## 856 Advance Ship Notice/

Supplier Implementation Guide Getting Started with EDI



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## Introduction to EDI 856 Advance ShipNotice Introduction

## **Getting Started with the Exchange EDI**

The following document was created to speed-up your EDI implementation. If you require additional information that is not included in this packet, please contact our EDI implementation team. We will be happy to assist you.

This document provides instructions for implementing the EDI 856 Advance ship notice and 824 Application Advice.

This document is divided into the following sections:

- Introduction to EDI A basic introduction of EDI and the 856 Advance ship notice and 824 Application Advice.
- Non-Technical Reference Materials Includes contact and protocol information.
- **Technical Guidelines** Your IT or technical staff will need this information to successfully implement the 856 and the 824.

While this guide is largely intended for technical personnel, the introductory information allows you to gain a full understanding of why EDI is used and what the benefits are to you. If you are not a technical resource, we recommend you read this introduction prior to turning this guide over to any IT/technical resources who may implement the 856 Advance Ship Notice and 824 Application Advice for your organization.

If you have questions about conducting business with the Exchange or EDI concerns beyond the 856, 824 please consult the Exchange web site www.shopmyexchange.com under doing business with the Exchange.



#### What is EDI?

Simply stated, EDI (Electronic Data Interchange) is the electronic exchange of business documents between supplier and retailer in a global standardized format. Traditionally, communications between business partners (like Purchase Orders, Advanced Ship Notice or Invoices) were conducted on paper and sent via mail or fax.

With the advent of electronic file sharing, communicating such information electronically greatly reduces the time and resources required to manage these interactions. There are various EDI standards (or formats) that a company may use. Exchange currently supports ANSI X12 (American National Standards Institute), UCS (Uniform Communications Standards) and VICS (Voluntary Inter-industry Commerce Standard).

## What is EDIINT AS2 (Applicability Statement 2)

EDIINT (EDI over the Internet) is a set of communication protocols, introduced by the IETF (Internet Engineering Task Force) in 1995, used to securely transmit data over the Internet. One version of EDIINT that the Exchange offers is AS2 (Applicability Statement 2). AS2 supports EDI or other data file transmissions over the Internet using HTTP.

AS2 is a specification about how to *transport* data, not how to validate or process the content of the data. AS2 specifies the means to connect, deliver, and receive data in a secure and reliable way. Our AS2 is an asynchronous only; it is an Internet Protocol based solution that uses standard HTTP. Here's are our guidelines for AS2 **click here** 



## **Expectations of EDI Suppliers**

Before beginning EDI data testing you must have completed the following:

- AS2 communication testing must be completed within 10 business days
- Partner maps must be completed
- All items must be attached to your procurement code

We require full commitment from our partners. In most cases, EDI data testing should be no longer that 15 business days for partners that create their own mappings. If you use a 3rd party provider, testing should be no longer than 5 business days.



## **EDI Mandatory Transaction**

The required documents are 850 (outbound PO), 810 (inbound Invoice), 860 (outbound Amendment), 856 (inbound ASN) with GS1-128 label documents, and 997 (acknowledgement).

#### **Required Electronic Documents**

Transaction	Standard	Description	Version
810	X-12	Invoice	5010
824	X-12	Application Advice for 810	5010
850	X-12	Purchase Order - Revision 1	5010R1
		(All data)	
850	X-12	Purchase Order - Revision 2	5010R2
		(No PID – Product Item	
		Description)	
850	VICS	Purchase Order - Revision 5	5010R5
		VICS – (No Special Marking	
		instruction for overseas	
		shipment)	
856	X-12	Ship Notice/Manifest	5010
860	X-12	Purchase Order Change Request -	5010
		Buyer Initiated	
997	X-12	Functional Acknowledgement	5010

**(997)** Acknowledgment is required within 24 hours for any outbound file from the date of the transmitted document. Failure to send 997 Functional Acknowledgment will result in non-compliance charges.

The Exchange EDI sends the 997 within 24 hours of the inbound file received.

**(856)** Advance Ship Notice is received inbound ASN list data content of shipment of merchandise. Advanced Ship Notice data from the supplier must follow the EDI mapping requirements to be processed successfully.

Once the supplier is in production EDI with ASN, It is required to be sent electronically for every purchase order or merchandise will fail at warehouse/store.

ASN's failing in our EDI system from supplier error may result in non-compliance charges.



### **Testing**

- Review EDI guidelines and specifications found at: http://www.shopmyexchange.com/DoingBusiness/edigds/edi.htm
- After connection setup and mapping is completed by the supplier and Exchange, testing can commence for EDI documents with the EDI Rollout associate, their group email is EDIROLLOUTREQUEST@AAFES.COM
- Submit test data for evaluation on inbound (from trading supplier) transaction sets (i.e., 810, 856) using test purchase order (sent by Exchange).
- Submit shipping label (GS1-128) Bar Code Graphics for label certification to EDIROLLOUT@AAFES.COM

Depending on the supplier, testing can be a simple or complex process. If the supplier uses a third party provider already trading EDI documents with the Exchange, many of the documents do not require testing and go directly to production. Testing should be completed for the remaining documents within five days. For suppliers using their own EDI, testing should be completed within two weeks of their connection setup and maps ready to test. The supplier is expected to dedicate the time and effort to this process to ensure timely completion.

#### Note:

- 1. Supplier is responsible for checking their VAN mailbox daily.
- 2. Supplier is required to send Functional Acknowledgments within 24 hours of the transmission date.
- 3. Supplier is responsible for all VAN (Value Added Network) charges.
- Supplier is responsible for viewing message detailing error on all 824
   Application Advice sent as well as viewing the 997 Functional Acknowledgement.



## The Importance of the 856

Receiving the Advanced ship notice electronically allows us to process the receiving of the merchandise faster. Merchandise information is entered into our systems and set out on the floors in timely manner. When ASN is not received, merchandise can be delayed getting into our system and stores on time, etc.

ASN contains information about items being shipped, including purchase order number, ship date, Ship To and Final Destination Facility and supplier UPC number.

Receiving the 856 ASN electronically will result in:

- Correct merchandise being received.
- ASN can be reconciled with purchase orders and invoice.

## **EDI Requirements**

The Exchange requires the EDI to be tested and complete to production using these guidelines.

- When supplier uses an EDI Provider (Ex: 3rd party provider) the mandatory documents 850, 860, 810 and 824 are added straight to EDI production system, we allow five business days to complete the 856 (ASN) with the UCC128 label testing.
- When supplier does their own mapping and testing, the supplier is expected to be tested and moved to EDI production within 15 business days (three weeks)
- Supplier is expected to be fully committed and engaging during the testing of EDI documents.
- Suppliers will receive a 997 within 24 hours of the Exchange sending the EDI transmission to Supplier.
- We expect the return of the 997 within 24 hours of supplier receiving the document, by not complying with the 24 hour time frame, will result in non-compliance charges.
- Suppliers are required to maintain compatible electronic document version numbers in accordance with the Exchange current software.

All documents must be sent with the Exchange required fields as the minimum standard in order to be in compliance with our guidelines.



## **Required Fields**

The next section, the EDI 856 Technical Guidelines, provides the EDI standard and technical documentation for the universal standards. To simplify the process for you, below is a list of fields that the Exchange requires in the 856 transaction. You may want to refer to both this section and the next for complete technical guidelines, but this summary will allow you to focus on exactly what is needed for a successful 856.

- Suppliers must transmit a complete and correct Advance Ship Notice and Shipping Label. This ensures the merchandise is received in timely manner at the store or warehouse.
- Shipment Notice number is required and must not be duplicated more than one time for the same PO number within 18 months.
- Carrier Detail (Quantity and Weight) as well as (Routing) are required on every shipment.
- You must provide the Supplier Bill of Lading number or Carrier Reference number.
- Date of shipment is required on all Advance Ship Notice.
- You must provide the Ship To or Mark for facility, 7 digit Exchange facility number, 4-digit Alpha Numeric or 13 digit Global Location Number (GLN), facility number retrieved from the PO.
- You must provide the Exchange **10 digit Purchase Order number** which sets up all other processes for the handling and receipt of your merchandise.
- Date of the PO is also required.
- MAN (Marks and Numbers) are required for all ASN shipment; SSCC number is a GS1-128 Serial Shipping Container Code that is 20 digit in length, must start with 00 the 3rd to the 10th digits cannot all be zeroes.
- Number cannot be re-used within 6 month period.

