# **Gexpro Guideline for 810-Invoice**

X12 ANSI Verion 4010

### 810

### **Invoice - Version 4010**

#### 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**: **N3/070** 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.

#### **Heading:**

Pos	<u>Id</u>	Segment Name	Req	Max Use	Repeat	Notes	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
040	CUR	Currency	O	1			Used
LOOP I			<u>200</u>				
070	N1	Name	O	1			Must use
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used
110	REF	Reference Identification	O	12			Must use
120	PER	Administrative Communications Contact	O	3			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	О	>1			Used
140	DTM	Date/Time Reference	O	10			Used

#### **Detail:**

<u>Pos</u>	<u>Id</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
LOOP I	D - IT1				200000		
010	IT1	Baseline Item Data (Invoice)	M	1			Must use
LOOP I	D - PID				1000		
060	PID	Product/Item Description	O	1			Used
070	MEA	Measurements	O	10			Used
090	PKG	Marking, Packaging, Loading	О	25			Used
LOOP I	D - SAC				<u>25</u>		
180	SAC	Service, Promotion, Allowance, or Charge Information	0	1			Used
LOOP I	D - SLN				<u>1000</u>		
200	SLN	Subline Item Detail	О	1			Used
210	REF	Reference Identification	O	>1			Used
230	SAC	Service, Promotion, Allowance, or Charge Info	O	25			Used

#### **Summary:**

Pos	<u>Id</u>	Segment Name	Req	Max Use	Repeat	Notes	<u>Usage</u>
010 030	TDS CAD	Total Monetary Value Summary Carrier Detail	M O	1 1			Must use Used
LOOP I	D - SAC				<u>25</u>		
040	SAC	Service, Promotion, Allowance, or Charge Info	О	1			Not Used
070	CTT	Transaction Totals	О	1		N3/070	Used
080	SE	Transaction Set Trailer	M	1			Must use

### 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:**

1. 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).

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
ST01	143	Transaction Set Identifier Code  Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
ST02	329	All valid standard codes are used.  Transaction Set Control Number	M	AN	4/9	Must
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				use

### **BIG**

### **Beginning Segment for Invoice**

Pos: 020 Max: 1 Heading - Mandatory Loop: N/A Elements: 7

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.
- 3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

#### **Comments:**

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

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
BIG01	373	Date Description: Date expressed as CCYYMMDD Mapper Notes: Invoice Date	M	DT	8/8	Must use
BIG02	76	Invoice Number Description: Identifying number assigned by issuer Mapper Notes: Invoice number can not contain a leading zero	M	AN	1/22	Must use
BIG03	373	Example: 0123456 is not acceptable.  Date Description: Date expressed as CCYYMMDD	0	DT	8/8	Used
BIG04	324	Mapper Notes: PO Date  Purchase Order Number  Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Used
BIG05	328	Mapper Notes: MANDATORY.  Release Number Description: Number identifying a release against a Purchase Order	0	AN	1/30	Used
BIG06	327	mapper Notes: PO amendment number  Change Order Sequence Number	0	AN	1/8	Used
DIGUU	321	Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set  Mapper Notes: PO amendment number.	Ü	AIV	1/0	oscu
BIG07	640	Transaction Type Code  Description: Code specifying the type of transaction  Code Name  CR Credit Memo DR Debit Memo	0	ID	2/2	Used

### **CUR** Currency

Pos: 040 Max: 1 Heading - Optional Loop: N/A Elements: 9

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

#### Syntax:

- 1. CUR08 C0807 -- If CUR08 is present, then CUR07 is required
- 2. CUR09 C0907 -- If CUR09 is present, then CUR07 is required
- 3. CUR10 L101112 -- If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 4. CUR11 C1110 -- If CUR11 is present, then CUR10 is required
- 5. CUR12 C1210 -- If CUR12 is present, then CUR10 is required
- 6. CUR13 L131415 -- If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 7. CUR14 C1413 -- If CUR14 is present, then CUR13 is required
- 8. CUR15 C1513 -- If CUR15 is present, then CUR13 is required
- 9. CUR16 L161718 -- If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 10. CUR17 C1716 -- If CUR17 is present, then CUR16 is required
- 11. CUR18 C1816 -- If CUR18 is present, then CUR16 is required
- 12. CUR19 L192021 -- If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 13. CUR20 C2019 -- If CUR20 is present, then CUR19 is required
- 14. CUR21 C2119 -- If CUR21 is present, then CUR19 is required

