ASN

856

HDMA Electronic Data Interchange (EDI) Guidelines for the 856 Advance Ship Notice to Support Implementation of DSCSA

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Healthcare Distribution
Management Association

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HDMA Electronic Data Interchange (EDI) Guidelines for the 856 Advance Ship Notice to Support Implementation of DSCSA*

July 2014

*DSCSA refers to the Drug Supply Chain and Security Act of 2013 (Title II of the Drug Quality and Security Act). HDMA has issued these guidelines based on interpretation of compliance requirements for DCSCA as of July 2014, and may issue revised guidelines following the US Food and Drug Administration's regulatory guidance expected in November 2014.

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HDMA Electronic Data Interchange (EDI) Guidelines for the 856 Advance Ship Notice to Support Implementation of DSCSA

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INTRODUCTION

This implementation guideline for the 856 Ship Notice/Manifest electronic data interchange (EDI) transaction set — commonly referred to as the Advance Ship Notice or ASN — was developed by the Healthcare Distribution Management Association (HDMA). HDMA members provide business and technology expertise to develop voluntary healthcare industry implementation guidelines for use of EDI and other technology standards. HDMA member distributors and manufacturers advised on this guideline.

This version is intended to support compliance with the Drug Supply Chain Security Act (DSCSA) of 2013 [Title II of the Drug Quality and Security Act (Public Law 113-54)]. It provides a streamlined format for the exchange of Transaction Information (TI), Transaction History (TH) and a possible Transaction Statement (TS). The content and other requirements for the transaction statement will not be known until additional FDA guidance is released, which is expected in November 2014.

Previously published HDMA implementation guidelines for the 856 Ship Notice/Manifest provided manufacturers with a systematic way to advise their distributor with advance information on shipments to better plan and automate the receipt of goods process.

This publication outlines the voluntary industry conventions and implementation guidelines for the ASC X12 approved 856 "Advance Ship Notice" (ASN) EDI standard used by manufacturers, repackagers, distributors, exclusive distributors and any other parties to send required information to their trading partners to document the movement of prescription drugs through the healthcare supply chain. This ASN can facilitate downstream product and shipping data collection, which may then be used to create a possible Transaction Statement upon which trading partners agree.

Defined Scope of Use
Please note these guidelines are based on evolving requirements and, as such, may change as the Food and Drug Administration (FDA) issues guidance and regulation implementing the DSCSA. It is the responsibility of the users of the ASN to ensure the information contained in the ASN message is accurate and complete based on current regulatory and business requirements. This ASN is a framework message and allows trading partners the flexibility to determine which specific codes, identifiers, content, etc. are most appropriate for their business needs.

Changes made to the guideline to facilitate DSCSA compliance include:

Shipment Level:

- Four N1 loops are required: 1. Ship To; 2. Buyer; 3. Ship From; and, 4.Seller, to distinguish logistical movement from ownership transfer.

- In each N1 loop, N3 and N4 are included in the guideline, because it is mandatory to indicate the address of buyer and seller for DSCSA compliance.

- One YNQ segment is used to communicate the Transaction Statement.
    - Use of this shipment level YNQ will show YNQ02 = 'Y', YNQ08 ='99' and YNQ09 = 'TS'
    - The YNQ segment has been updated to include the following text in YNQ05:
      Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G).

- A second YNQ segment may be used for downstream transactions to indicate that a direct purchase statement or the receipt of a direct purchase statement applies to a product at item level:
    - Use of this shipment level YNQ will show YNQ02 = 'Y', YNQ08 ='99' and YNQ09 = 'DPS'
    - These indicators and a shipment level YNQ05 containing "*As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer*" is effectively a flag to look for an item level YNQ.

Item Level:

- An N1 loop, including N3 and N4, is added for Transaction History required information, such as Original Manufacturer or Exclusive Distributor.

- A YNQ segment was added:
    - For items where product was purchased directly:
      YNQ02 = 'Y', YNQ08 = '99' and YNQ09 = 'DIR'
    - For transactions that require an indication that a direct purchase statement has been received:
      YNQ02 = 'Y', YNQ08 = '99' and YNQ09 = 'RDPS'

The list below represents HDMA's interpretation of the EDI segments that correlate with the information required for trading partners to pass Transaction Information (TI), Transaction History (TH) and the Transaction Statement (TS) under the Drug Supply Chain Security Act (DSCSA).

Transaction Information (TI) includes:

– Name of the product (Item-level PID segment – PID05)

– Strength and dosage form (Item-level PID segment – PID05)

– NDC (Item-level LIN segment – Pair qualifier with ID – multiple choices)

– Container size (Item-level PID segment – PID05)

– Number of containers (Item-level SN1 segment – SN102)

– Lot number (Item-level LIN segment - Pair qualifier with ID – multiple choices)

– Transaction date (BSN Segment – BSN03)

– Shipment Date (Shipment-level DTM)*

– Name and address of the seller (Shipment-level "Seller" N1 loop, segments N1, N3, N4)

– Name and address of the purchaser (Shipment-level "Buyer" N1 loop, segments N1, N3, N4)

Needed if shipment date is more than 24 hours after date of the transaction

Note: Although lot number is not required in all DSCSA scenarios, it can be included in the LIN segment as trading partners may find it a helpful way to exchange information.

Transaction History (TH) is a paper or electronic statement that includes the transaction information for each prior transaction back to the manufacturer. (The items required to communicate Transaction History are specific to the transaction scenario.)

Transaction Statement (TS) is a paper or electronic statement that the entity transferring ownership in a transaction is authorized as required under the DSCSA (Shipment-level YNQ segment).

These materials are not legal advice, and are based on evolving requirements. As such, they may change as the Food and Drug Administration (FDA) issues guidance and regulations implementing the DSCSA. Each company must make its own business decisions about passing and accepting TI, TH and TS among its trading partners. Please consult your legal counsel and your trading partners for further implementation guidance.

Two business examples are provided at the end of this guideline:

Example 1**: Direct Purchase Scenario** — Ship Notice for product sent by a manufacturer to a distributor where both parties are authorized as required under the DSCSA.

This initial transaction initiates the Transaction History that will be used on all subsequent transactions where the product's ownership changes. In the example, the Transaction Statement housed in the YNQ segment is a simplified statement of compliance that trading partners might agree to use.

Example 2: **Multiple Distributor Purchase Scenario** — Ship Notice for product sent by a distributor to a subsequent distributor that will ultimately sell to a dispenser, where both distributors are authorized as required under the DSCSA.

The product was purchased directly from the original manufacturer, so omission of the lot number is allowed through the DSCSA. Although lot number is not required in this example, trading partners may find it a helpful way to exchange information. In the example, the Transaction Statement housed in the YNQ segment is a simplified statement of compliance that trading partners might agree to use. An N1 loop for Original Manufacturer is included at the Item Level.

HDMA may publish further examples at a later date.

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Ship Notice/Manifest

POS	ID	NAME	REQ	USE/REPEAT	USAGE
010	ST	Transaction Set Header	M	1	
020	BSN	Beginning Segment for Ship Notice	M	1	
010	**HL**	**Shipment Level**	**M**	**200000**	
010	HL	Hierarchical Level	M	1	
110	TD1	Carrier Details (Quantity and Weight)	O	20	
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
130	TD3	Carrier Details (Equipment)	O	12	
150	REF	Reference Identification	O	>1	
200	DTM	Shipped Date	O	10	
200	DTM	Delivery Date	O	10	
220	**N1**	**Ship To**	**O**	**200**	
220	N1	Name	M	1	
240	N3	Address Information	O	2	
250	N4	Geographic Location	O	1	
260	REF	Reference Identification	O	12	
220	**N1**	**Buyer**	**O**	**200**	
220	N1	Name	M	1	
240	N3	Address Information	O	2	
250	N4	Geographic Location	O	1	
260	REF	Reference Identification	O	12	
220	**N1**	**Ship From**	**O**	**200**	
220	N1	Name	M	1	
240	N3	Address Information	O	2	
250	N4	Geographic Location	O	1	
260	REF	Reference Identification	O	12	
270	PER	Administrative Communications Contact	O	3	
220	**N1**	**Seller**	**O**	**200**	
220	N1	Name	M	1	
240	N3	Address Information	O	2	
250	N4	Geographic Location	O	1	
260	REF	Reference Identification	O	12	
335	YNQ	DSCSA Transaction Statement	O	10	
335	YNQ	Direct Purchase Statement	O	10	
010	**HL**	**Order Level**	**M**	**200000**	
010	HL	Hierarchical Level	M	1	
050	PRF	Purchase Order Reference	O	1	
150	REF	Reference Identification	O	>1	
200	DTM	Date/Time Reference	O	10	
010	**HL**	**Tare Level**	**M**	**200000**	
010	HL	Hierarchical Level	M	1	
150	REF	Reference Identification	O	>1	

POS   Position Number
ID   Segment ID, Segment/Group Tag
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
USE/REPEAT Segment/Group Maximum Usage

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POS	ID	NAME	REQ	USE/REPEAT	USAGE
190	MAN	Marks and Numbers	O	>1	
010	**HL**	**Pack Level**	**M**	**200000**	
010	HL	Hierarchical Level	M	1	
020	LIN	Item Identification	O	1	
060	PO4	Item Physical Details	O	1	
150	REF	Reference Identification	O	>1	
190	MAN	Marks and Numbers	O	>1	
190	MAN	Marks and Numbers	O	>1	
200	DTM	Date/Time Reference	O	10	
010	**HL**	**Inner Pack Level**	**M**	**200000**	
010	HL	Hierarchical Level	M	1	
020	LIN	Item Identification	O	1	
060	PO4	Item Physical Details	O	1	
150	REF	Reference Identification	O	>1	
190	MAN	Marks and Numbers	O	>1	
190	MAN	Marks and Numbers	O	>1	
200	DTM	Date/Time Reference	O	10	
010	**HL**	**Item Level**	**M**	**200000**	
010	HL	Hierarchical Level	M	1	
020	LIN	Item Identification	O	1	
030	SN1	Item Detail (Shipment)	O	1	
070	PID	Product/Item Description	O	200	
150	REF	Reference Identification	O	>1	
150	REF	Reference Identification	O	>1	
200	DTM	Lot Expiration Date	O	10	
220	**N1**	**N1-N3-N4-REF**	**O**	**200**	
220	N1	Name	M	1	
240	N3	Address Information	O	2	
250	N4	Geographic Location	O	1	
260	REF	Reference Identification	O	12	
335	YNQ	Direct Purchase Statement	O	10	
010	CTT	Transaction Totals	O	1	
020	SE	Transaction Set Trailer	M	1	

POS	Position Number
ID	Segment ID, Segment/Group Tag
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
USE/REPEAT	Segment/Group Maximum Usage

