

Electronic Data Interchange

# Advance Ship Notice X.12 4010 856

Implementation Guide

Release Date: August 4, 1999

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# Summary of Changes

Date	Name	Section	Description of Change	Reason for Change

# 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:	
	<ul> <li>When this document was created</li> <li>Who created it</li> <li>What had been changed</li> <li>Where the changes were located</li> <li>Who changed it</li> <li>When the change was made</li> </ul>	
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 Future Shop contact information. Specifically, you will find the following information about your Business and Technical Contact Person at Future Shop:	
	<ul> <li>Name</li> <li>Title</li> <li>Telephone Number</li> <li>Fax Number</li> <li>Electronic Mail Address</li> </ul>	
	You will also find the following information about Future Shop Corporate Offices:	
	<ul> <li>Head Office Conventional Mail Address</li> <li>Head Office Telephone Number</li> <li>Head Office Fax Number</li> <li>Future Shop Home Page Web Address</li> </ul>	
Purpose of This Transaction	In this section, you will find a brief description of the business purposes of this document and how 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 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 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 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 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.
Future Shop Requirement Indicator	This is an indicator assigned by 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 Future Shop. Please note that:
	<ul> <li>Segments and Elements that are mandatory in the X.12 standards are also mandatory by default in Future Shop's Implementation.</li> <li>The absence of a mandatory segment or element will cause the document to be rejected.</li> </ul>
	The valid values of this indicator are:
	<ul> <li>M – This indicates that the segment or element is Mandatory</li> <li>O – This indicates that the segment or element is Optional</li> </ul>
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:
	<ul> <li>Segments and Elements that are mandatory in the X.12 standards are also mandatory by default in Future Shop's Implementation.</li> <li>The absence of a mandatory segment or element will cause the document to be rejected.</li> </ul>
	The valid values of this indicator are:
	<ul> <li>M – This indicates that the segment or element is Mandatory</li> <li>O – This indicates that the segment or element is Optional</li> <li>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.</li> </ul>
Data Element Type	A data element can be of one of six types in ASC X.12:

Туре	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.	
Future Shop Usage	This is a list of values of what 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**

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Head Office Telephone Number	(604) 435-8223
Head Office Fax Number	(604) 412-5280
Future Shop Web Store Address	www.futureshop.com
Future Shop EDI Team Electronic Mail	edi@futureshop.com

# Purpose of This Transaction

The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information.

Future Shop intends to use this transaction set to obtain from our Trading Partners information related to shipment of goods from our Trading Partners.

# Standard and Version

### Preferred Standard and Version

Standard	Version
X.12	004010

### Also Supports

Standard	Version
X.12	003040

Notes

# Segment Summary

## Overview of Segments

	Segment	Requ	irement		Data
ID	Name	FS	X.12	Loop Level	Purpose
ISA	Interchange Control Header	М	М		Starts the interchange and identifies sending and 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
BSN	Beginning Segment for Ship Notice	М	М		Indicates the start of a Ship Notice
DTM	Date/Time Reference	М	Ο		Conveys the Shipment Date, Scheduled Delivery Date, Scheduled Shipment Date and the Not After Date
HL	Hierarchical Level	М	М		Marks the start of a new hierarchical level (Shipment Level)
PRF	Purchase Order Reference	М	0		Indicates the Purchase Order Number.
TD1	Carrier Details	М	0		Indicates the Packaging Code and/or the Lading Quantity
TD5	Carrier Details	M	0		Indicates the Courier information
FOB	F.O.B. Related Instructions	M	0		Indicates the Payment Method
N1	Name	M	0		Indicates the Ship To Address
HL	Hierarchical Level	С	М	1	Marks the start of a new hierarchical level (Package Level)
MAN	Marks and Numbers	0	0	1	Indicates Carton-related information
N1	Name	0	0	1	Indicates the Transfer To / Cross Dock loaction
HL	Hierarchical Level	M	М	2	Marks the start of a new hierarchical level (Item Level)
LIN	Item Identification	М	0	2	Identifies the individual line item
SN1	Item Detail (Shipment)	М	0	2	Indicates the quantity shipped for an item
PO4	Item Physical Details	М	0	2	Indicates the Supplier Pack Size for the item
CTT	Transaction Totals	Μ	0		Indicates the number of line items
SE	Transaction Set Trailer	М	M		Indicates the end of the transaction set and provide the count of the transmitted segments
GE	Functional Group Trailer	М	М		Indicates the end of a functional group and to provide control information
IEA	Interchange Control Trailer	М	М		Defines the end of an interchange of zero or more functional groups and interchange-related control segments

