Best&Less

EDI Implementation Guide
Supplier Information

Electronic Advance Shipping Notice

version 1.03 April 2013

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Best & Less Electronic Trading

1 Introduction

Electronic Data Interchange or EDI as it will be referred to throughout this document provides a mechanism for businesses to exchange business documents electronically. B2B or Business To Business is the jargon term in current use to describe electronic trading between businesses, but often the implementation of B2B falls short of its aim because the adopted solution is developed solely for the benefit of one business partner.

In seeking to increase the efficiency of its business processes, Best & Less have adopted a B2B standard which is internationally recognised and widely used in the retail industry in Australia. By using the ANSI X12 VICS implementation of EDI, Best & Less have ensured that their supplier community can use existing EDI solutions to receive Purchase Orders and Purchase Order Changes from Best & Less, and in turn send back Advanced Shipping Notices containing details of goods being shipped to Best & Less.

1.1 Purpose of this implementation guide

This Implementation Guide will provide trading partners with the necessary information to send EDI Advance Shipping Notices (message type 856) to Best & Less after the receipt of EDI purchase orders (message type 850) and purchase order changes (message type 860) from Best & Less. A separate Implementation Guide provides information about purchase orders and purchase order changes.

1.2 Who should use this guide

This Implementation Guide is intended for use by Best & Less suppliers, referred to in the rest of this document as trading partners. The guide defines the format, content and processing required to send and receive EDI documents and is designed to support the successful implementation of EDI.

1.3 What is an Advance Shipping Notice (ASN)?

An Advance Shipping Notice, or ASN as it will be referred to in this guide, is an EDI message sent by the supplier of goods to the customer. It provides shipping details and a full shipping manifest of goods supplied by the supplier, and is sent to the customer in response to an EDI purchase order previously sent by the customer. The ASN is sent by the supplier prior to the arrival of the shipment at the customer warehouse.

The ASN is created from data collected at the time goods for a particular order are being packed. If the process of packing goods is done by scan packing the barcode label of each item being packed, then the ASN can be accurately and quickly created from data collated by the Scan Pack system during the packing process.

1.4 System requirements

There are several companies who can provide EDI software and technical expertise. The company listed below has been engaged by Best & Less to provide consulting and software services for their implementation of EDI, but there are other companies who will also be able to provide software to trade electronically with Best & Less.

Keep in mind that the on-going electronic mailbox costs may over time be more significant than the initial cost of EDI software and that your EDI software supplier needs to be able to provide after sales helpdesk support when required from time to time.

- Double Z Computer Pty Limited Tel: (03) 9521 2188 - EDI advice
  Mitchell Dobelsky & Ralph Zwier

1.5 How to get started

The task of moving to electronic trading with Best & Less will involve a number of steps each of which must be completed before moving to the next step.

Step 1

Read through this implementation guide and check that your EDI software is able to receive the Best & Less purchase order and purchase order change messages, and that your software is able to send back a functional acknowledgement to Best & Less in response to each EDI document you receive (NB. a single EDI document may contain several EDI messages. eg. one EDI document could contain many purchase order messages).

Step 2

Provide us with the details of your EDI mailbox and your Interchange ID (sometimes referred to as your EDI address) so that an EDI trading partnership can be set up. Refer to Appendix A for further details.

Step 3

We need to ensure that when we send you EDI purchase orders, we use product codes that are mutually understood. To this end we need to synchronize our respective product databases and therefore require you to provide us with an up to date and comprehensive list of the products we order from you and the barcodes or product codes by which they are known.

Step 4

Best & Less will send a test EDI purchase order to you and will expect to receive an EDI functional acknowledgement message in response. We will also FAX a copy of the test order showing all details of the test purchase order.

Step 5

An Advance Shipping Notice (ASN) will need to be sent by you back to Best & Less with the test scan pack details. Copies of the Shipping Container label will need to be mailed or FAXed to Best & Less. Once this process has been successfully tested, we will start sending live orders to you.

It is our intention that most of our supplier community will move to electronic trading with us via EDI.

2 Procedures and requirements for ASN processing

2.1 Overview of ASN processing

The Advance Shipping Note process involves an approach to the shipment of goods from a supplier to Best & Less, that seeks to increase the efficiency, accuracy and throughput of shipments, and reduce distribution time and cost.

The sending of an ASN to Best & Less is the culmination of the packing process which itself consists of several steps.

Orders for Best & Less will generally be sent to a single distribution centre (DC), but will be packed by Best & Less store. The DC will distribute incoming shipments out to the stores to which they are ultimately destined.

Each shipping container (pallet, box, carton, bag etc.) into which items for the order are packed, will be individually and uniquely labelled. Section 2.2 shows details of the required label format, with a description of each data component. The component that uniquely identifies each shipping container is the Serial Shipping Container Code (SSCC) which appears in both barcode and human readable form on the label. The SSCC is a 20 digit number that combines your EAN company number with a 9 digit serial number incremented for each successive shipping container. The serial number must be remembered across successive shipments and orders so that no 2 shipping containers have the same SSCC.

Scan pack systems upload a copy of the order, before packing commences. The actual packing process requires each item to be scanned as it is packed. Scan pack systems allow an unopened box to be scanned and for the total number of items in the box to be recorded. As the packing of each box is completed, the scan pack system prints a shipping container label which is attached to the box. The scan pack systems prevent the packing of items that are not part of the order, and in excess of the order.

The scan pack process accumulates information about what items and quantities have been packed into which shipping containers. This information, together with shipping details are used to create the ASN.

When Best & Less has received both the ASN and the physical shipment, it is possible to scan the SSCC on the box label and cross reference it to the ASN data, and obtain a report on the contents of the box without having to open the box.