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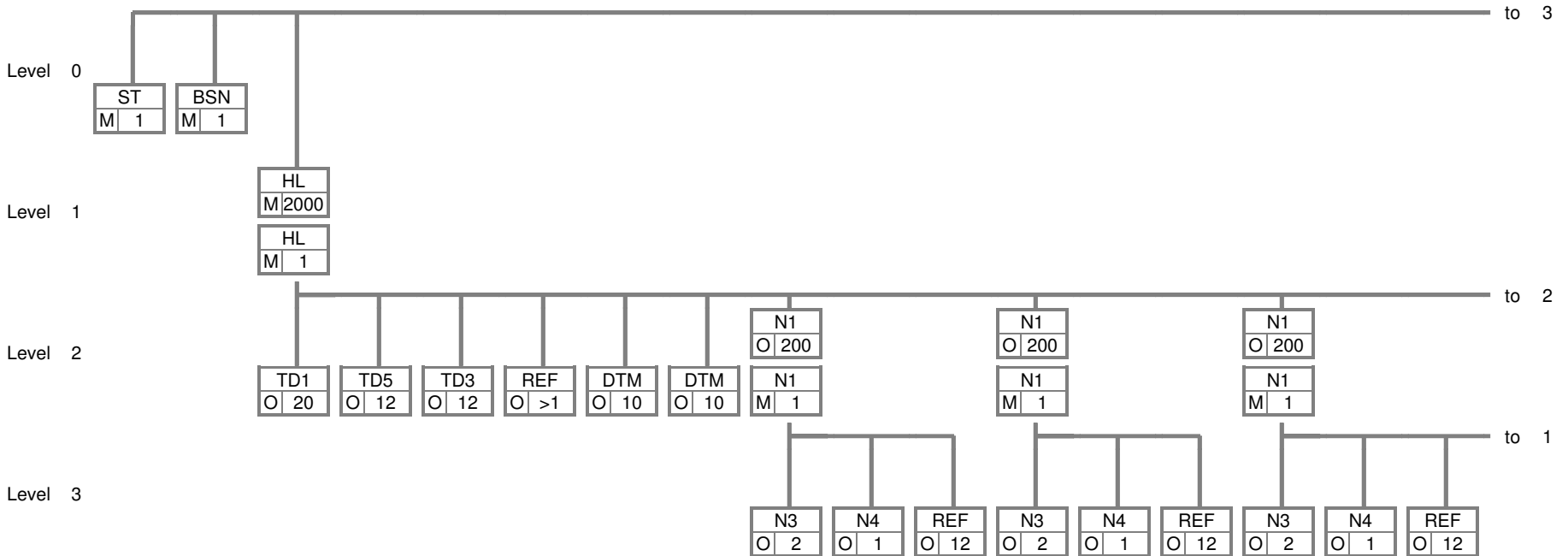## Ship Notice/Manifest

to   3

Level   0

ST	BSN
M 1	M 1

Level   1

HL
M 2000

HL
M 1

to   2

Level   2

TD1	TD5	TD3	REF	DTM	DTM	N1		N1		N1	
O 20	O 12	O 12	O >1	O 10	O 10	O 200		O 200		O 200	
						N1		N1		N1	
						M 1		M 1		M 1	

to   1

Level   3

N3	N4	REF	N3	N4	REF	N3	N4	REF
O 2	O 1	O 12	O 2	O 1	O 12	O 2	O 1	O 12

SEG. ID		SEG. ID	Segment ID, Segment/Group Tag
RE	USE	REQ	Requirement (M=Mand., C=Conditional, R=Requ., O=Opt., A=Advised, D=Dependent)
		USE	Segment/Group Maximum Usage

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from   1

Level   3

```
        PER
    O    3
```

SEG. ID		SEG. ID	Segment ID, Segment/Group Tag
RE	USE	REQ	Requirement (M=Mand., C=Conditional, R=Requ., O=Opt., A=Advised, D=Dependent)
		USE	Segment/Group Maximum Usage

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from   2

Level   2

N1
O	200

N1
M	1

YNQ
O	10

YNQ
O	10

Level   3

N3
O	2

N4
O	1

REF
O	12

SEG. ID	SEG. ID	Segment ID, Segment/Group Tag
RE USE	REQ	Requirement (M=Mand., C=Conditional, R=Requ., O=Opt., A=Advised, D=Dependent)
	USE	Segment/Group Maximum Usage

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from   3 ——— to   5

Level   0

HL	HL	HL		HL
M 2000	M 2000	M 2000		M 2000

Level   1

HL	HL	HL		HL
M 1	M 1	M 1		M 1

to   4

Level   2

PRF	REF	DTM	REF	MAN	LIN	PO4	REF	MAN	MAN	DTM	LIN	PO4	REF	MAN	MAN
O 1	O >1	O 10	O >1	O >1	O 1	O 1	O >1	O >1	O >1	O 10	O 1	O 1	O >1	O >1	O >1

SEG. ID		SEG. ID	Segment ID, Segment/Group Tag
RE	USE	REQ	Requirement (M=Mand., C=Conditional, R=Requ., O=Opt., A=Advised, D=Dependent)
		USE	Segment/Group Maximum Usage

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from   4 ─────┐

Level   2

```
┌─────────┐
│   DTM   │
├───┬─────┤
│ O │  10 │
└───┴─────┘
```

SEG. ID		SEG. ID	Segment ID, Segment/Group Tag
RE	USE	REQ	Requirement (M=Mand., C=Conditional, R=Requ., O=Opt., A=Advised, D=Dependent)
		USE	Segment/Group Maximum Usage

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from 5

| Level | 0 |

CTT	SE
O	1	M	1

| Level | 1 |

HL
M	2000

HL
M	1

| Level | 2 |

N1
O	200

LIN	SN1	PID	REF	REF	DTM	N1	YNQ
O	1	O	1	O	200	O	>1	O	>1	O	10	M	1	O	10

| Level | 3 |

N3	N4	REF
O	2	O	1	O	12

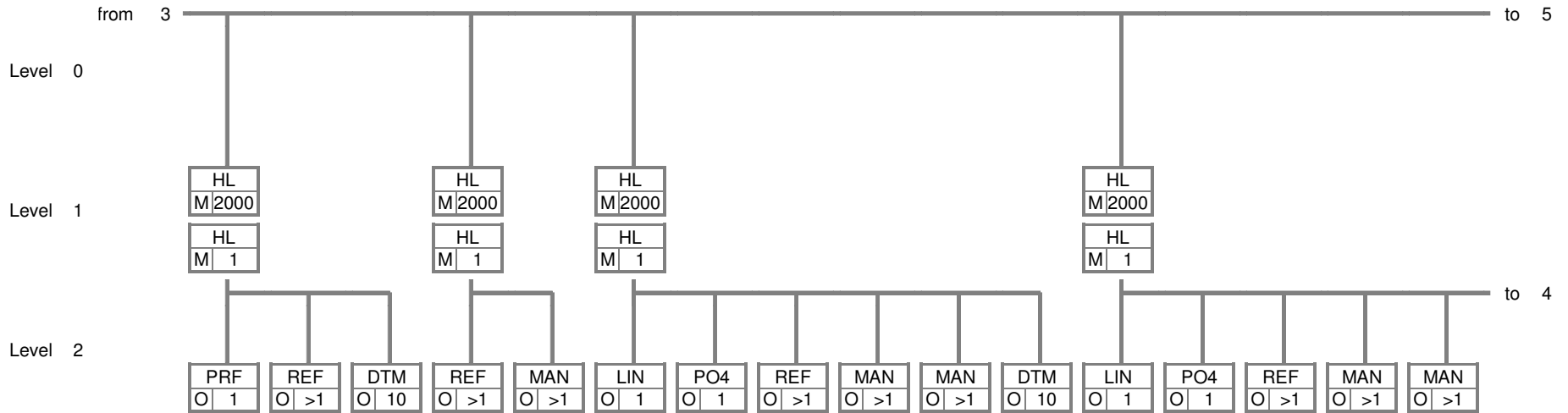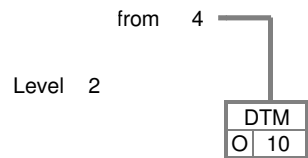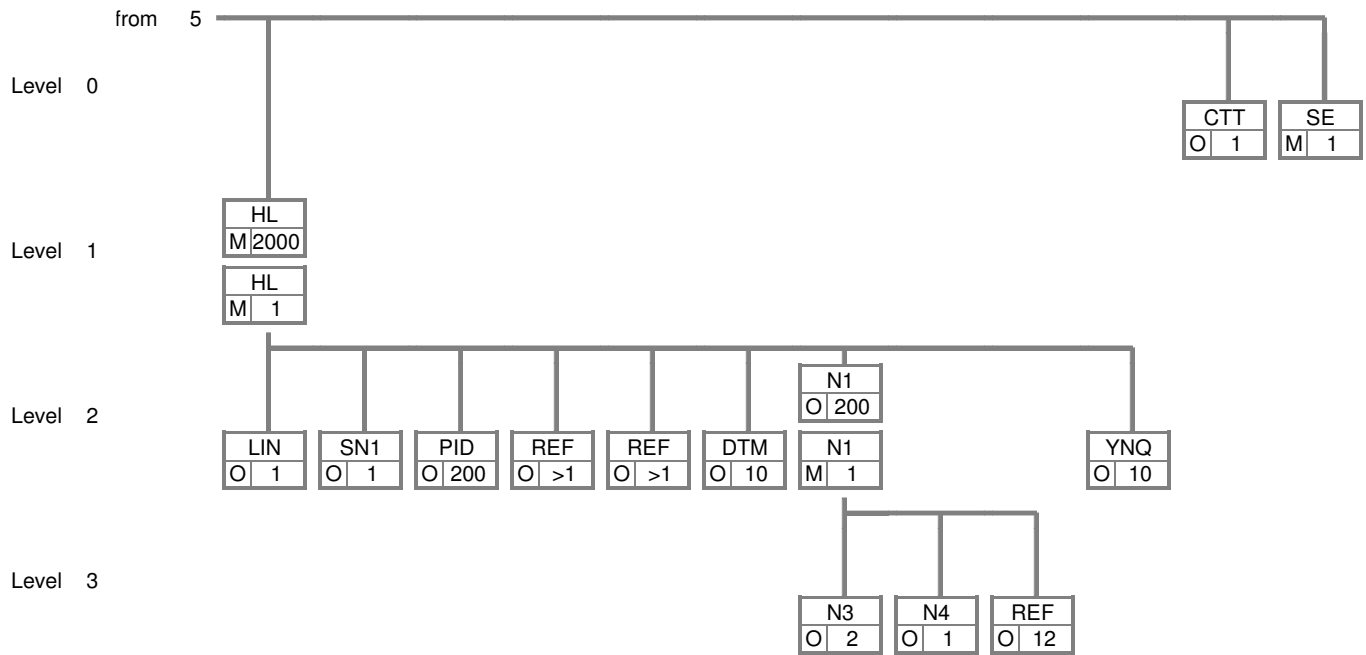| SEG. ID		SEG. ID	Segment ID, Segment/Group Tag
RE	USE	REQ	Requirement (M=Mand., C=Conditional, R=Requ., O=Opt., A=Advised, D=Dependent)
		USE	Segment/Group Maximum Usage

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Segment:	**ST Transaction Set Header**
Requirement:	M
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number

Semantic Notes:
1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Example: **ST*856*0121~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	ST 01	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set	M	ID 3/3	1
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Must Use	ST 02	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set This is a sequential control number.	M	AN 4/9	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Segment:	**BSN Beginning Segment for Ship Notice**
Requirement:	M
Max Use:	1
Purpose:	To transmit identifying numbers, dates, and other basic data relating to the transaction set

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

Syntax Notes:
1. C0706 Conditional

Semantic Notes:
1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Notes:	**This segment contains a date (formerly document create date) which can be used for Transaction Date as part of Transaction Information for DSCSA.**
Example:	**BSN*00*C2878510004*20091218*1117*0001*AS~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	BSN 01	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set **00 Original** **05 Replace**	M	ID 2/2	1
Must Use	BSN 02	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment Vendor Bill of Lading number or other shipment identifier	M	AN 2/30	1
Must Use	BSN 03	**373**	**Date** Date expressed as CCYYMMDD Transaction date	M	DT 8/8	1
Must Use	BSN 04	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM 4/8	1
Used	BSN 05	**1005**	**Hierarchical Structure Code** Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set **0001 Shipment, Order, Packaging, Item** **0004 Shipment, Order, Item**	O	ID 4/4	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	BSN 06	**640**	**Transaction Type Code** Code specifying the type of transaction	C	ID 2/2	1

    AS   **Shipment Advice**
Notification by an inventory management organization providing current shipping advice relating to the outstanding requisition or order

    DO   **Drop Shipment Invoice**
Used to indicate a drop ship notice, not a drop ship invoice

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**HL　Hierarchical Level**
Requirement:	M
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments

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.

Example:　**HL*1**S*1~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN 1/12	1
Used	HL 02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN 1/12	1
Must Use	HL 03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure **S**　**Shipment**	M	ID 1/2	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID 1/1	1
			1 **Additional Subordinate HL Data Segment in This Hierarchical Structure.**			

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**TD1 Carrier Details (Quantity and Weight)**
Requirement:	O
Max Use:	20
Purpose:	To specify the transportation details relative to commodity, weight, and quantity

Syntax Notes:
1. C0102 Conditional
2. C0304 Conditional
3. C0607 Conditional
4. P0708 Paired Multiple
5. P0910 Paired Multiple

Example: **TD1*PLT*2****G*1923*LB**~

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	TD1 01	**103**	**Packaging Code** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required **CAS Case** **CTN Carton** **PLT Pallet**	O	AN 3/5	1
Used	TD1 02	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	C	N0 1/7	1
Not Rec.	TD1 03	**23**	**Commodity Code Qualifier** Code identifying the commodity coding system used for Commodity Code	O	ID 1/1	1
Not Rec.	TD1 04	**22**	**Commodity Code** Code describing a commodity or group of commodities	C	AN 1/30	1
Not Rec.	TD1 05	**79**	**Lading Description** Description of an item as required for rating and billing purposes	O	AN 1/50	1
Used	TD1 06	**187**	**Weight Qualifier** Code defining the type of weight **G Gross Weight**	O	ID 1/2	1
Used	TD1 07	**81**	**Weight** Numeric value of weight	C	R 1/10	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	TD1 08	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **LB Pound**	C	ID 2/2	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**TD5 Carrier Details (Routing Sequence/Transit Time)**
Requirement:	O
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information

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.

