



d.e.m.o.



# 810 Invoice

Functional Group ID=**IN**

## Introduction:

This Standard contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

## Notes:

### Revision History

– Changes on 8/21/01:

- Added a note to explain requirement of Store number in N1(ST) loop
- Changed occurrence of DTM to 1
- Made IT101 mandatory
- Changed Min/Max to 20 on IT107
- Changed Min/Max to 12 on IT109
- Removed REF03

– Changes on 10/30/01

- Added two more qualifiers and an additional repetition of the N1 loop

- Changes on 11/19/01:

- Added 'AS' qualifier to IT103 for pre-pack items

- Clarification on 4/8/03:

- Added comments to IT1 segment to clarify the use of the Pacific Sunwear SKU number

- Changes on 11/1/05 –

- Added qualifiers DF and MX to FOB segment
- Change IT102, 03, 04 to Mandatory
- Changed the min/max length of IT101 from 1/20 to 3/3
- Updated min/max for PacSun long SKU from 1/20 to 20/20 to IT1 segment
- Updated min/max for UPC from 1/12 to 12/14 and add qualifier UK for GTIN number to IT1 segment
- Updated min/max for PacSun short SKU from 1/10 to 10/10 to IT1 segment
- Updated min/max for Vendor Part number from 1/48 to 1/15
- Updated PID02 and 05 to Mandatory
- Added possible qualifiers for Item level SAC02, changed SAC02, 05, 12 and 15 to mandatory and removed use of SAC03 and 04
- Added use of TDS02
- Updated summary level SAC02, and 05 to mandatory and removed use of SAC03 and 04

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
M	050	REF	Reference Identification	M	1		
						3	
M	070	N1	Name	M	1		

	090	N3	Address Information	O	1	
	100	N4	Geographic Location	O	1	
M	130	ITD	Terms of Sale/Deferred Terms of Sale	M	1	
	140	DTM	Date/Time Reference	O	1	
	150	FOB	F.O.B. Related Instructions	O	1	

**Detail:**

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - IT1			200000	
M	010	IT1	Baseline Item Data (Invoice)	M	1		
			LOOP ID - PID			3	
	060	PID	Product/Item Description	O	1		
			LOOP ID - SAC			25	
	180	SAC	Service, Promotion, Allowance, or Charge Information	O	1		

**Summary:**

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	TDS	Total Monetary Value Summary	M	1		
	030	CAD	Carrier Detail	O	1		
			LOOP ID - SAC			25	
	040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	070	CTT	Transaction Totals	O	1		n1
M	080	SE	Transaction Set Trailer	M	1		

**Transaction Set Notes**

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set	M ID 3/3
M	ST02	329	<b>Transaction Set Control Number</b> 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

**Segment:** **BIG** Beginning Segment for Invoice

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

**Syntax Notes:**

**Semantic Notes:**

1 BIG01 is the invoice issue date.

2 BIG03 is the date assigned by the purchaser to purchase order.

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	BIG01	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8
M	BIG02	76	<b>Invoice Number</b> Identifying number assigned by issuer	M AN 1/10
M	BIG04	324	<b>Purchase Order Number</b> Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/10

**Segment:** **REF** Reference Identification  
**Position:** 050  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify identifying information  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification IA Internal Vendor Number	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30

**Segment:** **N1** Name  
**Position:** 070  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:** Ship To and Vendor are mandatory, Remit To/Factor are optional (used by vendor to indicate change in Remit To or Factor address)

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual ST Ship To VN Vendor RI Remit To O4 Factor	M ID 2/3
M	N102	93	<b>Name</b> Free-form name	M AN 1/60
	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	X ID 1/2
	N104	67	<b>Identification Code</b> Code identifying a party or other code The PacSun number must be sent for Ship To loop	X AN 2/80

**Segment:** N3 Address Information  
**Position:** 090  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
M	N301	166	<b>Address Information</b> Address information	M AN 1/55
	N302	166	<b>Address Information</b> Address information	O AN 1/55

**Segment:** **N4 Geographic Location**  
**Position:** 100  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:** 1 If N406 is present, then N405 is required.  
**Semantic Notes:**

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element</b>		
N401	19	<b>City Name</b> Free-form text for city name	<b>O AN 2/30</b>
N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	<b>O ID 2/2</b>
N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	<b>O ID 3/15</b>
N404	26	<b>Country Code</b> Code identifying the country	<b>O ID 2/3</b>



**Segment:** **ITD** Terms of Sale/Deferred Terms of Sale  
**Position:** 130  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify terms of sale  
**Syntax Notes:**  
**Semantic Notes:** .

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element</b>		
<b>ITD01</b>	<b>336</b>	<b>Terms Type Code</b> Code identifying type of payment terms 01 Basic 41 Letter of Credit 45 Bank Transfer	<b>O ID 2/2</b>
<b>ITD06</b>	<b>446</b>	<b>Terms Net Due Date</b> Date when total invoice amount becomes due expressed in format CCYYMMDD	<b>O DT 8/8</b>

**Segment:** **DTM** Date/Time Reference  
**Position:** 140  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u> <u>Name</u></b>	<b><u>ID</u></b>
M	DTM01	374 <b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 011 Shipped	M ID 3/3
M	DTM02	373 <b>Date</b> Date expressed as CCYYMMDD	M DT 8/8

**Segment:** **FOB** F.O.B. Related Instructions  
**Position:** 150  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify transportation instructions relating to shipment  
**Syntax Notes:**  
**Semantic Notes:** 1 FOB01 indicates which party will pay the carrier.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	FOB01	146	Shipment Method of Payment	M ID 2/2
			Code identifying payment terms for transportation charges	
			CC Collect	
			CF Collect, Freight Credited Back to Customer	
			DF Defined by Buyer and Seller	
			MX Mixed	
			Represents Sea-Air Diff	
			PC Prepaid but Charged to Customer	
			PP Prepaid (by Seller)	

**Segment:** **IT1** **Baseline Item Data (Invoice)**  
**Position:** 010  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
  - 2 If either IT106 or IT107 is present, then the other is required.
  - 3 If either IT108 or IT109 is present, then the other is required.
  - 4 If either IT110 or IT111 is present, then the other is required.
  - 5 If either IT112 or IT113 is present, then the other is required.
  - 6 If either IT114 or IT115 is present, then the other is required.