- You must provide the **Products** we order as specified **by UPC** (Universal Product Code) or similar universal product identifiers like the European Article Number EAN or Global Trade Item Number GTIN. The UPC (Universal Product Code) must match the UPC number submitted on the Purchase Order. No substitute items are allowed on the Advance ship notice unless buying office has approved and adjusted the Exchange system to allow for the receipt of the item.
- Number of units shipped are required as well as the unit of measure (CA, EA, BX, CT or PL etc.)
- Case pack is required on shipments with unit of measure as (CA, BX, CT or PL) Case pack must be divisible by the number of units shipped.
- Total Line Items in HL must matched Line Items number in CTT01

## **EDI STANDARDS**

# All 856 fields below are required by the Exchange EDI Standards and used to calculate compliance.

Data Element	Business Definition	Maps to Technical Guideline	Example Data Elements	Hierarchic alLevel Within the Invoice
Transaction Set Header	Identifies type of document (810/Invoice)	ST	ST*856*0780~	Header
Shipment Information, Ship Notice Structure	Beginning Segment, includes Ship Notice number, Date, Time and ASN structure Code	BSN	BSN**23456*201610 20*1234*0001~	Heading
Shipment Level	Hierarchical Level -Shipment	HL-Shipment	HL*001*S	Heading
Carrier Detail (Quantity and weight)	Used to specify the transportation details relative to commodity, weight and quantity	TD1	TD1*CTN25*3****G *6.9*LB~	Heading
Carrier Detail (Routing & Transit time)	Used to specify the carrier and sequence of routing	TD5	TD5****M*FEDEXGR OUND~	Heading
REF Information (Bill of Lading Number or carrier Reference Number	Identifying information, includes the Bill of Lading number or Carrier's Reference number	REF	REF*CN*SPR0271234 5~REF*BM*1234539 36811941~	Heading
DTM Date/Tim Reference	To specify pertinent dates and times Ship date and Scheduled Delivery date	DTM	DTM*011*20150422 ~	Heading
FOB Transportation Instruction	Transportation instructions relating to the shipment.	FOB	FOB*CC~	
Party Identification (Ship From)	The facility number, address of the location where the product is being shipped (shipping point).	N1	N1*ST**92*1059902 ~N1*SF*VENDORNA ME*1*VENDORDUNS #~	Heading
HL Hierarchy Order Level	Order Level is used identify dependencies among and the content of relates group data	HL –OrderLevel	HL*2*1*O~	Heading

Army and Air Force Exchange Service

Army and Air Force Exch		Т		
Purchase Order Reference	Provides reference to a specific purchase order number	PRF	PRF*0071234567***20 050415~	Heading
N1 Party Identification	Segment identify a party by type of organization, name and code (Final location to ship merchandise)	N1	N1*Z7**92*1771001~	Heading
HL Hierarchy – Tare Level	Tare level is used to identify dependencies among and the content of the related groups of data	HL – Tare Level	HL*2*1*T~	Detail Level
MAN for Tare Level	Used with Tare level identifies the shipping containers	MAN – 20 digit GS1-128 Serial Shipping Container Code	MAN01*GM*12345678 912345678912~	Detail
HL Hierarchy – PACK Level	Description of levels of detail information,	HL – PACK level	HL*3*2*P~	Detail Level
MAN for PACK Level	Used with Tare level identifies the shipping containers	MAN – 20 digit GS1-128 Serial Shipping Container Code	MAN01*GM*12345678 912345678912~	Detail Level
HL Hierarchy Item Level	Identify dependencies among the content of the related groups of data segments.	HL – Item Level	HL*4*3*I~	Detail Level
LIN Item Identification	Specify basic item identification data	LIN	LIN**UP*03797710026 6~	Summary
SN1 – Item Detail Shipment	Specify line item detail relative to shipment	SN1 Item Detail Shipment Unit of measure EACHES, CASES ETC	SN1**18*EA	Summary
PO4 Item Physical Detail	Specify the physical qualities, packing, weights and dimensions to the item.	PO4 Item Detail If element SN103 = CA or BX or CT or PL, the PO401 element is required	PO4*12~	Summary
PID Product/Item Description	Describes a product on the shipment	PID	PID*F****PILLOW PRINTED MEMORY	Summary
CTT Transaction Totals	Total number of Lines on the order	СТТ	CTT*X	Summary
SE Transaction Trailer	Number of segments including ST to SE	SE	SE*X*X	Summary

## All 824 Application Advice fields below are required by the Exchange EDI Standards and used to calculate compliance

Data Element	Business Definition	Maps to Technical Guideline	Example Data Elements	Hierarchical Level Within the Invoice
Transaction Set Header	Identifies type of document (810/Invoice)	ST	ST*824*0001~	Header
Error Information, Reference, Date of the 824	Beginning Segment , includes Information Reference number, date of the 824	BGN	BGN*00*201509250 035354907 0012345638*201509 30*20150930~	Heading
N1 Party Identification (identify party to receive error message)	Supplier name and 9 or 13 digit DUNS number	N1 Code FR is used in 5010 version	N1*FR*HQ-Army/Air Force Exch svc*92*1018542~ or N1*TO*Test 824*1*123456789~	Heading
Original Transaction Identification	Identifies error transaction sets, ID, qualifier, Ref Identification, Control number and Control Identifier	ОТІ	OTI*IR*IV*00456789 *****20*200001*81 0~	Detail
TED Technical Error	Segment determines the error within the data, error code and free form text	TED	TED*010*TDS01 HAS OVERCHARGE AMT; \$41 FOR INV; 00456789~	Detail
NTE Note, specific instruction	Segment is only generated when description is more than 60 characters	NTE	NTE01*GEN*Descrip tion	Detail
RED Related Data	Segment is used to provide additional information of the 824	RED	RED01*Description* Code~	Detail
SE Transaction Trailer	Number of segments including ST to SE	SE	SE*number*number	Summary

#### **General Reference Materials**

#### **Contact Information**

If you have any questions or concerns regarding your EDI communication with the EXCHANGE, please contact us using the following contact information.

EDI Operations Team (Production) email address – EDIERRORSUPPORT@AAFES.COM

EDI Rollout Team (Testing) email address – EDIROLLOUTREQUEST@AAFES.COM

## **EDI Standards and ISA/GS Information**

Standards/Version: X12 005010

X12 Standards

Sub-element Sep: > (Hex 6E)

Element Sep: \* (Hex 5C) Segment Term: ~ (Hex 15)

#### **ISA Header Information**

PRODUCTION ID'S

Exchange Receiver Qualifier: 14

Exchange Receiver ID: 001695568GP

TESTING ID's

Exchange Receiver Qualifier: 14

Exchange Receiver ID: 001695568GT

NOTE: We acknowledge all transactions at Group Level within 24 hours of receipt. Please acknowledge any transactions you receive from us in the same manner.

## 856 Ship Notice/Manifest

## Functional Group ID= $\mathbf{SH}$

#### **Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. 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. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

#### **Notes:**

The following document identifies the AAFES Business Requirements for the Ship Notice/Manifest. This definition contains all data that AAFES will utilize in the processing of this document. All segments marked "RECOMMENDED", and elements marked with "R" are required by AAFES and should always be transmitted. All elements marked "M" are mandatory by the standards. All unmarked segments and elements may be transmitted as necessary in their respective segments.

For each level in the hierarchical structure, the following segments are expected by AAFES:

S - Shipment = TD1, TD5, REF, DTM, FOB, N1 O - Order = PRF, N1 (Ultimate Receiver)

T - T -

I - Item = LIN, SN1, PO4, TD5

#### **Heading:**

Page <u>No.</u>	Pos. No.	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and Comments
18	0100	ST	Transaction Set Header	M	1		
19	0200	BSN	Beginning Segment for Ship Notice	M	1		
Not Used	0400	DTM	Date/Time Reference	0	10		