## Segment Delimiters

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

# **Customizations and Special Instructions**

- There is a one-to-many relationship between Purchase Orders and Advance Ship Notices in Future Shop's Merchandising System; as a result, one Advance Ship Notice can refer to one Purchase Order only.
- Carton information is important to our receiving; however, it is not mandatory.
- One Advance Ship Notice can contain many cartons, all belonging to the same Purchase Order.
- Where carton information is sent, the UCC-128 Carton Number is required.
- Each Carton can be for one Ship To and one Transfer To/Cross Dock location only.
- Regarding Store and Warehouse Numbers

Future Shop will be changing the unique identifiers assigned to each location, including those assigned to stores and warehouses.

Example 1: Warehouses

Our BC Warehouse in Delta, BC is currently referred to as Warehouse 1, and is represented as 01 on our 850s. This warehouse will be referred to as 1001 in the future, when we implement our new merchandising system.

Example 2: Stores

Our Broadway Store in Vancouver, BC is currently referred to as Store 1, and is represented as 001 on our 850s. This store will be referred to as 1 in the future, when we implement our new merchandising system.

Please note that X.12 004010 requires N104 (ID Code, Data Element 67, typed Alpha Numeric) to be at least 2 characters long. We will append leading zeros to the location identifiers to give them a consistent length of 4 characters long. Store 1, for instance, will be referred to as "0001" in the N104 data element.

# **Segment Specifications**

## ISA - Interchange Header (Mandatory)

		Element	Requi	rement			Data
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
ISA01	I01	Authorization Information	M	M	ID	2/2	"00"
		Qualifier					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	Sender Qualifier
ISA06	I06	Interchange Sender ID	M	M	AN	15/15	Sender ID
ISA07	I05	Interchange ID Qualifier	M	M	ID	2/2	"12"
							Future Shop's
							Receiver Qualifier
ISA08	I07	Interchange Receiver ID	M	M	AN	15/15	"6044358223FCD"
							Future Shop's
							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	M	M	ID	5/5	"00401"
70.1.10		Number				0.10	~
ISAI3	112	Interchange Control Number	M	M	NO	9/9	Control number
ISA14	113	Acknowledgment Requested	M	M	ID	1/1	"I"
							Acknowledgment
70 1 1 7	74.4						requested
ISA15	114	Test Indicator	M	M	ID	1/1	"P" or "I"
							P IOT Production
TOALC	T17					1 /1	Data, and T for Test
ISAI6	115	Subelement Separator	I M		AN	1/1	л 

#### Example:

ISA\*00\* \*00\* \*12\*6044358223FCD \*ZZ\*123456789012345 \*980521\*1556\*U\*00401\*00000537\*0\*P\*^~

		Element	Requi	rement			Data
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
GS01	479	Functional Identifier Code	M	M	ID	2/2	"SH"
GS02	142	Application Sender's Code	M	М	AN	2/15	Trading Partner's
							Sender ID
GS03	124	Application Receiver's Code	M	M	AN	2/15	"6044358223FCD"
							FUTURE SHOP'S
							RECEIVER ID
GS04	373	Date	M	М	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	M	M	AN	1/12	"004010"
		Code					

## GS - Functional Group Header (Mandatory)

Example:

GS\*SH\*123456789012345\*6044358223FCD\*19980521\*1556\*94\*X\*004010~

## ST – Transaction Set Header (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS	FS X.12		Size	FS Usage
01	143	Transaction Set Identifier Code	Μ	M	ID	3/3	"856"
02	329	Transaction Set Control Number	М	М	NO	4/9	A unique ID identifying a transaction set generated for a trading partner

#### Example:

ST\*856\*0002~

### BSN – Beginning Segment for Ship Notice (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	353	Transaction Set Purpose Code	Μ	M	ID	2/2	"00" - Original
02	396	Shipment Identification	M	M	AN	2/30	Note BSN02
03	373	Date	M	M	DT	8/8	CCYYMMDD
04	337	Time	Μ	M	TM	4/8	HHMI

Example:

BSN\*00\*123456789012345\*19990909\*0909~

Note:

BSN02: Shipment Identification is the unique identifier that the Sender uses to identify the shipment with. Future Shop's Merchandising System allows for only 15 Alphanumeric characters for the External Shipment Number. Anything after the 15<sup>th</sup> character will be truncated. Please limit your Shipment Number sequence accordingly.

### DTM – Date/Time Reference (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS X.12		Туре	Size	FS Usage
01	374	Date/Time Qualifier	M	М	ID	3/3	011, 038, 067, 068
							See Note DTM01
02	373	Date	M	C	DT	8/8	CCYYMMDD
03	337	Time	M	C	TM	4/8	HHMI

Example:

DTM\*011\*19990909\*1234~

Note: Future Shop requires at least 3 instances of the DTM segment. The Ship Not After Date and the Current Schedule Delivery is always required. At least one of Shipped Date and Current Schedule Ship Date is required.

Element	Value	Meaning
DTM01	011	Shipped
	038	Ship Not After
	067	Current Schedule Delivery
	068	Current Schedule Ship

### HL – Hierarchical Level (Shipment Level) (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	628	Hierarchical ID Number	M	M	AN	1/12	An unique identifier
02	734	Hierarchical Parent ID Number	0	0	AN	1/12	Identifying the parent
							HL loop
03	735	Hierarchical Level Code	M	M	AN	1/2	"S" - Identifying the
							hierarchical level

Example:

HL\*2\*1\*S~

Notes:

This segment has 3 functions in this set:

- 1. To group Header level information not stored in BSN and DTM segments. This includes the PRF, TD1, TD5, FOB and N1 segments.
- 2. To group Carton level information if applicable. This includes the MAN and N1 segments.
- 3. To group Item level information. This includes the LIN, SN1, PO4 segments.

This instance of the HL segment groups the **Header level** information not stored in BSN and DTM segments. This includes the PRF, TD1, TD5, FOB and N1 segments

Please refer to the Segment Summary for an overview of the document structure.

Please also note that the Carton level information may not be available. It is not mandatory at this point.

### PRF – Purchase Order Reference (Mandatory)

	Element			Requirement		Data		
ID	Ref	Name		X.12	Туре	Size	FS Usage	
01	324	Purchase Order Number	M	М	AN	1/22	This is Future Shop's Purchase Order Number for the items in this shipment.	

#### Example:

PRF\*123456~

Notes:

Please note that there is a one to many relationship between a Future Shop Purchase Order to Advance Ship Notices; as a result, there is a one to one relationship between the Advance Ship Notice to the Purchase Order. This means that one Advance Ship Notice can refer to only one Purchase Order, and one Purchase Order may be referenced by more than one Advance Ship Notices. However, one Advance Ship Notice cannot contain items for more than one Purchase Order, or for more than one Ship To Location, or for more than one Transfer To / Cross Dock Location.