Syntax Notes:
1. R0204050612 Required
2. C0203 Conditional
3. C0708 Conditional
4. C1011 Conditional
5. C1312 Conditional
6. C1413 Conditional
7. C1512 Conditional

Semantic Notes:
1. TD515 is the country where the service is to be performed.

Example:	**TD5*O*2*CWCE*M**CC~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	TD5 01	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement	O	ID 1/2	1
			O Origin Carrier (Air, Motor, or Ocean)			
Used	TD5 02	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	C	ID 1/2	1
			2 Standard Carrier Alpha Code (SCAC)			
Used	TD5 03	**67**	**Identification Code** Code identifying a party or other code	C	AN 2/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	TD5 04	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment	C	ID 1/2	1
			A **Air** **AE** **Air Express** **H** **Customer Pickup** **M** **Motor (Common Carrier)** **R** **Rail** **S** **Ocean** **SR** **Supplier Truck** **X** **Intermodal (Piggyback)**			
Not Rec.	TD5 05	**387**	**Routing** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN 1/35	1
Used	TD5 06	**368**	**Shipment/Order Status Code** Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction	C	ID 2/2	1
			CC **Shipment Complete on (Date)** **PR** **Partial Shipment**			

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Ship Notice/Manifest

Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**TD3 Carrier Details (Equipment)**
Requirement:	O
Max Use:	12
Purpose:	To specify transportation details relating to the equipment used by the carrier

Syntax Notes:
1. E0110 Exclusion
2. C0203 Conditional
3. C0405 Conditional
4. P0506 Paired Multiple

Example: **TD3*TL**123456~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	TD3 01	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment	C	ID 2/2	1
			CN **Container** **RR** **Rail Car** **TL** **Trailer (not otherwise specified)** **VE** **Vessel, Ocean**			
Used	TD3 02	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number	O	AN 1/4	1
Used	TD3 03	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	C	AN 1/10	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Ship Notice/Manifest

Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	>1
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Example: **REF*CN*14783516~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
			2I **Tracking Number** **BM** **Bill of Lading Number** **CN** **Carrier's Reference Number (PRO/Invoice)** **MB** **Master Bill of Lading** **SN** **Seal Number**			
Must Use	REF 02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN 1/30	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Ship Notice/Manifest

Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**DTM Date/Time Reference**
Requirement:	O
Max Use:	10
Purpose:	To specify pertinent dates and times

Syntax Notes:
1. R020305 Required
2. C0403 Conditional
3. P0506 Paired Multiple

Notes: **This segment contains shipment date which can be Transaction Information for DSCSA, if shipment date is more than 24 hours after date of transaction (ownership transfer).**

Example: **DTM*011*20140130~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3	1
			011 Shipped			
Must Use	DTM02	**373**	**Date** Date expressed as CCYYMMDD	C	DT 8/8	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Ship Notice/Manifest

Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**DTM Date/Time Reference**
Requirement:	O
Max Use:	10
Purpose:	To specify pertinent dates and times

Syntax Notes:
1. R020305 Required
2. C0403 Conditional
3. P0506 Paired Multiple

Example: **DTM*067*20140130~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	DTM 01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3	1
			017 **Estimated Delivery** **067** **Current Schedule Delivery**			
Must Use	DTM 02	**373**	**Date** Date expressed as CCYYMMDD	C	DT 8/8	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Ship To**
Repeat:	**200**

Segment:	**N1 Name**
Requirement:	M
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code

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.

Syntax Notes:
1. R0203 Required
2. P0304 Paired Multiple

Notes:	**Used for logistical purposes.**
Example:	**N1*ST*MOUNTAIN WHOLESALE*UL*0367891234567~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N1 01	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual **ST** **Ship To**	M	ID 2/3	1
Must Use	N1 02	**93**	**Name** Free-form name	C	AN 1/60	1
Must Use	N1 03	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	C	ID 1/2	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
		1	**D-U-N-S Number, Dun & Bradstreet**			
		9	**D-U-N-S+4, D-U-N-S Number with Four Character Suffix**			
		11	**Drug Enforcement Administration (DEA)**			
		21	**Health Industry Number (HIN)**			
		91	**Assigned by Seller or Seller's Agent**			
		92	**Assigned by Buyer or Buyer's Agent**			
		UL	**UCC/EAN Location Code**			
			Used for GS1-US Global Location Number (GLN). Standard 13-digit GLNs are used in business to business transactions. The UL qualifier does not support the serialized GLN unless the serial number is truncated from the serialized GLN to result in the standard 13-digit GLN.			
Must Use	N1 04	**67**	**Identification Code** Code identifying a party or other code	C	AN 2/80	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Ship To**
Repeat:	**200**

Segment:	**N3** **Address Information**
Requirement:	O
Max Use:	2
Purpose:	To specify the location of the named party
Example:	**N3*219 MAIN STREET~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N3 01	**166**	**Address Information** Address information	M	AN 1/55	1
Used	N3 02	**166**	**Address Information** Address information	O	AN 1/55	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Ship To**
Repeat:	**200**

Segment:	**N4** **Geographic Location**
Requirement:	O
Max Use:	1
Purpose:	To specify the geographic place of the named party

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.

Syntax Notes:
1. C0605 Conditional

Example:	**N4*CHICAGO*IL*60614~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N4 01	**19**	**City Name** Free-form text for city name	O	AN 2/30	1
Must Use	N4 02	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	O	ID 2/2	1
Must Use	N4 03	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID 3/15	1
Used	N4 04	**26**	**Country Code** Code identifying the country	O	ID 2/3	1
Used	N4 05	**309**	**Location Qualifier** Code identifying type of location If used, qualifier is subject to trading partner agreement.	C	ID 1/2	1
Used	N4 06	**310**	**Location Identifier** Code which identifies a specific location	O	AN 1/30	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Ship To**
Repeat:	**200**

Segment:	**REF　　Reference Identification**
Requirement:	O
Max Use:	12
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Example:　　**REF*FW*AZ123456*IL~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
		D3	**National Association of Boards of Pharmacy Number** Seller's NABP provided VAWD (VerifiedAccredited Wholesale Distributors™) Number.			
		FW	**State License Identification Number** A unique number assigned to each provider of service; this number is assigned by state governments and is the provider's legal identification number in the state that is assigned.			
Must Use	REF 02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier The license number of the ship to entity.	C	AN 1/30	1
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content The standard 2-character abbreviation for the state in which the License Number is applicable.	C	AN 1/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Buyer**
Repeat:	**200**

Segment:	**N1 Name**
Requirement:	M
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code

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.

Syntax Notes:
1. R0203 Required
2. P0304 Paired Multiple

Notes:	**The business name and address to whom ownership is transferred, per 21 USC Sec. 581 (26) (J)**
Example:	**N1*BY*MOUNTAIN WHOLESALE*UL*0367891234567~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N1 01	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M	ID 2/3	1
			BY Buying Party (Purchaser)			
Must Use	N1 02	**93**	**Name** Free-form name	C	AN 1/60	1
Must Use	N1 03	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	C	ID 1/2	1

REF	Segment Tag and Position Number				
ID	Element ID				
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)				
REPR	Elements Representation				

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
		1	**D-U-N-S Number, Dun & Bradstreet**			
		9	**D-U-N-S+4, D-U-N-S Number with Four Character Suffix**			
		21	**Health Industry Number (HIN)**			
		91	**Assigned by Seller or Seller's Agent**			
		92	**Assigned by Buyer or Buyer's Agent**			
		UL	**UCC/EAN Location Code**			
			Used for GS1-US Global Location Number (GLN). Standard 13-digit GLNs are used in business to business transactions. The UL qualifier does not support the serialized GLN unless the serial number is truncated from the serialized GLN to result in the standard 13-digit GLN.			
Must Use	N1 04	**67**	**Identification Code** Code identifying a party or other code	C	AN 2/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Buyer**
Repeat:	**200**

Segment:	**N3 Address Information**
Requirement:	O
Max Use:	2
Purpose:	To specify the location of the named party
Example:	**N3*219 MAIN ST**~

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N3 01	**166**	**Address Information** Address information	M	AN 1/55	1
Used	N3 02	**166**	**Address Information** Address information	O	AN 1/55	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Buyer**
Repeat:	**200**

Segment:	**N4**	**Geographic Location**
Requirement:	O	
Max Use:	1	
Purpose:	To specify the geographic place of the named party	

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.

Syntax Notes:
1. C0605 Conditional

Example: **N4*CHICAGO*IL*60614~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N401	**19**	**City Name** Free-form text for city name	O	AN 2/30	1
Must Use	N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	O	ID 2/2	1
Must Use	N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID 3/15	1
Used	N404	**26**	**Country Code** Code identifying the country	O	ID 2/3	1
Used	N405	**309**	**Location Qualifier** Code identifying type of location If used, qualifier is subject to trading partner agreement.	C	ID 1/2	1
Used	N406	**310**	**Location Identifier** Code which identifies a specific location	O	AN 1/30	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Buyer**
Repeat:	**200**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	12
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Notes: **Use when shipping out of state.**

Example: **REF*FW*AZ123456*IL~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
		D3	**National Association of Boards of Pharmacy Number** Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number.			
		FW	**State License Identification Number** A unique number assigned to each provider of service; this number is assigned by state governments and is the provider's legal identification number in the state that is assigned.			
Must Use	REF 02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier The license number of the ship to entity.	C	AN 1/30	1
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content The standard 2-character abbreviation for the state in which the License Number is applicable.	C	AN 1/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Ship Notice/Manifest

Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Ship From**
Repeat:	**200**

Segment:	**N1 Name**
Requirement:	M
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code

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.

Syntax Notes:
1. R0203 Required
2. P0304 Paired Multiple

Notes:	**Used for logistical purposes.**
Example:	**N1*SF*BRICK PHARMACEUTICAL*UL*0309999234569~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N1 01	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual **SF Ship From**	M	ID 2/3	1
Must Use	N1 02	**93**	**Name** Free-form name	C	AN 1/60	1
Must Use	N1 03	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	C	ID 1/2	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
		1	**D-U-N-S Number, Dun & Bradstreet**			
		9	**D-U-N-S+4, D-U-N-S Number with Four Character Suffix**			
		11	**Drug Enforcement Administration (DEA)**			
		21	**Health Industry Number (HIN)**			
		91	**Assigned by Seller or Seller's Agent**			
		92	**Assigned by Buyer or Buyer's Agent**			
		UL	**UCC/EAN Location Code**			
			Used for GS1-US Global Location Number (GLN). Standard 13-digit GLNs are used in business to business transactions. The UL qualifier does not support the serialized GLN unless the serial number is truncated from the serialized GLN to result in the standard 13-digit GLN.			
Must Use	N1 04	**67**	**Identification Code** Code identifying a party or other code	C	AN 2/80	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Ship From**
Repeat:	**200**

Segment:	**N3** **Address Information**
Requirement:	O
Max Use:	2
Purpose:	To specify the location of the named party
Example:	**N3*1 BAKER BLVD**~

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N301	**166**	**Address Information** Address information	M	AN 1/55	1
Used	N302	**166**	**Address Information** Address information	O	AN 1/55	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**

Loop:	**Ship From**
Repeat:	**200**

Segment:	**N4** **Geographic Location**
Requirement:	O
Max Use:	1
Purpose:	To specify the geographic place of the named party

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.