#### **Detail:**

Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and Comments
		LOOP ID - HL			200000	
0100	HL	Hierarchical Level - SHIPMENT	M	1		
0200	LIN	Item Identification	O	1		
0300	SN1	Item Detail (Shipment)	O	1		
0400	SLN	Subline Item Detail	O	1000		
0500	PRF	Purchase Order Reference	O	1		
0600	PO4	Item Physical Details	O	1		
0700	PID	Product/Item Description	O	200		
	No. 0100 0200 0300 0400 0500 0600	No. ID  0100 HL  0200 LIN  0300 SN1  0400 SLN  0500 PRF  0600 PO4	No.         ID         Name LOOP ID - HL           0100         HL         Hierarchical Level - SHIPMENT           0200         LIN         Item Identification           0300         SN1         Item Detail (Shipment)           0400         SLN         Subline Item Detail           0500         PRF         Purchase Order Reference           0600         PO4         Item Physical Details	No.         ID         Name LOOP ID - HL         Des.           0100         HL         Hierarchical Level - SHIPMENT         M           0200         LIN         Item Identification         O           0300         SN1         Item Detail (Shipment)         O           0400         SLN         Subline Item Detail         O           0500         PRF         Purchase Order Reference         O           0600         PO4         Item Physical Details         O	No.         ID         Name         Des.         Max.Use           LOOP ID - HL           0100         HL         Hierarchical Level - SHIPMENT         M         1           0200         LIN         Item Identification         O         1           0300         SN1         Item Detail (Shipment)         O         1           0400         SLN         Subline Item Detail         O         1000           0500         PRF         Purchase Order Reference         O         1           0600         PO4         Item Physical Details         O         1	No.         ID         Name         Des.         Max.Use         Repeat           LOOP ID - HL         200000           0100 HL         Hierarchical Level - SHIPMENT         M         1           0200 LIN         Item Identification         O         1           0300 SN1         Item Detail (Shipment)         O         1           0400 SLN         Subline Item Detail         O         1000           0500 PRF         Purchase Order Reference         O         1           0600 PO4         Item Physical Details         O         1

			nge Service	_		
Not Used	0800	MEA	Measurements	0	40	
Not Used	0900	PWK	Paperwork	0	25	
Not Used	1000	PKG	Marking, Packaging, Loading	0	25	
21	1100	TD1	Carrier Details (Quantity and Weight)	0	20	
22	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	О	12	
			LOOP ID - TD3			12
24	1300	TD3	Carrier Details (Equipment)	О	1	
Not Used	1350	AT9	Trailer or Container Dimension and Weight	O	1	
Not Used	1400	TD4	Carrier Details (Special Handling, or Hazardous	0	5	
Not Used	1450	TSD	Materials, or Both) Trailer Shipment Details	0	1	
25	1500	REF	Reference Identification	0	>1	
Not Used	1510	PER	Administrative Communications Contact	0	3	
Trot Osca	1310	LIK	LOOP ID - LH1			100
Not Used	1520	LH1	Hazardous Identification Information	0	1	100
Not Used	1530	LH2	Hazardous Classification Information	0	4	
		LH3				
Not Used	1540		Hazardous Material Shipping Name	0	12	
Not Used	1550	LFH	Freeform Hazardous Material Information	0	20	
Not Used	1560	LEP	EPA Required Data	0	>1	
Not Used	1570	LH4	Canadian Dangerous Requirements	0	1	
Not Used	1580	LHT	Transborder Hazardous Requirements	О	3	
Not Used	1590	LHR	Hazardous Material Identifying Reference Numbers	О	10	
Not Used	1600	PER	Administrative Communications Contact	О	5	
Not Used	1610	LHE	Empty Equipment Hazardous Material Information	О	1	
			mormation			
			LOOP ID - CLD			200
Not Used	1700	CLD		0	1	200
Not Used Not Used	1700 1800	CLD REF	LOOP ID - CLD	0	1 200	200
			LOOP ID - CLD Load Detail			200
Not Used	1800	REF	LOOP ID - CLD  Load Detail  Reference Identification	O	200	200
Not Used Not Used	1800 1850	REF DTP	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period	O O	200	200
Not Used Not Used Not Used	1800 1850 1900	REF DTP MAN	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers	0 0	200	200
Not Used Not Used Not Used 26	1800 1850 1900 2000	REF DTP MAN DTM	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference	0 0 0	200	200
Not Used Not Used Not Used 26 27	1800 1850 1900 2000 2100	REF DTP MAN DTM FOB	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information	0 0 0 0	200 1 >1 10 1	200
Not Used Not Used Not Used 26 27	1800 1850 1900 2000 2100	REF DTP MAN DTM FOB	LOOP ID - CLD Load Detail Reference Identification Date or Time or Period Marks and Numbers Date/Time Reference F.O.B. Related Instructions	0 0 0 0	200 1 >1 10 1	
Not Used Not Used Not Used 26 27 Not Used	1800 1850 1900 2000 2100 2150	REF DTP MAN DTM FOB PAL	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - N1	0 0 0 0 0	200 1 >1 10 1	
Not Used Not Used 26 27 Not Used 28 29	1800 1850 1900 2000 2100 2150 2200 2300	REF DTP MAN DTM FOB PAL	LOOP ID - CLD Load Detail Reference Identification Date or Time or Period  Marks and Numbers Date/Time Reference F.O.B. Related Instructions Pallet Information  LOOP ID - N1 Name	0 0 0 0 0 0	200 1 >1 10 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used	1800 1850 1900 2000 2100 2150 2200 2300 2400	REF DTP MAN DTM FOB PAL N1 N2 N3	LOOP ID - CLD Load Detail Reference Identification Date or Time or Period  Marks and Numbers Date/Time Reference F.O.B. Related Instructions Pallet Information LOOP ID - N1 Name Additional Name Information Address Information	0 0 0 0 0 0	200 1 >1 10 1 1 1 2 2	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30	1800 1850 1900 2000 2100 2150 2200 2300 2400 2500	REF DTP MAN DTM FOB PAL N1 N2 N3 N4	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - N1  Name  Additional Name Information  Address Information  Geographic Location	0 0 0 0 0 0	200 1 >1 10 1 1 2 2 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31	1800 1850 1900 2000 2100 2150 2200 2300 2400 2500 2510	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - NI  Name  Additional Name Information  Address Information  Geographic Location  Hierarchical Level - ORDER	0 0 0 0 0 0	200 1 >1 10 1 1 2 2 2 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32	1800 1850 1900 2000 2100 2150 2200 2300 2400 2500 2510 2520	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - N1  Name  Additional Name Information  Address Information  Geographic Location  Hierarchical Level - ORDER  Purchase Order Reference	0 0 0 0 0 0	200 1 >1 10 1 1 2 2 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33	1800 1850 1900 2000 2100 2150 2200 2300 2400 2500 2510 2520 2530	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - NI  Name  Additional Name Information  Address Information  Geographic Location  Hierarchical Level - ORDER  Purchase Order Reference  Name	0 0 0 0 0 0 0 0	200 1 >1 10 1 1 2 2 1 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33	1800 1850 1900 2000 2100 2150 2200 2300 2400 2500 2510 2520 2530 2540	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1 N2	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - NI  Name  Additional Name Information  Address Information  Geographic Location  Hierarchical Level - ORDER  Purchase Order Reference  Name  Additional Name Information		200 1 >1 10 1 1 2 2 2 1 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33 34 35	1800 1850 1900 2000 2100 2150 2200 2300 2400 2500 2510 2520 2530 2540 2560	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1 N2 N4	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - N1  Name  Additional Name Information  Address Information  Geographic Location  Hierarchical Level - ORDER  Purchase Order Reference  Name  Additional Name Information  Geographic Location		200 1 >1 10 1 1 2 2 1 1 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33 34 35	1800 1850 1900 2000 2150 2150 2200 2300 2400 2500 2510 2520 2530 2540 2560 2570	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1 N2 N1	LOOP ID - CLD  Load Detail  Reference Identification Date or Time or Period  Marks and Numbers Date/Time Reference F.O.B. Related Instructions Pallet Information  LOOP ID - NI Name Additional Name Information Address Information Geographic Location Hierarchical Level - ORDER Purchase Order Reference Name Additional Name Information Geographic Location Hierarchical Level - TARE		200 1 >1 10 1 1 2 2 1 1 1 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33 34 35 36 37	1800 1850 1900 2000 2100 2150 2200 2300 2400 2510 2520 2530 2540 2560 2570 2580	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1 N2 N4 HL	LOOP ID - CLD Load Detail Reference Identification Date or Time or Period Marks and Numbers Date/Time Reference F.O.B. Related Instructions Pallet Information LOOP ID - NI Name Additional Name Information Address Information Geographic Location Hierarchical Level - ORDER Purchase Order Reference Name Additional Name Information Geographic Location Hierarchical Level - TARE Marks and Numbers		200 1 >1 10 1 1 2 2 1 1 1 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33 34 35 36 37	1800 1850 1900 2000 2100 2150 2200 2300 2400 2510 2520 2530 2540 2560 2570 2580 2590	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1 N2 N4 HL MAN HL	LOOP ID - CLD Load Detail Reference Identification Date or Time or Period  Marks and Numbers Date/Time Reference F.O.B. Related Instructions Pallet Information LOOP ID - N1 Name Additional Name Information Address Information Geographic Location Hierarchical Level - ORDER Purchase Order Reference Name Additional Name Information Geographic Location Hierarchical Level - TARE Marks and Numbers Hierarchical Level - PACK		200 1 >1 10 1 1 2 2 1 1 1 1 1 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33 34 35 36 37 38	1800 1850 1900 2000 2100 2150 2200 2300 2400 2510 2520 2530 2540 2560 2570 2580 2590 2592	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1 N2 N4 HL MAN HL MAN HL	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - N1  Name  Additional Name Information  Address Information  Geographic Location  Hierarchical Level - ORDER  Purchase Order Reference  Name  Additional Name Information  Geographic Location  Hierarchical Level - TARE  Marks and Numbers  Hierarchical Level - PACK  Item Identification		200 1 >1 10 1 1 2 2 1 1 1 1 1 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33 34 35 36 37 38 39 41	1800 1850 1900 2000 2100 2150 2200 2300 2400 2510 2520 2530 2540 2560 2570 2580 2590 2592 2593	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1 N2 N4 HL MAN HL LIN SN1	LOOP ID - CLD Load Detail Reference Identification Date or Time or Period  Marks and Numbers Date/Time Reference F.O.B. Related Instructions Pallet Information  LOOP ID - N1 Name Additional Name Information Address Information Geographic Location Hierarchical Level - ORDER Purchase Order Reference Name Additional Name Information Geographic Location Hierarchical Level - TARE Marks and Numbers Hierarchical Level - PACK Item Identification Item Detail		200 1 >1 10 1 1 2 2 1 1 1 1 1 1 1 1 1	
Not Used Not Used 26 27 Not Used 28 29 Not Used 30 31 32 33 34 35 36 37 38	1800 1850 1900 2000 2100 2150 2200 2300 2400 2510 2520 2530 2540 2560 2570 2580 2590 2592	REF DTP MAN DTM FOB PAL N1 N2 N3 N4 HL PRF N1 N2 N4 HL MAN HL MAN HL	LOOP ID - CLD  Load Detail  Reference Identification  Date or Time or Period  Marks and Numbers  Date/Time Reference  F.O.B. Related Instructions  Pallet Information  LOOP ID - N1  Name  Additional Name Information  Address Information  Geographic Location  Hierarchical Level - ORDER  Purchase Order Reference  Name  Additional Name Information  Geographic Location  Hierarchical Level - TARE  Marks and Numbers  Hierarchical Level - PACK  Item Identification		200 1 >1 10 1 1 2 2 1 1 1 1 1 1 1 1	