## TD1 – Carrier Details (Quantity and Weight) (Mandatory)

Element		Requirement		Data			
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	103	Packaging Code	0	0	AN	3/5	See Note TD101
02	80	Lading Quantity	M	C	N0	1/7	See Note TD102

#### Example:

TD1\*CTN\*100~

Notes:

Element	Value	Meaning				
TD101	Future Shop'	s Merchandising System uses the following as				
	Packaging Codes:					
	BAG Bag					
	CTN	Carton				
	PLT	Pallet				
	Please note code.	that X.12 Data Element 103 is a 2-part packaging				
	<ul> <li>Part 1, which is 3 characters long, identifies the Packaging Form, and</li> <li>Part 2, which is 2 characters long, identifies the Packaging Material.</li> </ul>					
	Only Part 1 used. Future it is not ne	is required by X.12 004010 if this data element is a Shop will be using only information in Part 1, so accessary to transmit Part 2 in 004010.				
TD102	Future Shop' quantity of <i>limitation</i> .	s Merchandising System allows for a lading up to 4 digits only. Please be aware of this This is the number of cartons/boxes.				

## TD5 – Carrier Details (Routing Sequence/Transit Time) (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
02	66	Identification Code Qualifier	C	C	ID	1/2	"2" – Standard Carrier
							Alpha Code (SCAC)
03	67	Identification Code	C	C	AN	2/80	
04	91	Transportation Method/Type	C	C	ID	1/2	"M" – Common
		Code					Carrier

#### Example:

TD5\*\*2\*JCL\*M~

## FOB – FOB Related Information (Mandatory)

Element		Requirement		Data			
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	146	Shipment Method of Payment	М	М	ID	2/2	"CC" – Collect "PP" – Prepaid

Example:

FOB\*CC~

#### N1 – Name (Mandatory)

	Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage	
01	98	Entity Identifier Code	M	M	ID	2/3	"ST" – Ship To	
							"TT" – Transfer To	
03	66	Identification Code Qualifier	M	C	ID	1/2	"92" - Assigned by	
							Buyer or Buyer's	
							Agent	
04	67	Identification Code	M	C	AN	2/80	Future Shop Location	
							Identifier	
06	98	Entity Identifier Code	M	0	ID	2/3	"SN" – Store	
							"WH" - Warehouse	

Example:

N1\*TT\*\*92\*0001\*\*SN~

Note:

The N1 Segment at this level is used for 1 purpose:

1. To transmit the Ship To location for the shipment

The Ship To location comes right after the FOB information in the first hierarchical level. Please note that the Transfer To location comes right after the Carton information in the second hierarchical level, if Carton information is available. Please refer to the Segment Summary for an overview of the structure of this transaction set.

The Transfer To location is needed only when Cross Docking is involved.

Example:

```
ST*856*0001~
BSN*00*1234567890*19990613~
DTM*011*19990101*1200~
DTM*038*19990202*1200~
DTM*067*19990303*1200~
DTM*068*19990404*1200~
HL*1**S~
PRF*123456~
TD1*CTN*100~
TD5**2*JCL*M~
FOB*CC~
N1*ST**92*0001**WH~
HL*2*1*P~
MAN*GM*123456789012312345~
N1*TT**92*0001**SN~
```

### HL – Hierarchical Level (Package Level) (Conditional)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	628	Hierarchical ID Number	M	М	AN	1/12	An unique identifier
02	734	Hierarchical Parent ID Number	0	0	AN	1/12	Identifying the parent
							HL loop
03	735	Hierarchical Level Code	M	М	AN	1/2	"P"- Identifying the
							hierarchical level

Example:

HL\*2\*1\*P~

Notes:

This segment serves 3 functions in this set:

- 1. To group Header level information not stored in BSN and DTM segments. This includes the PRF, TD1, TD5, FOB and N1 segments.
- 2. To group Package/Carton level information if applicable. This includes the MAN and N1 segments.

3. To group Item level information. This includes the LIN, SN1, PO4 segments.

This instance of the HL segment groups the **Package/Carton level** information if applicable. This includes the MAN and N1 segments.

Please refer to the Segment Summary for an overview of the document structure.

Please also note that the Carton level information may not be available. It is not mandatory at this point.