Syntax Notes:
1. C0605 Conditional

Example:	**N4*AURORA*IL*60625~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N4 01	**19**	**City Name** Free-form text for city name	O	AN 2/30	1
Must Use	N4 02	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	O	ID 2/2	1
Must Use	N4 03	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID 3/15	1
Used	N4 04	**26**	**Country Code** Code identifying the country	O	ID 2/3	1
Used	N4 05	**309**	**Location Qualifier** Code identifying type of location If used, qualifier is subject to trading partner agreement.	C	ID 1/2	1
Used	N4 06	**310**	**Location Identifier** Code which identifies a specific location	O	AN 1/30	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Ship From**
Repeat:	**200**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	12
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Notes: **Use when shipping out of state.**

Example: **REF*FW*16001234*IL~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
		D3	**National Association of Boards of Pharmacy Number** Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number.			
		FW	**State License Identification Number** A unique number assigned to each provider of service; this number is assigned by state governments and is the provider's legal identification number in the state that is assigned.			
Must Use	REF 02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier The license number of the ship from/selling entity.	C	AN 1/30	1
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content The standard 2-character abbreviation for the state in which the License Number is applicable.	C	AN 1/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Ship From**
Repeat:	**200**

Segment:	**PER Administrative Communications Contact**
Requirement:	O
Max Use:	3
Purpose:	To identify a person or office to whom administrative communications should be directed

Syntax Notes:
1. P0304 Paired Multiple
2. P0506 Paired Multiple
3. P0708 Paired Multiple

Example: **PER*CE*JOE JONES*TE*18003217654*EM*JJONES@SUPPLIER.COM~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	PER 01	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named **CE** **Certifier**	M	ID 2/2	1
Must Use	PER 02	**93**	**Name** Free-form name	O	AN 1/60	1
Used	PER 03	**365**	**Communication Number Qualifier** Code identifying the type of communication number **TE** **Telephone**	C	ID 2/2	1
Used	PER 04	**364**	**Communication Number** Complete communications number including country or area code when applicable A valid telephone number must be provided.	C	AN 1/80	1
Used	PER 05	**365**	**Communication Number Qualifier** Code identifying the type of communication number **EM** **Electronic Mail**	C	ID 2/2	1
Used	PER 06	**364**	**Communication Number** Complete communications number including country or area code when applicable A valid email address must be provided.	C	AN 1/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Seller**
Repeat:	**200**

Segment:	**N1 Name**
Requirement:	M
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code

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.

Syntax Notes:
1. R0203 Required
2. P0304 Paired Multiple

Notes: **The business name and address from whom ownership is transferred, per 21 USC Sec. 581 (26) (I)**

Example: **N1*SE*BRICK PHARMACEUTICAL*UL*0309999234569~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N1 01	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual **SE Selling Party**	M	ID 2/3	1
Must Use	N1 02	**93**	**Name** Free-form name	C	AN 1/60	1
Must Use	N1 03	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	C	ID 1/2	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
		1	**D-U-N-S Number, Dun & Bradstreet**			
		9	**D-U-N-S+4, D-U-N-S Number with Four Character Suffix**			
		21	**Health Industry Number (HIN)**			
		91	**Assigned by Seller or Seller's Agent**			
		92	**Assigned by Buyer or Buyer's Agent**			
		UL	**UCC/EAN Location Code** Used for GS1-US Global Location Number (GLN). Standard 13-digit GLNs are used in business to business transactions. The UL qualifier does not support the serialized GLN unless the serial number is truncated from the serialized GLN to result in the standard 13-digit GLN.			
Must Use	N1 04	67	**Identification Code** Code identifying a party or other code	C	AN 2/80	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Seller**
Repeat:	**200**

Segment:	**N3** **Address Information**
Requirement:	O
Max Use:	2
Purpose:	To specify the location of the named party
Example:	**N3*1 BAKER BLVD**~

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N3 01	**166**	**Address Information** Address information	M	AN 1/55	1
Used	N3 02	**166**	**Address Information** Address information	O	AN 1/55	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Ship Notice/Manifest

Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Seller**
Repeat:	**200**

Segment:	**N4** **Geographic Location**
Requirement:	O
Max Use:	1
Purpose:	To specify the geographic place of the named party

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.

Syntax Notes:
1. C0605 Conditional

Example: **N4*AURORA*IL*60625~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N401	**19**	**City Name** Free-form text for city name	O	AN 2/30	1
Must Use	N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	O	ID 2/2	1
Must Use	N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID 3/15	1
Used	N404	**26**	**Country Code** Code identifying the country	O	ID 2/3	1
Used	N405	**309**	**Location Qualifier** Code identifying type of location If used, qualifier is subject to trading partner agreement.	C	ID 1/2	1
Used	N406	**310**	**Location Identifier** Code which identifies a specific location	O	AN 1/30	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**
Loop:	**Seller**
Repeat:	**200**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	12
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Example: **REF*FW*16001234*IL~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
			D3 **National Association of Boards of Pharmacy Number** Seller's NABP provided VAWD (VerifiedAccredited Wholesale Distributors™) Number. **FW** **State License Identification Number** A unique number assigned to each provider of service; this number is assigned by state governments and is the provider's legal identification number in the state that is assigned.			
Must Use	REF 02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier The license number of the ship to entity.	C	AN 1/30	1
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content The standard 2-character abbreviation for the state in which the License Number is applicable.	C	AN 1/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**YNQ Yes/No Question**
Requirement:	O
Max Use:	10
Purpose:	To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

Syntax Notes:
1. E010910 Exclusion
2. P0304 Paired Multiple
3. C0908 Conditional

Semantic Notes:
1. YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
2. YNQ10 contains a free-form question when codified questions are not available.

Notes: **The YNQ02 should have a value of 'Y' which indicates that DSCSA applies.**

Example: **YNQ****Y***Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G).***99*TS~

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	YNQ 02	**1073**	**Yes/No Condition or Response Code** Code indicating a Yes or No condition or response	M	ID 1/1	1
			Y **Yes** "Y" indicates that the transaction is DSCSA compliant.			
Must Use	YNQ 05	**933**	**Free-Form Message Text** Free-form message text Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G).	O	AN 1/264	1
Used	YNQ 06	**933**	**Free-Form Message Text** Free-form message text	O	AN 1/264	1
Used	YNQ 07	**933**	**Free-Form Message Text** Free-form message text	O	AN 1/264	1
Must Use	YNQ 08	**1270**	**Code List Qualifier Code** Code identifying a specific industry code list	C	ID 1/3	1
			99 **Purpose Code**			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	YNQ 09	**1271**	**Industry Code** Code indicating a code from a specific industry code list	C	AN 1/30	1
			TS **Transaction Statement**			

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Shipment Level**
Repeat:	**200000**

Segment:	**YNQ Yes/No Question**
Requirement:	O
Max Use:	10
Purpose:	To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

Syntax Notes:
1. E010910 Exclusion
2. P0304 Paired Multiple
3. C0908 Conditional

Semantic Notes:
1. YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
2. YNQ10 contains a free-form question when codified questions are not available.

Notes:	**The YNQ02 should have a value of Y which indicates that Direct Purchase Statement details are available at the item level.**
Example:	**YNQ**Y***As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer.***99*DPS~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	YNQ 02	**1073**	**Yes/No Condition or Response Code** Code indicating a Yes or No condition or response	M	ID 1/1	1
			Y Yes YNQ05 includes Direct Purchase Statement			
Must Use	YNQ 05	**933**	**Free-Form Message Text** Free-form message text	O	AN 1/264	1
			As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer.			
Must Use	YNQ 08	**1270**	**Code List Qualifier Code** Code identifying a specific industry code list	C	ID 1/3	1
			99 Purpose Code			
Must Use	YNQ 09	**1271**	**Industry Code** Code indicating a code from a specific industry code list	C	AN 1/30	1
			DPS Direct Purchase Statement			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Order Level**
Repeat:	**200000**

Segment:	**HL Hierarchical Level**
Requirement:	M
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments

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.

Example:	**HL*2*1*O*1~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN 1/12	1
Used	HL 02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN 1/12	1
Must Use	HL 03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure	M	ID 1/2	1
			O Order			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described **1** **Additional Subordinate HL Data Segment in This Hierarchical Structure.**	O	ID 1/1	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Order Level**
Repeat:	**200000**

Segment:	**PRF Purchase Order Reference**
Requirement:	O
Max Use:	1
Purpose:	To provide reference to a specific purchase order
	Semantic Notes:
	1. PRF04 is the date assigned by the purchaser to purchase order.
Notes:	**Must Use**
Example:	**PRF*PO123456***20140130~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	PRF 01	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN 1/22	1
Used	PRF 02	**328**	**Release Number** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN 1/30	1
Used	PRF 03	**327**	**Change Order Sequence Number** Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O	AN 1/8	1
Must Use	PRF 04	**373**	**Date** Date expressed as CCYYMMDD Original Purchase Order Date	O	DT 8/8	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Order Level**
Repeat:	**200000**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	>1
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Example: **REF*IV*IN123456~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
			IV Seller's Invoice Number **VN Vendor Order Number**			
Must Use	REF 02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN 1/30	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Order Level**
Repeat:	**200000**

Segment:	**DTM Date/Time Reference**
Requirement:	O
Max Use:	10
Purpose:	To specify pertinent dates and times

Syntax Notes:
1. R020305 Required
2. C0403 Conditional
3. P0506 Paired Multiple

Example: **DTM*003*20140703~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3	1
			003 **Invoice**			
Used	DTM02	**373**	**Date** Date expressed as CCYYMMDD	C	DT 8/8	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Tare Level**
Repeat:	**200000**

Segment:	**HL Hierarchical Level**
Requirement:	M
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments

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.

Example:	**HL*3*2*T*1~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN 1/12	1
Used	HL 02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN 1/12	1
Must Use	HL 03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure	M	ID 1/2	1
			T Shipping Tare			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described **1** **Additional Subordinate HL Data Segment in This Hierarchical Structure.**	O	ID 1/1	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Tare Level**
Repeat:	**200000**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	>1
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Notes: **Use this REF only for serialization, using GS1 EPC.**

Example: **REF*SE**urn:epc:id:sssc:0309440.0000000045~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
			SE Serial Number			
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content	C	AN 1/80	1
			Serial Number in GS1 EPC format.			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Tare Level**
Repeat:	**200000**

Segment:	**MAN Marks and Numbers**
Requirement:	O
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers

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.

Syntax Notes:
1. P0405 Paired Multiple
2. C0605 Conditional

Semantic Notes:
1. 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.

Notes:	**MAN segment should only contain numbers used for logistical purposes [to track containers].**
Example:	**MAN*GM*00003094400000000459~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	MAN 01	**88**	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and Numbers (87)	M	ID 1/2	1
			W **Pallet Number** **GM** **SSCC-18 and Application Identifier**			
Must Use	MAN 02	**87**	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment	M	AN 1/48	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Pack Level**
Repeat:	**200000**

Segment:	**HL Hierarchical Level**
Requirement:	M
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments

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.

Example:	**HL*4*3*P*1~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN 1/12	1
Used	HL 02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN 1/12	1
Must Use	HL 03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure **P Pack**	M	ID 1/2	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described **1** **Additional Subordinate HL Data Segment in This Hierarchical Structure.**	O	ID 1/1	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Pack Level**
Repeat:	**200000**

Segment:	**LIN Item Identification**
Requirement:	O
Max Use:	1
Purpose:	To specify basic item identification data

Comments
1. See the Data Dictionary for a complete list of IDs.
2. 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.