#### **Comments:**

1. See Figures Appendix for examples detailing the use of the CUR segment.

Element Name	Req	<b>Type</b>	Min/Max	Usage
Entity Identifier Code  Description: Code identifying an organizational entity, a physical location, property or an individual  Code Name  BY Buying Party (Purchaser)	M	ID	2/3	Must use
Currency Code  Description: Code (Standard ISO) for country in whose currency the charges are specified  Mapper Notes: ISO two character country code	M	ID	3/3	Must use
Exchange Rate  Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	0	R	4/10	Used
Entity Identifier Code  Description: Code identifying an organizational entity, a physical location, property or an individual  Code Name  SE Selling Party	O	ID	2/3	Used
Currency Code  Description: Code (Standard ISO) for country in whose currency the charges are specified  Mapper Notes: ISO Two character code.	0	ID	3/3	Used
	Entity Identifier Code  Description: Code identifying an organizational entity, a physical location, property or an individual  Code Name  BY Buying Party (Purchaser)  Currency Code  Description: Code (Standard ISO) for country in whose currency the charges are specified  Mapper Notes: ISO two character country code  Exchange Rate  Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another  Entity Identifier Code  Description: Code identifying an organizational entity, a physical location, property or an individual  Code Name  SE Selling Party  Currency Code  Description: Code (Standard ISO) for country in whose currency the	Entity Identifier Code  Description: Code identifying an organizational entity, a physical location, property or an individual  Code Name  BY Buying Party (Purchaser)  Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified  Mapper Notes: ISO two character country code  Exchange Rate Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another  Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual  Code Name  SE Selling Party  Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	Entity Identifier Code  Description: Code identifying an organizational entity, a physical location, property or an individual  Code Name  BY Buying Party (Purchaser)  Currency Code  Description: Code (Standard ISO) for country in whose currency the charges are specified  Mapper Notes: ISO two character country code  Exchange Rate  Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another  Entity Identifier Code  Description: Code identifying an organizational entity, a physical location, property or an individual  Code Name  SE Selling Party  Currency Code  Description: Code (Standard ISO) for country in whose currency the charges are specified	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Name BY Buying Party (Purchaser)  Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified  Mapper Notes: ISO two character country code  Exchange Rate Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another  Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Name SE Selling Party  Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified

Ref _	<u>Id</u> _	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
CUR06	669	Currency Market/Exchange Code Description: Code identifying the market upon which the currency	0	ID	3/3	Used
		exchange rate is based				
CUR07	374	Date/Time Qualifier	C	ID	3/3	Used
		<b>Description:</b> Code specifying type of date or time, or both date and time				
		All valid standard codes are used.				
CUR08	373	Date	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD				
CUR09	337	Time	o	TM	4/8	Used
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM,				
		or HHMMSSD, or HHMMSSDD, where H = hours (00-				
		23), $M = minutes (00-59)$ , $S = integer seconds (00-59) and DD = decimal$				
		seconds; decimal seconds are expressed as follows: $D = tenths (0-9)$ and				
		DD = hundredths (00-99)				

### N1 Name

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

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

#### Syntax:

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

#### **Comments:**

- 1. 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.
- 2. N105 and N106 further define the type of entity in N101.

Ref _	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
N101	98	Entity Identifier Code  Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		Mapper Notes: The ship To address is mandatory whenever the material is indicated as a direct ship by the Gexpro business. <u>Code Name</u>				
		ST Ship To				
N102	93	RE Remit To  Name  Description: Free-form name	C	AN	1/60	Used
N103	66	Identification Code Qualifier  Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used
N104	67	All valid standard codes are used.  Identification Code  Description: Code identifying a party or other code	C	AN	2/80	Used

### N3 Address Information

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

To specify the location of the named party

<u>Ref</u>	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Must use
N302	166	Address Information  Description: Address information	0	AN	1/55	Used

