

# 856

## Advanced Ship Notice

### Structure:

This implementation guide provides you with the information you need to map The Sports Authority's (TSA) 856 Advanced Ship Notice. The format for this guide is based on ANSI X12 and VICS standards. We have added TSA-specific information as well.

For your convenience, we have included on each page a set of columns indicating VICS standards for the segments and elements. These columns are set off by a box and are for informational use only. Please use the **TSA Requirements** columns to determine the proper format for each segment and element.

A glossary of terms is located on Page 2. Segment requirements are located on Pages 3 and 4. Requirements for each element within a segment are located on the remaining pages in the order the segments appear on Pages 3 and 4. If conditional or optional segments are used, you must adhere to the element mapping associated with that segment. Conversely, if an element is required in a conditional segment, it is only required if you are using that segment.

### Communication Information:

Please email TSA's EDI department at [TSAEDI@thesportsauthority.com](mailto:TSAEDI@thesportsauthority.com) with your contact information and documents you want to test and TSA will schedule your transaction testing. TSA's communication information is as follows:

	<b>Production</b>	<b>Test</b>
<b>ISA Qualifier</b>	<b>08</b>	<b>12</b>
<b>ISA ID</b>	<b>6147970000</b>	<b>3032005050T</b>

Functional Acknowledgments (997) will be transmitted to you for all 856s, using the same communication ID information. Your compliance with this document is mandatory; any deviations may result in reimbursement charges as outlined in the Vendor Relationship Guide.

Please ensure that you have read and understand all the standards outlined in the Vendor Relationship Guide, which can be found at [www.sportsauthority.com](http://www.sportsauthority.com). Click the "About Us" tab and select "Logistics Information".

All mapping specifications can be found by going to the following link:  
[www.sportsauthority.com](http://www.sportsauthority.com). Each Implementation Guide will be displayed, you can download or print any or all documents.

This document contains a total of 20 pages.

# 856

## Advanced Ship Notice

---

### Definitions:

**Req** – Segment/Element Usage – Indicates whether a segment or element must be used.

#### VICS Standards

**M** – Mandatory – must be used

**O** – Optional – may be used

**C** – Conditional – may be used only if other elements are used within the segment

#### TSA Requirements

**Required** – must be used

**Optional** – may be used

**Conditional** – must be used if pertinent data exists. (Example: If no items on an 810 are backordered, then IT3 is not required. If items on a different 810 are backordered, then IT3 is required.)

**Type** – classification of data elements

**ID** – Identifier – Contains a unique value from a predefined list from the standards.

**AN** – A sequence of any printable characters left justified.

**DT** – Date expressed CCYYMMDD where CC = Century, YY = Year, MM = Month and DD = Date.  
(Example: 19990815 = August 15, 1999)

**TM** – Time expressed HHMM where HH = Hour and MM = Minute using a 24-hour clock.  
(Example: 1345 = 1:45 p.m.)

**Nn** – Numeric data with an implied decimal point which is not transmitted where N indicates that it is numeric and n indicates the number of decimal positions to the right of the implied decimal point.

(Examples: N = N0 which indicates a whole number only. Value = 100.00, Data Stream = 100

N2 indicates a number with 2 digits to the right of the decimal point. Value = 999.99, Data Stream = 99999)

**R** – Numeric data with an explicit decimal point which is transmitted. (Example: Value = 100.00, Data Stream = 100.00)

**Min/Max** – The length of an element expressed as the minimum and maximum number of bytes.

(Example: 9/9 indicates that the data in the element must be 9 bytes long. 1/8 indicates that the data in the element can be any length up to 8 bytes, but not over 8 bytes.)

