find the following information about Best Buy/Future Shop Corporate Offices:

- Head Office Conventional Mail Address
- Head Office Telephone Number
- Head Office Fax Number
- Best Buy/Future Shop Home Page Web Address

Purpose of This Transaction In this section, you will find a brief description of the business purposes of this document and how Best Buy/Future Shop intends to achieve these through the use of this transaction set.

Standard and Version In this section, you will find the Electronic Data Interchange Standards and Version of these Standards that Best Buy/Future Shop supports and intends to use with our Trading Partners in Electronic Data Interchange.

Segment Summary In this section, you will find an overview of all the segments that Best Buy/Future Shop uses in this transaction sets. You will find out whether these segments are mandatory or optional, and what their purposes are.

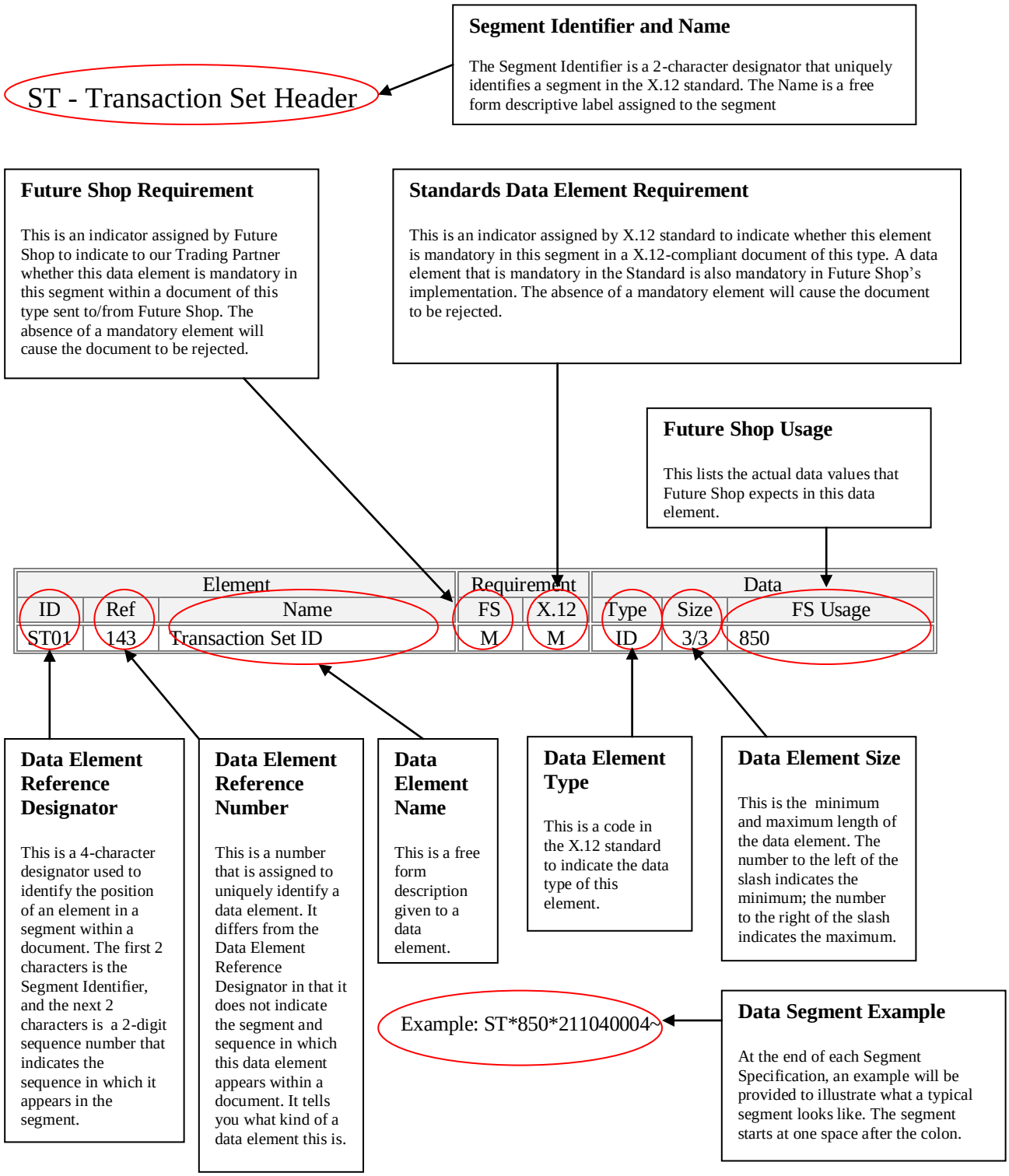
Customizations and Special Instructions In this section, you will find a list of customizations to standards and special instructions that Best Buy/Future Shop would like to share with our Trading Partners.