Army and	Air For 2598	ce Exchan	ge Service Item Identification	0	1	1
46	2599	SN1	Item Detail	0	1	
47	2600	PO4	Item Physical Details	0	1	
48	2600	PID	Product/Item Description	0	1	
49	2600	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1	
Not Used	2600	REF	Reference Identification	О	12	
Not Used	2700	PER	Administrative Communications Contact	O	3	
Not Used	2800	FOB	F.O.B. Related Instructions	O	1	
Not Used	2900	SDQ	Destination Quantity	О	50	
Not Used	3000	ETD	Excess Transportation Detail	O	1	
Not Used	3100	CUR	Currency	O	1	
			LOOP ID - SAC			>1
Not Used	3200	SAC	Service, Promotion, Allowance, or Charge Information	0	1	
Not Used	3250	CUR	Currency	O	1	
Not Used	3300	GF	Furnished Goods and Services	0	1	
Not Used	3350	YNQ	Yes/No Question	O	10	
			LOOP ID - LM			10
Not Used	3400	LM	Code Source Information	0	1	
Not Used	3500	LQ	Industry Code	M	100	
Not Used	3500	LQ	Industry Code LOOP ID - V1	М	100	>1
Not Used	3500 3600	LQ V1		M O	100	>1
			LOOP ID - V1			>1

### **Summary:**

Page	Pos.	Seg.		Req.		Loop	Notes and
No.	No.	<u>ID</u>	<u>Name</u>	Des.	Max.Use	Repeat	Comments
50	0100	CTT	Transaction Totals	O	1		n1
51	0200	CE	Transaction Cat Trailer	М	1		

#### **Transaction Set Notes**

Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Segment: ST Transaction Set Header

Position: 0100

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose:

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

Syntax Notes: Semantic Notes:

- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

**Comments:** 

**Notes:** *ST\*856\*0001~* 

			Dai	a Element Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		<u>A</u>	ttributes
M	ST01	143	Transaction	n Set Identifier Code	$\mathbf{M}$	1 ID 3/3
			Code unique	ely identifying a Transaction Set		
			856	Ship Notice/Manifest		
M	ST02	329		n Set Control Number	$\mathbf{M}$	1 AN 4/9
				control number that must be unique within the tra		on set
			functional g	roup assigned by the originator for a transaction	set	

Segment:  $\mathbf{BSN}$  Beginning Segment for Ship Notice

Position: 0200

Loop:

Level: Heading Usage: Mandatory

Max Use:

**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set

**Syntax Notes:** 1 If BSN07 is present, then BSN06 is required.

**Semantic Notes:** 1 BSN03 is the date the shipment transaction set is created.

**2** BSN04 is the time the shipment transaction set is created.

BSN06 is limited to shipment related codes.

**Comments:** 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Notes: BSN\*00\*02931092\*20080612\*1615\*0001~

	Ref.	Data		·			
	Des.	<b>Element</b>	<u>Name</u>		<u>A</u>	ttrib	outes
M	BSN01	353	Transaction Set P	-	M	1	ID 2/2
			Code identifying pr	urpose of transaction set			
			00	Original			
M	BSN02	396	Shipment Identifie		$\mathbf{M}$	_	AN 2/30
			A unique control no shipment	umber assigned by the original shipper t	o identify	a sp	ecific
			Ship Notice numbe	r.			
M	BSN03	373	Date		M	1	DT 8/8
			-	CCYYMMDD where CC represents the	first two	digit	s of
			the calendar year				
M	BSN04	337	Time		M	1	TM 4/8
				24-hour clock time as follows: HHMM, HMMSSDD, where H = hours (00-23), I			, or
				r seconds (00-59) and $DD = decimal seconds$			1
				sed as follows: $D = tenths (0-9)$ and $DD$			
			(00-99)				
R	BSN05	1005	Hierarchical Stru	cture Code	O	1	ID 4/4
				e hierarchical application structure of a t		n set	that
			_	ment to define the structure of the transa	ction set		
			0001	Shipment, Order, Packaging, Item			
				Pick and Pack Structure			
			0002	Shipment, Order, Item, Packaging			
				Standard Carton Pack Structure.			

Segment: HL Hierarchical Level - SHIPMENT

Position: 0100

**Loop:** HL Mandatory

Level: Detail
Usage: Mandatory

Max Use:

Purpose: To identify dependencies among and the content of hierarchically related groups of data

segments

Syntax Notes: Semantic Notes: Comments:

1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** 

At the "SHIPMENT" level the following segments are expected by AAFES:

TD1, TD5, REF, DTM, FOB, N1

HL\*1\*\*S~

	Ref.	Data	·			
	Des.	<b>Element</b>	<u>Name</u>	<u>A</u> 1	<u>ttrik</u>	<u>outes</u>
M	HL01	628	Hierarchical ID Number	M	1	AN 1/12
			A unique number assigned by the sender to identify a particu in a hierarchical structure	lar data	segi	ment
	HL02	734	Hierarchical Parent ID Number	O	1	AN 1/12
			Identification number of the next higher hierarchical data seg segment being described is subordinate to	ment th	at th	ne data
M	HL03	735	Hierarchical Level Code	M	1	ID 1/2
			Code defining the characteristic of a level in a hierarchical st	ructure		
			S Shipment			
	HL04	736	Hierarchical Child Code	0	1	ID 1/1
			Code indicating if there are hierarchical child data segments a level being described Refer to 004030 Data Element Dictionary for acceptable code			to the

 $Segment: \qquad TD1 \ \ Carrier \ Details \ (Quantity \ and \ Weight)$ 

**Position:** 1100

**Loop:** HL Mandatory

Level: Detail

Usage: Optional (Recommended)

Max Use: 20

**Purpose:** To specify the transportation details relative to commodity, weight, and quantity

Syntax Notes: 1 If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.

2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then TD107 is required.

If either TD107 or TD108 is present, then the other is required.
 If either TD109 or TD110 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** This segment is required by AAFES only if the Shipment hierarchical level is utilized.