2.2 Labelling of boxes or other shipping containers

Each shipping container sent to Best & Less must have a label attached in the format shown below. The information contained on the label will provide our distribution centre with sufficient data to process the incoming shipment in an efficient and speedy manner.

To assist the warehouse in processing shipments, the label should be attached to the top of the carton on the top right hand side.

2.3 Acknowledgement of ASNs received by Best & Less

Best & Less will send a Functional Acknowledgement (FA), message type 997, to an EDI trading partner on receipt of an ASN, message type 856.

The purpose of the Functional Acknowledgement message is to provide confirmation to the supplier, that Best & Less has received their ASN. While the Functional Acknowledgement authenticates the technical correctness of the EDI message, it does not verify the business information in the message. It only serves to confirm receipt of the EDI message. This is analogous to Registered Mail being sent through Australia Post which requires a signature from the receiving party as a means of confirming that the mail has reached its destination. However, if there are any concerns about the business content of the EDI message Best & Less will contact the supplier. If necessary, the ASN may need to be resent to Best & Less.

2.4 Testing procedures

The testing procedure for ASN processing require trading partners to confirm that they are able to fully to handle an EDI test order sent by Best & Less. This includes the following steps:

- **Receiving an EDI test order (message type 850)**
- **Sending back a functional acknowledgement (message type 997)**
- **Receiving a change to the purchase order (message type 860)**
- **Scan packing of the purchase order with any amendments**
- **Printing of shipping container labels with the SSCC in the specified format**
- **Sending an ASN in the format specified by Best & less (message type 856)**
- **Receiving a functional acknowledgement from Best & Less for the ASN sent**

Although there is no physical shipment of goods in the testing procedure, the ASN must be sent electronically and the carton labels must be FAXed or mailed to Best & Less for checking.

2.5 Best & Less trading partner details

Best & Less use GXS and Zed Plus as their VANs (Value Added Network) for the transmission and receipt of EDI messages. The GXS network provides a gateway to other networks such as the Leadtec network, to enable EDI messages to be sent and received transparently to and from trading partners on other networks.

All transmissions on the GXS network use the EDI Interchange ID - sometimes referred to as the EDI Address - to direct messages to the correct destination, whether to another EDI mailbox on the GXS network, or to a different network.

Best & Less EDI details:

Best & Less Interchange ID:	BESTANDLESS
EDI qualifier	ZZ
Best & Less Application ID:	BESTANDLESS

She Lingerie details:

She Lingerie Interchange ID:	SHELINGERIE
EDI qualifier	ZZ
She Lingerie Application ID:	SHELINGERIE

3 Technical details

3.1 Overview

The following sections outline the format of the EDI ASN message sent by trading partners to Best & Less and the Functional Acknowledgement received from Best & Less in response. All EDI documents are in the ANSI X12 format.

The ASN message has a hierarchical structure that describes a shipment of goods from its broadest elements to the individual products making up the shipment. The next section describes the structure of the ASN

All EDI documents require an X12 envelope structure and section 3.4 describes the structure and content of the envelope. Subsequent sections describe the ASN messages sent by the trading partner and the functional acknowledgement message received from Best & Less:

856 VICS 4010 Advance shipping notice

997 VICS Functional acknowledgement

Each section describes the relevant segments and codes used or expected by Best & Less in sending and receiving EDI.

3.2 How this version differs from the previous version

The specifications of the EDI 856 Advance Shipping Notice (ASN) have changed in this implementation guide, version 1.03, compared to the previous version 1.02, because Best and Less need a Master SKU to be marked against each product being shipped. The Master SKU is a new product reference similar to a product category. It is possible that more than one product could have the same Master SKU. It is also possible that some products will not have any Master SKU.

The Master SKU will be transmitted in sub-segments 8 and 9 of the LIN segment (see page 28). Sub-segment 8 will contain the qualifier “IN” which is a reference to the Buyer's Item Number. Sub-segment 9 will contain the Master SKU.

NB. the Master SKU is transmitted in the original purchase order and is therefore data that can simply be copied from there to the ASN.

3.3 ASN structure

The Advance Shipping Notice is constructed with a hierarchical structure, quite different from an EDI Purchase order. The hierarchical structure provides a convenient method of describing all of the information relating to the shipment of goods from its broadest elements to its individual products.

The broadest elements of a shipment are date of shipment and carrier details, then details of the order, such as the purchase order number and date, then details of pallets containing boxes, and then boxes containing items. Since each pallet and each box is uniquely labelled, we need to identify which boxes are on each pallet. The hierarchical structure allows a group of boxes to be associated with a pallet. The hierarchical structure then allows a group of items to be associated with a particular box. Thus a full shipment manifest can be described.

The previous paragraph describes the construction of an ASN using what is known as a Pick and Pack structure. Within the retail industry there are 2 main methods of merchandise packaging. These are called:

Pick and Pack - Different products can be packed within a shipping container

Standard Pack - Identical products are packed within a shipping container

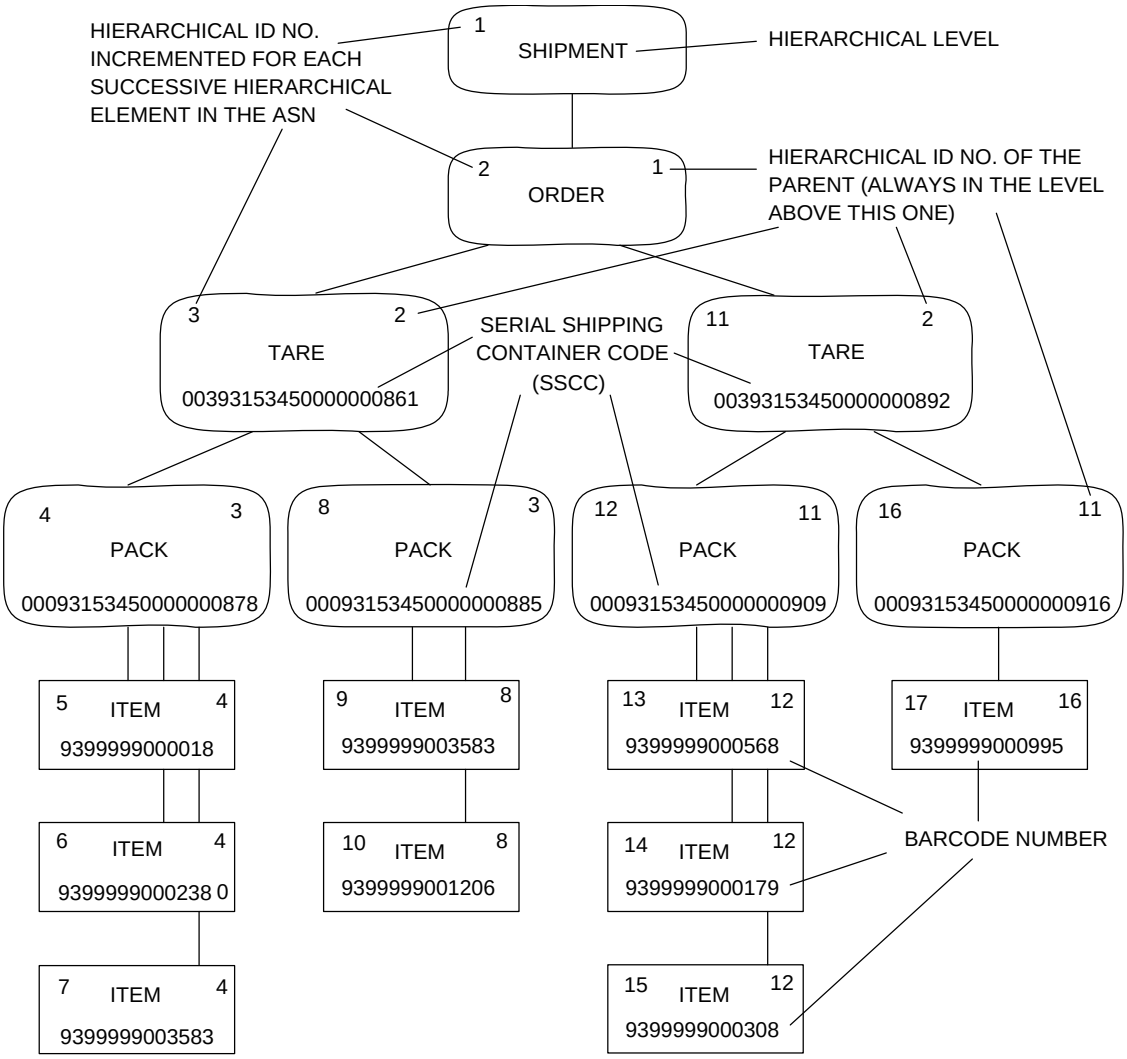
Reflecting these 2 methods of merchandise packaging, there are 2 ways of constructing an ASN. Both ASN types use the hierarchical structure, but whereas the Pick and Pack structure describes products within a box on a pallet, the Standard Pack structure describes boxes on a pallet for a product. ie. For a single product there may be many pallets and many boxes.

Best & Less requires Trading Partners to only use the Pick and Pack structure for creating ASNs.

ASNs constructed for Best & Less using the Pick and Pack method, require 5 hierarchical levels as described below:

HIERARCHY	CODE	DESCRIPTION
Shipment level	**S**	Contains information that relates to the whole shipment, such as carrier name, bill of lading number, delivery date, delivery centre code etc.
Order level	**O**	Contains information about the purchase order giving rise to this shipment. This includes purchase order number, number of packages in the shipment, store code of ultimate destination. There is a separate order level for each store code. The hierarchical levels below the Order level contain packing details for this one store.
Tare level	**T**	Contains pallet information including the unique pallet identifier. This level may be omitted if the shipment does not contain pallets.
Pack level	**P**	Contains the Serial Shipping Container Code (SSCC) that uniquely identifies a box or other shipping container on the pallet described one level up, for the store described two levels up.
Item level	**I**	Contains details of the products and quantities packed into the box identified in the previous hierarchical level.

The hierarchical structure of an ASN can be more easily understood from the diagram below.



Although the ASN is constructed sequentially in the order shown by the hierarchical ID numbers on the top left corner of each box in the diagram, the conceptual description is better represented by the layout shown.

Each successive hierarchical level is subordinate to its parent in the level above. The Item shown in the bottom hierarchical level is contained within the Pack in the level above. The Pack is contained within the Tare - in the level above. The Tare is contained within the Order - in the level above. And finally, the Order is contained within the Shipment at the top level.

3.4 ANSI X12 envelope structure

This section describes the envelope segments of an X12 document. All X12 documents will contain these segments. There may be one or many X12 messages contained in an X12 document. The structure of an X12 message is described below. All envelope segments must be included in an EDI document:

Segment	Description
ISA	Interchange control header
GS	Functional group header
ST	Transaction set header
.	.
.	.
.	EDI message body
.	.
.	.
SE	Transaction set trailer
ST	Transaction set header
.	.
.	.
.	EDI message body
.	.
.	.
SE	Transaction set trailer
GE	Functional group trailer
IEA	Interchange control trailer

The interchange control structure is common to all the transaction sets.