# 856 Ship Notice/Manifest

**Heading:**

Pos	Id	Segment Name	VICS Standards (Informational Only)			TSA
			Req	Max Use	Repeat	Req
010	ST	Transaction Set Header	M	1		Required
020	BSN	Beginning Segment for Ship Notice	M	1		Required

**Detail:**

Pos	Id	Segment Name	Req	Max Use	Repeat	Req
<b>LOOP ID – HL (Shipment Level)</b>					<u>200000</u>	
010	HL	Hierarchical Level	M	1		Required
110	TD1	Carrier Details (Quantity and Weight)	O	20		Required
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Required
150	REF	Reference Identification (Appointment Number)	O	>1		Conditional
150	REF	Reference Identification (Bill of Lading/Pro Number)	O	>1		Conditional
040	DTM	Date/Time Reference (Expected Delivery/Ship Date)	O	10		Required
<b>LOOP ID - N1 (Ship To)</b>					<u>200</u>	
220	N1	Name	O	1		Required
<b>LOOP ID – HL (Order Level)</b>					<u>200000</u>	
010	HL	Hierarchical Level	M	1		Required
050	PRF	Purchase Order Reference	O	1		Required
110	TD1	Carrier Details (Quantity and Weight)	O	20		Required
<b>LOOP ID - N1 (Mark For-STMF Only)</b>					<u>200</u>	
220	N1	Name	O	1		Required

# 856

## Ship Notice/Manifest

### Detail cont.:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>VICS Standards</u> <u>(Informational Only)</u>			<u>TSA</u>
			<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Requirement</u>
<b>LOOP ID – HL (Pack Level)</b>					<u>200000</u>	<u>Req</u>
100	HL	Hierarchical Level	M	1		<b>Required</b>
110	MAN	Marks and Numbers	O	>1		<b>Required</b>
<b>LOOP ID – HL (Item Level)</b>					<u>200000</u>	<u>Req</u>
010	HL	Hierarchical Level	M	1		<b>Required</b>
020	LIN	Item Identification	O	1		<b>Required</b>
030	SN1	Item Detail (Shipment)	O	1		<b>Required</b>

### Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Req</u>
010	CTT	Transaction Totals	O	1		<b>Required</b>
020	SE	Transaction Set Trailer	M	1		<b>Required</b>

### Notes:

1. Segment Terminator: X'15' (EBCDIC) X'0A' (ASCII)
2. Element Separator: X'5C' (EBCDIC) X'2A' (ASCII)

### Comments:

- The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

# ISA Interchange Control Header

To start and identify an interchange of zero or more functional groups and interchange-related control segments

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards (Informational Only)</u>			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
ISA01	I01	Authorization Information Qualifier <u>Code Description</u> 00 No Authorization Information Present	M	ID	2/2	2/2	Required
ISA02	I02	Authorization Information	M	AN	10/10	10/10	Required
ISA03	I03	Security Information Qualifier <u>Code Description</u> 00 No Security Information Present	M	ID	2/2	2/2	Required
ISA04	I04	Security Information	M	AN	10/10	10/10	Required
ISA05	I05	Interchange ID Qualifier- <i>Vendor's qualifier</i> All valid X12 codes may be used.	M	ID	2/2	2/2	Required
ISA06	I06	Interchange Sender ID- <i>Vendor's ID</i>	M	AN	15/15	15/15	Required
ISA07	I05	Interchange ID Qualifier- <i>TSA's qualifier</i> All valid X12 codes may be used.	M	ID	2/2	2/2	Required
ISA08	I07	Interchange Receiver ID- <i>TSA's ID</i>	M	AN	15/15	15/15	Required
ISA09	I08	Interchange Date YYMMDD	M	DT	6/6	6/6	Required
ISA10	I09	Interchange Time HHMM	M	TM	4/4	4/4	Required
ISA11	I10	Interchange Control Standards Identifier <u>Code Description</u> U U.S. EDI Community of ASC X12, TDCC and UCS	M	ID	1/1	1/1	Required
ISA12	I11	Interchange Control Version Number <u>Code Description</u> 00401 Version 4, Release 1	M	ID	5/5	5/5	Required
ISA13	I12	Interchange Control Number	M	N0	9/9	9/9	Required
ISA14	I13	Acknowledgment Requested <u>Code Description</u> 0 No Acknowledgment Requested	M	ID	1/1	1/1	Required
ISA15	I14	Usage Indicator <u>Code Description</u> P Production T Test	M	ID	1/1	1/1	Required
ISA16	I15	Component Element Separator	M		1/1	1/1	Required