TD1\*CTN25\*1\*\*\*\*G\*30\*LB~

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>A</u>	<u>ttributes</u>
R	TD101	103	Packaging Code	O	1 AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Fe	orm, Pa	rt 2:
			Packaging Material; if the Data Element is used, then Part 1	is alway	ys required
R	<b>TD102</b>	80	Lading Quantity	X	1 N0 1/7
			Number of units (pieces) of the lading commodity		
R	<b>TD106</b>	187	Weight Qualifier	O	1 ID 1/2
			Code defining the type of weight		
R	TD107	81	Weight	X	1 R 1/10
			Numeric value of weight		
R	TD108	355	Unit or Basis for Measurement Code	$\mathbf{X}$	1 ID 2/2
			Code specifying the units in which a value is being expresse which a measurement has been taken	d, or ma	anner in

R

Army and Air Force Exchange Service TD5 Carrier Details (Routing Sequence/Transit Time) **Segment: Position:** 1200 Loop: HLMandatory Level: Detail Usage: Optional (Recommended) Max Use: To specify the carrier and sequence of routing and provide transit time information **Purpose:** At least one of TD502 TD504 TD505 TD506 or TD512 is required. **Syntax Notes:** 2 If TD502 is present, then TD503 is required. 3 If TD507 is present, then TD508 is required. 4 If TD510 is present, then TD511 is required. 5 If TD513 is present, then TD512 is required. 6 If TD514 is present, then TD513 is required. 7 If TD515 is present, then TD512 is required. **Semantic Notes:** 1 TD515 is the country where the service is to be performed. **Comments:** 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502. Notes: If routing information is available, recommend the TD5 segment be sent. AAFES requires this segment if the Shipment Hierarchical Level is utilized, and may be utilized in the Item Hierarchical Level if the shipment differs from the order. Optional at Order level. TD5\*\*\*\*M\*CARRIER/ROUTING INFORMATION~ **Data Element Summary** Ref. Data Attributes Element Name Des. O **TD501** 133 **Routing Sequence Code** 1 ID 1/2 Code describing the relationship of a carrier to a specific shipment movement **TD502** 66 **Identification Code Qualifier** 1 ID 1/2 Code designating the system/method of code structure used for Identification Code (67) **TD503** 67 **Identification Code** X 1 AN 2/80 Code identifying a party or other code 91 **TD504** Transportation Method/Type Code 1 ID 1/2 Code specifying the method or type of transportation for the shipment Α AP Air (Package Carrier) D Parcel Post Η Customer Pickup Motor K Backhaul

U Private Parcel Service R **TD505 Routing** 387 X 1 AN 1/35

Rail

LT

M

MP

O

R

T

Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

Less Than Trailer Load (LTL)

Motor (Common Carrier)

Motor (Package Carrier)

Best Way (Shippers Option)

Containerized Ocean

		The carrier name i	s required for all shipments.					
TD506	368	Shipment/Order S	Shipment/Order Status Code					
		_	e status of an order or shipment or the the quantity ordered and the quantity	-		•		
TD510	732	Transit Time Dire	Transit Time Direction Qualifier					
		Code specifying th	e value of time used to measure the tr	ansit time				
		CD	Calendar Days (Includes weekends	and Holiday	/s)			
TD511	733	<b>Transit Time</b>		X	1	R 1/4		
		The numeric amou	nt of transit time					

#### Army and Air Force Exchange Service

 $Segment: \quad TD3 \ \ Carrier \ Details \ (Equipment)$ 

**Position:** 1300

Loop: TD3 Optional

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify transportation details relating to the equipment used by the carrier

Syntax Notes: 1 Only one of TD301 or TD310 may be present.

2 If TD302 is present, then TD303 is required.
3 If TD304 is present, then TD305 is required.

4 If either TD305 or TD306 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** This segment is optional at Shipment Level.

Ref. Des.	Data Element	Name	A	ttributes
TD301	40	Equipment Description Code	X	1 ID 2/2
		Code identifying type of equipment used for shipment		
		Refer to 004030 Data Element Dictionary for acceptable code	e values	S.
<b>TD303</b>	207	<b>Equipment Number</b>	X	1 AN 1/10
		Sequencing or serial part of an equipment unit's identifying n numeric form for equipment number is preferred)	umber	(pure

Segment: REF Reference Identification

Position: 1500

**Loop:** HL Mandatory

Level: Detail

Usage: Optional (Recommended)

Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments: 1 REF04 contains data relating to the value cited in REF02.

**Notes:** The RI

The REF\*BM and REF\*CN are both required.

Examples:

For Parcel Shipments:

REF\*BM = Tracking Number REF\*CN = Tracking Number

For TL/LTL Shipments:

REF\*BM = Bill of Lading Number REF\*CN = PRO Number (if exists)

*If PRO Number does not exist then REF\*CN = Bill of Lading* 

Number

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Element 128		ification Qualifier the Reference Identification	<u>А</u> 1		utes ID 2/3
			BM	Bill of Lading Number			
				This code is used for the Bill of Lading must be sent for all Warehouse/Store of	•	and	
				Use the Tracking Number with this quashipping via Small Parcel Service.	alifier wh	en	
			CN	Carrier's Reference Number (PRO/Inv	oice)		
D	DEEO	127	Defenence Ident	ifi aa 4i aa	v	1	A NT 1/5

R REF02 127 Reference Identification

X 1 AN 1/50

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

This element must be only "A-Z", "a-z", "0-9" and "-".

\_\_\_\_\_

When REF01 = BM, REF02 = Bill of Lading Number When REF01 = CN, REF02 = Carrier's Reference Number Segment: DTM Date/Time Reference

Position: 2000

**Loop:** HL Mandatory

Level: Detail

Usage: Optional (Recommended)

Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:** 

**Comments:** 

**Notes:** This segment is required by AAFES if the Shipment Hierarchical level is utilized.

DTM\*011\*20080612~

**Data Element Summary** 

Ref. Data Des. **Element** Name Attributes Date/Time Qualifier M **DTM01** 1 ID 3/3 374 Code specifying type of date or time, or both date and time 011 Shipped 036 Expiration Date coverage expires 067 Current Schedule Delivery R DTM02 373 1 DT 8/8 **Date** X

Date expressed as CCYYMMDD where CC represents the first two digits of

the calendar year

Segment: FOB F.O.B. Related Instructions

Position: 2100

**Loop:** HL Mandatory

Level: Detail

Usage: Optional (Recommended)

Max Use: 1

**Purpose:** To specify transportation instructions relating to shipment

**Syntax Notes:** 1 If FOB03 is present, then FOB02 is required.

2 If FOB04 is present, then FOB05 is required.
3 If FOB07 is present, then FOB06 is required.

4 If FOB08 is present, then FOB09 is required.

**Semantic Notes:** 1 FOB01 indicates which party will pay the carrier.

2 FOB02 is the code specifying transportation responsibility location.

3 FOB06 is the code specifying the title passage location.

**4** FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

**Comments:** 

M

**Notes:** This segment is required by AAFES only at the Shipment Level.

FOB\*PP~

**Data Element Summary** 

Ref. DataDes.ElementNameAttributesFOB01146Shipment Method of PaymentM1 ID 2/2

Code identifying payment terms for transportation charges

Refer to 004030 Data Element Dictionary for acceptable code values.

Segment: Name

Position: 2200

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

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

**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

**Comments:** 

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

**Notes:** 

This segment is only utilized in the Shipment and Order Hierarchical Levels.

N1\*ST\*DAN DANIEL DIST CTR\*92\*1059902~ N1\*SF\*ABC COMPANY\*1\*123456789~

	Ref.	Data		·			
	Des.	<b>Element</b>	<u>Name</u>		<u>A</u> :	ttrib	outes
M	N101	98	<b>Entity Identifier C</b>	ode	$\mathbf{M}$	1	ID 2/3
				organizational entity, a physical location,	proper	ty o	r an
			individual				
			BY	Buying Party (Purchaser)			
			CS	Consolidator			
			SF	Ship From			
			ST	Ship To			
	N102	93	Name		X	1	AN 1/60
			Free-form name				
R	N103	66	<b>Identification Code</b>	e Qualifier	X	1	ID 1/2
			Code designating th	e system/method of code structure used for	or Ident	ifica	ition
			Code (67)				
			1	D-U-N-S Number, Dun & Bradstreet			
			9	D-U-N-S+4, D-U-N-S Number with Fou	ır Char	acte	r
				Suffix			
			92	Assigned by Buyer or Buyer's Agent			
				This qualifier is used to identify the AAF number.	ES fac	ility	
R	N104	67	<b>Identification Code</b>	e	X	1	AN 2/80
			Code identifying a p	party or other code			
			Element may contai facility number.	n either the duns number, duns with suffix	, or AA	FES	3

#### Army and Air Force Exchange Service

Segment: N2 Additional Name Information

Position: 2300

Loop: N1 Optional (Recommended)
Level: Detail

Level: Detail
Usage: Optional
Max Use: 2

**Purpose:** To specify additional names

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>		<u>Attributes</u>
M	N201	93	Name Free-form name	M	1 AN 1/60
	N202	93	Name	0	1 AN 1/60
			Free-form name		

Segment: N4 Geographic Location

Position: 2500

**Loop:** N1 Optional (Recommended)

Level: Detail
Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 Only one of N402 or N407 may be present.
2 If N406 is present, then N405 is required.