Syntax Notes:
1. P0405 Paired Multiple
2. P0607 Paired Multiple
3. P0809 Paired Multiple
4. P1011 Paired Multiple
5. P1213 Paired Multiple
6. P1415 Paired Multiple
7. P1617 Paired Multiple
8. P1819 Paired Multiple
9. P2021 Paired Multiple
10. P2223 Paired Multiple
11. P2425 Paired Multiple
12. P2627 Paired Multiple
13. P2829 Paired Multiple
14. P3031 Paired Multiple

Semantic Notes:
1. LIN01 is the line item identification

Notes:	**Only Applicable for Single (homogeneous) SKU Full Case Cartons**
Example:	**LIN**N1*0555333322~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	LIN 01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	O	AN 1/20	1
Must Use	LIN 02	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	M	ID 2/2	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
			LT **Lot Number**			
			MF **Manufacturer**			
			N1 **National Drug Code in 4-4-2 Format**			
			4-digit manufacturer ID, 4-digit product ID, 2-digit trade package size			
			N2 **National Drug Code in 5-3-2 Format**			
			5-digit manufacturer ID, 3-digit product ID, 2-digit trade package size			
			N3 **National Drug Code in 5-4-1 Format**			
			5-digit manufacturer ID, 4-digit product ID, 1-digit trade package size			
			N4 **National Drug Code in 5-4-2 Format**			
			5-digit manufacturer ID, 4-digit product ID, 2-digit trade package size			
			ND **National Drug Code (NDC)**			
			N5 **National Health Related Item Code in 5-5 Format**			
			N6 **National Health Related Item Code in 4-6 Format**			
			NH **National Health Related Item Code**			
			UA **U.P.C./EAN Case Code (2-5-5)**			
			Retired from use by GS1-US.			
			UI **U.P.C. Consumer Package Code (1-5-5)**			
			Retired from use by GS1-US.			
			UK **U.P.C./EAN Shipping Container Code (1-2-5-5-1)**			
			Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)			
			UP **U.P.C. Consumer Package Code (1-5-5-1)**			
			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.)			
			UX **Universal Product Number**			
			A unique identifier of a healthcare product			
			VC **Vendor's (Seller's) Catalog Number**			
Must Use	LIN 03	**234**	**Product/Service ID** Identifying number for a product or service	M	AN 1/48	1
Used	LIN 04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 05	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 06	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 07	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Used	LIN 08	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 09	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 10	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 11	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 12	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 13	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 14	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 15	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 16	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 17	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 18	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 19	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 20	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 21	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Pack Level**
Repeat:	**200000**

Segment:	**PO4 Item Physical Details**
Requirement:	O
Max Use:	1
Purpose:	To specify the physical qualities, packaging, weights, and dimensions relating to the item

Comments
1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. 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.

Syntax Notes:
1. P0203 Paired Multiple
2. C0506 Conditional
3. P0607 Paired Multiple
4. P0809 Paired Multiple
5. C1013 Conditional
6. C1113 Conditional
7. C1213 Conditional
8. L13101112 List Conditional
9. C1716 Conditional
10. C1804 Conditional

Semantic Notes:
1. 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.

Notes:	**Only Applicable for Single SKU Full Case Cartons**
Example:	**PO4*8*60*CH*****10*CC~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	PO401	**356**	**Pack** The number of inner containers, or number of eaches if there are no inner containers, per outer container	O	N0 1/6	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	PO4 02	**357**	**Size** Size of supplier units in pack	C	R 1/8	1
Used	PO4 03	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID 2/2	1

        AM   **Ampoule**
        BO   **Bottle**
        BX   **Box**
        CA   **Case**
        CH   **Container**
        CT   **Carton**
        DZ   **Dozen**
        EA   **Each**
        GS   **Gross**
        KT   **Kit**
        OZ   **Ounce - Av**
        P1   **Percent**
        PC   **Piece**
        PF   **Pallet (Lift)**
        PK   **Package**
        SP   **Shelf Package**
        SZ   **Syringe**
        UN   **Unit**
                   Use UN for pill counts or for partials.
        VI   **Vial**

                Use any appropriate code from data element 355, as agreed by the trading partners.

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	PO4 04	**103**	**Packaging Code** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	C	AN 3/5	1
Used	PO4 05	**187**	**Weight Qualifier** Code defining the type of weight	O	ID 1/2	1
Used	PO4 06	**384**	**Gross Weight per Pack** Numeric value of gross weight per pack	C	R 1/9	1
Used	PO4 07	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID 2/2	1
Must Use	PO4 08	**385**	**Gross Volume per Pack** Numeric value of gross volume per pack	C	R 1/9	1
Must Use	PO4 09	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID 2/2	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
			CC **Cubic Centimeter** **CF** **Cubic Feet** **CI** **Cubic Inches** **CR** **Cubic Meter** **CY** **Cubic Yard**			
Used	PO4 10	**82**	**Length** Largest horizontal dimension of an object measured when the object is in the upright position	C	R 1/8	1
Used	PO4 11	**189**	**Width** Shorter measurement of the two horizontal dimensions measured with the object in the upright position	C	R 1/8	1
Used	PO4 12	**65**	**Height** Vertical dimension of an object measured when the object is in the upright position	C	R 1/8	1
Used	PO4 13	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **CM** **Centimeter** **IN** **Inch** **MM** **Millimeter**	C	ID 2/2	1
Used	PO4 14	**810**	**Inner Pack** The number of eaches per inner container	O	N0 1/6	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Pack Level**
Repeat:	**200000**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	>1
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Notes: **Use REF only for serialization, using GS1 EPC.**

Example: **REF*SE**urn:epc:id:sgtin:0309440.049101.5265~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
			SE **Serial Number**			
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content	C	AN 1/80	1
			Serial Number in GS1 EPC format.			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Pack Level**
Repeat:	**200000**

Segment:	**MAN Marks and Numbers**
Requirement:	O
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers

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.

Syntax Notes:
1. P0405 Paired Multiple
2. C0605 Conditional

Semantic Notes:
1. 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.

Example: **MAN*AI*00103003339876543218~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	MAN 01	**88**	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and Numbers (87)	M	ID 1/2	1
		AI	**UCC/EAN-128 Application Identifier (AI) and Data** Code AI should not be used for -21 serial number.			
Used	MAN 02	**87**	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment	M	AN 1/48	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Pack Level**
Repeat:	**200000**

Segment:	**MAN Marks and Numbers**
Requirement:	O
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers

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.

Syntax Notes:
1. P0405 Paired Multiple
2. C0605 Conditional

Semantic Notes:
1. 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.

Example: **MAN*GM*00103003339876543218~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	MAN 01	**88**	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and Numbers (87) **GM** **SSCC-18 and Application Identifier**	M	ID 1/2	1
Used	MAN 02	**87**	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment	M	AN 1/48	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Pack Level**
Repeat:	**200000**

Segment:	**DTM Date/Time Reference**
Requirement:	O
Max Use:	10
Purpose:	To specify pertinent dates and times
	Syntax Notes:
	1. R020305 Required
	2. C0403 Conditional
	3. P0506 Paired Multiple
Notes:	**Only Applicable for Single (homogeneous) SKU Full Case Cartons**
Example:	**DTM*208*20140225~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3	1
		208	**Lot Number Expiration**			
Used	DTM02	**373**	**Date** Date expressed as CCYYMMDD	C	DT 8/8	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Inner Pack Level**
Repeat:	**200000**
Notes:	**Used for Inner Packs that have their own unique identifier.**

Segment:	**HL Hierarchical Level**
Requirement:	M
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments

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.

Example:	**HL*5*4*Q*1~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN 1/12	1
Used	HL 02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN 1/12	1
Must Use	HL 03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure **Q Subpack**	M	ID 1/2	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID 1/1	1
			1 **Additional Subordinate HL Data Segment in This Hierarchical Structure.**			

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Inner Pack Level**
Repeat:	**200000**
Notes:	**Used for Inner Packs that have their own unique identifier.**

Segment:	**LIN Item Identification**
Requirement:	O
Max Use:	1
Purpose:	To specify basic item identification data

Comments
1. See the Data Dictionary for a complete list of IDs.
2. 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.

Syntax Notes:
1. P0405 Paired Multiple
2. P0607 Paired Multiple
3. P0809 Paired Multiple
4. P1011 Paired Multiple
5. P1213 Paired Multiple
6. P1415 Paired Multiple
7. P1617 Paired Multiple
8. P1819 Paired Multiple
9. P2021 Paired Multiple
10. P2223 Paired Multiple
11. P2425 Paired Multiple
12. P2627 Paired Multiple
13. P2829 Paired Multiple
14. P3031 Paired Multiple

Semantic Notes:
1. LIN01 is the line item identification

Notes: **Only Applicable for Single SKU Full Inner Pack**

Example: **LIN**N1*0555333322~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	LIN 01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	O	AN 1/20	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	LIN 02	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	M	ID 2/2	1

     LT   **Lot Number**

     MF   **Manufacturer**

     N1   **National Drug Code in 4-4-2 Format**
            4-digit manufacturer ID, 4-digit product ID, 2-digit trade package size

     N2   **National Drug Code in 5-3-2 Format**
            5-digit manufacturer ID, 3-digit product ID, 2-digit trade package size

     N3   **National Drug Code in 5-4-1 Format**
            5-digit manufacturer ID, 4-digit product ID, 1-digit trade package size

     N4   **National Drug Code in 5-4-2 Format**
            5-digit manufacturer ID, 4-digit product ID, 2-digit trade package size

     ND   **National Drug Code (NDC)**

     N5   **National Health Related Item Code in 5-5 Format**

     N6   **National Health Related Item Code in 4-6 Format**

     NH   **National Health Related Item Code**

     UA   **U.P.C./EAN Case Code (2-5-5)**
            Retired from use by GS1-US.

     UI   **U.P.C. Consumer Package Code (1-5-5)**
            Retired from use by GS1-US.

     UK   **U.P.C./EAN Shipping Container Code (1-2-5-5-1)**
            Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

     UP   **U.P.C. Consumer Package Code (1-5-5-1)**
            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.)

     UX   **Universal Product Number**
            A unique identifier of a healthcare product

     VC   **Vendor's (Seller's) Catalog Number**

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	LIN 03	234	**Product/Service ID** Identifying number for a product or service	M	AN 1/48	1
Used	LIN 04	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 05	234	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 06	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Used	LIN 07	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 08	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 09	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 10	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 11	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 12	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 13	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 14	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 15	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 16	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 17	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 18	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 19	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 20	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 21	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

CHDMA

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Loop: **Inner Pack Level**
Repeat: **200000**
Notes: **Used for Inner Packs that have their own unique identifier.**

Segment: **PO4   Item Physical Details**
Requirement: O
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Comments
1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. 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.

Syntax Notes:
1. P0203 Paired Multiple
2. C0506 Conditional
3. P0607 Paired Multiple
4. P0809 Paired Multiple
5. C1013 Conditional
6. C1113 Conditional
7. C1213 Conditional
8. L13101112 List Conditional
9. C1716 Conditional
10. C1804 Conditional

Semantic Notes:
1. 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.

Notes: **Only Applicable for Single SKU Full Inner Pack**

Example: **PO4*8*60*CH*****10*CC~**

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	PO4 01	**356**	**Pack** The number of inner containers, or number of eaches if there are no inner containers, per outer container	O	N0 1/6	1
Must Use	PO4 02	**357**	**Size** Size of supplier units in pack	C	R 1/8	1
Used	PO4 03	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID 2/2	1

AM   **Ampoule**
BO   **Bottle**
BX   **Box**
CA   **Case**
CH   **Container**
CT   **Carton**
DZ   **Dozen**
EA   **Each**
GS   **Gross**
KT   **Kit**
OZ   **Ounce - Av**
P1   **Percent**
PC   **Piece**
PF   **Pallet (Lift)**
PK   **Package**
SP   **Shelf Package**
SZ   **Syringe**
UN   **Unit**
        Use UN for pill counts or for partials.
VI   **Vial**

Use any appropriate code from data element 355, as agreed by the trading partners.

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	PO4 04	**103**	**Packaging Code** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	C	AN 3/5	1
Used	PO4 05	**187**	**Weight Qualifier** Code defining the type of weight	O	ID 1/2	1
Used	PO4 06	**384**	**Gross Weight per Pack** Numeric value of gross weight per pack	C	R 1/9	1
Used	PO4 07	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID 2/2	1
Must Use	PO4 08	**385**	**Gross Volume per Pack** Numeric value of gross volume per pack	C	R 1/9	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	PO4 09	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **CC** **Cubic Centimeter** **CF** **Cubic Feet** **CI** **Cubic Inches** **CR** **Cubic Meter** **CY** **Cubic Yard**	C	ID 2/2	1
Used	PO4 10	**82**	**Length** Largest horizontal dimension of an object measured when the object is in the upright position	C	R 1/8	1
Used	PO4 11	**189**	**Width** Shorter measurement of the two horizontal dimensions measured with the object in the upright position	C	R 1/8	1
Used	PO4 12	**65**	**Height** Vertical dimension of an object measured when the object is in the upright position	C	R 1/8	1
Used	PO4 13	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **CM** **Centimeter** **IN** **Inch** **MM** **Millimeter**	C	ID 2/2	1
Used	PO4 14	**810**	**Inner Pack** The number of eaches per inner container	O	N0 1/6	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Inner Pack Level**
Repeat:	**200000**
Notes:	**Used for Inner Packs that have their own unique identifier.**

Segment:	**REF**	**Reference Identification**
Requirement:	O	
Max Use:	>1	
Purpose:	To specify identifying information	

Syntax Notes:
1. R0203 Required

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

Notes: **Use REF only for serialization, using GS1 EPC.**

Example: **REF*SE**urn:epc:id:sgtin:0309440.149101.5201~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
			SE **Serial Number**			
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content	C	AN 1/80	1
			Serial Number in GS1 EPC format.			