Segment Specifications In this section, you will find a detail definition of each segment. You will find out which data elements are included in each segment, and all the necessary information regarding each element.

Sample Document In this section, you will find a sample document of the Best Buy/Future Shop Implementation of this transaction set.

Document Conventions

Interpreting Segment Specifications



Key Terms

Segment Identifier Each segment has an unique identifier of usually 2 or 3 characters long. This identifier serves as a label for the data within the segment.

Data Element Reference Designator This is a structured 4-character designator used to identify the position of an element in a segment within a document. The first 2 characters is the Segment Identifier, and the next 2 characters is a 2-digit sequence that indicates the sequential order in which the data element appears in the segment identified by the Segment Identifier.

Data Element Reference Number This is a number that is assigned to uniquely identify a data element. It differs from the Data Element Reference Designator in that it does not indicate the segment and sequence in which this data element appears within a document. It tells you what kind of a data element this is. You may find the definition of all data elements in the ASC X.12 Data Dictionary.

Data Element Name This is a free form description given to a data element. This name is assigned by the X.12 committee, and corresponds to the name that is given in the ASC X.12 Data Dictionary.

Best Buy/Future Shop Requirement Indicator This is an indicator assigned by Best Buy/Future Shop to indicate to our Trading Partner whether a segment or a data element is mandatory in this document or segment within a document of this type sent to Best Buy/Future Shop. Please note that:

- Segments and Elements that are mandatory in the X.12 standards are also mandatory by default in Best Buy/Future Shop's Implementation.
- The absence of a mandatory segment or element will cause the document to be rejected.

The valid values of this indicator are:

- **M** – This indicates that the segment or element is Mandatory
- **O** – This indicates that the segment or element is Optional

X.12 Requirement Indicator ASC X.12 standard requires certain segments in a transaction set and certain elements within a segment be always present in a transmitted document, and that certain segments and elements be present should other segments and elements are present in a document. This is an indicator assigned by ASC X.12 committee to indicate whether a segment or a data element is mandatory in this document or segment within a document of this type. Please note that:

- Segments and Elements that are mandatory in the X.12 standards are also mandatory by default in Best Buy/Future Shop's Implementation.
- The absence of a mandatory segment or element will cause the document to be rejected.

The valid values of this indicator are:

- **M** – This indicates that the segment or element is Mandatory
- **O** – This indicates that the segment or element is Optional
- **C** – This indicates that the segment or element is Conditionally Mandatory. If certain other segments or elements are used in the same document or segment, this segment must also be present. For more information on the conditions governing a particular segment or element, please refer to the ASC X.12 Data Dictionary.

Data Element Type A data element can be of one of six types in ASC X.12:

Type	Description
ID	An identifier as defined in ASC X.12 Data Dictionary
AN	Alphanumeric
DT	Date
Nn	Numeric with implied decimals (no decimal point appears)
R	Numeric with explicit decimals (decimal point appears)
TM	Time

Data Element Size All data elements are assigned a minimum and maximum length.