3.4.1 ISA segment - Interchange control header

The ISA segment marks the start of an EDI document. It is matched by an IEA segment at the end of the document. Only one ISA segment appears in a document and it describes the trading partners involved in the transmission.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Authorization information qualifier	ID	2	2	M	Set to “00” - No authorization information present
2	Authorization Information	AN	10	10	M	Set to 10 spaces
3	Security Information Qualifier	ID	2	2	M	Set to “00” - No security information present
4	Security Information	AN	10	10	M	Set to 10 spaces
5	Interchange ID qualifier	ID	2	2	M	Set to “ZZ” - Mutually defined
6	Interchange sender ID	ID	15	15	M	Sender ID as mutually defined between sender and receiver. For documents sent by Trading partners this will contain the trading partner Interchange ID
7	Interchange ID qualifier	ID	2	2	M	Set to “ZZ” - Mutually defined
8	Interchange receiver	ID	15	15	M	Receiver ID as mutually defined between sender & receiver. For documents sent to Best & Less this will contain “BESTANDLESS ” (NB. trailing spaces)
9	Date	DT	6	6	M	The date the interchange was created in the sender’s system in the form YYMMDD
10	Time	TM	4	4	M	Time of the interchange created (HHMM) in the sender’s system; submit time. 24 hour clock
11	Interchange standards identifier	ID	1	1	M	Set to “U” - U.S. EDI Community of ASC X12
12	Interch. version ID	ID	5	5	M	Set to “00401” - version 4, release 1
13	Interchange control number	N	9	9	M	Uniquely identifies the interchange data to the sender. Use leading zeroes to fill out the 9 characters
14	Acknowledgement requested	ID	1	1	M	Set to “1” to request a functional acknowledgement response
15	Test indicator	ID	1	1	M	Set to “P” - Production (live) or “T” - Test transmission
16	Sub-element separator	AN	1	1	M	Set to “>”. Field reserved for future expansion in separating data element subgroup

3.4.2 GS segment - Functional group header

The GS segment marks the start of a functional group. It is terminated by a GE segment at the end of the functional group. There can be more than one GS - GE functional group within a single EDI message. This will normally occur when the EDI message contains more than one EDI message type (eg. an 856 ASN and a 997 Functional acknowledgement).

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Functional ID	ID	2	2	M	Set to "SH" for advance shipping notices or "FA" for functional acknowledgement
2	Application sender's code	ID	2	12	M	Unique code that identifies the sender (often set to the first 12 characters of the trading partner's Interchange ID)
3	Applications receiver's code	ID	2	12	M	Unique code that identifies the receiver. The application ID for Best & Less is "BESTANDLESS"
4	Date	DT	6	6	M	Date of functional group in YYMMDD format
5	Time	TM	4	4	M	Expressed in 24 hour clock time in format HHMM
6	Group control number	N	1	9	M	Unique number originated and maintained by the sender
7	Responsible agency code	ID	1	2	M	Set to "X" - Accredited Standards Committee X12
8	Version	ID	1	12	M	Set to "004010VICS" - The version code of the EDI standard

3.4.3 ST segment - Transaction set header

The ST segment is the first segment of a transaction type such as an 856 ASN, or a 997 functional acknowledgement. It is terminated by an SE segment at the end of the transaction set. There can be more than one ST - SE transaction set within one functional group (GS - GE). In the case of an ASN, the segments within one transaction set would describe one ASN.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Transaction set identifier code	ID	3	3	M	Set to "856" for advance shipping notices, or "997" for functional acknowledgements
2	Transaction set control number	AN	4	9	M	Control number assigned by the originator of a transaction set. Must be unique within a functional group. The first ST segment in a functional group is often set to "0001"

3.4.4 SE segment - Transaction set trailer

The SE segment terminates the transaction set. The first sub-segment contains a count of all the segments within one transaction set including the ST and SE segments that start and end the transaction set. The count of segments is used for error checking purposes.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Number of included segments	N0	1	10	M	Total number of segments included in a transaction set including the ST and SE segments
2	Transaction set control number	AN	4	9	M	Identifying control number assigned by the originator for a transaction set. Same as ST 02

3.4.5 GE segment - Group control trailer

The GE segment terminates the functional group. It contains the number of transaction sets within the group and confirms the group control number. Both items of data are used for error checking.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Number of transaction sets	N0	1	6	M	Total number of transaction sets (ST - SE sets) included in this functional group
2	Group control number	N0	1	9	M	Assigned number originated and maintained by the sender. Same as GS 06

3.4.6 IEA segment - Interchange control trailer

The IEA segment terminates the EDI message. It contains a count of the number of functional groups in the message and repeats the interchange control number. Both items of data are used for error checking.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Number of included groups	N0	1	5	M	A count of the number of functional groups included in a transmission.
2	Interchange control number	N0	9	9	M	Code uniquely identifies the interchange data to the sender. Same as ISA 13

3.5 856 Advance Shipping Notice - VICS 4010

Functional Group ID = SH

This section describes all of the segments used in constructing an ASN to be sent to Best & Less. Below is a summary of the segments and their positions within a transaction set:

Segment	Description	
Heading segments		
ST	Transaction set header	mandatory
BSN	Beginning segment for purchase order	mandatory
Detail segments		
HL	Hierarchical level (shipment level)	mandatory
TD1	Carrier details	
TD5	Carrier details (Routing sequence/Transit time)	mandatory
REF	Reference numbers	
DTM	Date/Time reference	
N1	Name	
HL	Hierarchical level (order level)	
PRF	Purchase order reference	
TD1	Carrier details	
N1	Name	
HL	Hierarchical level (tare [pallet] level)	
MAN	Marks and numbers	
HL	Hierarchical level (pack [carton] level)	
MAN	Marks and numbers	
HL	Hierarchical level (item level)	
LIN	Item identification	
SN1	Item detail	
Summary segments		
CTT	Transaction totals (no. of HL segments)	mandatory
SE	Transaction set trailer	mandatory