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Inner Pack Level**
Repeat:	**200000**
Notes:	**Used for Inner Packs that have their own unique identifier.**

Segment:	**MAN Marks and Numbers**
Requirement:	O
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers

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.

Syntax Notes:
1. P0405 Paired Multiple
2. C0605 Conditional

Semantic Notes:
1. 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.

Example: **MAN*AI*00333444555666777883~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	MAN 01	**88**	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and Numbers (87)	M	ID 1/2	1
			AI **UCC/EAN-128 Application Identifier (AI) and Data**			
Used	MAN 02	**87**	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment	M	AN 1/48	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Inner Pack Level**
Repeat:	**200000**
Notes:	**Used for Inner Packs that have their own unique identifier.**

Segment:	**MAN Marks and Numbers**
Requirement:	O
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers

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.

Syntax Notes:
1. P0405 Paired Multiple
2. C0605 Conditional

Semantic Notes:
1. 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.

Example: **MAN*GM*00333444555666777883**~

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	MAN 01	**88**	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and Numbers (87)	M	ID 1/2	1
			GM　　**SSCC-18 and Application Identifier**			
Used	MAN 02	**87**	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment	M	AN 1/48	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Inner Pack Level**
Repeat:	**200000**
Notes:	**Used for Inner Packs that have their own unique identifier.**

Segment:	**DTM　Date/Time Reference**
Requirement:	O
Max Use:	10
Purpose:	To specify pertinent dates and times

Syntax Notes:
1. R020305 Required
2. C0403 Conditional
3. P0506 Paired Multiple

Notes:　**Only Applicable for Single (homogeneous) SKU Full Inner Pack**

Example:　**DTM*208*20140225~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3	1
			208　　**Lot Number Expiration**			
Used	DTM02	**373**	**Date** Date expressed as CCYYMMDD	C	DT 8/8	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Segment:	**HL Hierarchical Level**
Requirement:	M
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments

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.

Example:	**HL*5*4*I*0~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	HL 01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN 1/12	1
Used	HL 02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN 1/12	1
Must Use	HL 03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure	M	ID 1/2	1
			I Item			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	HL 04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID 1/1	1
			0 **No Subordinate HL Segment in This Hierarchical Structure.**			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Segment:	**LIN Item Identification**
Requirement:	O
Max Use:	1
Purpose:	To specify basic item identification data

Comments
1. See the Data Dictionary for a complete list of IDs.
2. 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.

Syntax Notes:
1. P0405 Paired Multiple
2. P0607 Paired Multiple
3. P0809 Paired Multiple
4. P1011 Paired Multiple
5. P1213 Paired Multiple
6. P1415 Paired Multiple
7. P1617 Paired Multiple
8. P1819 Paired Multiple
9. P2021 Paired Multiple
10. P2223 Paired Multiple
11. P2425 Paired Multiple
12. P2627 Paired Multiple
13. P2829 Paired Multiple
14. P3031 Paired Multiple

Semantic Notes:
1. LIN01 is the line item identification

Notes:	**This segment is used to communicate NDC and Lot Number Transaction Information for DSCSA.**
Example:	**LIN**N4*05553333222*LT*BR109876~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	LIN 01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set ASN Line Number or Original PO Line Number	O	AN 1/20	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	LIN 02	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	M	ID 2/2	1

	LT	**Lot Number**	
	MF	**Manufacturer**	
	N1	**National Drug Code in 4-4-2 Format** 4-digit manufacturer ID, 4-digit product ID, 2-digit trade package size	
	N2	**National Drug Code in 5-3-2 Format** 5-digit manufacturer ID, 3-digit product ID, 2-digit trade package size	
	N3	**National Drug Code in 5-4-1 Format** 5-digit manufacturer ID, 4-digit product ID, 1-digit trade package size	
	N4	**National Drug Code in 5-4-2 Format** 5-digit manufacturer ID, 4-digit product ID, 2-digit trade package size	
	ND	**National Drug Code (NDC)**	
	N5	**National Health Related Item Code in 5-5 Format**	
	N6	**National Health Related Item Code in 4-6 Format**	
	NH	**National Health Related Item Code**	
	UA	**U.P.C./EAN Case Code (2-5-5)** Retired from use by GS1-US.	
	UI	**U.P.C. Consumer Package Code (1-5-5)** Retired from use by GS1-US.	
	UK	**U.P.C./EAN Shipping Container Code (1-2-5-5-1)** Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)	
	UP	**U.P.C. Consumer Package Code (1-5-5-1)** 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.)	
	UX	**Universal Product Number** A unique identifier of a healthcare product	
	VC	**Vendor's (Seller's) Catalog Number**	

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	LIN 03	**234**	**Product/Service ID** Identifying number for a product or service	M	AN 1/48	1
Used	LIN 04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 05	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 06	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Used	LIN 07	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 08	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 09	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 10	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 11	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 12	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 13	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 14	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 15	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 16	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 17	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 18	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 19	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1
Used	LIN 20	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	C	ID 2/2	1
Used	LIN 21	**234**	**Product/Service ID** Identifying number for a product or service	C	AN 1/48	1

REF Segment Tag and Position Number
ID Element ID
REQ Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Segment:	**SN1 Item Detail (Shipment)**
Requirement:	O
Max Use:	1
Purpose:	To specify line-item detail relative to shipment

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

Syntax Notes:
1. P0506 Paired Multiple

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

Notes: **This segment can be used to communicate number of containers for Transaction Information for DSCSA.**

Example: **SN1**50*EA~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	SN1 01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set ASN Line Number or Original PO Line Number, as referenced in LIN01	O	AN 1/20	1
Must Use	SN1 02	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R 1/10	1
Must Use	SN1 03	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID 2/2	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
			AM **Ampoule**			
			BO **Bottle**			
			BX **Box**			
			CA **Case**			
			CH **Container**			
			CT **Carton**			
			DZ **Dozen**			
			EA **Each**			
			GS **Gross**			
			KT **Kit**			
			OZ **Ounce - Av**			
			P1 **Percent**			
			PC **Piece**			
			PF **Pallet (Lift)**			
			PK **Package**			
			SP **Shelf Package**			
			SZ **Syringe**			
			UN **Unit** Use UN for pill counts or for partials.			
			VI **Vial**			
			Use any appropriate code from data element 355, as agreed by the trading partners.			
Used	SN1 04	**646**	**Quantity Shipped to Date** Number of units shipped to date	O	R 1/15	1
Used	SN1 05	**330**	**Quantity Ordered** Quantity ordered	C	R 1/15	1
Used	SN1 06	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID 2/2	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
		AM	Ampoule			
		BO	Bottle			
		BX	Box			
		CA	Case			
		CH	Container			
		CT	Carton			
		DZ	Dozen			
		EA	Each			
		GS	Gross			
		KT	Kit			
		OZ	Ounce - Av			
		P1	Percent			
		PC	Piece			
		PF	Pallet (Lift)			
		PK	Package			
		SP	Shelf Package			
		SZ	Syringe			
		UN	Unit			
			Use UN for pill counts or for partials.			
		VI	Vial			

Use any appropriate code from data element 355, as agreed by the trading partners.

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop: **Item Level**
Repeat: **200000**

Segment: **PID** **Product/Item Description**
Requirement: O
Max Use: 200
Purpose: To describe a product or process in coded or free-form format

Comments
1. 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.
3. PID07 specifies the individual code list of the agency specified in PID03.

Syntax Notes:
1. C0403 Conditional
2. R0405 Required
3. C0703 Conditional
4. C0804 Conditional
5. C0905 Conditional

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.
3. 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.
4. PID09 is used to identify the language being used in PID05.

Notes: **This segment can be used to convey product name, strength, dosage form and container size to support Transaction Information for DSCSA.**

Example: **PID*F****IBUPROFEN TABLETS 300 MG 70~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	PID 01	**349**	**Item Description Type** Code indicating the format of a description **F** **Free-form**	M	ID 1/1	1
Used	PID 02	**750**	**Product/Process Characteristic Code** Code identifying the general class of a product or process characteristic	O	ID 2/3	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	PID 03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values	C	ID 2/2	1
Used	PID 04	**751**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic	C	AN 1/12	1
Must Use	PID 05	**352**	**Description** A free-form description to clarify the related data elements and their content The description should contain prescription (Rx) drug product information, such as product name, strength, dosage form, and container size.	C	AN 1/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	>1
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Notes: **Used for consolidated billing invoicing – multiple invoices per shipment.**

Example: **REF*IV*222333444~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
			IV Seller's Invoice Number			
Used	REF 02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN 1/30	1

REF	Segment Tag and Position Number	
ID	Element ID	
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)	
REPR	Elements Representation	

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Loop:	**Item Level**
Repeat:	**200000**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	>1
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Notes: **Use REF only for serialization, using GS1 EPC.**

Example: **REF*SE**urn:epc:id:sgtin:0300333.987654.3212~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3	1
			SE Serial Number			
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content	C	AN 1/80	1
			Serial Number in GS1 EPC format.			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Segment:	**DTM Date/Time Reference**
Requirement:	O
Max Use:	10
Purpose:	To specify pertinent dates and times

Syntax Notes:
1. R020305 Required
2. C0403 Conditional
3. P0506 Paired Multiple

Example:	**DTM*208*20150130~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3	1
		208	**Lot Number Expiration**			
Must Use	DTM02	**373**	**Date** Date expressed as CCYYMMDD	C	DT 8/8	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Loop:	**N1-N3-N4-REF**
Repeat:	**200**
Notes:	**The following segment is used to convey Transaction History (TH) for DSCSA.**

Segment:	**N1 Name**
Requirement:	M
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code

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.

Syntax Notes:
1. R0203 Required
2. P0304 Paired Multiple

Example:	**N1*MF*BRICK PHARMACEUTICALS*UL*0312345000011~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N1 01	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M	ID 2/3	1
			DS **Distributor** Exclusive Distributor			
			MF **Manufacturer of Goods** Original manufacturer			
			SU **Supplier/Manufacturer** Use for Supplier or Distributor for Indirect Shipments			
Must Use	N1 02	**93**	**Name** Free-form name This is the legal company name.	C	AN 1/60	1
Used	N1 03	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	C	ID 1/2	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
		1	**D-U-N-S Number, Dun & Bradstreet**			
		9	**D-U-N-S+4, D-U-N-S Number with Four Character Suffix**			
		11	**Drug Enforcement Administration (DEA)**			
		21	**Health Industry Number (HIN)**			
		91	**Assigned by Seller or Seller's Agent**			
		92	**Assigned by Buyer or Buyer's Agent**			
		UL	**UCC/EAN Location Code**			
			Used for GS1-US Global Location Number (GLN). Standard 13-digit GLNs are used in business to business transactions. The UL qualifier does not support the serialized GLN unless the serial number is truncated from the serialized GLN to result in the standard 13-digit GLN.			
Used	N1 04	**67**	**Identification Code** Code identifying a party or other code	C	AN 2/80	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Loop:	**N1-N3-N4-REF**
Repeat:	**200**
Notes:	**The following segment is used to convey Transaction History (TH) for DSCSA.**

Segment:	**N3 Address Information**
Requirement:	O
Max Use:	2
Purpose:	To specify the location of the named party
Example:	**N3*456 MAIN STREET~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	N3 01	**166**	**Address Information** Address information	M	AN 1/55	1
Used	N3 02	**166**	**Address Information** Address information	O	AN 1/55	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Loop:	**N1-N3-N4-REF**
Repeat:	**200**
Notes:	**The following segment is used to convey Transaction History (TH) for DSCSA.**

Segment:	**N4** **Geographic Location**
Requirement:	O
Max Use:	1
Purpose:	To specify the geographic place of the named party

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.