Example: 3/3

This indicates the minimum and maximum length of the data element. The number to the left of the slash indicates the minimum length; the number to the right of the slash indicates the maximum length.

In this example, it indicates that the data element has a minimum length of 3 and a maximum length of 3. That is, it is required to be of length 3.

Best Buy/Future Shop Usage This is a list of values of what Best Buy/Future Shop is expecting to receive or send in a particular data element. A brief description or definition is attached where appropriate.

Data Segment Example This is an example showing how a particular segment can be used in a transaction.

Contact Information

Technical Contact

Name	Pardeep Sidhu
Title	EDI Technical Team Lead
Telephone	(604) 412-1694
Fax	(604) 412-5290
Electronic Mail	psidhu@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 Web Store Address	www.BestBuyCanada.ca
Future Shop Web Store Address	www.futureshop.ca
Best Buy/Future Shop EDI Team 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 placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Best Buy/Future Shop intends to use this transaction set to place purchase orders for goods and services electronically with our trading partners.

Standard and Version

Preferred Standard and Version

Standard	Version
X.12	004010

Also Supports

Standard	Version

Notes

Segment Summary

Overview of Segments

Segment		Requirement		Data	
ID	Name	FS	X.12	Loop Level	Purpose
ISA	Interchange Control Header	M	M		Interchange start to identify sending/receiving parties, control numbers, standard, version and security information for groups of transactions.
GS	Functional Group Header	M	M		Indicates the beginning of a group of transactions and provides control information
ST	Transaction Set Header	M	M		Indicates the start of a transaction set and to assign a control number
BEG	Beginning Segment for Purchase Order	M	M		Indicate the beginning of the purchase order transaction set and transmit identifying numbers and dates
CUR	Currency	M	O		Specify the currency used in a transaction
REF	Reference No.	M	O		Specify the source application creating this order
FOB	FOB Related Instructions	O	O		Specify transportation instructions relating to shipment
DTM	Date Time Reference	M	O		Specify pertinent dates and times
N1	Name	M	O		Identify a party by type of organization name and code. Best Buy/Future Shop uses this segment to convey the Bill To information and Ship To information
N3	Address Information	O	O		Identify the street address information
N4	Geographic Location	O	O		Identify the City, Province, Postal Code and Country
PO1	Baseline Item Data	M	M	1	Specify basic and most frequently used line item data
PID	Product Item Description	M	O	1	Describe a product or process in coded or free-form format
SDQ	Destination Quantity	M	O	2	Specify Best Buy/Future Shop Store Location number and the quantity that should be Cross Docked.
CTT	Transaction Totals	M	M		Transmit a hash total for a specific element in the transaction set
AMT	PO Dollar Amount	O	O		Contains the total dollar amount of all of the line items multiplied by all of their quantities and their prices.
SE	Transaction Set Trailer	M	M		Indicate the end of the transaction set and provide the count of the transmitted segments

Segment Delimiters

Type	Name	Character	Hex	Dec
Segment Delimiter	Tilde	~	7E	126
Element Separator	Asterisk	*	2A	42
Sub-element Separator	Caret	^	5E	94

Customizations and Special Instructions

With this new edition of Best Buy/Future Shop's Version 4010 Purchase Order Implementation Guide, there are 2 new additions.

First is the addition of a new code in the BEG02 element. The new code is 'RO' which is going to be used to denote a 'Rush Order'. A rush order is to be dealt with differently than a regular Purchase Order. The 'RO' qualifier will only be sent to Trading Partners after Best Buy/Future Shop representatives have discussed the use of this order type with the individual Company.

Second is the modification of Best Buy/Future Shop's usage of the DTM01 element. Best Buy/Future Shop used the 037 code to indicate 'Ship not Before' date. This code has been changed to 071 'Requested for Delivery'. This change will alleviate any misunderstandings regarding the allowable dates for shipment for a given PO.