# GS Functional Group Header

To indicate the beginning of a functional group and to provide control information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards (Informational Only)</u>			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
GS01	479	Functional Identifier Code <u>Code Description</u> SH Ship Notice	M	ID	2/2	2/2	Required
GS02	142	Application Sender's Code-Vendor	M	AN	2/15	2/15	Required
GS03	124	Application Receiver's Code-TSA	M	AN	2/15	2/15	Required
GS04	373	Date CCYYMMDD	M	DT	8/8	8/8	Required
GS05	337	Time HHMM	M	TM	4/8	4/4	Required
GS06	28	Group Control Number	M	N0	1/9	1/9	Required
GS07	455	Responsible Agency Code <u>Code Description</u> X Accredited Standards Committee X12	M	ID	1/2	1/2	Required
GS08	480	Version / Release / Industry Identifier Code <u>Code Description</u> 004010 4010VICS	M	AN	1/12	1/12	Required

## Semantics:

- GS04 is the group date.
- GS05 is the group time.
- The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

## Comments:

- A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

# ST Transaction Set Header

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

**Example:** ST\*856\*12345

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
ST01	143	Transaction Set Identifier Code <u>Code NAME</u> 856 Ship Notice/Manifest	M	ID	3/3	3/3	Required
ST02	329	Transaction Set Control Number <i>Identifying control number that must be unique within the transaction set functional group assigned by the originator of a transaction set. Must equal the value in SE02</i>	M	AN	4/9	4/9	Required

## Semantics:

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 856 selects the ASN Transaction Set).

# BSN Beginning Segment for Ship Notice

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

**Example:** BSN\*00\*6789123\*20000115\*1500

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
BSN01	353	Transaction Set Purpose Code <u>Code NAME</u> 00 Original	M	ID	2/2	2/2	Required
BSN02	396	Shipment Identification <i>(Vendor)shipper-assigned unique, sequential control number identifying the shipment</i>	M	AN	2/30	1/15	Required
BSN03	373	Date CCYYMMDD	M	DT	8/8	8/8	Required
BSN04	337	Time HHMM	M	TM	4/8	4/4	Required

## Semantics:

- BSN02 is the unique ASN number (that the vendor assigns to the shipment) and must be numeric only.

2. BSN03 is the date the shipment transaction set is created.
3. BSN04 is the time the shipment transaction set is created.



# HL Hierarchical Level (Shipment Level)

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

**Example:** HL\*1\*\*S

## Element Summary:

Ref	Id	Element Name	VICS Standards (Informational Only)			TSA Requirements	
			Req	Type	Min/Max	Min/Max	Req
HL01	628	Hierarchical ID Number	M	N	1/12	1/12	Required
HL03	735	Hierarchical Level Code	M	ID	1/2	1/2	Required
		<u>Code NAME</u>					
		S Shipment					

## Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to packaging data, and packaging data to shipment data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique number for each occurrence of the HL segment in the transaction set. HL01 is used to indicate the number of occurrences of the HL segment in the transaction set. Therefore, 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 set.
4. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of a 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 (S), order (O), pack (P) or item (I) information.

# TD1 Carrier Details (Quantity and Weight)

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

**Example:** TD1\*\*3\*\*\*\*G\*45

## Element Summary:

Ref	Id	Element Name	VICS Standards (Informational Only)			TSA Requirements	
			Req	Type	Min/Max	Min/Max	Req
TD102	80	Lading Quantity <i>Total number of cartons in the shipment. Will equal the number of Pack levels in the transaction set.</i>	C	N0	1/7	1/7	Required
TD106	187	Weight Qualifier <u>Code NAME</u> G Gross Weight	O	ID	1/2	1/1	Required
TD107	81	Weight <i>Total weight of shipment rounded to whole pounds.</i>	C	R	1/10	1/5	Required

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

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

- Example:** 1. TD5\*\*2\*RPSI\*U\*Roadway Packaging Systems (Small Parcel Carrier)  
2. TD5\*\*2\*CFWY\*M\*Consolidated Freightways (Motor Carrier - TL/LTL)

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
TD502	66	Identification Code Qualifier <u>Code NAME</u> 2 Standard Carrier Alpha Code (SCAC)	C	ID	1/2	1/2	Required
TD503	67	Identification Code-Carrier SCAC code	C	AN	2/80	4/4	Required
TD504	91	Transportation Method/Type Code <u>Code NAME</u> M Motor Carrier - Truckload (TL), Less than Truckload (LTL) U Small Parcel Carrier (RPS, UPS, etc.)	C	ID	1/2	1/2	Required
TD505		Routing	C	AN	1/35	1/35	Optional

## REF Reference Identification

To specify identifying information, shipping and carrier identifying numbers.

