Payment Order/Remittance Advice

Transaction Set (820)

Inbound to TI

ANSI Version Format : 3020
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Testing Procedures

- To begin testing a request needs to be made to the TI SC EDI Business Manager, Kim Harlow, at (972) 480-7982 (kharlow@ti.com) prior to sending any transmissions.

- A TI EDI Representative will contact you to begin testing.

- You will send a valid test file to Texas Instruments and notify us when it has been sent. A valid test file consists of:
    - 'T' sent in the ISA segment (ISA15)
    - Must contain all mandatory segments and fields contained in this documentation
    - Standard pack quantities

- Texas Instruments will review your transmissions and notify you of any problems.

- Move to production
    - TI SC EDI Business Manager, TI EDI Representative and the trading partner are mutually
        satisfied with the data being transmitted
    - TI EDI Representative will contact you to move you into production
    - 'P' sent in ISA segment (ISA15)

How To Use This Documentation

This document was created to aid in your implementation of the ANSI 3020 standard for purchase orders. This documentation contains those segments and elements required to successfully process your purchase order for Texas Instruments.

A complete description of the purchase order segments are outlined in the ANSI 3020 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

M = Mandatory (must be transmitted)
X = 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).

Payment Order/Remittance Advice (820)

The payment order/remittance advice transaction set can be used for two different purposes: to report the completion of payment to payee(s) by a financial institution and to give advice to the payee by the payor on the application of a payment made with the payment order or by some other means. (under loop repeat)

SEG	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	
BPS	Beginning Segment	M	1	
REF	Reference Number	M	5	
DTM	Date/Time Reference	M	10	
N1	Name	O	200	
LS	Loop Header	M	1	
	LOOP N1			
N1	Name	M	1	10,000
RMT	Remittance Advice	M	1	>1
REF	Reference Number	O	15	
LE	Loop Trailer	M	1	
SE	Transaction Set Trailer	M	1	
GE	Functional Group Trailer	M	1	
IEA	Interchange Control Trailer	M	1	

ANSI Version\Release
    ISA - 00200
    GS - 003020

LEGEND

AN	Alphanumeric
C	Conditional
DT	Date
ID	Identification
M	Mandatory
NO	Number
O	Optional
R	Reference
TM	Time

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	744	Authorization information qualifier	M	ID	02	00 - No authorization information present 01 - UCS communication ID
ISA02	745	Authorization information	M	AN	10	Supplied by TI if using direct dial service
ISA03	746	Security information qualifier	M	ID	02	00 - No security information present 01 - Password
ISA04	747	Security information	M	AN	10	Supplied by TI if using direct dial service
ISA05	704	Interchange ID qualifier	M	ID	02	TI accepts all; TI uses 01- DUNS (Dun & Bradstreet)
ISA06	705	Interchange sender ID	M	ID	15	Defined by sender
ISA07	704	Interchange ID qualifier	M	ID	02	TI accepts all; TI uses 01- DUNS (Dun & Bradstreet)
ISA08	706	Interchange receiver ID	M	ID	15	Defined by receiver
ISA09	373	Date	M	DT	06	Current date: YYMMDD
ISA10	337	Time	M	TM	04	Current time: HHMM
ISA11	726	Interchange standards identifier	M	ID	01	X - American National Standards Committee X12

Field #	Element	Field Name	Req	Type	Size	TI Usage
ISA12	703	Interchange version ID	M	ID	05	This version number covers X12 control segements only: Positions 1-3 of field = major version number.
ISA13	709	Interchange control number	M	NO	09	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	749	Acknowledg-ment	M	ID	01	0 = No acknowledgment requested 1 = Interchange acknowledgment requested
ISA15	748	Test Indicator	M	AN	01	T = Test data P = Production data
ISA16	701	Sub-element separator	M	AN	01	Defined by sender if necessary

NOTE: A segment terminator is mandatory. TI uses Hex 15. If Hex 15 is not
            used, substitute a non- printable character
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GS - Functional Group Header (Start)

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	M	ID	02	See data dictionary for code list
GS02	142	Application sender's code	M	ID	02-12	Defined by Sender
GS03	124	Application receiver's code	M	ID	02-12	Defined by Receiver
GS04	29	Data interchange date	M	DT	06	Date sender generated a functional group of transaction sets. ormat: YYMMDD
GS05	30	Data interchange time	M	TM	04	Time expressed in 24-hour clock time when sender generated a functional group of transaction sets (local time at sender's location) Format: HHMM
GS06	28	Data interchange control number	M	NO	01-09	Sequentially assigned by sender
GS07	455	Responsible agency code	M	NO	01-02	X = American National Standards Committee X12
GS08	480	Version	M	ID	01-12	This number refers to X12 Transaction Sets: Positions 1-3 of this field = major version number; Positions 4-6 = release number.

ST - Transaction Set Header Segment

Status: Mandatory

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

Field #	Element	Field Name	Req	Type	Size	TI Usage
ST01	143	Transaction set ID	M	ID	03	820 - Payment order/remittance advice
ST02	329	Transaction set control number	M	AN	04-09	A sequential number, assigned by sender

BPS - Payment Order/Remittance Advice Beginning Segment

Status: Mandatory

Purpose: To (1) indicate the beginning of a payment order/remittance advice transaction set and a total payment amount, and (2) to permit a related transfer of funds or of information, utilizing an automated clearing house (ACH) or other banking network..