Segment Specifications

ISA - Interchange Header

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
ISA01	I01	Authorization Information Qualifier	M	M	ID	2/2	"00" No Authorization Information Present.
ISA02	I02	Authorization Information	M	M	AN	10/10	Blank
ISA03	I03	Security Inform Qualifier	M	M	ID	2/2	"00" No Authorization Information Present.
ISA04	I04	Security Information	M	M	AN	10/10	Blank
ISA05	I05	Interchange ID Qualifier	M	M	ID	2/2	"12" Best Buy/Future Shop's Sender Qualifier
ISA06	I06	Interchange Sender ID	M	M	AN	15/15	"6044358223FCD" Best Buy/Future Shop's Sender ID
ISA07	I05	Interchange ID Qualifier	M	M	ID	2/2	Trading Partner Receiver Qualifier
ISA08	I07	Interchange Receiver ID	M	M	AN	15/15	Trading Partner Receiver ID
ISA09	I08	Interchange Date	M	M	DT	6/6	YYMMDD
ISA10	I09	Interchange Time	M	M	TM	4/4	HHMM
ISA11	I10	Interchange Control Standards ID	M	M	ID	1/1	"U" U.S. EDI Community of ASC X12, TDCC, and UCS
ISA12	I11	Interchange Control Version Number	M	M	ID	5/5	"00401"
ISA13	I12	Interchange Control Number	M	M	N0	9/9	Control number
ISA14	I13	Acknowledgment Requested	M	M	ID	1/1	"0" Acknowledgment not requested
ISA15	I14	Test Indicator	M	M	ID	1/1	"P" or "T" "P" for Production Data, and "T" for Test
ISA16	I15	Subelement Separator	M	M	AN	1/1	^

Example:

```
ISA*00*          *00*          *12*6044358223FCD  *ZZ*123456789012345
*000521*1556*U*00401*000000537*0*P*^~
```

GS - Functional Group Header

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
GS01	479	Functional Identifier Code	M	M	ID	2/2	"PO"
GS02	142	Application Sender's Code	M	M	AN	2/15	"6044358223FCD" Best Buy/Future Shop's Sender ID
GS03	124	Application Receiver's Code	M	M	AN	2/15	Trading Partner's Receiver ID
GS04	373	Date	M	M	DT	8/8	CCYYMMDD
GS05	337	Time	M	M	TM	4/8	HHMM
GS06	28	Group control Number	M	M	N0	1/9	Control Number
GS07	455	Responsible Agency Code	M	M	ID	1/ 2	"X" Accredited Standard Committee X12
GS08	480	Version/Release/ Industry Id Code	M	M	AN	1/12	"004010"

Example:
GS*PO*6044358223FCD*123456789012345*20000521*1556*94*X*004010~

ST – Transaction Set Header

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	143	Transaction Set Identifier Code	M	M	ID	3/3	“850”
02	329	Transaction Set Control Number	M	M	AN	4/9	A unique ID identifying a transaction set generated for a trading partner

Example:

```
ST*850*0001~
```

BEG – Beginning Segment for Purchase Order

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	353	Transaction Set Purpose Code	M	M	ID	2/2	"00" Original
02	92	Purchase Order Type Code	M	M	ID	2/2	"NE" - New Order "RO" – Rush Order
03	324	Purchase Order Number	M	M	AN	1/22	Best Buy/Future Shop Purchase Order Number
05	323	Purchase Order Date	M	M	DT	8/8	Purchase Order Processed Date

Note: The "RO" type code in BEG02 data element is to indicate a JUST-IN-TIME Purchase Order.