3.5.1 ST segment - Transaction set header

Level: Heading
Usage: Mandatory

The ST segment is the first segment of the 856 advance shipping notice. It is terminated by an SE segment at the end of the transaction set. There can be more than one ST - SE transaction set within one functional group (GS - GE). The segments within one transaction set describe one ASN.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Transaction set identifier code	ID	3	3	M	Set to “856” for advance shipping notices
2	Transaction set control number	AN	4	9	M	Identifying control number assigned by the originator for a transaction set. Must be unique within a functional group

ST*856*0001

3.5.2 BSN segment - Beginning segment for the ASN

Level: Heading
Usage: Mandatory

The BSN segment is the first segment of the advance shipping notice and includes the ASN number which uniquely identifies the shipment.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Transaction set purpose code	ID	2	2	M	Code identifying purpose of transaction set: 00 - Original
2	Shipment identification	AN	2	30	M	Shipment identification number - ASN number
3	Date	DT	8	8	M	Date this ASN message was created (CCYYMMDD)
4	Time	TM	4	8	M	Time this ASN document was created (HHMM)
5	Hierarchical structure code	ID	4	4	O	Code defining the hierarchical structure of this message “0001” - Pick & pack structure

Example: BSN*00*00766*20121101*1531*0001

3.5.3 HL segment - Hierarchical level (shipment)

Level: Detail (shipment level)
Usage: Mandatory

The HL segment is used to separate the ASN data into its logical hierarchical sections. The hierarchical level is set in HL 03 and, listing in top down order, must be one of:

S - Shipment
O - Order
T - Tare
P - Pack
I - Item

This HL segment is the top level, which occurs only once in the ASN and HL 03 is set to **S**.

HL 01 is the ID number. The first HL segment in the message has an ID number of 1 and this number is incremented by one for each subsequent HL segment.

HL 02 is the parent ID number and is set to the ID number of the HL segment to which this HL segment is subordinate. In other words it is set to the ID number of the HL segment one level above this one. In the case of the top level HL segment (ie. the shipment level), there is no parent and therefore HL 02 is left blank.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Hierarchical ID number	AN	1	12	M	The first HL segment has the value “1”
2	Hierarchical parent ID number	AN	1	12	O	Not used in the first HL segment
3	Hierarchical level code	ID	1	2	M	The first HL segment is set to “S”

Example: HL*1**S

3.5.4 TD1 segment - Carrier details (quantity & weight)

Level: Detail (shipment level)
Usage: Mandatory

To specify the shipment in terms of weight and number of packages for the shipment as a whole.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Packaging code	AN	3	5	O	Code identifying type of packaging. Made up of 3 characters of packaging form + 2 characters of packaging material BAG - Bag 01 - Aluminium CTN - Carton 25 - Corrugated or solid PLT - Pallet 31 - Fibre UNT - Unit 79 - Plastic
2	Lading quantity	N0	1	7	C	Number of cartons or pallets for this shipment
3	Commodity code qualifier	ID	1	1	O	Not used by Best & Less
4	Commodity code	AN	1	16	C	Not used by Best & Less
5	Lading description	AN	1	50	O	Not used by Best & Less
6	Weight qualifier	ID	1	2	O	Not used by Best & Less
7	Weight	R	1	10	C	Total shipment weight
8	Unit of measurement code	ID	2	2	C	KG - Kilograms

Example: TD1*CTN25*52*****135*KG

3.5.5 TD5 segment - Carrier details

Level: Detail (shipment level)
Usage: Mandatory
To specify the carrier name of this shipment and whether the shipment is complete (even if it is short), or whether it is a split shipment.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Routing sequence code	ID	1	2	O	Not used by Best & Less
2	Identification code qualifier	ID	1	2	C	Not used by Best & Less
3	Identification code	AN	2	80	C	Not used by Best & Less
4	Transport method code	ID	1	2	C	Not used by Best & Less
5	Routing	AN	1	35	C	Carrier name
6	Shipment/order status	ID	2	2	O	CC - ship complete SS - split shipment

Example: TD5*****MARK II AIR*CC

3.5.6 REF segment - Reference numbers

Level: Detail (shipment level)
Usage: Mandatory

To specify bill of lading numbers or carrier's consignment note number.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Reference identification qualifier	ID	2	3	M	Code qualifying the reference number BM - Bill of lading no. CN - Carrier's consignment note number
2	Reference number	AN	1	30	C	Bill of lading number or con note number

Example: REF*BM*28450776
REF*CN*066215

3.5.7 DTM segment - Date/Time reference

Level: Detail (shipment level)
Usage: Mandatory

To specify various dates associated with the ASN including the actual shipping date, the scheduled delivery date and a scheduled shipping date if the shipment has not been sent as yet. Scheduled delivery date with an '067' qualifier must be sent, but the ship date can be sent using either '011' or '068' as the qualifier.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Date/Time qualifier	ID	3	3	M	Code specifying type of date: 011 - Ship date 067 - Scheduled delivery date 068 - Scheduled ship date
2	Date	DT	8	8	C	Date in the form CCYYMMDD

Examples: DTM*011*20121123
DTM*067*20121125
DTM*068*20121123

3.5.8 N1 segment - Name

Level: Detail (shipment level)
Usage: Mandatory

To identify where a shipment is to be delivered.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Entity identifier code	ID	2	2	M	Code identifying an organisational entity or a physical location: ST - Ship to
2	Name	AN	1	35	C	Not used by Best & Less
3	Identification code qualifier	ID	1	2	C	Code designating the system/method of code structure used for identification code: 92 - Assigned by buyer
4	Identification code	ID	2	17	C	Code identifying a Delivery Centre or Best & Less store

Example: N1*ST**92*1103

3.5.9 HL segment - Hierarchical level (order)

Level: Detail (order level)
Usage: Mandatory

This HL segment is the second level, one below the shipment level. There will be one order level HL segment for each Best & less store for which goods are being packed.

HL 01 is the ID number. The first HL segment in the message has an ID number of 1 and this number is incremented by one for each subsequent HL segment.

