Product Transfer and Resale Report

Transaction Set (867)

(Inbound to TI)

How To Use This Documentation

This document was created to aid in your implementation of the ANSI 2040 standard for the product transfer and resale report. This documentation contains those segments and elements required to successfully process your product transfers and resale reports for Texas Instruments.

A complete description of the product transfer and resale report segments are outlined in the ANSI 2040 Standards Manual. If you require/need to send additional segments not listed in this documentation you must reach an agreement with Texas Instruments before sending those segments.

Data Element Attributes (as required by Texas Instruments)

M = Mandatory (must be transmitted)
C = Conditional (presence of this field is dependent on the value or presence of other data elements within the segment)
O = Optional (the appearance of the element is either at the option of the sending party or based on agreement between the trading partners)

Data Element Types

AN = Alphanumeric
NN = Numeric
     1st N signifies numeric
     2nd N signifies the number of decimal places to the right of a fixed, implied decimal point (the decimal point is not transmitted for this data element type)
R = Numeric Decimal (decimal point required to be transmitted when fractional values are present)
ID = Field contains a code value (codes are contained within predetermined lists maintained by the standards committee and are found in the appendix of ANSI manuals)
DT = Date formatted in YYMMDD, where
     YY = Last 2 digits of the year (00-99)
     MM= Numeric month (01-12)
     DD = Numeric day (01-31)
TM = Time formatted in HHMM, where
     HH = Military hour (00-23)
     MM= Minute (00-59)

Data Element Length

- The number to the left of the "/" specifies the minimum length of the field as required by the standard.
- The number to the right of the "/" specifies the maximum length of the field as required by the standard.
- When the minimum and maximum lengths are the same, this signifies the field has a fixed length.
- The minimum and maximum lengths do not include the decimal point (when data element is R).

Product Transfer and Resale Report(867) - Inbound

The product transfer and resale report transaction set may be used in the following ways: (1) to report information about product that has been transferred from one location to another; (2) to report sales of product from one or more locations to an end customer; or (3) to report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders).

SEG. ID	NAME	REQ.DES.	MAX USE	LOOP REPEAT
ISA	Interchange Control Header	M	1	
GS	Functional Group Header	M	1	
ST	Transaction Set Header	M	1	
BPT	Beginning Segment (Product Transfer and Resale Report)	M	1	
LOOP ID - N1				
N1	Name	M	1	5
LOOP ID - PTD				
PTD	Product Transfer and Resale Detail	M	1	10,000
LOOP ID - N1				
N1	Name	M	1	5
N4	Geographic Location	M	1	
LOOP ID - QTY				
QTY	Quantity	M	1	200
LIN	Item Identification	M	1	
UIT	Unit Detail	M	12	
REF	Reference Numbers	O	12	
DTM	Date/Time Reference	O	10	
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	
GE	Functional Group Trailer	M	1	
IEA	Interchange Control Trailer	M	1	

Texas Instruments uses of the 867:

1. To report sales (and returns) of product from one or more locations to an end customer.
2. To report price adjustments, credis and rebills.
3. To report inventory adjustments (samples, scrap, corrections)

ISA - Interchange Control Header

Status: Mandatory

Purpose: To start and identify an interchange of one or more functional groups and interchange related control segments.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	00 - No Authorization Information Present 01 - UCS Communications ID
ISA02	I02	Authorization Information	M	AN	10/10	Supplied by TI if using direct dial service
ISA03	I03	Security Information Qualifier	M	ID	2/2	00 - No Security Information Present 01 - Password
ISA04	I04	Security Information	M	AN	10/10	Supplied by TI if using direct dial service
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	TI accepts all; TI uses 01 - DUNS (Dun & Bradstreet)
ISA06	I06	Interchange Sender ID	M	ID	15/15	Defined by Sender
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	TI accepts all; TI uses 01 - DUNS (Dun & Bradstreet)
ISA08	I07	Interchange Receiver ID	M	ID	15/15	Defined by Receiver
ISA09	I08	Interchange Date	M	DT	6/6	Current Date: YYMMDD
ISA10	I09	Interchange Time	M	TM	4/4	Current Time: HHMM
ISA11	I10	Interchange Standards ID	M	ID	1/1	U - American National Standards Committee X12
ISA12	I11	Interchange Version ID	M	ID	5/5	This version number covers X12 control segments only. Positions 1-3 = major version number; positions 4-5 = release level of the version.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
ISA13	I12	Interchange Control Number	M	N0	9/9	This number is assigned by sender; together with sender ID, it uniquely identifies interchange data to receiver. It is suggested that sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.
ISA14	I13	Acknowledgment Requested	M	ID	1/1	0 - No Acknowledgment Requested 1 - Interchange Acknowledgment Requested
ISA15	I14	Test Indicator	M	ID	1/1	T - Test Data P - Production Data
ISA16	I15	Sub Element Separator	M	AN	1/1	Defined by Sender

