846 Inventory Inquiry/Advice

Implementation Guideline

Version: 4010   Final

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846   Inventory Inquiry/Advice

Functional Group=IB

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

User:

Either the SDQ or QTY segment will be presented for inventory quantities.   The SDQ segment will be used when multiple warehouse locations are requested within a single transaction. The QTY segment will be used when multiple transactions are requested each containing a single warehouse location.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
010	ST	Transaction Set Header	M	1		
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1		
050	DTM	Date/Time Reference	O	10		
LOOP ID - N1					**5**	
080	N1	Name	O	1		
100	N3	Address Information	O	2		
110	N4	Geographic Location	O	1		
130	PER	Administrative Communications Contact	O	3		

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
LOOP ID - LIN					**10000**	
010	LIN	Item Identification	M	1		
030	PID	Product/Item Description	O	200		
040	MEA	Measurements	O	40		
100	DTM	Date/Time Reference	O	10		
220	SDQ	Destination Quantity	O	500		
LOOP ID - SLN					**1000**	
280	SLN	Subline Item Detail	O	1		
LOOP ID - QTY					**99**	
320	QTY	Quantity	O	1		
355	DTM	Date/Time Reference	O	10		

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
010	CTT	Transaction Totals	O	1		N3/010
020	SE	Transaction Set Trailer	M	1		

Notes:

3/010   Number of line items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (QTY02) of each QTY segment.

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Based on ANSI X12 4010   2
and CompTIA Recommendations

ST   Transaction Set Header

Pos: 010	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 2**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	1

Description: Code uniquely identifying a Transaction Set

CodeList Summary (Total Codes: 298, Included: 1)

Code	Name
846	Inventory Inquiry/Advice

Ref	Id	Element Name	Req	Type	Min/Max	Rep
ST02	329	**Transaction Set Control Number**	M	AN	4/9	1

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

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).

BIA — Beginning Segment for Inventory Inquiry/Advice

Pos: 020	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 4**

Purpose: To indicate the beginning of an Inventory Inquiry/Advice Transaction Set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
BIA01	353	**Transaction Set Purpose Code**	M	ID	2/2	1

Description: Code identifying purpose of transaction set

CodeList Summary (Total Codes: 65, Included: 2)

Code	Name
00	Original

Description: This is the first transaction set for the current period.   BIA03 is an unique number. Tech Data refers to this as a "full file" since it represents all items selected for the trading partner.

Code	Name
04	Change

Description: This is a transmission of only items that have changed since the transmission specified in BIA03.   Items not included in the transmission have not changed since the previous transmission.   Items with quantities of zero are no longer available or temporarily out of stock.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
BIA02	755	**Report Type Code**	M	ID	2/2	1

Description: Code indicating the title or contents of a document, report or supporting item

CodeList Summary (Total Codes: 522, Included: 1)

Code	Name
DD	Distributor Inventory Report

Ref	Id	Element Name	Req	Type	Min/Max	Rep
BIA03	127	**Reference Identification**	M	AN	1/30	1

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

Ref	Id	Element Name	Req	Type	Min/Max	Rep
BIA04	373	**Date**	M	DT	8/8	1

Description: Date expressed as CCYYMMDD
User: Effective Inventory Date

Semantics:

1. BIA03 identifies the number of the inquiry/advice that is transferred.
2. BIA04 identifies the date of the inquiry/advice that is transferred.
3. BIA05 identifies the time of the inquiry/advice that is transferred.

DTM   Date/Time Reference

<div style="float:right">

Pos: 050   **Max: 10**
Heading - Optional
Loop: N/A   **Elements: 2**

</div>

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	1

    Description: Code specifying type of date or time, or both date and time

    CodeList Summary (Total Codes: 1112, Included: 1)

Code	Name
007	Effective

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM02	373	**Date**	C	DT	8/8	1

    Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06   is present, then the other is required.

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and CompTIA Recommendations

Loop Name

Pos: 080	**Repeat: 5**
	Optional
Loop: N1	**Elements: N/A**

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

User:
The "WH" loop will only be sent when multiple warehouse locations are requested.