HL 02 is the parent ID number and is set to the ID number of the HL segment to which this HL segment is subordinate. In other words it is set to the ID number of the HL segment one level above this one. In the case of this HL segment (ie. the order level), the parent HL segment is always the shipment level and therefore HL 02 is always set to 1.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Hierarchical ID number	AN	1	12	M	The first order level HL segment has the value “2”
2	Hierarchical parent ID number	AN	1	12	O	The order level HL segment will be set to “1”
3	Hierarchical level code	ID	1	2	M	The order level HL segment is set to “O”

Example: HL*2*1*O

3.5.10 PRF segment - Purchase order reference

Level: Detail (order level)
Usage: Mandatory

To provide reference to a specific purchase order.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Purchase order number	AN	1	22	M	Purchase order number sent by Best & Less
2	Release number	ID	1	30	O	Retailer's backorder number
3	Change order sequence number	AN	1	8	O	Not used by Best & Less
4	Purchase order date	DT	8	8	O	Not used by Best & Less

Example: PRF*577305*PB9191883

3.5.11 TD1 segment - Carrier details (quantity & weight)

Level: Detail (order level)
Usage: Mandatory

To specify the shipment in terms of weight and number of packages for each Best & Less store for which goods are being packed.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Packaging code	AN	3	5	O	Code identifying type of packaging. Made up of 3 characters of packaging form + 2 characters of packaging material BAG - Bag 01 - Aluminium CTN - Carton 25 - Corrugated or solid PLT - Pallet 31 - Fibre UNT - Unit 79 - Plastic
2	Lading quantity	N0	1	7	C	Number of cartons or pallets for this Best & Less store
3	Commodity code qualifier	ID	1	1	O	Not used by Best & Less
4	Commodity code	AN	1	16	C	Not used by Best & Less
5	Lading description	AN	1	50	O	Not used by Best & Less
6	Weight qualifier	ID	1	2	O	Not used by Best & Less
7	Weight	R	1	10	C	Weight of shipment for this Best & Less store
8	Unit of measurement code	ID	2	2	C	KG - Kilograms

Example: TD1*CTN25*16*****89*KG

3.5.12 N1 segment - Name

Level: Detail (order level)
Usage: Optional

To identify where a shipment is to be ultimately delivered. The N1 segment in the shipment level specifies the Delivery Centre to which goods are to be delivered. This N1 segment specifies the individual store for which goods are packed.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Entity identifier code	ID	2	2	M	Code identifying an organisational entity or a physical location: BY - Buying party
2	Name	AN	1	35	C	Not used by Best & Less
3	Identification code qualifier	ID	1	2	C	Code designating the system/method of code structure used for identification code: 92 - Assigned by buyer
4	Identification code	ID	2	17	C	Code identifying a Best & Less store

Example: N1*BY**92*1103

3.5.13 HL segment - Hierarchical level (tare)

Level: Detail (tare level)
Usage: Optional

This HL segment is on the third hierarchical level, two below the shipment level. There will be one tar level HL segment for each pallet for which goods are being packed. The tare level is not required if there are no pallets in this shipment.

HL 02 is the parent ID number and is set to the ID number of the HL segment to which this HL segment is subordinate. In other words it is set to the ID number of the HL segment one level above this one. In the case of this HL segment (ie. the tare level), the parent HL segment is always the order level and therefore HL 02 is set to the ID number of the previous order level HL segment.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Hierarchical ID number	AN	1	12	M	Incremented value, one more than the previous HL segment
2	Hierarchical parent ID number	AN	1	12	O	This will be set to the ID number of the previous order level HL segment.
3	Hierarchical level code	ID	1	2	M	The tare level HL segment is set to “T”

Example: HL*3*2*T

3.5.14 MAN segment - Marks and numbers

Level: Detail (tare level)
Usage: Optional

To indicate identifying marks and numbers for shipping containers. This will generally use the "GM" qualifier which represents the 20 character UCC/EAN-128 Serial Shipping Container Code (SSCC).

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Marks and numbers qualifier	ID	1	2	M	Code identifying the type of container mark: AA - SSCC-18 CP - Carrier assigned GM - UCC/EAN-128 SSCC SM - Shipper assigned UC - UPC Shipping Container Code (Interl. 2 of 5)
2	Marks and numbers	AN	1	48	M	Pallet unique identifier

Example: MAN*GM*00093153450000000878

3.5.15 HL segment - Hierarchical level (pack)

Level: Detail (pack level)
Usage: Optional

This HL segment is on the fourth hierarchical level, three below the shipment level. There will be one pack level HL segment for each carton/box/case in which items are packed.

HL 02 is the parent ID number and is set to the ID number of the HL segment to which this HL segment is subordinate. ie. one level above this one. The parent HL segment will either be the tare level, or the order level if there is no tare level, therefore HL 02 is set to the ID number of the previous tare level or order level HL segment.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Hierarchical ID number	AN	1	12	M	Incremented value, one more than the previous HL segment
2	Hierarchical parent ID number	AN	1	12	O	This will be set to the ID number of the previous tare level, or order level HL segment if there is no tare level.
3	Hierarchical level code	ID	1	2	M	The pack level HL segment is set to "P"

Example: HL*4*3*P

3.5.16 MAN segment - Marks and numbers

Level: Detail (pack level)
Usage: Optional

To indicate identifying marks and numbers for shipping containers packed onto a pallet or shipped directly. These are generally boxes, bags, cartons or cases. Use the "GM" qualifier which represents the 20 character UCC/EAN-128 Serial Shipping Container Code (SSCC).

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Marks and numbers qualifier	ID	1	2	M	Code identifying the type of container mark: GM - UCC/EAN-128 SSCC
2	Marks and numbers	AN	1	48	M	Unique identifier of a box/bag/carton/case etc.