GS - Functional Group Header

Status: Mandatory

Purpose: To start and identify a functional group of related transaction sets and provide control and application identification information.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
GS01	479	Functional ID Code	M	ID	2/2	Code identifying a group of application related transaction sets
GS02	142	Application Sender's Code	M	ID	2/12	Defined by Sender
GS03	124	Application Receiver's Code	M	ID	2/12	Defined by Receiver
GS04	29	Data Interchange Date	M	DT	6/6	Date sender generated a functional group of transaction sets. Format: YYMMDD
GS05	30	Data Interchange Time	M	TM	4/4	Time expressed in 24-hour clock time when the sender generated a functional group of transaction sets (local time at sender's location). Format HHMM
GS06	28	Data Interchange Control Number	M	N0	1/9	Sequentially assigned by sender
GS07	455	Responsible Agency Code	M	ID	1/2	X - Accredited Standards Committee X12
GS08	480	Version/Release/ Industry ID Code	M	ID	1/12	Code indicating the version, release, and industry ID of the EDI standard being used. Positions 1 - 3 = major version number; positions 4 - 6 = release number.

ST - Transaction Set Header

Status: Mandatory

Purpose: The first segment of each transaction set, containing the transaction set identifier and control numbers.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
ST01	143	Transaction Set ID Code	M	ID	3/3	867 - Product Transfer and Resale Report
ST02	329	Transaction Set Control Number	M	AN	4/9	The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment (SE02) must be identical to the control number in the ST segment for each transaction.

BPT - Beginning Segment (Product Transfer and Resale Report)

Status: Mandatory

Purpose: To indicate the beginning of the product transfer and/or resale report and transmit
identifying data.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
BPT01	353	Transaction Set Purpose Code	M	ID	2/2	00 - Original
BPT02	127	Reference Number	M	AN	1/30	Reference Number
BPT03	373	Date	M	DT	6/6	Date data was processed (YYMMDD)

NOTE: BPT04 through BPT06 are not used.

N1 - Name

Status: Mandatory

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

Field #	Element	Field Name	Req.	Type	Size	TI Usage
N101	98	Entity ID Code	M	ID	2/2	DB - Distributor Branch DS - Distributor
N102	93	Name	C	AN	1/35	Distributor's Name
N103	66	ID Code Qualifier	C	ID	1/2	91 - Assigned by Seller
N104	67	ID Code	C	ID	2/17	TI Distributor's Branch Number if N101 = DB or Distributor's Central Office Number if N101 = DS

PTD - Product Transfer and Resale Detail

Status: Mandatory

Purpose: To indicate the start of detail information relating to the transfer/resale of a product
and provide identifying data.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
PTD01	521	Product Transfer Type Code	M	ID	2/2	BP - Broken Price DS - Drop Ship Sale IA - Inventory Adjustment PA - Price Adjustment RA - Reapplication RB - Return of Broken Price RP - Return of List Price SD - Ship and Debit Sale SM - Sample SS - Stock Sale
PTD02	648	Price Multiplier Qualifier	C	ID	3/3	Not Used
PTD03	649	Multiplier	C	R	1/10	Not Used
PTD04	128	Reference Number Qualifier	C	ID	2/2	CM - Credit Memo Number DI - Distributor Invoice Number PO - Purchase Order Number PX - Previous Invoice Number
PTD05	127	Reference Number	C	AN	1/30	Number Qualified by PTD04
PTD06	486	Product Transfer Movement Type Code	O	ID	2/2	Not Used

NOTE: Based on the PTD01 value which defines the type of sale being reported, various
reference qualifiers and numbers are required. These are ANSI X12 data elements 127
and 128, and can be sent in either the PTD04 and PTD05 fields, or REF01 and REF02.

Definitions of PTD01 Field Values

Sales To End Customer:

BP	-	Broken Price Sale (PA)	Distributor PA Purchase
DS	-	Drop Ship Sale	Drop Ship Sale (at DBP or Type 3)
SD	-	Ship & Debit Sale	Resale with associated 'meet-comp' credit (including PA overrides)
SS	-	Stock Sale (List Price)	Resale from distributor stock valued at current DBP

NOTE: Continued

Returns From End Customer:

RB - Return of Broken Price   Return of type SD, SH or BP sale
RP - Return of List Price   Return of type SS or DS sale

Transaction Adjustments:

PA **-** Price Adjustment   Resale Price Correction (report only the change)

RA **-** Reapplication   Credit and Rebill Transactions (change ship dates, reage AR, etc.)