Example:

```
BEG*00*NE*00000001**20000909~

Or

BEG*00*RO*00000001**20020430
```

CUR - Currency

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	98	Entity Identifier Code	M	M	ID	2/3	"CQ" Corporate Office
02	100	Currency Code	M	M	ID	3/3	See Note CUR02

Example:

```
CUR*CQ*CAD~
```

Notes:

CUR02: A list of currency codes supported by Best Buy/Future Shop

Code	Description
AUS	Australia Dollar
CAD	Canadian Dollar
MEX	Mexican New Peso
USD	US Dollar
YEN	Japanese Yen

REF – Reference Numbers

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	128	Reference Number Qualifier	M	M	ID	2/3	"ZS" Software Application Number
02	127	Reference Number	C	M	AN	1/30	See Note REF02

Example:

```
REF*ZS*RMS~
```

Notes:

REF02: A list of source applications at Best Buy/Future Shop

Code	Description	Used By
RMS	Best Buy/Future Shop Merchandising System	Product Management, Inventory Management
OFIN	Best Buy/Future Shop Financial System	Accounting
ICS	Best Buy/Future Shop Web Store Server	Web Store

FOB – FOB Related Instructions

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	146	Shipment Method of Payment	M	M	ID	2/2	Method of Payment
02	309	Location Qualifier	C	M	ID	1/2	Qualifier for Transportation Location
03	352	Description	O	M	AN	1/80	Description for Transportation Location
06	309	Location Qualifier	C	M	ID	1/2	Qualifier for Title passage location
07	352	Description	O	M	AN	1/80	Description for Title passage location

Example:

```
FOB*CC*OR*Origin***WH*Warehouse~
```

DTM – Date Time Reference

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	374	Date Time Qualifier	M	M	ID	3/3	See Note DTM01
02	373	Date	C	M	DT	8/8	
03	337	Time	C	M	TM	4/8	

Example:

```
DTM*071*20000101*1111~
```

Notes:

DTM01: Date Time Qualifier used by Best Buy/Future Shop

Qualifier	Description	Usage
071	Requested for Delivery	This is the earliest date on which Best Buy/Future Shop will accept delivery of the order
038	Ship No Later	This is the latest date on which Best Buy/Future Shop will accept delivery of the order

N1 – Name

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	98	Entity Identifier Code	M	M	ID	2/3	"BT" – Bill To "ST" – Ship To
02	93	Name	C	M	AN	1/60	Company Name.
03	66	ID Code Qualifier	C	M	ID	1/ 2	"92" Assigned by Buyer/ Buyer's Agent
04	67	ID Code	C	M	AN	2/80	Best Buy/Future Shop Location Code. See Note N102.
06	98	Entity Identifier Code	O	M	ID	2/3	Not used with Bill To. Used with Ship To. "WH" – Warehouse "SN" - Store

Example:

```
N1*BT**92*0000~
N1*ST**92*1001*WH~
```

Notes: List of Best Buy/Future Shop Locations will be supplied separately. Best Buy/Future Shop's Corporate Head Office will be referred to as 0000.

N3 – Address Information

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	166	Address Information	M	M	AN	1/55	Street Address
02	166	Address Information	O	O	AN	1/55	Street Address

Example:

```
N3*8800 GLENLYON PARKWAY~
```

Notes: List of Best Buy/Future Shop Locations will be supplied separately.

N4 – Geographic Location

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	19	City Name	O	O	AN	2/30	
02	156	State or Province Name	O	O	ID	2	
03	116	Postal Code	O	O	ID	3/15	
04	26	Country Code	O	O	ID	2/3	

Example:

```
N4*BURNABY*BC*V5J 5K3*CAN~
```

PO1 – Base-line Item Data

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	350	Assigned Identification	O	M	AN	1/20	Line number
02	330	Quantity Ordered	C	M	R	1/15	Total quantity ordered for this line item
03	335	Unit or Basis for Measurement Code	O	M	ID	2/2	“EA” or “CA”
04	212	Unit Price	C	M	R	1/17	
05	639	Basis of Unit Price Code	O	M	ID	2/2	“PE”
06	235	Product Service ID Qualifier	C	M	ID	2/2	“BP”
07	234	Product Service ID	C	M	AN	1/48	Best Buy/Future Shop Sku Number
08	235	Product Service ID Qualifier	C	C	ID	2/2	“UP”
09	234	Product Service ID	C	C	AN	1/48	UPC
10	235	Product Service ID Qualifier	C	C	ID	2/2	“VP”
11	234	Product Service ID	C	C	AN	1/48	Vendor Part Number
12	235	Product Service ID Qualifier	C	C	ID	2/2	“VE”
13	234	Product Service ID	C	C	AN	1/48	Supplier Color
14	235	Product Service ID Qualifier	C	C	ID	2/2	“SZ”
15	234	Product Service ID	C	C	AN	1/48	Supplier Size