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat
080	N1	Name	O	1	
100	N3	Address Information	O	2	
110	N4	Geographic Location	O	1	
130	PER	Administrative Communications Contact	O	3	

N1 **Name**

Pos: 080   **Max: 1**
Heading - Optional
Loop: N1   **Elements: 4**

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

User:
The "WH" loop will only be sent when multiple warehouse locations are requested.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N101	98	**Entity Identifier Code**	M	ID	2/3	1

Description: Code identifying an organizational entity, a physical location, property or an individual

CodeList Summary (Total Codes: 1312, Included: 2)

Code	Name
DS	Distributor
WH	Warehouse

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N102	93	**Name**	C	AN	1/60	1

Description: Free-form name
User: Tech Data maximum length is 35.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N103	66	**Identification Code Qualifier**	C	ID	1/2	1

Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 215, Included: 2)

Code	Name
1	D-U-N-S Number,Dun & Bradstreet
9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N104	67	**Identification Code**	C	AN	2/80	1

Description: Code identifying a party or other code
User:
DUNS when N101 is "DS"
DUNS + warehouse code when N101 is "WH"

Syntax Rules:
1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

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.

N3   Address Information

Pos: 100	**Max: 2**
Heading - Optional	
Loop: N1	**Elements: 2**

Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N301	166	**Address Information**	M	AN	1/55	1

Description: Address information
User: Tech Data maximum length is 35.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N302	166	**Address Information**	O	AN	1/55	1

Description: Address information
User: Tech Data maximum length is 35.

N4   **Geographic Location**

Pos: 110	**Max: 1**
Heading - Optional	
Loop: N1	**Elements: 5**

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N401	19	**City Name**	O	AN	2/30	1

Description: Free-form text for city name
User: Tech Data maximum length is 30.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N402	156	**State or Province Code**	O	ID	2/2	1

Description: Code (Standard State/Province) as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N403	116	**Postal Code**	O	ID	3/15	1

Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N405	309	**Location Qualifier**	C	ID	1/2	1

Description: Code identifying type of location

CodeList Summary (Total Codes: 172, Included: 1)

Code	Name
WH	Warehouse

Ref	Id	Element Name	Req	Type	Min/Max	Rep
N406	310	**Location Identifier**	O	AN	1/30	1

Description: Code which identifies a specific location
User: Tech Data warehouse code

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

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.

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PER Administrative Communications Contact

			Pos: 130		**Max: 3**
			Heading - Optional		
			Loop: N1		**Elements: 4**

Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER01	366	**Contact Function Code**	M	ID	2/2	1

Description: Code identifying the major duty or responsibility of the person or group named

CodeList Summary (Total Codes: 230, Included: 1)

Code	Name
IC	Information Contact

User:
Used only when N101 = DS

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER02	93	**Name**	O	AN	1/60	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER03	365	**Communication Number Qualifier**	C	ID	2/2	1

Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 40, Included: 1)

Code	Name
TE	Telephone

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PER04	364	**Communication Number**	C	AN	1/80	1

Description: Complete communications number including country or area code when applicable

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

Loop Item Identification

Pos: 010		**Repeat: 10000**
	Mandatory	
Loop: LIN		**Elements: N/A**

Purpose: To specify basic item identification data

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat
010	LIN	Item Identification	M	1	
030	PID	Product/Item Description	O	200	
040	MEA	Measurements	O	40	
100	DTM	Date/Time Reference	O	10	
220	SDQ	Destination Quantity	O	500	
280		Loop SLN	O		1000
320		Loop QTY	O		99

LIN   Item Identification

Pos: 010   **Max: 1**
Detail - Mandatory
Loop: LIN   **Elements: 17**

Purpose: To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN01	350	**Assigned Identification**	O	AN	1/20	1

Description: Alphanumeric characters assigned for differentiation within a transaction set
User: Line item identification

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 477, Included: 8)

Code	Name
BP	Buyer's Part Number

   Description: Buyer's part numbers can be sent if the trading partner is trading EDI 850 transactions with Tech Data and the material is setup in the cross reference table.

Code	Name
MF	Manufacturer
MG	Manufacturer's Part Number
RR	Replacement Product Number

   Description: Tech Data will send the item code "RR" when an item has been discontinued and a replacement part has been identified.