Inventory Adjustments:

IA - Inventory Adjustment   Correction to Inventory (scrap, correction)
SM - Sample   Samples from Distributor Stock

Specification of Price and Quantity Signs

Based on the PTD01 value which defines the type of sale is being reported, the numeric sign on the quantity (QTY02) and unit price (UIT02) fields may change.

PTD01 Value	QTY02 Sign	UIT02 Sign
BP	+	+
DS	+	+
IA	+	0
	-	0
PA	+	-
	+	+
RA	-	+
	+	+
RB	-	+
RP	-	+
SD	+	+
SM	+	0
SS	+	+

PTD - Product Transfer and Resale Detail (continued)

NOTE: Continued

<u>**Derived Inventory Adjustments by PTD01**</u>

Sales To End Customer:

BP	-	Broken Price Sale (PA)	Decrease Distributor's Inventory
DS	-	Drop Ship Sale	No Change
SD	-	Ship & Debit Sale	Decrease Distributor's Inventory
SS	-	Stock Sale (List Price)	Decrease Distributor's Inventory

Returns From End Customer:

RB	-	Return of Broken Price	Increase Distributor's Inventory
RP	-	Return of List Price	Increase Distributor's Inventory

Transaction Adjustments:

PA	-	Price Adjustment	No Change
RA	-	Reapplication	Increase Distributor's Inventory if - Decrease Distributor's Inventory if +

Inventory Adjustments:

IA	-	Inventory Adjustment	Increase Distributor's Inventory if + Decrease Distributor's Inventory if -
SM	-	Sample	Decrease Distributor's Inventory

N1 - Name

Status: Mandatory

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

Field #	Element	Field Name	Req.	Type	Size	TI Usage
N101	98	Entity ID Code	M	ID	2/2	EC - Exchanger MA - End Party
N102	93	Name	C	AN	1/35	Name Qualified by N101
N103	66	ID Code Qualifier	C	ID	1/2	92 - Sender's Internal Customer ID Number
N104	67	ID Code	C	ID	2/17	End Customer Number

N4 - Geographic Location

Status: Mandatory

Purpose: To specify the geographic place of the named party.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
N401	19	City Name	C	AN	2/19	City Name
N402	156	State/Province Code	C	ID	2/2	From ANSI Code List A-22
N403	116	Postal Code	M	ID	5/9	Zip Code
N404	26	Country Code	O	ID	2/2	Not Used
N405	309	Location Qualifier	O	ID	1/2	Not Used
N406	310	Location Identifier	C	AN	1/25	Not Used

QTY - Quantity

Status: Mandatory

Purpose: To specify quantity information.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
QTY01	673	Quantity Qualifier	M	ID	2/2	01 - Discrete Quantity 39 - Shipped Quantity
QTY02	380	Quantity	M	R	1/10	Quantity Shipped or Purchased
QTY03	355	Unit of Measure Code	O	ID	2/2	EA - Each

NOTE: QTY02 must contain a negative quantity when PTD01 = RB or RP.

QTY02 can contain a negative quantity when PTD01 = IA or RA.

QTY02 must be positive for all other PTD01 values.

LIN - Item Identification Detail

Status: Mandatory

Purpose: To specify basic item identification data.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
LIN01	350	Assigned Identification	O	AN	1/6	Not Used
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	VP - Vendor's Part Number MG - Manufacturer's Part Number
LIN03	234	Product/Service ID	M	AN	1/30	TI Part Number Sold by Distributor

NOTE: LIN04 through LIN31 are not used.

UIT - Unit Detail

Status: Mandatory

Purpose: To specify item unit data.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
UIT01	355	Unit of Measure Code	M	ID	2/2	Unit of Measure EA - Each
UIT02	212	Unit Price	C	R	1/14	Price Per Unit
UIT03	639	Basis Unit Price Code	M	ID	2/2	RT - Retail

NOTE: UIT02 can be negative if PTD01 = PA.

             UIT02 must be zero when PTD01 = IA or SM.

             UIT02 must be positive for all other PTD01 values.