**Example:** REF\*AO\*987321—Use this number and identifier for all freight collect shipments.

REF\*BM\*00228680000186306  
REF\*CN\*024789510004837

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
REF01	128	Reference Identification Qualifier <u>Code NAME</u> AO Appointment Number (TSA's appt number) <i>Meridian IQ number / Load Number</i> BM Bill of Lading CN Carrier's Reference Number (PRO/Invoice)	M	ID	2/3	2/2	Required
REF02	127	Reference Identification TSA Appointment Number, PRO or Bill of Lading Number	C	AN	1/30	1/15	Required

**Comments:**

1. It is TSA's expectation that for all freight collect shipments the TSA appointment number must be used.
2. Please refer to TSA's Vendor Relationship Guide to determine when and with whom you are required to coordinate your shipments.

## DTM Date/Time Reference

To specify pertinent dates and times

**Example:** DTM\*011\*20041201

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	3/3	Required
		<u>Code NAME</u>					
		11 Shipped					
		67 Current Scheduled Delivery					
DTM02	373	Date CCYYMMDD	C	DT	8/8	8/8	Required

## N1 Ship To Name

To identify the location to which the order is being shipped. **Specifically a TSA distribution center or store.**

**Example:** N1\*ST\*\*92\*941

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
N101	98	Entity Identifier Code	M	ID	2/3	2/3	Required
		<u>Code NAME</u>					
		ST Ship To					
N102	93	Name	C	AN	1/60	1/60	Required
N103	66	Identification Code Qualifier	C	ID	1/2	2/2	Required
		<u>Code NAME</u>					
		92 Assigned by Buyer or Buyer's Agent					
N104	67	Identification Code 1 to 5 digit store number or DC to which merchandise is	C	AN	2/80	1/5	Required



<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
PRF01	324	Purchase Order Number (Release PO number if a release PO exists)	M	AN	1/22	1/9	Required

1. This purchase order number must be either the original purchase order number or a release number provided in the EDI PO. If you are shipping a release order split from a bulk PO this number **MUST** be the release PO number (sourced from BEG04 element in the 850 document).
2. The number **MUST** be numeric and be a valid TSA assigned purchase order number. If this number is not valid or incorrect then it will be considered a violation of TSA's vendor compliance guidelines and be subject to penalties or chargebacks as defined in the Vendor Relationship Guide, online at [www.thesportsauthority.com](http://www.thesportsauthority.com).

# TD1 Carrier Details (Quantity and Weight)

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

**Example:** TD1\*\*3\*\*\*\*G\*45

## Element Summary:

Ref	Id	Element Name	VICS Standards (Informational Only)			TSA Requirements	
			Req	Type	Min/Max	Min/Max	Req
TD102	80	<b>Lading Quantity</b> <i>Total number of cartons in this order level. Will equal the number of Pack levels within this order level.</i>	C	N0	1/7	1/7	Required
TD106	187	<b>Weight Qualifier</b> <u>Code NAME</u> G Gross Weight	O	ID	1/2	1/2	Required
TD107	81	<b>Weight</b> <i>Total weight of cartons in order level rounded to whole pounds.</i>	C	R	1/10	1/10	Required

**Note:**

There may be multiple order levels per ASN; each TD102 total will be inclusive of only its cartons.

# N1 Mark For Name

To identify the location to which the order is ultimately intended.