Code	Name
SR	Substitute Product Number

   Description: Tech Data will send the item code "SR" when an item is still active and there is a "suggested" substitute part identified.

Code	Name
UP	U.P.C. Consumer Package Code (1-5-5-1)
VP	Vendor's (Seller's) Part Number

   Description: Tech Data's part number

Code	Name
VX	Vendor's Specification Number

   User:
   Tech Data Commodity Code

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN03	234	**Product/Service ID**	M	AN	1/48	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN04	235	**Product/Service ID Qualifier**	C	ID	2/2	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN05	234	**Product/Service ID**	C	AN	1/48	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN06	235	**Product/Service ID Qualifier**	C	ID	2/2	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN07	234	**Product/Service ID**	C	AN	1/48	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN08	235	**Product/Service ID Qualifier**	C	ID	2/2	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN09	234	**Product/Service ID**	C	AN	1/48	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Rep
LIN10	235	**Product/Service ID Qualifier**	C	ID	2/2	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

LIN11	234	**Product/Service ID**	C	AN	1/48	1
		Description: Identifying number for a product or service				
LIN12	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
LIN13	234	**Product/Service ID**	C	AN	1/48	1
		Description: Identifying number for a product or service				
LIN14	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
LIN15	234	**Product/Service ID**	C	AN	1/48	1
		Description: Identifying number for a product or service				
LIN16	235	**Product/Service ID Qualifier**	C	ID	2/2	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
LIN17	234	**Product/Service ID**	C	AN	1/48	1
		Description: Identifying number for a product or service				

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

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.

PID Product/Item Description

Pos: 030	**Max: 200**
Detail - Optional	
Loop: LIN	**Elements: 5**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PID01	349	**Item Description Type**	M	ID	1/1	1

Description: Code indicating the format of a description

CodeList Summary (Total Codes: 3, Included: 1)

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PID02	750	**Product/Process Characteristic Code**	O	ID	2/3	1

Description: Code identifying the general class of a product or process characteristic

CodeList Summary (Total Codes: 217, Included: 1)

Code	Name
08	Product

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PID03	559	**Agency Qualifier Code**	C	ID	2/2	1

Description: Code identifying the agency assigning the code values

CodeList Summary (Total Codes: 176, Included: 1)

Code	Name
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PID04	751	**Product Description Code**	C	AN	1/12	1

Description: A code from an industry code list which provides specific data about a product characteristic
User:
1 - New
2 - Active
4 - Phased Out
5 - Allocated
7 - Tech Data Discontinued
8 - Vendor Discontinued
9 - Special Order

Ref	Id	Element Name	Req	Type	Min/Max	Rep
PID05	352	**Description**	C	AN	1/80	1

Description: A free-form description to clarify the related data elements and their content
User: Description is maximum 40 characters

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

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.

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.

MEA Measurements

<table>
<tr><td>Pos: 040</td><td>Max: 40</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: LIN</td><td>Elements: 3</td></tr>
</table>

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
MEA02	738	**Measurement Qualifier**	O	ID	1/3	1

Description: Code identifying a specific product or process characteristic to which a measurement applies

CodeList Summary (Total Codes: 920, Included: 1)

Code	Name
WT	Weight

Ref	Id	Element Name	Req	Type	Min/Max	Rep
MEA03	739	**Measurement Value**	C	R	1/20	1

Description: The value of the measurement

Ref	Id	Element Name	Req	Type	Min/Max	Rep
MEA04	C001	**Composite Unit of Measure**	C	Comp		1

Description: To identify a composite unit of measure(See Figures Appendix for examples of use)

Ref	Id	Element Name	Req	Type	Min/Max	Rep
MEA04-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
LB	Pound

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0504 - If MEA05 is present, then MEA04 is required.
3. C0604 - If MEA06 is present, then MEA04 is required.
4. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
5. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

DTM **Date/Time Reference**

Pos: 100	**Max: 10**
Detail - Optional	
Loop: LIN	**Elements: 2**

Purpose: To specify pertinent dates and times

User:
This segment is sent only when ETA dates are requested for backordered inventory items.   It is only sent when the SDQ segment is used.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	1

Description: Code specifying type of date or time, or both date and time

CodeList Summary (Total Codes: 1112, Included: 1)

Code	Name
017	Estimated Delivery

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM02	373	**Date**	C	DT	8/8	1

Description: Date expressed as CCYYMMDD
User: This date represents the estimated delivery of the item to Tech Data from the vendor.