REF - Reference Numbers

Status: Optional

Purpose: To specify identifying numbers.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
REF01	128	Reference Number Qualifier	M	ID	2/2	CM - Credit Memo Number DI - Distributor Invoice Number PO - Purchase Order Number PX - Previous Invoice Number
REF02	127	Reference Number	M	AN	1/30	Number Qualified by REF01
REF03	352	Description	O	AN	1/80	Not Used

NOTE: Based on the PTD01 value which defines the type of sale being reported, various reference qualifiers and numbers are required. These are ANSI X12 data elements 127 and 128, and can be sent in either the PTD04 and PTD05 fields, or REF01 and REF02. For certain sale types (based on PTD01 value), more than one set of reference numbers is required. In these cases, the data may be sent using the PTD04, PTD05, REF01, and REF02 segments, or by using 2 REF segments, fields 01 and 02.

	First Set of Reference Numbers		**Second Set of Reference Numbers**	
PTD01	**PTD04 or REF01**	**PTD05 or REF02**	**REF01**	**REF02**
BP	DI	Dist. Invoice #	PO	Distributor PO #
DS	DI	Dist. Invoice #	PO	Distributor PO #
IA	N/A	N/A	N/A	N/A
PA	CM	Dist CM # (+)		
	DI	Dist. Invoice # (-)		
RA	PX	Original Dist. Invoice #	DI CM	New Invoice # if + Dist. CM if -
RB	CM	Dist. CM #	PX	Dist. Original Invoice #
RP	CM	Dist. CM #	PX	Dist. Original Invoice #
SD	DI	Dist. Invoice #	N/A	N/A
SM	DI	Dist. Invoice #	N/A	N/A
SS	DI	Dist. Invoice #	N/A	N/A

'Dist. Invoice #' is the distributor's invoice number to the end customer.
'Dist. CM #' is the distributor's credit memo number to the end customer.

DTM - Date/Time Reference

Status: Optional

Purpose: To specify pertinent dates and times.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	009 - Transaction Date 011 - Shipped
DTM02	373	Date	C	DT	6/6	Date Qualified by DTM01 (YYMMDD)
DTM03	337	Time	C	TM	4/4	Not Used
DTM04	623	Time Code	O	ID	2/2	Not Used

NOTE: Based on the PTD01 value which defines the type of sale being reported, various dates and qualifiers are required. These are ANSI X12 data elements 373 and 374. These must be sent in the DTM01 and DTM02 fields. For certain sale types (based on the PTD01 value), more than one set of dates and qualifiers are required.

	First DTM Segment		**Second DTM Segment**	
PTD01	**DTM01**	**DTM02**	**DTM01**	**DTM02**
BP	011	Ship Date	009	PO Date
DS	011	Ship Date from TI	009	PO Date
IA	009	Transaction Date	N/A	N/A
PA	011	Original Ship Date	009	New Invoice date (+) Dist. CM date (-)
RA	011	Original Ship Date	009	New Invoice date (+) Dist. CM date (-)
RB	011	Original Ship Date	009	Dist. CM date
RP	011	Original Ship Date	009	PO Date
SD	011	Ship Date	N/A	N/A
SM	011	Ship Date	N/A	N/A
SS	011	Ship Date	N/A	N/A

'Ship date' is the date that the product was shipped to the end customer.
'Dist. CM date' is the distributor's credit memo issue date.

CTT - Transaction Totals

Status: Mandatory

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

Field #	Element	Field Name	Req.	Type	Size	TI Usage
CTT01	354	Number of Line Items	M	N0	1/6	Number of line item segments in this transaction set

NOTE: CTT02 through CTT07 are not used.

SE - Transaction Set Trailer

Status: Mandatory

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.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
SE01	96	Number of Included Segments	M	N0	1/6	The total number of all segments in the transaction set, including the ST and SE segments.
SE02	329	Transaction Set Control Number	M	AN	4/9	The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment must be identical to the control number in the ST segment (ST02) for each transaction.

GE - Functional Group Trailer

Status: Mandatory

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

Field #	Element	Field Name	Req.	Type	Size	TI Usage
GE01	97	Number of Included Transaction Sets	M	N0	1/6	The total number of transaction sets included.
GE02	28	Data Interchange Control Number	M	N0	1/9	The data interchange control number must match the same data element (GS06) in the functional group header segment.

IEA - Interchange Control Trailer

Status: Mandatory

Purpose: To define the end of an interchange of one or more functional groups and interchange related control segments.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
IEA01	I16	Number of Included Groups	M	N0	1/5	A count of the number of functional groups included in a transmission.
IEA02	I12	Interchange Control Number	M	N0	9/9	This number is assigned by sender; together with sender ID, it uniquely identifies interchange data to receiver. It is suggested that sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.