

# **EDI TRANSACTION DOCUMENTATION**

## **810**

# **INVOICE**

**EDI Direction:** To Navico  
ANSI X12 Version 4030

**July 15, 2009**

## **TRANSACTION PURPOSE**

The purpose of the transaction is used to provide the customary and established business and industry practice relative to the billing for goods and services provided.

### **Business Processing:**

The following guidelines will help avoid invoice matching issues and possible delays to your payments.

- There must be a unique invoice for each Navico Shipto and Purchase Order
- Navico will be paying the following based on the Purchase Order:
  - Terms Discounts
  - Item Costs
  - Currency
  - Merchandise Discounts

Please make certain that the data on the Purchase Order is correct as soon as it is received.

- Navico will process only one Purchase Order per invoice

## SEGMENT SUMMARY

ISA – INTERCHANGE CONTROL HEADER		MANDATORY
GS – FUNCTIONAL GROUP HEADER		MANDATORY
ST – TRANSACTION SET HEADER		MANDATORY
<u>HEADER</u>		
BIG	BEGINNING SEGMENT FOR INVOICE	MANDATORY
REF	REFERENCE IDENTIFICATION	MANDATORY
N1	NAME	MANDATORY
DTM	DATE/TIME REFERENCE	MANDATORY
<u>DETAIL</u>		
IT1	BASELINE ITEM DATA	MANDATORY
PID	PRODUCT/ITEM DESCRIPTION	OPTIONAL
<u>SUMMARY</u>		
TDS	TOTAL MONETARY VALUE SUMMARY	MANDATORY
CAD	CARRIER DETAIL	OPTIONAL
SAC	SERVICE, PROMOTION, ALLOWANCE, OR CHARGE	OPTIONAL
CTT	TRANSACTION TOTALS	MANDATORY
SE – TRANSACTION SET TRAILER		MANDATORY
GE – FUNCTIONAL GROUP TRAILER		MANDATORY
IEA – INTERCHANGE CONTROL TRAILER		MANDATORY

**SEGMENT : ISA**  
**Description : INTERCHANGE CONTROL HEADER**  
**ANSI Standard : MANDATORY**  
**Navico Processing: MANDATORY**

**Purpose : To start and identify and interchange of one or more functional groups and interchanges.**

Field #	Element	Field Name	Req	Type	Size	Navico 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	
ISA03	I03	Security Information Qualifier	M	ID	2/2	00 = no security Required 01 = Password
ISA04	I04	Security Information	M	AN	10/10	
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Defined By Sender
ISA06	I06	Interchange Sender ID	M	AN	15/15	Defined By Sender
ISA07	I07	Interchange ID Qualifier	M	ID		Defined By Receiver
ISA08	I08	Interchange Receiver ID	M	AN		Defined By Receiver
ISA09	I09	Interchange Date	M	DT	6/6	YYMMDD
ISA10	I10	Interchange Time	M	TM	4/4	HHMM
ISA11	I11	Interchange Control ID	M	ID	1/1	U = U.S. EDI Community Of ASC X12
ISA12	I12	Interchange Control Version Number	M	ID	5/5	00403
ISA13	I13	Interchange Control Number	M	N0	9/9	Assigned by sender as a Unique ID for each Trans
ISA14	I14	Acknowledgment Requested	M	ID	1/1	0 = No Ack. Requested
ISA15	I15	Test Indicated	M	ID	1/1	T = Test P = Production
ISA16	I16	Sub-element Separator	M	AN	1/1	Defined By Sender

**SEGMENT : GS****Description : FUNCTIONAL GROUP HEADER****ANSI Standard : MANDATORY****Navico Processing: MANDATORY****Purpose : To indicate the beginning of a functional group and to provide control information.**