3 If N407 is present, then N404 is required.

**Semantic Notes:** 

**Comments:** 

1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

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

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	<u>A</u>	<u>ttributes</u>
N401	19	City Name	O	1 AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	X	1 ID 2/2
		Code (Standard State/Province) as defined by appropriate go	vernme	ent agency
N403	116	Postal Code	0	1 ID 3/15
		Code defining international postal zone code excluding punc (zip code for United States)	ctuation	and blanks
N404	26	Country Code	$\mathbf{X}$	1 ID 2/3
		Code identifying the country		

Segment: HL Hierarchical Level - ORDER

Position: 2510

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

Purpose: To identify dependencies among and the content of hierarchically related groups of data

segments

Syntax Notes: Semantic Notes: Comments:

1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** *HL*\*2\*1\**O*~

	Ref.	Data		•		43
	Des.	<u>Element</u>	<u>Name</u>		<u>A</u>	<u>ttributes</u>
$\mathbf{M}$	HL01	628	Hierarchica	al ID Number	$\mathbf{M}$	1 AN 1/12
				umber assigned by the sender to identify a partinical structure	cular data	segment
	HL02	734	Hierarchica	al Parent ID Number	O	1 AN 1/12
M	HL03	735	segment bei	on number of the next higher hierarchical data sing described is subordinate to al Level Code ng the characteristic of a level in a hierarchical	M	1 ID 1/2
			O	Order		
	HL04	736	Hierarchic	al Child Code	O	1 ID 1/1
			level being	ating if there are hierarchical child data segmen described 4030 Data Element Dictionary for acceptable c		

Army and Air Force Exchange Service

Segment: PRF Purchase Order Reference

**Position:** 2520

**Loop:** N1 Optional (Recommended)

Level: Detail

**Usage:** Optional (Recommended)

Max Use:

Purpose: To provide reference to a specific purchase order

Syntax Notes:

**Semantic Notes:** 1 PRF04 is the date assigned by the purchaser to purchase order.

**Comments:** 

**Notes:** This segment is required by AAFES only in the Order Hierarchical Level.

PRF\*0004567890\*\*\*20080612~

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<u>A</u>	ttrib	<u>outes</u>
$\mathbf{M}$	PRF01	324	Purchase Order Number	M	1	AN 1/22
			Identifying number for Purchase Order assigned by the order	er/purcl	haseı	r
R	PRF04	373	Date	$\mathbf{o}$	1	<b>DT 8/8</b>
			Date expressed as CCYYMMDD where CC represents the fit the calendar year	st two	digit	es of
			Date of the purchase order.			

Segment: Name

Position: 2530

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

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

**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

Comments: 1 This segment, used alone, provides the most efficient method of providing

organizational identification. To obtain this efficiency the "ID Code" (N104) must

provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

**Notes:** This segment is only utilized in the Shipment and Order Hierarchical Levels.

N1\*BY\*\*92\*1059902~ (same as ship-to in shipment level)

*N1\*Z7\*\*92\*1363160~* (mark for information)

	Ref.	Data	2 WW 21VIII			
	Des.	<b>Element</b>	<u>Name</u>		A	<u>ttributes</u>
M	N101	98	<b>Entity Identifier C</b>	ode	M	1 ID 2/3
				organizational entity, a physical location	, prope	erty or an
			individual			
			BY	Buying Party (Purchaser)		
			MA	Party for whom Item is Ultimately Inten	ded	
			<b>Z</b> 7	Mark-for Party		
				The party for whom the needed material	is inte	ended
	N102	93	Name		$\mathbf{X}$	1 AN 1/60
			Free-form name			
R	N103	66	<b>Identification Cod</b> Code designating the Code (67)	e Qualifier e system/method of code structure used for	X or Iden	1 ID 1/2 atification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with For Suffix	ur Cha	racter
			92	Assigned by Buyer or Buyer's Agent		
				This qualifier is used to identify the AAI number.	FES fac	cility
R	N104	67	<b>Identification Cod</b> Code identifying a	_	X	1 AN 2/80
			Element may contai facility number.	n either the duns number, duns with suffix	c, or A	AFES

#### Army and Air Force Exchange Service

N2 Additional Name Information **Segment:** 

**Position:** 2540

Loop: Level: Optional (Recommended) N1

Detail

Optional (Recommended) Usage:

Max Use:

**Purpose:** To specify additional names

Syntax Notes: Semantic Notes: **Comments:** 

	Ref. <u>Des.</u>	Data Element	Name		Attributes
M	N201	93	Name Free-form name	M	1 AN 1/60
	N202	93	Name	0	1 AN 1/60
			Free-form name		

Segment: N4 Geographic Location

Position: 2560

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 Only one of N402 or N407 may be present.
2 If N406 is present, then N405 is required.

3 If N407 is present, then N404 is required.

**Semantic Notes:** 

**Comments:** 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

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

Ref.	Data						
Des.	<b>Element</b>	<u>Name</u> <u>Attribut</u>					
N401	19	City Name	O	1 AN 2/30			
		Free-form text for city name					
N402	156	State or Province Code	X	1 ID 2/2			
		Code (Standard State/Province) as defined by appropriate government agency					
N403	116	Postal Code	0	1 ID 3/15			
		Code defining international postal zone code excluding punc (zip code for United States)	ctuation	and blanks			
N404	26	Country Code	X	1 ID 2/3			
		Code identifying the country					

Segment: **HL** Hierarchical Level - TARE

Position: 2570

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

Purpose: To identify dependencies among and the content of hierarchically related groups of data

segments

Syntax Notes: Semantic Notes: Comments:

1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** 

Will accept either Tare or Pack Hierarchical Level or both.

HL\*3\*2\*T~

	Ref.	Data		·				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attributes</u>			
M	HL01	628	Hierarchio	cal ID Number	$\mathbf{M}$	1 AN 1/12		
			A unique number assigned by the sender to identify a particular data segment					
				hical structure				
	HL02	734	Hierarchio	eal Parent ID Number	O	1 AN 1/12		
				on number of the next higher hierarchical data seg- sing described is subordinate to	gment th	nat the data		
M	HL03	735	Hierarchio	cal Level Code	$\mathbf{M}$	1 ID 1/2		
			Code defining the characteristic of a level in a hierarchical structure					
			T	Shipping Tare				
	HL04	736	Hierarchio	cal Child Code	O	1 ID 1/1		
			Code indicating if there are hierarchical child data segments subordinate to the level being described					
			4030 Data Element Dictionary for acceptable cod	le value	S.			

Segment: MAN Marks and Numbers

Position: 2580

**Loop:** N1 Optional (Recommended)

Level: Detail

**Usage:** Optional (Recommended)

Max Use:

Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes: 1 If either MAN04 or MAN05 is present, then the other is required.

2 If MAN06 is present, then MAN05 is required.

**Semantic Notes:** 

- MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
- 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
- **3** When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

**Comments:** 

- 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
- 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Notes:

This segment is utilized in the Tare and Pack Hierarchical Levels. May be used in either Tare, Pack or both levels.

MAN\*GM\*00001234567891234567~

	Ref.	Data					
	Des.	<b>Element</b>	<u>Name</u>		<u> </u>	Attrib	<u>utes</u>
M	MAN01	88	Marks and N	Numbers Qualifier	$\mathbf{M}$	1	ID 1/2
			Code specify	ing the application or source of Marks and Nu	mbers (8	37)	
			GM	SSCC-18 and Application Identifier			
				Required by AAFES.			
				This is a twenty-character UCC/EAN-	128 Seri	ial	
				Shipping Container Code (SSCC-18) i			
				two digit application identifier. The	symboloz	ду сос	de
			UC	and the modulo 103 check character.			
			UC	U.P.C. Shipping Container Code			
M	MAN02	87	Marks and N Marks and nu	Numbers used to identify a shipment or parts of a	<b>M</b> a shipme		AN 1/48
	MAN03	87	Marks and N	Numbers	O	1	AN 1/48
			Marks and nu	imbers used to identify a shipment or parts of	of a shipment		
	MAN04	88	Marks and N	Numbers Qualifier	$\mathbf{X}$	1	ID 1/2
			Code specify	ing the application or source of Marks and Nu	mbers (8	37)	
			GM	SSCC-18 and Application Identifier			
			UC	U.P.C. Shipping Container Code			
	MAN05	87	Marks and N	Numbers	$\mathbf{X}$	1	AN 1/48
			Marks and nu	imbers used to identify a shipment or parts of	a shipme	nt	
	MAN06	87	Marks and N	Numbers	O	1	AN 1/48
			Marks and nu	umbers used to identify a shipment or parts of	a shipme	nt	

Segment: **HL** Hierarchical Level - PACK

Position: 2590

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

Purpose: To identify dependencies among and the content of hierarchically related groups of data

segments

Syntax Notes: Semantic Notes: Comments:

1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** 

Will accept either Tare or Pack Hierarchical Level or both.