Example: MAN*GM*00093153450000000885

3.5.17 HL segment - Hierarchical level (item)

Level: Detail (item level)
Usage: Optional

This HL segment is on the fifth hierarchical level, four below the shipment level. There will be one item level HL segment for each different product barcode within a pack (ie. box/bag/carton).

HL 02 is the parent ID number and is set to the ID number of the HL segment to which this HL segment is subordinate. ie. one level above this one. The parent HL segment will be the pack level, therefore HL 02 is set to the ID number of the previous pack level.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Hierarchical ID number	AN	1	12	M	Incremented value, one more than the previous HL segment
2	Hierarchical parent ID number	AN	1	12	O	This will be set to the ID number of the previous pack level.
3	Hierarchical level code	ID	1	2	M	The item level HL segment is set to "I"

Example: HL*5*4*I

3.5.18 LIN segment - Item identification (item)

Level: Detail (item level)
Usage: Mandatory

To identify products packed into a shipping container. The product code in LIN 03 should be the Best & Less SKU sent in the original purchase order. LIN 05 should be the barcode sent in the original purchase order.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Assigned identification	AN	1	11	O	Not used by Best & Less
2	Product/Service ID qualifier	ID	2	2	M	Type of product code in the next sub-segment: SK - Buyer's SKU CB - Buyer's catalogue number BP - Buyer's part number
3	Product/Service ID	AN	1	48	M	Best & Less product code
4	Product/Service ID qualifier	ID	2	2	C	Type of product code in the next sub-segment: EN - EAN barcode
5	Product/Service ID	AN	1	48	C	EAN barcode
6	Product/Service ID qualifier	ID	2	2	C	Type of product code in the next sub-segment: VC - Vendor's catalogue number VN - Vendor's item number
7	Product/Service ID	AN	1	48	C	Supplier's product code
8	Product/Service ID qualifier	ID	2	2	C	Type of product code in the next sub-segment: IN - Buyer's item no.
9	Product/Service ID	AN	1	48	C	Best & Less Master SKU (sent in the orig. purchase order)

Example: LIN**SK*6712AA*EN*9376122000345*VN*V5678*IN*MS1234

3.5.19 SN1 segment - Item detail (item)

Level: Detail (item level)
Usage: Mandatory

To specify the quantity shipped and unit of measure.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Assigned identification	AN	1	11	O	Not used by Best & Less
2	Number of units shipped	R	1	10	M	Number of units of the item specified in the LIN segment packed into the shipping container identified in the pack level
3	Unit or basis for measurement code	ID	2	2	M	EA - each

Example: SN1**48*EA

3.5.20 CTT segment - Transaction totals

Level: Summary
Usage: Mandatory

To transmit a hash total for a specific element in a transaction set.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Number of line items	N0	1	6	M	Total number of HL segments in the transaction set

Example: CTT*6

3.5.21 SE segment - Transaction set trailer

Level: Summary
Usage: Mandatory

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

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Number of included segments	N0	1	10	M	Total number of segments included in a transaction set including the ST and SE segments
2	Transaction set control number	AN	4	9	M	Identifying control number assigned by the originator for a transaction set. Same as ST 02

Example: SE*21*0001

3.6 VICS 997 Functional Acknowledgement

Functional Group ID = FA

This section describes all of the segments to be sent by Best & Less in a functional acknowledgement (FA) message in response to an 856 advance shipping notice received by Best & Less. An FA will be sent in response to all documents received by Best & Less (other than an FA). Below is a summary of the segments and their positions within a transaction set:

Segment	Description	
Heading segments		
ST	Transaction set header	mandatory
AK1	Functional group response	mandatory
AK2	Transaction set response header	
AK5	Transaction set response trailer	
AK9	Functional group response	mandatory
Summary segments		
SE	Transaction set trailer	mandatory

3.6.1 ST segment - Transaction set header

Level: Heading
Usage: Mandatory

The ST segment is the first segment of the 997 functional acknowledgement. It is terminated by an SE segment at the end of the transaction set. There can be more than one ST - SE transaction set within one functional group (GS - GE). The segments within one transaction set describe one functional acknowledgement.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Transaction set identifier code	ID	3	3	M	Set to “997” for functional acknowledgement
2	Transaction set control number	AN	4	9	M	Identifying control number assigned by the originator for a transaction set. Must be unique within a functional group

Example: ST*997*0001

3.6.2 AK1 segment - Functional group response

Level: Heading
Usage: Mandatory

To start acknowledgement of a functional group. This segment identifies the original document.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Functional identifier code	ID	2	2	M	Code of the message type being acknowledged SH - Advance shipping notice
2	Group control number	N0	1	9	M	Assigned number originated and maintained by the sender This is the group control number in the document being acknowledged (ie. GS 06 in the original ASN)

Example: AK1*SH*695

3.6.3 AK9 segment - Functional group response

Level: Heading
Usage: Mandatory

To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group.

