

ANSI version 4010 810 Invoice Outbound

VERSION: 1.0 FINAL

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Trading Partner:	All



810

Invoice

Functional Group=IN

This Draft Standard for Trial Use 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:

3/070 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.

Segments:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
	ISA	Interchange Control Header	M	1		
	GS	Functional Group Header	M	1		

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		
020	BIG	Beginning Segment for Invoice	M	1		
050	REF	Reference Identification	O	1		

<u>LOOP ID - N1</u>				<u>200</u>
070	N1	Name	O	1
090	N3	Address Information	O	2
100	N4	Geographic Location	O	1
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1
140	DTM	Date/Time Reference	O	1

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
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<u>LOOP ID - IT1</u>				<u>200000</u>
010	IT1	Baseline Item Data (Invoice)	O	1

<u>LOOP ID - PID</u>				<u>1000</u>
060	PID	Product/Item Description	O	1

<u>LOOP ID - SAC</u>				<u>25</u>
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1



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Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
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		N3/070
080	SE	Transaction Set Trailer	M	1		

Segments:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
	GE	Functional Group Trailer	M	1		
	IEA	Interchange Control Trailer	M	1		

ISA

Interchange Control Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 16

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		00 No Authorization Information Present (No Meaningful Information in I02)			
ISA02	I02	Authorization Information	M	AN	10/10
ISA03	I03	Security Information Qualifier	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		00 No Security Information Present (No Meaningful Information in I04)			
ISA04	I04	Security Information	M	AN	10/10
ISA05	I05	Interchange ID Qualifier	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		12 Phone (Telephone Companies)			
ISA06	I06	Interchange Sender ID	M	AN	15/15
		User: 2194614000 Production 2194614462 Test			
ISA07	I05	Interchange ID Qualifier	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		01 Duns (Dun & Bradstreet)			
		09 X.121 (CCITT)			
		12 Phone (Telephone Companies)			
		ZZ Mutually Defined			
ISA08	I07	Interchange Receiver ID	M	AN	15/15
ISA09	I08	Interchange Date	M	DT	6/6
ISA10	I09	Interchange Time	M	TM	4/4
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		U U.S. EDI Community of ASC X12, TDCC, and UCS			
ISA12	I11	Interchange Control Version Number	M	ID	5/5
		<u>Code</u> <u>Name</u>			
		00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997			
ISA13	I12	Interchange Control Number	M	N0	9/9



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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ISA14	I13	Acknowledgment Requested	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		0 No Acknowledgment Requested			
ISA15	I14	Usage Indicator	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		P Production Data			
		T Test Data			
ISA16	I15	Component Element Separator	M		1/1

GS

Functional Group Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 8

To indicate the beginning of a functional group and to provide control information

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
GS01	479	Functional Identifier Code <u>Code Name</u> IN Invoice Information (810,819)	M	ID	2/2
GS02	142	Application Sender's Code	M	AN	2/15
GS03	124	Application Receiver's Code	M	AN	2/15
GS04	373	Date	M	DT	8/8
GS05	337	Time	M	TM	4/8
GS06	28	Group Control Number	M	N0	1/9
GS07	455	Responsible Agency Code <u>Code Name</u> X Accredited Standards Committee X12	M	ID	1/2
GS08	480	Version / Release / Industry Identifier Code <u>Code Name</u> 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12

ST

Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To indicate the start of a transaction set and to assign a control number

Semantics:

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3
		<u>Code</u> <u>Name</u>			
		810 Invoice			
ST02	329	Transaction Set Control Number	M	AN	4/9



BIG

Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

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

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.

Comments:

1. BIG07 is used only to further define the type of invoice when needed.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
BIG01	373	Date	M	DT	8/8
BIG02	76	Invoice Number	M	AN	1/22
BIG03	373	Date	O	DT	8/8
BIG04	324	Purchase Order Number	O	AN	1/22
BIG07	640	Transaction Type Code	O	ID	2/2
		<u>Code Name</u>			
		CR Credit Memo			
		DR Debit Memo			



REF Reference Identification

Pos: 050	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

Vendor Reference ID Number

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
REF01	128	Reference Identification Qualifier <u>Code Name</u> VR Vendor ID Number	M	ID	2/3
REF02	127	Reference Identification	C	AN	1/30

N1

Name

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

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

Syntax:

- R0203 -- At least one of N102 or N103 is required.
- P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

- This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N101	98	Entity Identifier Code	M	ID	2/3
		<u>Code</u> <u>Name</u>			
		BT Bill-to-Party			
		RE Party to receive commercial invoice remittance			
		ST Ship To			
N102	93	Name	C	AN	1/60
N103	66	Identification Code Qualifier	C	ID	1/2
		<u>Code</u> <u>Name</u>			
		1 D-U-N-S Number,Dun & Bradstreet			
		2 Standard Carrier Alpha Code (SCAC)			
		9 D-U-N-S+4,D-U-N-S Number with Four Character Suffix			
		12 Telephone Number (Phone)			
		92 Assigned by Buyer or Buyer's Agent			
		ZZ Mutually Defined			
N104	67	Identification Code	C	AN	2/80

N3

Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N301	166	Address Information	M	AN	1/55
N302	166	Address Information	O	AN	1/55

N4

Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 3

To specify the geographic place of the named party

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N401	19	City Name	O	AN	2/30
N402	156	State or Province Code	O	ID	2/2
N403	116	Postal Code	O	ID	3/15

ITD

Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 7

To specify terms of sale

Syntax:

1. ITD03 L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. ITD08 L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. ITD09 L091011 -- If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ITD01	336	Terms Type Code	O	ID	2/2
		<u>Code Name</u>			
		14 Previously agreed upon			
		ZZ Mutually Defined			
ITD02	333	Terms Basis Date Code	O	ID	1/2
		<u>Code Name</u>			
		3 Invoice Date			
ITD03	338	Terms Discount Percent	O	R	1/6
ITD04	370	Terms Discount Due Date	C	DT	8/8
ITD06	446	Terms Net Due Date	O	DT	8/8
ITD08	362	Terms Discount Amount	O	N2	1/10
ITD12	352	Description	O	AN	1/80

DTM Date/Time Reference

Pos: 140	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

Ship Date

Syntax:

- R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
- C0403 -- If DTM04 is present, then DTM03 is required
- P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3
		<u>Code</u> <u>Name</u>			
		011 Shipped			
DTM02	373	Date	C	DT	8/8



IT1

Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 11

To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax:

1. IT102 P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
2. IT106 P0607 -- If either IT106 or IT107 are present, then the others are required.
3. IT108 P0809 -- If either IT108 or IT109 are present, then the others are required.
4. IT110 P1011 -- If either IT110 or IT111 are present, then the others are required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
IT101	350	Assigned Identification	O	AN	1/20
IT102	358	Quantity Invoiced	M	R	1/10
IT103	355	Unit or Basis for Measurement Code	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		EA Each			
		FT Foot			
		LB Pound			
		PC Piece			
IT104	212	Unit Price	C	R	1/17
IT105	639	Basis of Unit Price Code	O	ID	2/2
		<u>Code</u> <u>Name</u>			
		HF Per 100 Feet			
		HP Price per Hundred			
		PE Price per Each			
		PF Price Per Foot			
		PP Price per Pound			
		TC Contract Price per Hundred			
		TE Contract Price per Each			
		TF Per 1000 Feet			
		TM Contract Price per Thousand			
IT106	235	Product/Service ID Qualifier	C	ID	2/2
		<u>Code</u> <u>Name</u>			
		VP Vendor's (Seller's) Part Number			
IT107	234	Product/Service ID	C	AN	1/48



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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
IT108	235	Product/Service ID Qualifier <u>Code Name</u> BP Buyer's Part Number	C	ID	2/2
IT109	234	Product/Service ID	C	AN	1/48
IT110	235	Product/Service ID Qualifier <u>Code Name</u> UP U.P.C. Consumer Package Code (1-5-5-1)	C	ID	2/2
IT111	234	Product/Service ID	C	AN	1/48

PID Product/Item Description

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

Syntax:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
PID01	349	Item Description Type	M	ID	1/1
		<u>Code Name</u>			
		F Free-form			
PID05	352	Description	C	AN	1/80



SAC

Service, Promotion, Allowance, or Charge Information

Pos: 180	Max: 1
Detail - Optional	
Loop: SAC	Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		A Allowance			
		C Charge			
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4
		<u>Code</u> <u>Name</u>			
		B920 Cut and Parallel			
		D240 Freight			
		E190 Labor Charges			
		E620 Metals Surcharge			
		E820 Non-returnable Containers			
		F050 Other (See related description)			
		G740 Service Charge			
SAC05	610	Amount	O	N2	1/15
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2
		<u>Code</u> <u>Name</u>			
		02 Off Invoice			
		06 Charge to be Paid by Customer			
SAC15	352	Description	C	AN	1/80

CAD Carrier Detail

Pos: 030	Max: 1
Summary - Optional	
Loop: N/A	Elements: 4

To specify transportation details for the transaction

Syntax:

1. CAD05 R0504 -- At least one of CAD05 or CAD04 is required.
2. CAD07 C0708 -- If CAD07 is present, then CAD08 is required

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
CAD01	91	Transportation Method/Type Code <u>Code Name</u> ZZ Mutually defined	O	ID	1/2
CAD05	387	Routing	C	AN	1/35
CAD07	128	Reference Identification Qualifier <u>Code Name</u> BM Bill of Lading Number	O	ID	2/3
CAD08	127	Reference Identification	C	AN	1/30



SAC

Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1
		<u>Code Name</u>			
		A Allowance			
		C Charge			
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4
		<u>Code Name</u>			
		B920 Cut and Parallel			
		D240 Freight			
		E190 Labor Charges			
		E620 Metals Surcharge			
		E820 Non-returnable Containers			
		F050 Other (See related description)			
		G740 Service Charge			
SAC05	610	Amount	O	N2	1/15
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2
		<u>Code Name</u>			
		02 Off Invoice			
		06 Charge to be Paid by Customer			
SAC15	352	Description	C	AN	1/80

CTT Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 4

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

Syntax:

1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.
2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
CTT01	354	Number of Line Items	M	N0	1/6
CTT02	347	Hash Total	O	R	1/10
CTT03	81	Weight	C	R	1/10
CTT04	355	Unit or Basis for Measurement Code	C	ID	2/2
		<u>Code Name</u>			
		LB Pound			

SE Transaction Set Trailer

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Comments:

1. SE is the last segment of each transaction set.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SE01	96	Number of Included Segments	M	N0	1/10
SE02	329	Transaction Set Control Number	M	AN	4/9

GE**Functional Group Trailer**

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

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

Semantics:

- The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

- The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6
GE02	28	Group Control Number	M	N0	1/9

IEA**Interchange Control Trailer**

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5
IEA02	I12	Interchange Control Number	M	N0	9/9