Example:

```
PO1*1*20*EA*12*PE*BP*80712345*UP*123456789012345*VP*12121~
```

PID – Product Item Description

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	349	Item Description Type	M	M	ID	1/1	"F" Free Form
05	352	Description	C	M	AN	1/80	Free Form Description of the Item

Example:

```
PID*F****HELLO WORLD~
```

SDQ – Destination Quantity

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	355	Unit/Basis Measurement Code	M	M	ID	2/2	Order Line Number
02	66	ID Code Qualifier	O	M	ID	1 / 2	"92" -
03	67	ID Code	M	M	AN	2/80	4 digit Best Buy/Future Shop Store Number
04	380	Quantity	M	M	R	1/15	Quantity

Example:

SDQ*PK*92*0052*10~

Notes: List of Best Buy/Future Shop Locations will be supplied separately.

CTT – Transaction Totals

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	354	Number of Line Items	M	M	N0	1/6	
02	347	Hash Total	O	O	R	1/10	Total quantity ordered on all line items

Example:

```
CTT*2*16~
```

AMT – Dollar Amount

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	522	Amount qualifier code	M	M	ID	1/2	“2”
02	782	Monetary Amount	M	M	R	1/15	Total Dollar Amount

Example:

```
AMT*2*1135.2~
```

SE– Transaction Set Trailer

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	96	Number of Included Segments	M	M	N0	1/10	
02	329	Transaction Set Control Number	M	M	AN	4/9	

Example:

```
SE*100*12321~
```

GE – Functional Group Trailer

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	97	Number of Transaction Sets Included	M	M	N0	1/6	
02	28	Group Control Number	M	M	N0	1/9	

Example:

```
GE*1*101~
```

IEA – Interchange Control Trailer

Element			Requirement		Data		
ID	Ref	Name	X.12	FS	Type	Size	FS Usage
01	I16	Number of Included Functional Groups	M	M	N0	1/5	
02	I12	Interchange Control Number	M	M	N0	9/9	

Example:

IEA*2*1011~

Sample Document

```
ISA*00*          *00*          *12*6044358223FCD  *ZZ*YOURISAID      *000113*0936*U*00401*000000004*0*P*^~
GS*PO*6044358223FCD*YOURGSID*20000113*0936*4*X*004010~
ST*850*0001~
BEG*00*NE*1011328**20000105~
CUR*CQ*CAD~
REF*ZS*RMS~
DTM*071*20000105*0000~
DTM*038*20000128*2359~
N1*BT*BEST BUY CANADA LTD*92*0000~
N3*8800 GLENLYON PARKWAY~
N4*BURNABY*BC*V5J 5K3*CAN~
N1*ST*FUTURE SHOP*92*1003**WH~
N3*6110 CANTAY ROAD~
N4*MISSISSAUGA*ON*L5T 1T3*CAN~
PO1*1*100*EA*84.28*PE*BP*80712345*UP*044102150003*VP*W500~
PID*F****YOURS   W 500~
SDQ*PK*92*0005*50~
SDQ*PK*92*0012*50~
PO1*2*140*EA*84.28*PE*BP*80712346*UP*044102150004*VP*W501~
PID*F****YOURS   W 501~
SDQ*CT*92*0052*70~
SDQ*CT*92*0654*70~
CTT*2*240~
AMT*2*20227.2~
SE*23*0001~
GE*1*4~
IEA*1*000000004~
```