HL\*4\*3\*P~

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>A</u>	<u>ttributes</u>
M	HL01	628	Hierarchical ID Number	M	1 AN 1/12
			A unique number assigned by the sender to identify a par	ticular data	ı segment
	*** **	=0.4	in a hierarchical structure		4 137446
	HL02	734	Hierarchical Parent ID Number	О	1 AN 1/12
			Identification number of the next higher hierarchical data segment being described is subordinate to	segment th	hat the data
$\mathbf{M}$	HL03	735	Hierarchical Level Code	M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical	ıl structure	
			P Pack		
	HL04	736	Hierarchical Child Code	O	1 ID 1/1
			Code indicating if there are hierarchical child data segme level being described	nts subordi	inate to the
			Refer to 004030 Data Element Dictionary for acceptable	code value	S.

M

LIN03

LIN04

234

235

AIIII	y and Air Force Excha				
	Segment:	LIN	Item Identification	l	
	Position:	2592			
	Loop:	N1	Optional (Recomm	nended)	
	Level:	Detail	optional (Recomm	ienaca)	
	Usage:		(Recommended)		
	Max Use:	1	(Recommended)		
	Purpose:	_	fy basic item identific	eation data	
	Syntax Notes:			is present, then the other is required.	
	53 22402 2 (00050			is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
				is present, then the other is required.	
	Semantic Notes:		01 is the line item ide		
	Comments:			or a complete list of IDs.	
				ovide for fifteen different product/service I	Ds for each item.
			•	r, Drawing No., U.P.C. No., ISBN No., Mo	
	Notes:			e Pack Hierarchical Level.	<b>3011(31, 31 2112)</b>
		LIN**EN LIN**UI	P*123456789012~ V*1234567890123~ K*12345678901234~ A*012345678901~		
			Data Elem	ent Summary	
	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>		<u>Attributes</u>
	LIN01	350	<b>Assigned Identifica</b>	ation	O 1 AN 1/20
			Alphanumeric chara	acters assigned for differentiation within a	transaction set
M	LIN02	235	Product/Service II	_	M 1 ID 2/2
	221,02			e type/source of the descriptive number use	
			Product/Service ID		
			EN	EAN/UCC - 13	
				Data structure for the 13 digit EAN.UCC	(EAN
				International. Uniform Code Council) Glo	•
				Identification Number (GTIN)	our rrude
			UA	U.P.C./EAN Case Code (2-5-5)	
			UK	EAN/UCC - 14	
			UK		(TANK
				Data structure for the 14 digit EAN.UCC	
				International. Uniform Code Council) Glo	odal Irade
			LID	Identification Number (GTIN)	
			UP	UCC - 12	(T.1.)
				Data structure for the 12 digit EAN.UCC	
				International. Uniform Code Council) Glo	
				Identification Number (GTIN). Also kn	own as the
М	I INO3	234	Product/Service II	Universal Product Code (U.P.C.)	M 1 AN 1/48

Code identifying the type/source of the descriptive number used in

Identifying number for a product or service

M

 $\mathbf{X}$ 

1 AN 1/48

1 ID 2/2

Product/Service ID

**Product/Service ID Qualifier** 

Product/Service ID (234)

LT Lot Number UP UCC - 12

Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the

Universal Product Code (U.P.C.)

VA Vendor's Style Number

VC Vendor's (Seller's) Catalog Number

LIN05 234 Product/Service ID

X 1 AN 1/48

Identifying number for a product or service

Segment: SN1 Item Detail

**Position:** 2593

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

**Purpose:** To specify line-item detail relative to shipment

Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.

**Semantic Notes:** 1 SN101 is the ship notice line-item identification.

**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.

**Notes:** This segment is optional at Pack Hierarchical Level.

SN1\*\*6\*EA~ (eaches) SN1\*\*6\*CA~ (cases)

	Ref.	Data	,		
	Des.	<b>Element</b>	<u>Name</u>	<u>At</u>	<u>tributes</u>
M	SN102	382	Number of Units Shipped	$\mathbf{M}$	1 R 1/10
			Numeric value of units shipped in manufacturer's shipping un or transaction set	its for a	line item
M	SN103	355	Unit or Basis for Measurement Code	$\mathbf{M}$	1 ID 2/2
			Code specifying the units in which a value is being expressed which a measurement has been taken	, or man	nner in
	SN105	330	Quantity Ordered	$\mathbf{X}$	1 R 1/15
			Quantity ordered		
	SN106	355	Unit or Basis for Measurement Code	X	1 ID 2/2
			Code specifying the units in which a value is being expressed which a measurement has been taken Refer to 004030 Data Element Dictionary for acceptable code		

Segment:	MAN	Marks and Numbers
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**Position:** 2595

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes: 1 If either MAN04 or MAN05 is present, then the other is required.

2 If MAN06 is present, then MAN05 is required.

## **Semantic Notes:**

- MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
- 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
- **3** When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

#### **Comments:**

- 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
- 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Notes:

This segment is utilized in the Tare and Pack Hierarchical Levels. May be used in either Tare, Pack or both levels.

MAN\*GM\*00001234567891234567~

	Ref.	Data					
	Des.	<b>Element</b>	<u>Name</u>		<u>A</u>	\ttril	<u>outes</u>
$\mathbf{M}$	MAN01	88	Marks and N	umbers Qualifier	M	1	ID 1/2
			Code specifyii	ng the application or source of Marks and Nu	mbers (8	37)	
			GM	SSCC-18 and Application Identifier			
				Required by AAFES.			
				This is a twenty-character UCC/EAN-	128 Seri	ial	
				Shipping Container Code (SSCC-18)	that incli	udes	the
				two digit application identifier. The	symbolog	gy co	de
				and the modulo 103 check character.			
			UC	U.P.C. Shipping Container Code			
M	MAN02	87	Marks and N		$\mathbf{M}$		AN 1/48
			Marks and nur	mbers used to identify a shipment or parts of	a shipme	ent	
	MAN03	87	Marks and N	umbers	O	1	AN 1/48
			Marks and nur	mbers used to identify a shipment or parts of	a shipme	ent	
	MAN04	88	Marks and N	umbers Qualifier	$\mathbf{X}$	1	ID 1/2
			Code specifyii	ng the application or source of Marks and Nu	mbers (8	37)	
			GM	SSCC-18 and Application Identifier			
			UC	U.P.C. Shipping Container Code			
	MAN05	87	Marks and N	umbers	$\mathbf{X}$	1	AN 1/48
			Marks and nur	mbers used to identify a shipment or parts of	a shipme	ent	
	MAN06	87	Marks and N	umbers	O	1	AN 1/48
			Marks and nur	mbers used to identify a shipment or parts of	a shipme	ent	

Segment: **HL** Hierarchical Level - ITEM

Position: 2597

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use:

Purpose: To identify dependencies among and the content of hierarchically related groups of data

segments

Syntax Notes: Semantic Notes: Comments:

1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** *HL*\*5\*4\**I*~

•

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	A	<u>ttributes</u>
M	HL01	628	Hierarchical ID Number	$\mathbf{M}$	1 AN 1/12
			A unique number assigned by the sender to identify a participant in a hierarchical structure	cular data	a segment
	HL02	734	Hierarchical Parent ID Number	O	1 AN 1/12
			Identification number of the next higher hierarchical data sessegment being described is subordinate to	egment t	hat the data
M	HL03	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical	M structure	1 ID 1/2
			I Item		
	HL04	736	Hierarchical Child Code	O	1 ID 1/1
			Code indicating if there are hierarchical child data segment level being described Refer to 004030 Data Element Dictionary for acceptable co		

LIN Item Identification **Segment: Position:** Loop: N1 Optional (Recommended) Level: Detail Usage: Optional (Recommended) Max Use: **Purpose:** To specify basic item identification data **Syntax Notes:** If either LIN04 or LIN05 is present, then the other is required. If either LIN06 or LIN07 is present, then the other is required. If either LIN08 or LIN09 is present, then the other is required. 3 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. If either LIN22 or LIN23 is present, then the other is required. 10 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required. **Semantic Notes:** LIN01 is the line item identification **Comments:** See the Data Dictionary for a complete list of IDs. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU. Required by AAFES at the Item Hierarchical Level. **Notes:** LIN\*\*UP\*123456789012~ LIN\*\*EN\*1234567890123~ LIN\*\*UK\*12345678901234~ LIN\*\*UA\*012345678901~ **Data Element Summary** Ref. Data **Element** Des. Name **Attributes Assigned Identification** 0 LIN01 350 AN 1/20 Alphanumeric characters assigned for differentiation within a transaction set M LIN02 235 Product/Service ID Qualifier 1 ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) EN EAN/UCC - 13 Data structure for the 13 digit EAN.UCC (EAN International. Uniform Code Council) Global Trade Identification Number (GTIN) UA U.P.C./EAN Case Code (2-5-5) UK EAN/UCC - 14 Data structure for the 14 digit EAN.UCC (EAN International. Uniform Code Council) Global Trade Identification Number (GTIN) UCC - 12 UP Data structure for the 12 digit EAN.UCC (EAN International. Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the

Identifying number for a product or service

Product/Service ID

**Product/Service ID Qualifier** 

M

LIN03

LIN04

234

235

Universal Product Code (U.P.C.)