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06   is present, then the other is required.

SDQ   **Destination Quantity**

Pos: 220	**Max: 500**
Detail - Optional	
Loop: LIN	**Elements: 4**

Purpose: To specify destination and quantity detail

User:

This segment is used to report the quantities of the specified product in each Tech Data warehouse.

Example: SDQ~EA~91~A1~10~A2~3~A3~1~A4~235~A5~6~A6~12

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SDQ01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SDQ02	66	**Identification Code Qualifier**	O	ID	1/2	1

Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 215, Included: 3)

Code	Name
54	Warehouse
91	Assigned by Seller or Seller's Agent
ZZ	Mutually Defined

> **User:**
> Sent only when ETA dates and quantites on order are requested.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SDQ03	67	**Identification Code**	M	AN	2/80	1

Description: Code identifying a party or other code
User: If SDQ02 = 91, then Tech Data's warehouse code is sent.

If SDQ02 = ZZ, then "Quantity at Date" is sent.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SDQ04	380	**Quantity**	M	R	1/15	1

Description: Numeric value of quantity
User: If SDQ02 = 91, Quantity available is sent.

If SDQ02 = ZZ, the quantity on order with the vendor that is expected to arrive at Tech Data on the date specified in the previous DTM when DTM01 = 017.

Syntax Rules:

1. P0506 - If either SDQ05 or SDQ06 is present, then the other is required.
2. P0708 - If either SDQ07 or SDQ08 is present, then the other is required.
3. P0910 - If either SDQ09 or SDQ10 is present, then the other is required.
4. P1112 - If either SDQ11 or SDQ12 is present, then the other is required.
5. P1314 - If either SDQ13 or SDQ14 is present, then the other is required.
6. P1516 - If either SDQ15 or SDQ16 is present, then the other is required.
7. P1718 - If either SDQ17 or SDQ18 is present, then the other is required.
8. P1920 - If either SDQ19 or SDQ20 is present, then the other is required.
9. P2122 - If either SDQ21 or SDQ22 is present, then the other is required.

Semantics:

1. SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and

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SDQ21.

Comments:

1. SDQ02 is used only if different than previously defined in the transaction set.
2. SDQ03 is the store number.
3. SDQ23 may be used to identify areas within a store, e.g., front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.

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Loop Subline Item Detail

Pos: 280	**Repeat: 1000**
	Optional
Loop: SLN	**Elements: N/A**

Purpose: To specify product subline detail item data

User:
This segment is only sent on change tranmissions (BIA01 = 04).

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat
280	SLN	Subline Item Detail	O	1	

SLN   Subline Item Detail

Pos: 280	**Max: 1**
Detail - Optional	
Loop: SLN	**Elements: 4**

Purpose: To specify product subline detail item data

User:
This segment is only sent on change tranmissions (BIA01 = 04).

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN01	350	**Assigned Identification**	M	AN	1/20	1

Description: Alphanumeric characters assigned for differentiation within a transaction set
User: Tech Data always formats as one (1).

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN03	662	**Relationship Code**	M	ID	1/1	1

Description: Code indicating the relationship between entities

CodeList Summary (Total Codes: 5, Included: 3)

Code	Name
A	Add

    Description: Indicates a new Tech Data product

Code	Name
D	Delete

    Description: Indicates a discontinued product.   This item can no longer be ordered and should be deleted from inventory.

Code	Name
S	Substituted

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN04	380	**Quantity**	C	R	1/15	1

Description: Numeric value of quantity
User: Tech Data always formats as one (1).

