Purchase Order Acknowledgment

Transaction Set (855)

(Outbound from TI)

How To Use This Documentation

This document was created to aid in your implementation of the ANSI 2003 standard for invoices. This documentation contains those segments and elements that will be sent for the invoices created by Texas Instruments.

A complete description of the invoice segments are outlined in the ANSI 2003 Standards Manual. If you require/need to be sent additional segments not listed in this documentation, an agreement must be reached with Texas Instruments.

Data Element Attributes

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).

Purchase Order Acknowledgment (855) - Outbound

This transaction set provides for customary and established business and industry practice relative to a seller's acknowledgment of a buyer's purchase order.

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	
BAK	Beginning Segment (Purchase Order Acknowledgment)	M	1	
LOOP ID - N9				
N9	Reference Number	O	1	1,000
LOOP ID - N1				
N1	Name	O	1	200
N2	Additional Name Information	O	2	
N3	Address Information	O	2	
N4	Geographic Location	O	1	
PER	Administrative Communications Contact	O	3	
LOOP ID - PO1				
PO1	Purchase Order Baseline Item Data	O	1	100,000
LOOP ID - ACK				
ACK	Line Item Acknowledgment	O	1	104
DTM	Date/Time Reference	O	1	
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	
GE	Functional Group Trailer	M	1	
IEA	Interchange Control Trailer	M	1	

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	AN	2/12	Defined by Sender
GS03	124	Application Receiver's Code	M	AN	2/12	Defined by Receiver
GS04	29	Group Date	M	DT	6/6	Date sender generated a functional group of transaction sets. Format: YYMMDD
GS05	30	Group 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	Group 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	855 - Purchase Order Acknowledgment
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.

BAK - Beginning Segment (Purchase Order Acknowledgment)

Status: Mandatory

Purpose: To indicate the beginning of the purchase order acknowledgment transaction set and transmit identifying numbers and dates.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
BAK01	353	Transaction Set Purpose Code	M	ID	2/2	00 - Original 04 - Change
BAK02	587	Acknowledgment Type	M	ID	2/2	AC - Acknowledge - With Detail and Change
BAK03	324	Purchase Order Number	M	AN	1/22	Purchase Order Number
BAK04	323	Purchase Order Date	M	DT	6/6	Purchase Order Date (YYMMDD)
BAK05	328	Release Number	O	AN	1/30	Not Used
BAK06	326	Request Reference Number	O	AN	1/45	Not Used
BAK07	367	Contract Number	O	AN	1/30	Not Used
BAK08	127	Reference Number	O	AN	1/30	TI Sales Order Number
BAK09	588	Acknowledgment Date	O	DT	6/6	Acknowledgment Date (YYMMDD)

NOTE: BAK02 will always contain AC, even if no changes have been made to the order.

N9 - Reference Number

Status: Optional

Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
N901	128	Reference Number Qualifier	M	ID	2/2	CJ - Clause Number GC - Government Contract Number GP - Government Priority Number MU - Military Specification Number
N902	127	Reference Number	X	AN	1/30	Number Qualified by N901
N903	369	Free-form Description	X	AN	1/45	Not Used
N904	373	Date	O	DT	6/6	Not Used
N905	337	Time	O	TM	4/6	Not Used

N1 - Name

Status: Optional

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	BY - Buyer ST - Ship To SU - Supplier/Manufacturer
N102	93	Name	X	AN	1/35	Name
N103	66	ID Code Qualifier	X	ID	1/2	Not Used
N104	67	ID Code	X	ID	2/17	Not Used

N2 - Additional Name Information

Status: Optional

Purpose: To specify additional names or those longer than 35 characters in length.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
N201	93	Name	M	AN	1/35	Semiconductor Group
N202	93	Name	O	AN	1/35	Not Used

N3 - Name

Status: Optional

Purpose: To specify the location of the named party.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
N301	166	Address	M	AN	1/35	First line of address
N302	166	Address	O	AN	1/35	Second line of address

N4 - Geographic Location

Status: Optional

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

Field #	Element	Field Name	Req.	Type	Size	TI Usage
N401	19	City Name	X	AN	2/19	City Name
N402	156	State/Province Code	O	ID	2/2	From ANSI Code List A-22
N403	116	Postal Code	O	ID	4/9	Zip Code
N404	26	Country Code	O	ID	2/2	Not Used
N405	309	Location Qualifier	X	ID	1/2	Not Used
N406	310	Location Identifier	X	AN	1/25	Not Used

PER - Administrative Communications Contact

Status: Optional

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

Field #	Element	Field Name	Req.	Type	Size	TI Usage
PER01	366	Contact Function Code	M	ID	2/2	BD - Buyer Name
PER02	93	Name	O	AN	1/35	Buyer Name
PER03	365	Communication Number Qualifier	X	ID	2/2	Not Used
PER04	364	Communication Number	X	AN	7/21	Not Used

PO1 - Purchase Order Baseline Item Data

Status: Optional

Purpose: To specify basic and most frequently used purchase order line item data.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
PO101	350	Assigned Identification	O	AN	1/11	Purchase Order Line Item Number
PO102	330	Quantity Ordered	M	R	1/9	Quantity Ordered
PO103	355	Unit of Measure Code	M	ID	2/2	Unit of Measure Code EA - Each
PO104	212	Unit Price	X	R	1/14	Unit Price
PO105	639	Basis Unit Price Code	O	ID	2/2	CT - Contract Price
PO106	235	Product/Service ID Qualifier	O	ID	2/2	PN - Part Number
PO107	234	Product/Service ID	X	AN	1/30	Customer Part Number
PO108	235	Product/Service ID Qualifier	O	ID	2/2	EC - Engineering Change Level
PO109	234	Product/Service ID	X	AN	1/30	Customer Part Revision Level
PO110	235	Product/Service ID Qualifier	O	ID	2/2	VP - Vendor's Part Number
PO111	234	Product/Service ID	X	AN	1/30	TI Part Number
PO112	235	Product/Service ID Qualifier	O	ID	2/2	VO - Vendor's Order Number
PO113	234	Product/Service ID	X	AN	1/30	TI Sales Order Number

NOTE: PO114 through PO125 are not used.

ACK - Line Item Acknowledgment

Status: Optional

Purpose: To acknowledge the ordered quantities and specify the ready date for a specific line item.

Field #	Element	Field Name	Req.	Type	Size	TI Usage
ACK01	668	Line Item Status Code	M	ID	2/2	IA - Item Accepted
ACK02	380	Quantity	O	R	1/15	Quantity Scheduled
ACK03	355	Unit of Measure Code	X	ID	2/2	EA - Each
ACK04	374	Date/Time Qualifier	O	ID	3/3	017 - Estimated Delivery Date
ACK05	373	Date	X	DT	6/6	Estimated Delivery Date (YYMMDD)

NOTE: ACK06 through ACK26 are not used.

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	011 - Shipped
DTM02	373	Date	X	DT	6/6	Date Shipped (YYMMDD)
DTM03	337	Time	X	TM	4/6	Not Used
DTM04	623	Time Code	O	ID	2/2	Not Used
DTM05	624	Century	O	N0	2/2	Not Used

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	Group 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.