**Example:** N1\*BY\*\*92\*135

## Element Summary:

Ref	Id	Element Name	VICS Standards (Informational Only)			TSA Requirements	
			Req	Type	Min/Max	Min/Max	Req
N101	98	<b>Entity Identifier Code</b> <u>Code NAME</u> BY Buying Party (Purchaser)	M	ID	2/3	2/3	Required
N102	93	<b>Name</b>	C	AN	1/60	1/60	Required
N103	66	<b>Identification Code Qualifier</b> <u>Code NAME</u> 92 Assigned by Buyer or Buyer's Agent	C	ID	1/2	2/2	Required
N104	67	<b>Identification Code</b> <i>1 to 5 digit store number to which merchandise is ultimately intended, the final destination.</i>	C	AN	2/80	5/5	Required

**Note:**

1. You will only use this N1 segment if you are shipping “prepack” product as part of the ship to mark for process. Indicator is on the PO 850; you would have received the SDQ segment.

# HL Hierarchical Level (Pack Level)

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

**Example:** HL\*4\*\*P

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
HL01	628	Hierarchical ID Number	M	N	1/12	1/12	Required
HL03	735	Hierarchical Level Code	M	ID	1/2	1/1	Required
		<u>Code NAME</u>					
		P Pack					

## 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.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique number for each occurrence of the HL segment in the transaction set. HL01 is used to indicate the number of occurrences of the HL segment in the transaction set. Therefore, 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 set
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 (S), order (O), pack (P) or item-level (I) information.

## Notes:

1. The Pack Level is mandatory.
2. For each pack level you must send an item level.

# MAN Marks and Numbers

To indicate identifying marks and numbers for shipping containers

**Example:** MAN\*GM\*00001234567890987658\*\*CP\*01234567890123456789

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	1/2	Required
		<u>Code NAME</u>					



<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
		GM SSCC-18 and Application Identifier					
		CP Carrier-Assigned Package ID Number					
MAN02	87	<b>Marks and Numbers</b> Carton Identification Number (SSCC-18)	M	AN	1/48	1/48	Required
MAN03	87	<b>Marks and Numbers</b> Carton Identification Number (Carrier-Assigned)	M	AN	1/48	1/48	Required

**Notes:**

1. The carrier-assigned carton IDs usually refer to small parcel carriers because they normally do not have PRO or BOL numbers
2. The SSCC-18 is required for every carton in a shipment and each assignment must be unique. SSCC-18s CANNOT repeat.

# HL Hierarchical Level (Item Level)

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

**Example:** HL\*5\*4\*1

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
HL01	628	<b>Hierarchical ID Number</b>	M	N	1/12	1/12	Required
HL03	735	<b>Hierarchical Level Code</b> <u>Code NAME</u> I Item	M	ID	1/2	1/1	Required

**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.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique number for each occurrence of the HL segment in the transaction set. HL01 is used to indicate the number of occurrences of the HL segment in the transaction set. Therefore, 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 set.
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 (S), order (O), pack (P) or item-level (I) information.

# LIN Item Identification

To specify basic item identification data

**Example:** LIN\*1\*CB\*12345678\*UK\*00012345678905

## Element Summary:

Ref	Id	Element Name	VICS Standards (Informational Only)			TSA Requirements	
			Req	Type	Min/Max	Min/Max	Req
LIN02	235	Product/Service ID Qualifier <u>Code NAME</u> <b>CB</b> Buyer's Catalog number	M	ID	2/2	2/2	Required
LIN03	234	Product/Service ID TSA SKU	M	AN	1/48	1/9	Required
LIN04	235	Product/Service ID <u>Code NAME</u> <b>UK</b> Includes 12 digit UPC, 13 digit EAN, and 14 digit GTIN	M	ID	2/2	2/2	Required
LIN05	234	Product/Service ID <b>14 digit structure</b>	M	AN	1/48	1/14	Required

**Note:**

When sending an ASN for a musical size run (MSR) PO the LIN03 and 04 are taken from the SLN segment in the PO850.

# SN1 Item Detail

Describes number of units shipped within the pack.