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN05	C001	**Composite Unit of Measure**	C	Comp		1

Description: To identify a composite unit of measure(See Figures Appendix for examples of use)

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SLN05-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

Syntax Rules:
1. P0405 - If either SLN04 or SLN05   is present, then the other is required.
2. C0706 - If SLN07 is present, then SLN06 is required.
3. C0806 - If SLN08 is present, then SLN06 is required.
4. P0910 - If either SLN09 or SLN10   is present, then the other is required.
5. P1112 - If either SLN11 or SLN12   is present, then the other is required.
6. P1314 - If either SLN13 or SLN14   is present, then the other is required.
7. P1516 - If either SLN15 or SLN16   is present, then the other is required.
8. P1718 - If either SLN17 or SLN18   is present, then the other is required.
9. P1920 - If either SLN19 or SLN20   is present, then the other is required.
10. P2122 - If either SLN21 or SLN22   is present, then the other is required.
11. P2324 - If either SLN23 or SLN24   is present, then the other is required.
12. P2526 - If either SLN25 or SLN26   is present, then the other is required.
13. P2728 - If either SLN27 or SLN28   is present, then the other is required.

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Loop Quantity

Pos: 320	**Repeat: 99**
	Optional
Loop: QTY	**Elements: N/A**

Purpose: To specify quantity information

User:

This segment will report quantities of the specified product in all of Tech Data's warehouses.

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat
320	QTY	Quantity	O	1	
355	DTM	Date/Time Reference	O	10	

QTY   **Quantity**

Purpose: To specify quantity information

User:
This segment will report quantities of the specified product in all of Tech Data's warehouses.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
QTY01	673	**Quantity Qualifier**	M	ID	2/2	1

Description: Code specifying the type of quantity

CodeList Summary (Total Codes: 832, Included: 3)

Code	Name
33	Quantity Available for Sale (stock quantity)
45	Cumulative quantity on order

User:
This quantity represents all quantities on order of the item from the vendor. This quantity is only sent when requested.

Code	Name
63	On Order Quantity

User:
This quantity represents the quantity of the item that is on order and expected to arrive at Tech Data on the date shown in the following DTM segment. This quantity is only sent when requested.

Ref	Id	Element Name	Req	Type	Min/Max	Rep
QTY02	380	**Quantity**	C	R	1/15	1

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Rep
QTY03	C001	**Composite Unit of Measure**	O	Comp		1

Description: To identify a composite unit of measure(See Figures Appendix for examples of use)

Ref	Id	Element Name	Req	Type	Min/Max	Rep
QTY03-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

Ref	Id	Element Name	Req	Type	Min/Max	Rep
QTY04	61	**Free-Form Message**	C	AN	1/30	1

Description: Free-form information

User: If QTY01 = 63, "Quantity on Order for Date Shown" is always sent.

If QTY01 = 45, "Cumulative Quanity on Order" is always sent.

Syntax Rules:
1. R0204 - At least one of QTY02 or QTY04 is required.
2. E0204 - Only one of QTY02 or QTY04 may be present.

Semantics:
1. QTY04 is used when the quantity is non-numeric.

DTM   **Date/Time Reference**

Pos: 355	**Max: 10**
Detail - Optional	
Loop: QTY	**Elements: 2**

Purpose: To specify pertinent dates and times

User:
This segment is sent only when ETA dates are requested for backordered inventory items and the QTY01 = 63.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	1

Description: Code specifying type of date or time, or both date and time

CodeList Summary (Total Codes: 1112, Included: 1)

Code	Name
017	Estimated Delivery

Ref	Id	Element Name	Req	Type	Min/Max	Rep
DTM02	373	**Date**	C	DT	8/8	1

Description: Date expressed as CCYYMMDD
User: This date represents the estimated delivery of goods to Tech Data.
This is only include when QTY01 = 63.

Syntax Rules:
1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06   is present, then the other is required.

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CTT   Transaction Totals

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
CTT01	354	**Number of Line Items**	M	N0	1/6	1

Description: Total number of line items in the transaction set

Syntax Rules:

1. P0304 - If either CTT03 or CTT04   is present, then the other is required.
2. P0506 - If either CTT05 or CTT06   is present, then the other is required.

Comments:

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

SE   Transaction Set Trailer

Pos: 020	**Max: 1**
Summary - Mandatory	
Loop: N/A	**Elements: 2**

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)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SE01	96	**Number of Included Segments**	M	N0	1/10	1

Description: Total number of segments included in a transaction set including ST and SE segments

Ref	Id	Element Name	Req	Type	Min/Max	Rep
SE02	329	**Transaction Set Control Number**	M	AN	4/9	1

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Comments:

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