M

X

1 AN 1/48

1 ID 2/2

Required by AAFES.

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

LT Lot Number UP UCC - 12

Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the

Universal Product Code (U.P.C.)

VA Vendor's Style Number

VC Vendor's (Seller's) Catalog Number

LIN05 234 Product/Service ID

X 1 AN 1/48

Identifying number for a product or service

Segment: SN1 Item Detail

Position: 2599

**Loop:** N1 Optional (Recommended)

Level: Detail

Usage: Optional (Recommended)

Max Use: 1

**Notes:** 

**Purpose:** To specify line-item detail relative to shipment

**Syntax Notes:** 1 If either SN105 or SN106 is present, then the other is required.

**Semantic Notes:** 1 SN101 is the ship notice line-item identification.

**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.

Required by AAFES at Item Hierarchical Level. The unit of measure must match the

unit of measure transmitted on the purchase order.

SNI\*\*6\*EA~ (eaches) SNI\*\*6\*CA~ (cases)

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<u>A</u>	ttril	<u>outes</u>
$\mathbf{M}$	SN102	382	Number of Units Shipped	M	1	R 1/10
			Numeric value of units shipped in manufacturer's shippin or transaction set	ng units for	a lin	e item
M	SN103	355	Unit or Basis for Measurement Code	M	1	ID 2/2
			Code specifying the units in which a value is being exprewhich a measurement has been taken	essed, or ma	annei	in
	SN105	330	Quantity Ordered	X	1	R 1/15
			Quantity ordered			
	SN106	355	Unit or Basis for Measurement Code	X	1	ID 2/2
			Code specifying the units in which a value is being exprewhich a measurement has been taken	essed, or ma	annei	in

Segment: PO4 Item Physical Details

Position: 2600

**Loop:** N1 Optional (Recommended)

Level: Detail
Usage: Optional

Max Use: 1

Purpose: Syntax Notes: To specify the physical qualities, packaging, weights, and dimensions relating to the item

- 1 If either PO402 or PO403 is present, then the other is required.
  - 2 If PO405 is present, then PO406 is required.
- 3 If either PO406 or PO407 is present, then the other is required.
- 4 If either PO408 or PO409 is present, then the other is required.
- 5 If PO410 is present, then PO413 is required.
- 6 If PO411 is present, then PO413 is required.
- 7 If PO412 is present, then PO413 is required.
- **8** If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
- **9** If PO417 is present, then PO416 is required.
- 10 If PO418 is present, then PO404 is required.

#### **Semantic Notes:**

- PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3 PO417 is the ending package identifier in a range of identifiers.
- 4 PO418 is the number of packages in this layer.

### **Comments:**

- PO403 The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2 PO413 defines the unit of measure for PO410, PO411, and PO412.

#### Notes:

This segment is required at the item level when SN103 = CA, BX, CT or PL.

PO4\*24

			Data Element Summary			
	Ref.	Data				
	Des.	<u>Element</u>	Name	<u> </u>	<u> ttrib</u>	<u>utes</u>
R	PO401	356	Pack	O	1	N0 1/6
			The number of inner containers, or number of eaches if there	are no	inne	r
			containers, per outer container			
			When $SN103 = CA$ , $BX$ , $CT$ or $PL$ , this element is required.			
	PO402	357	Size	X	1	R 1/8
			Size of supplier units in pack			
	PO403	355	Unit or Basis for Measurement Code	X	1	ID 2/2
			Code specifying the units in which a value is being expressed which a measurement has been taken	l, or m	anner	in
	PO408	385	Gross Volume per Pack	X	1	R 1/9
			Numeric value of gross volume per pack			
	PO409	355	Unit or Basis for Measurement Code	X	1	ID 2/2
			Code specifying the units in which a value is being expressed which a measurement has been taken  CF  Cubic Feet	, or m	anner	in

**Product/Item Description Segment:** 

**Position:** 2600

> Loop: N1 Optional (Recommended)

Level: Detail Usage: Optional 1

Max Use:

**Purpose:** To describe a product or process in coded or free-form format

If PID04 is present, then PID03 is required. **Syntax Notes:** 

- At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:** 1 Use PID03 to indicate the organization that publishes the code list being referred to.

- 2 PID04 should be used for industry-specific product description codes.
- PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- PID09 is used to identify the language being used in PID05.

**Comments:** If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.

- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- PID07 specifies the individual code list of the agency specified in PID03.

Optional at Item level. **Notes:** 

PID\*F\*\*\*\*GENERAL PURPOSE~

# **Data Element Summary**

M	Ref. <u>Des.</u> PID01	Data <u>Element</u> 349	Name Item Description Code indicating	on Type the format of a description	<u>А</u> М	ttributes 1 ID 1/1
			F	Free-form		
	PID05	352	Description		X	1 AN 1/80

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

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 2600

**Loop:** N1 Optional (Recommended)

Level: Detail

**Usage:** Optional (Recommended)

Max Use:

**Purpose:** To specify the carrier and sequence of routing and provide transit time information

Syntax Notes: 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.

2 If TD502 is present, then TD503 is required.

- 3 If TD507 is present, then TD508 is required.
- 4 If TD510 is present, then TD511 is required.
- 5 If TD513 is present, then TD512 is required.
- 6 If TD514 is present, then TD513 is required.
- 7 If TD515 is present, then TD512 is required.

Semantic Notes: Comments:

Ref.

Data

1 TD515 is the country where the service is to be performed.

When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual

routing sequence, specified by the party identified in TD502.

**Notes:** *If routing information is available, recommend the TD5 segment be sent.* 

AAFES requires this segment if the Shipment Hierarchical Level is utilized, and may be utilized in the Item Hierarchical Level if the shipment differs from the order. Optional at Order level.

TD5\*\*\*\*M\*CARRIER/ROUTING INFORMATION~

	IXCI.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<u>A</u>	ttrib	<u>utes</u>
	<b>TD501</b>	133	Routing Sequence Code	0	1	ID 1/2
			Code describing the relationship of a carrier to a specific ship	ment r	nove	ment
	<b>TD502</b>	66	Identification Code Qualifier	X	1	ID 1/2
			Code designating the system/method of code structure used f Code (67)	or Iden	tifica	tion
	<b>TD503</b>	67	<b>Identification Code</b>	$\mathbf{X}$	1	AN 2/80
			Code identifying a party or other code			
R	TD504	91	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the	<b>X</b> shipme		ID 1/2
R	TD505	387	<b>Routing</b> Free-form description of the routing or requested routing for originating carrier's identity	<b>X</b> shipme		AN 1/35 the
	TD506	368	Shipment/Order Status Code	X	1	ID 2/2
			Code indicating the status of an order or shipment or the disp difference between the quantity ordered and the quantity ship or transaction			•
	<b>TD510</b>	732	Transit Time Direction Qualifier	0	1	ID 2/2
			Code specifying the value of time used to measure the transit	time		
			CD Calendar Days (Includes weekends and	Holida	ıys)	
	TD511	733	Transit Time	X	1	R 1/4
			The numeric amount of transit time			

Segment: CTT Transaction Totals

**Position:** 0100

Loop:

Level: Summary Usage: Optional

Max Use:

Purpose: To transmit a hash total for a specific element in the transaction set
 Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.

**Semantic Notes:** 

**Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness

and correctness.

Notes: CTT\*10~

**Data Element Summary** 

 Ref.
 Data

 Des.
 Element
 Name
 Attributes

 M
 CTT01
 354
 Number of Line Items
 M
 1 N0 1/6

 Number of line items (CTT01) is the total number of HL segments.

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SE Transaction Set Trailer **Segment:** 

0200 **Position:** 

Loop: Level: Summary Usage: Mandatory

Max Use:

To indicate the end of the transaction set and provide the count of the transmitted **Purpose:** 

segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:** 

**Semantic Notes:** 

**Comments:** SE is the last segment of each transaction set.

SE\*32\*0001~ **Notes:** 

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<u>At</u>	<u>trib</u>	utes
M	SE01	96	Number of Included Segments	M	1	N0 1/10
			Total number of segments included in a transaction set include segments	ing ST a	and	SE
M	SE02	329	Transaction Set Control Number	M	1	AN 4/9
			Identifying control number that must be unique within the transfunctional group assigned by the originator for a transaction set.		ı set	