Syntax Notes:
1. C0605 Conditional

Example:	**N4*CLEVELAND*OH*44114~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Used	N4 01	**19**	**City Name** Free-form text for city name	O	AN 2/30	1
Used	N4 02	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	O	ID 2/2	1
Used	N4 03	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID 3/15	1
Used	N4 04	**26**	**Country Code** Code identifying the country	O	ID 2/3	1
Used	N4 05	**309**	**Location Qualifier** Code identifying type of location If used, qualifier is subject to trading partner agreement.	C	ID 1/2	1
Used	N4 06	**310**	**Location Identifier** Code which identifies a specific location	O	AN 1/30	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Loop:	**N1-N3-N4-REF**
Repeat:	**200**
Notes:	**The following segment is used to convey Transaction History (TH) for DSCSA.**

Segment:	**REF Reference Identification**
Requirement:	O
Max Use:	12
Purpose:	To specify identifying information

Syntax Notes:
1. R0203 Required

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

Example: **REF*KK*20140128*1832050~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	REF 01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **KK** **Delivery Reference**	M	ID 2/3	1
Used	REF 02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier **Delivery Reference Date**	C	AN 1/30	1
Used	REF 03	**352**	**Description** A free-form description to clarify the related data elements and their content **Advance Ship Notice Reference Number**	C	AN 1/80	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Loop:	**Item Level**
Repeat:	**200000**

Segment:	**YNQ Yes/No Question**
Requirement:	O
Max Use:	10
Purpose:	To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

Syntax Notes:
1. E010910 Exclusion
2. P0304 Paired Multiple
3. C0908 Conditional

Semantic Notes:
1. YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
2. YNQ10 contains a free-form question when codified questions are not available.

Notes:	**The purpose of the YNQ segment at the Item Level is to indicate that the Direct Purchase Statement established at the Shipment Level applies or that a Direct Purchase Statement was received.**
Example:	**YNQ**Y******99*DIR~**

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	YNQ 02	**1073**	**Yes/No Condition or Response Code** Code indicating a Yes or No condition or response	M	ID 1/1	1
			Y **Yes** "Y" indicates that the direct purchase statement applies or that a direct purchase statement has been received.			
Must Use	YNQ 08	**1270**	**Code List Qualifier Code** Code identifying a specific industry code list	C	ID 1/3	1
			99 **Purpose Code**			
Must Use	YNQ 09	**1271**	**Industry Code** Code indicating a code from a specific industry code list	C	AN 1/30	1
			DIR **Product Purchased Directly** **RDPS** **Received Direct Purchase Statement**			

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Segment:	**CTT Transaction Totals**
Requirement:	O
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set

Comments
1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Syntax Notes:
1. P0304 Paired Multiple
2. P0506 Paired Multiple

Example: CTT*5*12345~

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	CTT 01	**354**	**Number of Line Items** Total number of line items in the transaction set On the 856 document, this value represents the number of HL Segments in the transaction set, not the number of actual line items, as stated in the Transaction Set Notes.	M	N0 1/6	1

Used	CTT 02	**347**	**Hash Total**
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs.
			Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.
			
			Example:
			-.0018 First occurrence of value being hashed.
			   .18 Second occurrence of value being hashed.
			  1.8 Third occurrence of value being hashed.
			 18.01 Fourth occurrence of value being hashed.
			------ 	
			  1855 Hash total prior to truncation.
			   855 Hash total after truncation to three digit field.
				O	R 1/10	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Segment:	**SE**	**Transaction Set Trailer**
Requirement:	M	
Max Use:	1	
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)	

Comments
1. SE is the last segment of each transaction set.

Example: **SE*63*0121**~

ELEMENT SUMMARY

USAGE	REF	ID	ELEMENT NAME	REQ	REPR	REP
Must Use	SE 01	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	M	N0 1/10	1
Must Use	SE 02	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN 4/9	1

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Business Use Case Examples

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Example 1: Direct Purchase Scenario – Manufacturer to Distributor – Ship Notice for product sent by a manufacturer to a distributor where both parties are authorized as required under the Drug Supply Chain Security Act (DSCSA). This initial transaction initiates the "Transaction History" that will be used on all subsequent transactions where the product's ownership changes. In the following example the "Transaction Statement" housed in the YNQ segment is a simplified statement of compliance to which the trading partners have agreed.

Note: The content and other requirements for the transaction statement will not be known until additional FDA guidance is released, which is expected in November 2014.

The manufacturer, Brick Pharmaceutical, is sending an Advance Ship Notice (ASN) to the distributor, Mountain Wholesale Drug, to provide information regarding the order shipment. The ASN also facilitates the transfer of information from the manufacturer to the purchaser as required by the DSCSA. In accordance with the law the purchaser must receive this information prior to or at the time ownership is claimed.

Brick Pharmaceutical is both Ship From and Seller
      GS1 Company Prefix = 0309999
      HIN is HIN123400 and GLN is 0309999234565
Mountain Wholesale is both Ship To and Buyer
      HIN is HIN567800 and GLN is 0367891234564

The pertinent shipment information is summarized below:
Bill of Lading Number C28785100029
Shipment Date 04/28/2014
Expected Delivery Date 04/29/2014
Purchase Order Number PO29878
Purchase Order Date 02/02/14
Carrier Common Carrier UPSC

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Sequential Segment Layout — Example 1

The following is a narrative of each segment. The number on the left corresponds to the segment number.

Seg. No.	Segment Name	Data Values
1	**TRANSACTION SET HEADER**	**ST**
ST01	Transaction Set ID Code	856
ST02	Transaction Set Control Number	0102
2	**BEGINNING SEGMENT**	**BSN**
BSN01	Transaction Set Purpose Code *(Original)*	00
BSN02	Shipment Identification	1832050-000114823
BSN03	Date *(CCYYMMDD)*	20140428
BSN04	Time	110056
3	**HIERARCHICAL LEVEL**	**HL**
HL01	Hierarchical ID Number	1
HL03	Hierarchical Level Code *(Shipment)*	S
HL04	Hierarchical Child Code *(Additional Subordinate HL Data Segment in this Hierarchical Structure)*	1
4	**CARRIER DETAILS (QUANTITY AND WEIGHT)**	**TD1**
TD101	Packaging Code *(Carton)*	CTN
TD102	Lading Quantity	1
TD106	Weight Qualifier *(Gross Weight)*	G
TD107	Weight	36
TD108	Unit or Basis for Measurement Code *(Pound)*	LB
5	**CARRIER DETAILS (ROUTING SEQUENCE/TRANSIT TIME)**	**TD5**
TD502	ID Code Qualifier *(Standard Carrier Alpha Code (SCAC))*	2
TD503	ID Code	UPSC
6	**REFERENCE IDENTIFICATION**	**REF**
REF01	Reference Identification Qualifier *(Bill of Lading Number)*	BM
REF02	Reference Identification	C28785100029
7	**DATE/TIME REFERENCE**	**DTM**
DTM01	Date/Time Qualifier *(Shipped)*	011

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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DTM02	Date *(CCYYMMDD)*	20140428
8	**DATE/TIME REFERENCE**	**DTM**
DTM01	Date/Time Qualifier *(Current Schedule Delivery)*	067
DTM02	Date *(CCYYMMDD)*	20140429
9	**NAME**	**N1**
N101	Entity ID Code *(Ship To)*	ST
N102	Name	MOUNTAIN WHOLESALE
N103	ID Code Qualifier *(GLN)*	UL
N104	ID Code	0367891234564
10	**ADDRESS INFORMATION**	**N3**
N301	Address Information	219 MAIN STREET
11	**GEOGRAPHIC LOCATION**	**N4**
N401	City Name	CHICAGO
N402	State or Province Code	IL
N403	Postal Code	60614
12	**NAME**	**N1**
N101	Entity ID Code *(Buyer)*	BY
N102	Name	MOUNTAIN WHOLESALE
N103	ID Code Qualifier *(GLN)*	UL
N104	ID Code	0367891234564
13	**ADDRESS INFORMATION**	**N3**
N301	Address Information	219 MAIN STREET
14	**GEOGRAPHIC LOCATION**	**N4**
N401	City Name	CHICAGO
N402	State or Province Code	IL
N403	Postal Code	60614
15	**NAME**	**N1**
N101	Entity ID Code *(Ship From)*	SF
N102	Name	BRICK PHARMACEUTICAL
N103	ID Code Qualifier *(GLN)*	UL
N104	ID Code	0309999234565
16	**ADDRESS INFORMATION**	**N3**
N301	Address Information	1 BAKER BLVD
17	**GEOGRAPHIC LOCATION**	**N4**
N401	City Name	AURORA
N402	State or Province Code	IL
N403	Postal Code	60625

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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18	**NAME**	**N1**
N101	Entity ID Code *(Seller)*	SE
N102	Name	BRICK PHARMACEUTICAL
N103	ID Code Qualifier *(GLN)*	UL
N104	ID Code	0309999234565

19	**ADDRESS INFORMATION**	**N3**
N301	Address Information	1 BAKER BLVD

20	**GEOGRAPHIC LOCATION**	**N4**
N401	City Name	AURORA
N402	State or Province Code	IL
N403	Postal Code	60625

21	**YES/NO QUESTION**	**YNQ**
YNQ02	Yes/No Condition or Response Code	Y
YNQ05	Free Format Message Text	Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G).
YNQ08	Code List Qualifier Code *(Purpose Code)*	99
YNQ09	Industry Code *(Transaction Statement)*	TS

22	**HIERARCHICAL LEVEL**	**HL**
HL01	Hierarchical ID Number	2
HL02	Hierarchical Parent ID Number	1
HL03	Hierarchical Level Code *(Order Level)*	O
HL04	Hierarchical Child Code *(Additional Subordinate HL Data Segment in this Hierarchical Structure)*	1

23	**PURCHASE ORDER REFERENCE**	**PRF**
PRF01	Purchase Order Number	PO29878
PRF04	Date	20140202

24	**HIERARCHICAL LEVEL**	**HL**
HL01	Hierarchical ID Number	3
HL02	Hierarchical Parent ID Number	2
HL03	Hierarchical Level Code *(Pack)*	P
HL04	Hierarchical Child Code *(Additional Subordinate HL Data Segment in this Hierarchical Structure)*	1

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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25	**MARKS AND NUMBERS**	**MAN**
MAN01	Marks and Numbers Qualifier *(SSCC and Application Identifier)*	GM
MAN02	Marks and Numbers *(for logistical movements only)*	00103099991234567921

26	**HIERARCHICAL LEVEL**	**HL**
HL01	Hierarchical ID Number	4
HL02	Hierarchical Parent ID Number	3
HL03	Hierarchical Level Code *(Item)*	I
HL04	Hierarchical Child Code *(No Subordinate HL Data Segment in this Hierarchical Structure)*	0

27	**ITEM IDENTIFICATION**	**LIN**
LIN01	Assigned Identification	0001
LIN02	Product/Service ID Qualifier *(NDC)*	N4
LIN03	Product/Service ID	09999166272
LIN04	Product/Service ID Qualifier *(Lot Number)*	LT
LIN05	Product/Service ID	418053C

28	**ITEM DETAIL (SHIPMENT)**	**SN1**
SN101	Assigned Identification	0001
SN102	Number of Units Shipped	72
SN103	Unit or Basis for Measurement Code *(Each)*	EA
SN104	Quantity Shipped to Date	72
SN105	Quantity Ordered	72
SN106	Unit or Basis for Measurement Code *(Each)*	EA

29	**Product/Item Description**	**PID**
PID01	Item Description Type *(Free Form)*	F
PID05	Description	IBUPROFEN TABLETS 300 MG 70

30	**DATE/TIME REFERENCE**	**DTM**
DTM01	Date/Time Qualifier *(Lot Number Expiration)*	208
DTM02	Date *(CCYYMMDD)*	20150531

31	**TRANSACTION TOTALS**	**CTT**
CTT01	Number of HL Segments	4

32	**TRANSACTION SET TRAILER**	**SE**
SE01	Number of Included Segments	32
SE02	Transaction Set Control Number	0102

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Transmission File — Example 1

Seg.No.	Segment Data
1	ST*856*0102~
2	BSN*00*1832050-000114823*20140428*110056~
3	HL*1**S*1~
4	TD1*CTN*1****G*36*LB~
5	TD5**2*UPSC~
6	REF*BM* C28785100029~
7	DTM*011*20140428~
8	DTM*067*20140429~
9	N1*ST*MOUNTAIN WHOLESALE*UL*0367891234564~
10	N3*219 MAIN STREET~
11	N4*CHICAGO*IL*60614~
12	N1*BY*MOUNTAIN WHOLESALE*UL*0367891234564~
13	N3*219 MAIN STREET~
14	N4*CHICAGO*IL*60614~
15	N1*SF*BRICK PHARMACEUTICAL*UL*0309999234565~
16	N3*1 BAKER BLVD~
17	N4*AURORA*IL*60625~
18	N1*SE*BRICK PHARMACEUTICAL*UL*0309999234565~
19	N3*1 BAKER BLVD~
20	N4*AURORA*IL*60625~
21	YNQ**Y***Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G).***99*TS~
22	HL*2*1*O*1~
23	PRF* PO29878***20140202~
24	HL*3*2*P*1~
25	MAN*GM*00103099991234567921~
26	HL*4*3*I*0~
27	LIN*0001*N4*09999166272*LT*418053C~
28	SN1*0001*72*EA*72*72*EA~
29	PID*F****IBUPROFEN TABLETS 300 MG 70~
30	DTM*208*20150531~
31	CTT*4~
32	SE*32*0102~

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Example 2: Multiple Distributor Purchase Scenario – Distributor to Distributor – Ship Notice for product sent by a distributor to a subsequent distributor that will ultimately sell to the dispenser, where both distributors are authorized as required under the DSCSA. The product was purchased directly from the original manufacturer, so omission of the lot number is allowed through the DSCSA. Although lot number is not required in this example, trading partners may find it a helpful way to exchange information. In the following example the "Transaction Statement" housed in the YNQ segment is a simplified statement of compliance to which the trading partners have agreed.