**Semantic Notes:** 1 IT101 is the purchase order line item identification.  
**Notes:** Pacific Sunwear must receive the internal SKU number on the Invoice. This can either be the Long SKU (IT106/07) or Short SKU (IT112/13). Long SKU is preferred.

#### Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	IT101	350	<b>Assigned Identification</b>	M AN 3/3
			Alphanumeric characters assigned for differentiation within a transaction set	
M	IT102	358	<b>Quantity Invoiced</b>	M R 1/10
			Number of units invoiced (supplier units)	
M	IT103	355	<b>Unit or Basis for Measurement Code</b>	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			AS	Assortment
			EA	Each
M	IT104	212	<b>Unit Price</b>	M R 1/17
			Price per unit of product, service, commodity, etc.	
			Unit price is displayed with 4 characters to the right of the decimal	
	IT106	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Either IT106/07 is required or Either IT112/13 are required	
			SK	Stock Keeping Unit (SKU)
	IT107	234	<b>Product/Service ID</b>	X AN 20/20
			Identifying number for a product or service	
			Pacific Sunwear Long SKU	
	IT108	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1) (GTIN)
			A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit	
			UP	U.P.C. Consumer Package Code (1-5-5-1)

<b>IT109</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 12/14</b>
<b>IT110</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) VN Vendor's (Seller's) Item Number	<b>X</b>	<b>ID 2/2</b>
<b>IT111</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/15</b>
<b>IT112</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Either IT106/07 is required or Either IT112/13 are required CB Buyer's Catalog Number	<b>X</b>	<b>ID 2/2</b>
<b>IT113</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service Pacific Sunwear Short Sku	<b>X</b>	<b>AN 10/10</b>
<b>IT114</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) PG Packaging Specification Number	<b>X</b>	<b>ID 2/2</b>
<b>IT115</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/3</b>

**Segment:** **PID** Product/Item Description  
**Position:** 060  
**Loop:** PID Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349	<b>Item Description Type</b> Code indicating the format of a description F Free-form	M ID 1/1
M	PID02	750	<b>Product/Process Characteristic Code</b> Code identifying the general class of a product or process characteristic 08 Product 74 Vendor size description 75 Buyer's Color Description	M ID 2/3
M	PID05	352	<b>Description</b> A free-form description to clarify the related data elements and their content	M AN 1/80

**Segment:** SAC Service, Promotion, Allowance, or Charge Information  
**Position:** 180  
**Loop:** SAC Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	<b>Allowance or Charge Indicator</b> Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
M	SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> Code identifying the service, promotion, allowance, or charge D240 Freight F800 Promotional Allowance	M ID 4/4
M	SAC05	610	<b>Amount</b> Monetary amount	M N2 1/15
M	SAC12	331	<b>Allowance or Charge Method of Handling Code</b> Code indicating method of handling for an allowance or charge 02 Off Invoice	M ID 2/2
M	SAC15	352	<b>Description</b> A free-form description to clarify the related data elements and their content	M AN 1/80

**Segment:** **TDS** Total Monetary Value Summary  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the total invoice discounts and amounts  
**Syntax Notes:**  
**Semantic Notes:**

- 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	TDS01	610	Amount Monetary amount	M N2 1/15
M	TDS02	610	Amount Monetary amount	M N2 1/15



**Segment:** **CAD** Carrier Detail  
**Position:** 030  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify transportation details for the transaction  
**Syntax Notes:** 1 At least one of CAD05 or CAD04 is required.  
 2 If CAD07 is present, then CAD08 is required.  
**Semantic Notes:**

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
CAD01	91	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the shipment	O ID 1/2
CAD02	206	<b>Equipment Initial</b> Prefix or alphabetic part of an equipment unit's identifying number	O AN 1/4
CAD03	207	<b>Equipment Number</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	O AN 1/10
CAD04	140	<b>Standard Carrier Alpha Code</b> Standard Carrier Alpha Code	X ID 2/4
CAD05	387	<b>Routing</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X AN 1/35

**Segment:** SAC Service, Promotion, Allowance, or Charge Information  
**Position:** 040  
**Loop:** SAC Optional  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	<b>Allowance or Charge Indicator</b> Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
M	SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> Code identifying the service, promotion, allowance, or charge D240 Freight F800 Promotional Allowance	M ID 4/4
M	SAC05	610	<b>Amount</b> Monetary amount	M N2 1/15
	SAC12	331	<b>Allowance or Charge Method of Handling Code</b> Code indicating method of handling for an allowance or charge 01 Bill Back 02 Off Invoice	O ID 2/2
	SAC15	352	<b>Description</b> A free-form description to clarify the related data elements and their content	O AN 1/80

**Segment:** **CTT** Transaction Totals  
**Position:** 070  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6

**Segment:** **SE** Transaction Set Trailer  
**Position:** 080  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**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)

**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	<b>M N0 1/10</b>
M	SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	<b>M AN 4/9</b>