**Example:** SN1\*\*24\*EA

## Element Summary:

Ref	Id	Element Name	VICS Standards (Informational Only)			TSA Requirements	
			Req	Type	Min/Max	Min/Max	Req
SN102	382	Number of Units Shipped	M	R	1/10	1/10	Required
SN103	355	Unit or Basis for Measurement Code <u>Code NAME</u> EA Each	M	ID	2/2	2/2	Required

## CTT Transaction Totals

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

**Example:** CTT\*6

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
CTT01	354	Number of Line Items	M	N0	1/6	1/6	Required

### Semantics:

- CTT01 is the total number of HL loops in the ASN.

## SE Transaction Set Trailer

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

**Example:** SE\*27\*12345

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
SE01	96	Number of Included Segments	M	N0	1/10	1/10	Required
SE02	329	Transaction Set Control Number <i>Identifying control number that must be unique within the transaction set functional group assigned by the originator of a transaction set. Must equal the value in SE02.</i>	M	AN	4/9	4/9	Required

### Comments:

- SE is the last segment of each transaction set.

## GE Functional Group Trailer

To indicate the end of a functional group and to provide control information

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	1/6	Required
GE02	28	Group Control Number	M	N0	1/9	1/9	Required

### Semantics:

- The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

### Comments:

- The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

## IEA Interchange Control Trailer

To define the end of an interchange of zero or more functional groups and interchange-related control segments

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>VICS Standards</u> (Informational Only)			<u>TSA Requirements</u>	
			<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Min/Max</u>	<u>Req</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	1/5	Required
IEA02	I12	Interchange Control Number	M	N0	9/9	9/9	Required

**Example of a Sports Authority Advanced Ship Notice**

1 ST\*856\*0020  
2 BSN\*00\*000000095\*20050506\*1020  
3 HL\*1\*\*S  
4 TD1\*\*67\*\*\*\*G\*604\*LB  
5 TD5\*\*2\*ODFL\*M\*OLD DOMINION  
6 REF\*BM\*010908  
7 DTM\*067\*20050511  
8 DTM\*011\*20050506  
9 N1\*ST\*SPORTS AUTHORITY #841\*92\*841  
10 HL\*2\*\*O  
11 PRF\*292553  
12 TD1\*CTN25\*67\*\*\*\*G\*552\*LB  
13 N1\*BY\*SPORTS AUTHORITY #841\*92\*841  
14 HL\*3\*\*P  
15 MAN\*GM\*00000721330000041182  
16 HL\*4\*\*I  
17 LIN\*\*CB\*002177999\*UK\*00072133002008  
18 SN1\*\*12\*EA  
19 HL\*5\*\*P  
20 MAN\*GM\*00000721330000041199  
21 HL\*6\*\*I  
22 LIN\*\*CB\*002177999\*UK\*00072133002008  
23 SN1\*\*12\*EA  
24 HL\*7\*\*P  
25 MAN\*GM\*00000721330000041205  
26 HL\*8\*\*I  
27 LIN\*\*CB\*002177999\*UK\*00072133002008  
28 SN1\*\*12\*EA  
29 HL\*9\*\*P  
30 MAN\*GM\*00000721330000041212  
.....  
  
339 HL\*133\*\*P  
340 MAN\*GM\*00000721330000041830  
341 HL\*134\*\*I  
342 LIN\*\*CB\*015143923\*UK\*00072133001001  
343 SN1\*\*24\*EA  
344 HL\*135\*\*P  
345 MAN\*GM\*00000721330000041847  
346 HL\*136\*\*I  
347 LIN\*\*CB\*015143923\*UK\*00072133001001  
348 SN1\*\*24\*EA  
349 CTT\*136  
350 SE\*350\*0020