Note: The content and other requirements for the transaction statement will not be known until additional FDA guidance is released, which is expected in November 2014.

Mountain Wholesale purchased the products directly from the original manufacturer Brick Pharmaceutical, but Mountain Wholesale is not an exclusive distributor. Mountain Wholesale is now shipping to FRD Distributor. Mountain Wholesale at the time of shipment will create an 856 (ASN) for FRD Distributor containing the required DSCSA information. At the item level of this ASN, you will find an N1 loop for the original manufacturer (Brick Pharmaceutical). This N1 loop is for "Transaction History."

Brick Pharmaceutical is the Original Manufacturer
       GS1 Company Prefix = 0309999 (Item MF)
       HIN is HIN123400 and GLN is 0309999234565
Mountain Wholesale is both the Ship From and Seller
       HIN is HIN567800
       GLN is 0367891234564
FRD Distributor is both the Ship To and Buyer
       GLN is 0358743247214

The pertinent shipment information is summarized below:
Bill of Lading Number 1832050-000115111
Shipment Date 04/30/2014
Expected Delivery Date 05/01/2014
Purchase Order Number PO12125
Purchase Order Date 02/15/14
Carrier Common Carrier UPSC

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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Sequential Segment Layout — Example 2

The following is a narrative of each segment. The number on the left corresponds to the segment number.

Seg. No.	Segment Name	Data Values
1	**TRANSACTION SET HEADER**	**ST**
ST01	Transaction Set ID Code	856
ST02	Transaction Set Control Number	0102
2	**BEGINNING SEGMENT**	**BSN**
BSN01	Transaction Set Purpose Code *(Original)*	00
BSN02	Shipment Identification	1832050-000115111
BSN03	Date *(CCYYMMDD)*	20140428
BSN04	Time	110056
3	**HIERARCHICAL LEVEL**	**HL**
HL01	Hierarchical ID Number	1
HL03	Hierarchical Level Code *(Shipment)*	S
HL04	Hierarchical Child Code *(Additional Subordinate HL Data Segment in this Hierarchical Structure)*	1
4	**CARRIER DETAILS (QUANTITY AND WEIGHT)**	**TD1**
TD101	Packaging Code *(Carton)*	CTN
TD102	Lading Quantity	1
TD106	Weight Qualifier *(Gross Weight)*	G
TD107	Weight	36
TD108	Unit or Basis for Measurement Code *(Pound)*	LB
5	**CARRIER DETAILS (ROUTING SEQUENCE/TRANSIT TIME)**	**TD5**
TD502	ID Code Qualifier *(Standard Carrier Alpha Code (SCAC))*	2
TD503	ID Code	UPSC
6	**REFERENCE IDENTIFICATION**	**REF**
REF01	Reference Identification Qualifier *(Bill of Lading Number)*	BM
REF02	Reference Identification	1832050-000115111
7	**DATE/TIME REFERENCE**	**DTM**
DTM01	Date/Time Qualifier *(Shipped)*	011
DTM02	Date *(CCYYMMDD)*	201400430

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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8	DATE/TIME REFERENCE	DTM
DTM01	Date/Time Qualifier	067
	(Current Schedule Delivery)	
DTM02	Date *(CCYYMMDD)*	20140501

9	NAME	N1
N101	Entity ID Code *(Ship To)*	ST
N102	Name	FRD DISTRIBUTOR
N103	ID Code Qualifier *(GLN)*	UL
N104	ID Code	0358743247214

10	ADDRESS INFORMATION	N3
N301	Address Information	423 OAK STREET

11	GEOGRAPHIC LOCATION	N4
N401	City Name	CHICAGO
N402	State or Province Code	IL
N403	Postal Code	60614

12	NAME	N1
N101	Entity ID Code *(Buyer)*	BY
N102	Name	FRD DISTRIBUTOR
N103	ID Code Qualifier *(GLN)*	UL
N104	ID Code	0358743247214

13	ADDRESS INFORMATION	N3
N301	Address Information	423 OAK STREET

14	GEOGRAPHIC LOCATION	N4
N401	City Name	CHICAGO
N402	State or Province Code	IL
N403	Postal Code	60614

15	NAME	N1
N101	Entity ID Code *(Ship From)*	SF
N102	Name	MOUNTAIN WHOLESALE
N103	ID Code Qualifier *(GLN)*	UL
N104	ID Code	0367891234564

16	ADDRESS INFORMATION	N3
N301	Address Information	219 MAIN STREET

17	GEOGRAPHIC LOCATION	N4
N401	City Name	CHICAGO
N402	State or Province Code	IL
N403	Postal Code	60614

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

CHDMA

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18	NAME	N1
N101	Entity ID Code (Seller)	SE
N102	Name	MOUNTAIN WHOLESALE
N103	ID Code Qualifier (GLN)	UL
N104	ID Code	0367891234564

19	ADDRESS INFORMATION	N3
N301	Address Information	219 MAIN STREET

20	GEOGRAPHIC LOCATION	N4
N401	City Name	CHICAGO
N402	State or Province Code	IL
N403	Postal Code	60614

21	YES/NO QUESTION	YNQ
YNQ02	Yes/No Condition or Response Code	Y
YNQ05	Free Format Message Text	Seller has complied with each applicable subsection of FDCA Sec.581(27)(A)–(G).
YNQ08	Code List Qualifier Code (Purpose Code)	99
YNQ09	Industry Code (Transaction Statement)	TS

22	YES/NO QUESTION	YNQ
YNQ02	Yes/No Condition or Response Code	Y
YNQ05	Free Format Message Text	As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer.
YNQ08	Code List Qualifier Code (Purpose Code)	99
YNQ09	Industry Code (Direct Purchase Statement)	DPS

23	HIERARCHICAL LEVEL	HL
HL01	Hierarchical ID Number	2
HL02	Hierarchical Parent ID Number	1
HL03	Hierarchical Level Code (Order Level)	O
HL04	Hierarchical Child Code (Additional Subordinate HL Data Segment in this Hierarchical Structure)	1

24	PURCHASE ORDER REFERENCE	PRF
PRF01	Purchase Order Number	PO12125
PRF04	Date	20140215

REF   Segment Tag and Position Number
ID   Element ID
REQ   Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR   Elements Representation

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25	**HIERARCHICAL LEVEL**	**HL**
HL01	Hierarchical ID Number	3
HL02	Hierarchical Parent ID Number	2
HL03	Hierarchical Level Code *(Pack)*	P
HL04	Hierarchical Child Code	1
	(Additional Subordinate HL Data Segment in this Hierarchical Structure)	

26	**MARKS AND NUMBERS**	**MAN**
MAN01	Marks and Numbers Qualifier	GM
	(SSCC and Application Identifier)	
MAN02	Marks and Numbers	00103678912456789879
	(for logistical movements only)	

27	**HIERARCHICAL LEVEL**	**HL**
HL01	Hierarchical ID Number	4
HL02	Hierarchical Parent ID Number	3
HL03	Hierarchical Level Code *(Item)*	I
HL04	Hierarchical Child Code	0
	(No Subordinate HL Data Segment in this Hierarchical Structure)	

28	**ITEM IDENTIFICATION**	**LIN**
LIN01	Assigned Identification	0001
LIN02	Product/Service ID Qualifier *(NDC)*	N4
LIN03	Product/Service ID	09999166272

29	**ITEM DETAIL (SHIPMENT)**	**SN1**
SN101	Assigned Identification	0001
SN102	Number of Units Shipped	72
SN103	Unit or Basis for Measurement Code *(Each)*	EA
SN104	Quantity Shipped to Date	72
SN105	Quantity Ordered	72
SN106	Unit or Basis for Measurement Code *(Each)*	EA

30	**Product/Item Description**	**PID**
PID01	Item Description Type *(Free Form)*	F
PID05	Description	IBUPROFEN TABLETS 300 MG 70

31	**DATE/TIME REFERENCE**	**DTM**
DTM01	Date/Time Qualifier *(Lot Number Expiration)*	208
DTM02	Date *(CCYYMMDD)*	20150531

REF	Segment Tag and Position Number
ID	Element ID
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32	**NAME**	**N1**
N101	Entity ID Code *(Original Manufacturer)*	MF
N102	Name	BRICK PHARMACEUTICAL
N103	ID Code Qualifier *(GLN)*	UL
N104	ID Code	0309999234565

33	**ADDRESS INFORMATION**	**N3**
N301	Address Information	1 BAKER BLVD

34	**GEOGRAPHIC LOCATION**	**N4**
N401	City Name	AURORA
N402	State or Province Code	IL
N403	Postal Code	60625

35	**REFERENCE IDENTIFICATION**	**REF**
REF01	Reference Identification Qualifier *(Delivery Reference)*	KK
REF02	Reference Identification	2010428
REF03	Description	1832050-000114823

36	**YES/NO QUESTION**	**YNQ**
YNQ02	Yes/No Condition or Response Code	Y
YNQ08	Code List Qualifier Code *(Purpose Code)*	99
YNQ09	Industry Code *(Product Purchased Directly)*	DIR

37	**TRANSACTION TOTALS**	**CTT**
CTT01	Number of HL Segments	4

38	**TRANSACTION SET TRAILER**	**SE**
SE01	Number of Included Segments	38
SE02	Transaction Set Control Number	0102

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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Transmission File — Example 2

Seg.No.	Segment Data
1	ST*856*0102~
2	BSN*00*1832050-000115111*20140428*110056~
3	HL*1**S*1~
4	TD1*CTN*1****G*36*LB~
5	TD5*O*2*UPSC~
6	REF*BM*1832050-000115111~
7	DTM*011*20140430~
8	DTM*067*20140501~
9	N1*ST*FRD DISTRIBUTOR*UL*0358743247214~
10	N3*423 OAK STREET~
11	N4*CHICAGO*IL*60614~
12	N1*BY*FRD DISTRIBUTOR*UL*0358743247214~
13	N3*423 OAK STREET~
14	N4*CHICAGO*IL*60614~
15	N1*SF* MOUNTAIN WHOLESALE*UL*0367891234564~
16	N3*219 MAIN STREET~
17	N4* CHICAGO*IL*60614~
18	N1*SE* MOUNTAIN WHOLESALE*UL*0367891234564~
19	N3*219 MAIN STREET~
20	N4* CHICAGO*IL*60614~
21	YNQ**Y***Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G)***99*TS~.
22	YNQ**Y***As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer***99*DPS~
23	HL*2*1*O*1~
24	PRF* PO12125***20140215~
25	HL*3*2*T*1~
26	MAN*GM*00103678912456789879~
27	HL*4*3*I*0~
28	LIN*0001*N4*09999166272~
29	SN1*0001*72*EA*72*72*EA~
30	PID*F****IBUPROFEN TABLETS 300MG 70~
31	DTM*208*20150531~
32	N1*MF*BRICK PHARMACEUTICAL*UL*0309999234565~
33	N3*1 BAKER BLVD~
34	N4*AURORA*IL*60625~
35	REF*KK*2010428*1832050-000114823~
36	YNQ**Y******99*DIR~
37	CTT*4~
38	SE*38*0102~

REF	Segment Tag and Position Number
ID	Element ID
REQ	Requirement (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)
REPR	Elements Representation

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