This particular instance of HL is mandatory if either the MAN segment or the N1 segment exists at the Package/Carton level. If neither MAN nor N1 exists at this level, this instance of HL should not exist.

### MAN – Marks and Numbers (Optional)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	88	Marks and Numbers Qualifier	М	М	ID	1 /2	"GM" - UCC-128 Serial Shipping Container Code Format
02	87	Marks and Numbers	М	М	AN	1/48	UCC-128 Serial Shipping Container Code

#### Example:

MAN\*GM\*123456789012312345~

Note:

The MAN segment is not conditioned on the N1 at the Package/Carton level. That is, the use of the MAN segment does not require the use of the N1 at this level. For instance, if a carton with a UCC-128 Code is to be put away at the Ship To Location, no cross docking occurs and therefore there is no cross dock location. The N1 segment at the Package/Carton level indicating the Transfer To/Cross Dock location is not needed in this case.

#### N1 – Name (Optional)

	Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage	
01	98	Entity Identifier Code	M	M	ID	2/3	"ST" – Ship To	
							"TT" – Transfer To	
03	66	Identification Code Qualifier	M	C	ID	1/2	"92" - Assigned by	
							Buyer or Buyer's	
							Agent	
04	67	Identification Code	M	C	AN	2/80	Future Shop Location	
							Identifier	
06	98	Entity Identifier Code	M	0	ID	2/3	"SN" – Store	
							"WH" - Warehouse	

Example:

N1\*TT\*\*92\*0001\*\*SN~

Note:

The N1 Segment at this level is used for 1 purpose:

1. To transmit the Transfer To/Cross Dock location to which the shipment/carton is to be cross docked and transferred

The Transfer To location comes right after the Carton information in the second hierarchical level, if Carton information is available. Please note that the Ship To location comes right after the FOB information in the first hierarchical level. Please refer to the Segment Summary for an overview of the structure of this transaction set.

The Transfer To location is needed only when Cross Docking is involved. If no cross docking is to occur, there is no Transfer To/Cross Dock location, and therefore this instance of N1 segment is not needed. This instance of N1 is not conditioned on the MAN segment. The use of the N1 at this level does not require the use of the MAN segment.

Example:

ST\*856\*0001~ BSN\*00\*1234567890\*19990613~ DTM\*011\*19990101\*1200~ DTM\*038\*19990202\*1200~ DTM\*067\*19990303\*1200~ DTM\*068\*19990404\*1200~ HL\*1\*\*S~ PRF\*123456~ TD1\*CTN\*100~ TD5\*\*2\*JCL\*M~ FOB\*CC~ N1\*ST\*\*92\*0001\*\*WH~ HL\*2\*1\*P~ MAN\*GM\*123456789012312345~ N1\*TT\*\*92\*0001\*\*SN~

### HL – Hierarchical Level (Item Level) (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	628	Hierarchical ID Number	M	M	AN	1/12	An unique identifier
02	734	Hierarchical Parent ID Number	0	0	AN	1/12	Identifying the parent
							HL loop
03	735	Hierarchical Level Code	M	M	AN	1/2	"I" - Identifying the
							hierarchical level

Example:

HL\*2\*1\*I~

Notes:

This segment serves 3 functions in this set:

- 1. To group Header level information not stored in BSN and DTM segments. This includes the PRF, TD1, TD5, FOB and N1 segments.
- 2. To group Carton level information if applicable. This includes the MAN and N1 segments.
- 3. To group Item level information. This includes the LIN, SN1, PO4 segments.

This instance of the HL segment groups the **Item level** information. This includes the LIN, SN1, PO4 segments.

Please refer to the Segment Summary for an overview of the document structure.