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
GS01	479	Functional ID Code	M	ID	2/2	IN
GS02	142	Application Sender's Code	M	AN	2/15	Defined By Sender
GS03	124	Application Receiver's Code	M	AN	2/15	Defined By Sender
GS04	373	Date	M	DT	8/8	Date Sender Generated a functional group of transaction sets CCYYMMDD
GS05	337	Time	M	TM	4/4	HHMM
GS06	28	Group Control Number	M	N0	1/9	Sequentially assigned by sender
GS07	455	Responsible Agent Code	M	ID	1/2	X = Accredited Standards Committee X12
GS08	480	Version/Release	M	AN	1/12	004030

**SEGMENT : ST****Description : TRANSACTION SET HEADER****ANSI Standard : MANDATORY****Navico Processing: MANDATORY****Purpose : To indicate the beginning of a functional group and to provide control information.**

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
ST01	143	Transaction Set ID Code	M	ID	3/3	810
ST01	329	Transaction Set Control Number	M	AN	4/9	Defined By Sender

**SEGMENT : BIG**  
**Description : BEGINNING SEGMENT FOR INVOICE**  
**ANSI Standard : MANDATORY**  
**Navico Processing: MANDATORY**

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

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
BIG01	373	Invoice Date	M	DT	8/8	Date expressed as CCYYMMDD
BIG02	76	Invoice number	M	AN	1/22	Identifying number assigned by issuer
BIG03	373	Purchase Order Date	M	DT	8/8	Date expressed as CCYYMMDD
BIG04	324	Purchase Order Number	M	AN	1/22	Identifying number for Purchase Order assigned by the purchaser

**SEGMENT : REF****Description : Reference Identification****ANSI Standard : OPTIONAL****Navico Processing: MANDATORY****Purpose: To transmit identifying information.**

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	IA=Internal Vendor Number
REF02	127	Reference Identification	M	AN	1/20	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier (REF02 of 850)



**SEGMENT : N1**  
**Description : NAME**  
**ANSI Standard : OPTIONAL**  
**Navico Processing: MANDATORY**

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

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
N101	98	Entity Identifier Code	M	ID	2/2	ST = Ship To
N102	93	Name	M	AN	1/60	Free Form Name
N103	66	Identification Code Qualifier	M	ID	1/2	92 = assigned by Buyer
N104	67	Identification Code	M	AN	2/20	Code identifying a party or other code.

**SEGMENT : DTM****Description : Date/ Time Reference.****ANSI Standard : OPTIONAL****Navico Processing: MANDATORY****Purpose : To specify pertinent dates and times.**

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	011=Shipped
DTM02	373	Shipped Date	M	DT	8/8	Date expressed as CCYYMMDD

**SEGMENT : IT1****Description : BASELINE ITEM DATA****ANSI Standard : MANDATORY****Navico Processing: MANDATORY****Purpose :** To specify the basic and most frequently used line item data for the invoice and related transaction..

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
IT101	350	Assigned Identification	M	AN	1/8	Customer's Original Purchase Order Line Number. (PO101 of 850)
IT102	358	Quantity Invoiced	M	R	1/10	Number of units invoiced (supplier units)
IT103	355	Unit or Basis for Measurement Code	M	ID	2/2	(PO103 of 850)
IT104	212	Unit Price	M	R	1/17	Price per unit of product, service, commodity, etc.
IT106	235	Product/Service ID Qualifier	M	ID	2/2	BP=Buyer's Part Number
IT107	234	Product//Service	M	AN	1/48	Identifying number for a product or service.
IT108	235	Product/Service ID Qualifier	X	ID	2/2	VP=Seller's Part Number
IT109	234	Product//Service	O	AN	1/48	Identifying number for a product or service.

**SEGMENT : PID****Description : ITEM DESCRIPTION****ANSI Standard : OPTIONAL****Navico Processing: OPTIONAL (Max Use = 1)****Purpose : Free form description of item.**

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
PID01	349	Item Description Type	M	ID	1/1	Code indication the format of a description: F=Free-form
PID05	352	Free Form Description of Item	M	AN	1/80	A free-form description to clarify the related data elements and their content.