Field #	Element	Field Name	Req	Type	Size	TI Usage
BPS01	591	Payment method code	M	ID	03	DXC - X12 credit/payment
BPS02	782	Amount	M	R	01-15	Payment amount
BPS03	305	Transaction handling code	M	ID	01	X - Make payment and sent remittance advice
BPS04	506	DFI (bank) ID number qualifier	C	ID	02	01 - ABA transit routing number
BPS05	507	DFI (bank) ID number	C	AN	03-12	Payer's bank
BPS06	508	Account number	O	AN	01-35	Payer's account number
BPS07	509	Originating company ID number	C	AN	10	Not Used
BPS08	510	Originating co. supplemental code	O	AN	09	Not used
BPS09	506	DFI (bank) ID number qualifier	C	ID	02	01-ABA transit routing number
BPS10	507	DFI (bank) ID number qualifier	C	AN	03-12	Payee's bank
BPS11	508	Account number	C	AN	01-35	Payee's account number
BPS12	513	Effective entry date	C	DT	06	Settlement date (YYMMDD)
BPS13	727	Settlement date	C	DT	06	Not used

REF - Reference Numbers Segment

Status: Mandatory

Purpose: To transmit identifying number(s) associated with the named party.

Field #	Element	Field Name	Req	Type	Size	TI Usage
REF01	128	Reference number qualifier	M	ID	02	See Note 1
REF02	127	Reference number	C	AN	01-30	Reference number
REF03	352	Description	C	AN	01-80	Not Used

NOTE:

1.   TN - Trace Number
     VV - Voucher Number

DTM - Date/Time Reference

Status: Mandatory

Purpose: To specify the date and time for receiving a specific line item.

Field #	Element	Field Name	Req	Type	Size	TI Usage
DTM01	374	Date/time qualifier	M	ID	03	020 - Check
DTM02	373	Date	C	DT	06	Check Date
DTM03	337	Time	C	TM	04	Not used
DTM04	623	Time zone qualifier	O	ID	02	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	Organization identifier	M	ID	02	See Note 1
N102	93	Name	C	AN	01-35	Name
N103	66	ID code qualifier	C	ID	01-02	See Note 2
N104	67	ID code	O	AN	02-17	Code

NOTES:

1.   BK - Bank
    PR - Payer

2.   1 - Dunn and Bradstreet
    9 - Dunn and Bradstreet + 4 character suffix
    91 - Assigned by Seller
    92 - Assigned by Buyer

LS - Loop Header Segment

Status: Mandatory

Purpose: To indicate that the next segment begins a loop.

Field #	Element	Field Name	Req	Type	Size	TI Usage
LS01	447	Loop ID code	M	ID	01-04	Indicates the beginning of a loop

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	Organization identifier	M	ID	02	'PE' - Payee
N102	93	Name	C	AN	01-35	Name
N103	66	ID code qualifier	C	ID	01-02	See Note 1
N104	67	ID code	O	AN	02-17	Code

NOTES:

1.   1 - Dunn and Bradstreet
       9 - Dunn and Bradstreet + 4 character suffix
       91 - Assigned by Seller
       92 - Assigned by Buyer

RMT - Remittance Advice

Status: Mandatory

Purpose: To indicate the detail on items being paid

Field #	Element	Field Name	Req	Type	Size	TI Usage
RMT01	128	Reference number qualifier	M	ID	02	IV - Seller's Invoice Number
RMT02	127	Reference number	M	AN	01-30	Seller's Invoice Number
RMT03	782	Amount	O	R	01-15	Amount Paid
RMT04	777	Total inventory amount	O	R	01-15	Total invoice amount

NOTE: RMT05 through RMT10 are not used.

REF - Reference Numbers Segment

Status: Optional

Purpose: To transmit identifying number(s) associated with the named party.

Field #	Element	Field Name	Req	Type	Size	TI Usage
REF01	128	Reference number qualifier	M	ID	02	See Note 1
REF02	127	Reference number	C	AN	01-30	Reference Number
REF03	352	Description	C	AN	01-80	Not used

NOTE:

1.   DB - Buyer's Debit Memo
      PK - Packing List Number
      PO - Purchase Order Number

LE - Loop Trailer Segment

Status: Mandatory

Purpose: To indicate that the loop immediately preceeding this segment is complete.

Field #	Element	Field Name	Req	Type	Size	TI Usage
LE01	447	Loop ID code	M	ID	01-04	Indicates the end of a loop

SE - Transaction Set Trailer Segment

Status: Mandatory

Purpose: The last segment of each transaction set, containing the number of included segments and transaction set control number.

Field #	Element	Field Name	Req	Type	Size	TI Usage
SE01	96	Number of included segments	M	NO	01-06	The total number of all segments in the transaction set, including the ST and SE segments
SE02	329	Transaction set control number	M	AN	04-09	This number must match the transaction set control number (ST02) in the transaction set header segment.

GE - Functional Group Trailer (END)

Status: Mandatory

Purpose: To define (specify) the end of a functional group of related transaction sets.

Field #	Element	Field Name	Req	Type	Size	TI Usage
GE01	97	Number of included transaction sets	M	NO	01-06	Total number of transaction sets included
GE02	28	Data interchange control number	M	NO	01-09	The data interchange control number must match the same data element (GS02) 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	405	Number of included groups	M	NO	01-05	A count of the number of functional groups included in a transmission
IEA02	709	Interchange control number	M	NO	09	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.