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Functional group acknowledgement code	ID	1	1	M	Code indicating acceptance or rejection of the document being acknowledged A - Accepted E - Accepted/ Errors noted M - Rejected P - Partially Accepted R - Rejected X - Rejected
2	Number of transaction sets included	N0	1	6	M	Total number of transaction sets (number of ST segments) included in the functional group being acknowledged by this FA
3	Number of received transaction sets	N0	1	6	M	Number of transaction sets received in the functional group being acknowledged
4	Number of accepted transaction sets	N0	1	6	M	Number of accepted transaction sets in the functional group being acknowledged
5	Functional group syntax error code	ID	1	3	O	Code indicating error found based on the syntax editing of the functional group header and/or trailer 1 - Functional group not supported 2 - Functional group version not supported 3 - Functional group trailer missing 4 - Group control no. in the functional group header & trailer do not agree 5 - No. of incl. trans. sets does not match actual count
6	Functional group syntax error code	ID	1	3	O	Same codes as AK9 05
7	Functional group syntax error code	ID	1	3	O	Same codes as AK9 05
8	Functional group syntax error code	ID	1	3	O	Same codes as AK9 05
9	Functional group syntax error code	ID	1	3	O	Same codes as AK9 05

Example: AK9*A*1*1*1

3.6.4 SE segment - Transaction set trailer

Level: Summary
Usage: Mandatory

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

Field #	Element Name	Type	Min Len.	Max Len.	Req	Codes & Comments
1	Number of included segments	N0	1	10	M	Total number of segments included in a transaction set including the ST and SE segments
2	Transaction set control number	AN	4	9	M	Identifying control number assigned by the originator for a transaction set. Same as ST 02

Example: SE*4*0001

Appendix A

Request by a supplier to start EDI trading with Best & Less

To initiate the setting up of a Trading Partnership between your company and Best & Less, please provide us with the details of your EDI mailbox, your Interchange ID and other details as shown in the FAX template on the next page. Then FAX the details to Andrew Roberts, EDI manager at Best & Less on (02) 9560 9844.

Best & Less use GXS and Zed Plus as their VANs (Value Added Network - service providers) for the transmission and receipt of EDI message. You will need to contact your EDI service provider and arrange for them to set up the necessary connections and trading partnerships (TPs) to allow you to trade with Best & Less.

Below are the EDI envelope details used by both Best & Less and She Lingerie.

Best & Less EDI details:

Interchange ID qualifier (ISA 05)	ZZ
Interchange ID (ISA 06/08):	BESTANDLESS
Interchange standards ID (ISA 11)	U
Interchange version ID (ISA 12)	00401
Application ID (GS 02/03):	BESTANDLESS
Responsible agency code (GS 07)	X
Version (GS 08)	004010VICS

She Lingerie details:

Interchange ID qualifier (ISA 05)	ZZ
Interchange ID (ISA 06/08):	SHELINGERIE
Interchange standards ID (ISA 11)	U
Interchange version ID (ISA 12)	00401
Application ID (GS 02/03):	SHELINGERIE
Responsible agency code (GS 07)	X
Version (GS 08)	004010VICS

Best & Less

Fax this form to initiate the setting up of an EDI trading partnership:
Send to Best & Less FAX number: (02) 9560 9844

To: Andrew Roberts (Ph. [02] 9561 3400)
EDI Manager (Fax.[02] 9560 9844)

From: . . . . . .

Company: . . . . . .

Position: . . . . . .

Your TEL no.: . . . . . .

Your FAX no.: . . . . . .

Your e-mail address: . . . . . .

Your EDI details:

EDI network: . . . . . .

Interchange ID: . . . . . .

Application sender's ID: . . . . . .
(usually the first 12 characters of the interchange ID)

Signed: . . . . . .

Name: . . . . . .

Date: . . . . . .

Appendix B

Examples of EDI documents:

EDI document envelope:

```
ISA*00*                *00*                 *ZZ*BESTANDLESS
*ZZ*SUPPLIERCO     *121025*1306*U*00401*000000021*0*P*>
GS*SH*BESTANDLESS*SUPPLIERCO*121025*1306*27*X*004010VICS
ST*856*1001
.
.
.
.
SE*4*1001
GE*1*27
IEA*1*000000021
```

NB. The ISA segment is spread over 2 lines because of insufficient space across the page.

EDI 856 Advance shipping notice:

```
GS*SH*939999999999*BESTANDLESS*121016*1547*53*X*004010VICS
ST*856*1001
BSN*00*0000000016*20121016*154758*0001
HL*1**S                              Shipping level
TD1*CTN25*5*****117*KG               5 cartons / 117Kg for the shipment
TD5*****KWIKASAIR*CC
REF*CN*88631
DTM*067*20121017                     Scheduled delivery date
DTM*068*20121016                     Scheduled ship date
N1*ST**92*8888                       Deliver to DC 8888
HL*2*1*O                             Order level
PRF*16175                            Best & Less PO no. 16175
TD1*CTN25*3*****65*KG                3 cartons / 65Kg for store 157
N1*BY**92*157                        Pack for store 157
HL*3*2*P                             Pack level (no Tare level)
MAN*GM*00393999990000000657          SSCC for this carton
HL*4*3*I                             Item level
LIN**SK*GL199*EN*9399999959855*VN*V5678*IN*MS1234
                  Barcode packed into carton. Master SKU as sent in original PO.
SN1**6*EA                            6 of this barcode have been packed
HL*5*2*P                             Next pack level
MAN*GM*00393999990000000640          SSCC for this carton
HL*6*5*I                             Details of 2 items in this carton
LIN**SK*GS816*EN*9399999959695*VN*V9699*IN*MS3456 First item
SN1**2*EA
HL*7*5*I
LIN**SK*GS915*EN*9399999959848*VN*V7674*IN*MS3456 Second item
SN1**6*EA
HL*8*1*O                             Next order level
PRF*16175                            Best & Less PO no. 16175
TD1*CTN25*2*****52*KG                2 cartons / 52Kg for store 301
N1*BY**92*301                        Pack for store 301
HL*9*8*P
MAN*GM*00393999990000000633
HL*10*9*I
LIN**SK*GL199*EN*9399999959855*VN*V5678*IN*MS1234
SN1**6*EA
HL*11*8*P
MAN*GM*00393999990000000626
HL*12*11*I
LIN**SK*GS816*EN*9399999959695*VN*V9699*IN*MS3456
SN1**2*EA
HL*13*11*I
LIN**SK*GS915*EN*9399999959848*VN*V7674*IN*MS3456
SN1**6*EA
CTT*13
SE*45*1001
GE*1*53
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