		Element	Requirement			Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage	
01	350	Assigned Identification	0	0	AN	1/20	Line Number	
02	235	Prorduct/Service ID Qualifier	M	М	ID	2/2	"SK" – SKU	
03	234	Product/Service ID	M	М	AN	1/48	Future Shop Sku	
04	235	Prorduct/Service ID Qualifier	M	0	ID	2/2	"UP" – UPC	
05	234	Product/Service ID	M	C	AN	1/48	UPC	
06	235	Prorduct/Service ID Qualifier	0	0	ID	2/2	"VP" – Vendor Part	
							Number	
07	234	Product/Service ID	C	C	AN	1/48	Vendor Part Number	

### LIN – Item Identification (Mandatory)

Example:

LIN\*1\*SK\*12345678\*UP\*123456789012312345\*VP\*123456789012~

Note:

Please note that in general, if a qualifier for a data element exists in a segment, the data element that it is qualifying must also exists in that segment. Conversely, if a data element has a qualifier, and the data element exists in a segment, its qualifier must also exists in that segment.

If LIN02 exists, LIN03 must exist. If LIN03 exists, LIN02 must also exist. If LIN04 exists, LIN05 must exist. If LIN05 exists, LIN04 must also exist. If LIN06 exists, LIN07 must exist. If LIN07 exists, LIN06 must also exist.

## SN1 – Item Detail (Shipment) (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
02	382	Number of Units Shipped	М	М	R	1/10	
03	355	Unit of Basis for Measurement	М	М	ID	2/2	"EA" - Each
		Code					"CA" - Case

Example:

SN1\*\*100\*EA~

### PO4 – Item Physical Details (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
02	357	Size	0	0	R	1/8	See Note PO401
03	355	Unit or Basis for Measurement	C	C	ID	2/2	"EA" – Each
		Code					"CA" – Case

Example:

PO4\*\*10\*EA~

Notes:

PO401 X.12 004010 allows for a real number of up to 8 digits.

However, Future Shop's Merchandising System can only handle a pack size up to 4 digits. Please be aware of this limitation.

## CTT – Transaction Totals (Mandatory)

Element		Requirement		Data			
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	354	Number of Line Items	M	М	N0	1/6	

Example:

CTT\*1~

## SE- Transaction Set Trailer (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	FS	X.12	Туре	Size	FS Usage
01	96	Number of Included Segments	Μ	M	N0	1/10	Note SE01
02	329	Transaction Set Control Number	M	M	AN	4/9	

#### Example:

SE\*100\*12321~

Note:

SE01: This is the number of segments between the ST and the SE segments, including the ST and the SE segments.

## GE – Functional Group Trailer

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

Example:

GE\*1\*94~

Note:

GE02, Group Control Number in the GE segment, should correspond to the appropriate GS06, Group Control Number in the GS segment.

## IEA – Interchange Control Trailer

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

#### Example:

IEA\*2\*1011~

Note:

IEA02, Interchange Control Number in the IEA segment, should correspond to the appropriate ISA13, Interchange Control Number in the ISA segment.

## Sample Document

```
ISA*00*
                 *00*
                               *ZZ*123456789012345*12*6044358223FCD *990521*
15565*U*00401*00000001*1*P*^~
GS*SH*123456789012345*6044358223FCD*19980521*1556*5*X*004010~
ST*856*0001~
BSN*00*1234567890*19990613*1200~
DTM*011*19990101*1200~
DTM*038*19990202*1200~
DTM*067*19990303*1200~
DTM*068*19990404*1200~
HL*1**S~
PRF*123456~
TD1*CTN*100~
TD5**2*JCL*M~
FOB*CC~
N1*ST**92*0001**WH~
HL*2*1*P~
MAN*GM*123456789012312345~
N1*TT**92*0001**SN~
HL*3*2*I~
LIN*1*SK*12345678*UP*123456789012312345*VP*123456789012~
SN1**100*EA~
PO4**10*EA~
HL*4*1*P~
MAN*GM*123456789012345~
N1*TT**92*0003**SN~
HL*5*2*I~
LIN*1*SK*12345678*UP*123456789012312345*VP*123456789012~
SN1**100*EA~
PO4**10*EA~
CTT*2~
SE*28*0001~
GE*1*5~
IEA*1*00000001~
```