**Example of a Sports Authority Advanced Ship Notice for Prepack PO (STMF/SDQ)**

1 ST\*856\*0020  
 2 BSN\*00\*000000095\*20050506\*1020  
 3 HL\*1\*\*S  
 4 TD1\*\*67\*\*\*\*G\*604\*LB  
 5 TD5\*\*2\*ODFL\*M\*OLD DOMINION  
 6 REF\*BM\*010908  
 7 DTM\*067\*20050511  
 8 DTM\*011\*20050506  
 9 N1\*ST\*SPORTS AUTHORITY\*92\*841 ← Ship to location  
 10 HL\*2\*\*O  
 11 PRF\*292559  
 12 TD1\*CTN25\*67\*\*\*\*G\*552\*LB  
 13 N1\*BY\*SPORTS AUTHORITY\*92\*637 ← Mark for, final destination location  
 14 HL\*3\*\*P  
 15 MAN\*GM\*00000721330000041182  
 16 HL\*4\*\*I  
 17 LIN\*\*CB\*002177999\*UK\*00072133002008  
 18 SN1\*\*12\*EA  
 19 HL\*5\*\*P  
 20 MAN\*GM\*00000721330000041199  
 21 HL\*6\*\*I  
 22 LIN\*\*CB\*002177999\*UK\*00072133002008  
 23 SN1\*\*12\*EA  
 24 HL\*7\*\*P  
 25 MAN\*GM\*00000721330000041205  
 26 HL\*8\*\*I  
 27 LIN\*\*CB\*002177999\*UK\*00072133002008  
 28 SN1\*\*12\*EA  
 29 HL\*9\*\*P  
 30 MAN\*GM\*00000721330000041212  
 .....  
  
 339 HL\*133\*\*P  
 340 MAN\*GM\*00000721330000041830  
 341 HL\*134\*\*I  
 342 LIN\*\*CB\*015143923\*UK\*00072133001001  
 343 SN1\*\*24\*EA  
 344 HL\*135\*\*P  
 345 MAN\*GM\*00000721330000041847  
 346 HL\*136\*\*I  
 347 LIN\*\*CB\*015143923\*UK\*00072133001001  
 348 SN1\*\*24\*EA  
 349 CTT\*136  
 350 SE\*350\*0020

**Example of a Sports Authority Advanced Ship Notice for Musical Run (PO)**

1 ST\*856\*1  
 2 BSN\*00\*0511040001161791\*20051104\*1617\*0001  
 3 HL\*1\*\*S  
 4 TD1\*CTN25\*48\*\*\*\*G\*2231\*LB  
 5 TD5\*\*2\*ODFL\*M  
 6 REF\*BM\*06604180004857854  
 7 DTM\*011\*20051104  
 8 N1\*SF\*vendor name\*1\*191594118  
 9 N1\*ST\*\*92\*820  
 10 HL\*2\*00001\*O  
 11 PRF\*229308  
 12 TD1\*CTN25\*48  
 13 REF\*DP\*912  
 14 N1\*BY\*\*92\*820  
 15 HL\*3\*00002\*P  
 16 MAN\*GM\*00006604180500935070      <----- Packed in accordance with musical size run specified in PO  
 17 HL\*4\*00003\*I  
 18 LIN\*\*UK\*826512151401\*CB\*016499524  
 19 SN1\*\*1\*EA  
 20 HL\*5\*00003\*I  
 21 LIN\*\*UK\*826512151418\*CB\*016499537  
 22 SN1\*\*2\*EA  
 23 HL\*6\*00003\*I  
 24 LIN\*\*UK\*826512151425\*CB\*016499540  
 25 SN1\*\*3\*EA  
 26 HL\*7\*00003\*I  
 27 LIN\*\*UK\*826512151432\*CB\*016499553  
 28 SN1\*\*3\*EA  
 29 HL\*8\*00003\*I  
 30 LIN\*\*UK\*826512151449\*CB\*016499430  
 31 SN1\*\*3\*EA  
 32 HL\*9\*00003\*I  
 33 LIN\*\*UK\*826512151456\*CB\*016499443  
 34 SN1\*\*3\*EA  
 35 HL\*10\*00003\*I  
 36 LIN\*\*UK\*826512151463\*CB\*016499456  
 37 SN1\*\*2\*EA  
 38 HL\*11\*00003\*I  
 39 LIN\*\*UK\*826512151470\*CB\*016499469  
 40 SN1\*\*1\*EA  
 41 HL\*12\*00002\*P  
 42 MAN\*GM\*00006604180500935087  
 .....  
 1262 SN1\*\*1\*EA  
 1263 CTT\*434  
 1264 SE\*1264\*1