**SEGMENT : TDS**  
**Description : TOTAL MONETARY VALUE SUMMARY**  
**ANSI Standard : MANDATORY**  
**Navico Processing: MANDATORY**

**Purpose : To specify the total invoice amounts.**

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
TDS01	610	Total Invoice Amount	M	N2	1/15	Monetary amount

**SEGMENT : CAD**  
**Description : CARRIER DETAIL**  
**ANSI Standard : OPTIONAL**  
**Navico Processing: OPTIONAL (Max Use = 1 )**

**Purpose :** To specify the transportation details for the transaction.

**Notes:** CAD07 & CAD08 should reference the Carrier's (Pro/Invoice) Number if possible.

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
CAD04	140	Standard Carrier Alpha Code	O	ID	2/4	Standard Carrier Alpha Code
CAD05	387	Routing	M	AN	1/35	Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.
CAD07	128	Reference Identification Qualifier	X	ID	2/3	Code qualifying the Reference Identification. BM=Bill of Lading Number CN=Carrier's Reference Number (PRO/Invoice)
CAD08	127	Reference Identification	O	AN	1/30	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.

**SEGMENT : SAC****Description : SERVICE, PROMOTION, ALLOWANCE, OR CHARGE INFORMATION.****ANSI Standard : OPTIONAL****Navico Processing: OPTIONAL (Max Use = 3 )****Purpose : To identify a service or charge.**

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	C=Charge
SAC02	1300	Service, Promotion, Allowance, or Charge Code	M	ID	4/4	D240=Freight H750= Tax – Sales Tax (State and Local) ZZZZ=Mutually Defined
SAC05	610	Amount	M	N2	1/15	Monetary Amount
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	02=Off Invoice
SAC15	352	Description	X	AN	1/80	A free-form description to clarify the related data elements and their content.

**SEGMENT : CTT****Description : TRANSACTION TOTALS****ANSI Standard : MANDATORY****Navico Processing: MANDATORY****Purpose : To transmit a hash total for a specific element in the transaction set.**

---

<b>Field #</b>	<b>Element</b>	<b>Field Name</b>	<b>Req</b>	<b>Type</b>	<b>Size</b>	<b>Navico Usage</b>
CTT01	354	Number of Line Items	M	N0	1/6	



**SEGMENT : SE****Description : TRANSACTION SET TRAILER****ANSI Standard : MANDATORY****Navico Processing: 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	Navico Usage
SE01	96	Number of Included Segments	M	N0	1/6	The Total of all Segments in the transaction set
SE01	329	Transaction Set Control Number	M	AN	4/9	This number must match the transaction set control number (ST02) in the transaction set header segment.

**SEGMENT : GE**  
**Description : FUNCTIONAL GROUP TRAILER**  
**ANSI Standard : MANDATORY**  
**Navico Processing: MANDATORY**

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

---

Field #	Element	Field Name	Req	Type	Size	Navico Usage
GE01	97	Number of Included Sets	M	N0	1/6	Total Number of Transaction Sets Included
GE02	28	Group Control Number	M	N0	1/9	The Data Interchange Control Data Element must match the same Data Element (GS06) in the Functional Group Header Segment

**SEGMENT : IEA****Description : INTERCHANGE CONTROL TRAILER****ANSI Standard : MANDATORY****Navico Processing: 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	Navico Usage
IEA01	I16	Number of Included Groups	M	N0	1/5	Number of Functional Groups
IEA02	I12	Interchange Control Number	M	N0	9/9	

Sample 810 data:

ISA~00~ ~00~ ~ZZ~007139199 ~ZZ~VENDORID ~090110~1106~U~00403~000000422~0~T~@\*  
GS~IN~007139199~VENDORID~20090110~1106~459~X~004030\*  
ST~810~0378\*  
BIG~20090110~777300~20090101~42\*  
REF~IA~123456\*  
N1~ST~NAVICO~92~MEX\*  
DTM~011~20090109\*  
IT1~10000~270~EA~1.45629~~BP~014-0175-15~VP~987654321\*  
PID~F~~~~ID 16MBIT SPI FLSH\*  
TDS~39320\*  
CAD~~~~O~UPSN~~CN~1234567\*  
SE~10~0378\*  
GE~1~459\*  
IEA~1~000000422\*