### **N4**

### **Geographic Location**

Pos: 100 Max: 1 Heading - Mandatory Loop: N1 Elements: 4

To specify the geographic place of the named party

#### Syntax:

1.  $N406\ C0605$  -- If N406 is present, then N405 is required

#### **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.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code  Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code  Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	0	ID	3/15	Used
N404	26	Country Code  Description: Code identifying the country	0	ID	2/3	Used

### **REF**

### **Reference Identification**

Pos: 110 Max: 12 Heading - Mandatory Loop: N1 Elements: 3

To specify identifying information

#### Syntax:

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

#### Notes:

At least two REF's are expected and are MANDATORY for every invoice sent to Gexpro:

REF01 with the BM qualifier and REF02 containing the Bill of Lading number AND

REF01 with the ZZ qualifier and REF02 containing Gexpro's Vendor assigned AP CODE (6 digit alphanumeric number)

All other qualified REF01 listed below outside of above mentioned are optional.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Code Name	M	ID	2/3	Must use
		BC Buyer's Contract Number  BM Bill of Lading Number  CN Carrier's Reference Number (PRO/Invoice)  DK Dock Number  ED Export Declaration  LS Bar-Coded Serial Number  OB Ocean Bill of Lading  OI Original Invoice Number  PK Packing List Number  VM Ward  ZZ Mutually Defined				
REF02	127	Reference Identification  Description: Reference information as defined for a particular  Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
REF03	352	Description  Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Used

### **PER**

## **Administrative Communications Contact**

Pos: 120 Max: 3 Heading - Optional Loop: N1 Elements: 2

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

#### Syntax:

- 1. PER03 P0304 -- If either PER03 or PER04 are present, then the others are required.
- 2. PER05 P0506 -- If either PER05 or PER06 are present, then the others are required.
- 3. PER07 P0708 -- If either PER07 or PER08 are present, then the others are required.

Ref _	<u>Id_</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage_
PER01	366	Contact Function Code  Description: Code identifying the major duty or responsibility of the person or group named  Code Name	M	ID	2/2	Must use
		AD Accounting Department BD Buyer Name or Department IC Information Contact				
PER02	93	Name Description: Free-form name	0	AN	1/60	Used
		<b>Mapper Notes:</b> For temporary or contract personnel billing the temporary or contract employee's manager should be specified in PER02, with a qualifier of IC in PER01, within the N1*ST loop				

### ITD

### Terms of Sale/Deferred Terms of Sale

Pos: 130 Max: >1 Heading - Optional Loop: N/A Elements: 8

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.

#### **Mapper Notes:**

Only the 05, 08, and ZZ codes are valid in ITD01. If the ITD segment is not provided, it will default to standard terms of settlement.

Do not use ITD unless a discount is offered.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
ITD01	336	Terms Type Code  Description: Code identifying type of payment terms  Code Name  05 Discount Not Applicable 08 Basic Discount Offered ZZ Mutually Defined	O	ID	2/2	Used
ITD02	333	Terms Basis Date Code  Description: Code identifying the beginning of the terms period  Code Name  3 Invoice Date	0	ID	1/2	Used
ITD03	338	Terms Discount Percent  Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O	R	1/6	Used
ITD04	370	Terms Discount Due Date  Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD	C	DT	8/8	Used
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned	C	N0	1/3	Used
ITD06	446	Terms Net Due Date	O	DT	8/8	Used

Ref _	<u>Id_</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage_</u>
		<b>Description:</b> Date when total invoice amount becomes due expressed in format CCYYMMDD				
ITD07	386	Terms Net Days  Description: Number of days until total invoice amount is due (discount not applicable)	0	N0	1/3	Used
ITD08	362	Terms Discount Amount Description: Total amount of terms discount	0	N2	1/10	Used

### **DTM**

### **Date/Time Reference**

Pos: 140 Max: 10 Heading - Optional Loop: N/A Elements: 2

To specify pertinent dates and times

#### Syntax:

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

Ref _	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
DTM01	374	<ul> <li>Date/Time Qualifier</li> <li>Description: Code specifying type of date or time, or both date and time</li> <li><u>Code</u> <u>Name</u></li> </ul>	M	ID	3/3	Must use
		011 Shipped 091 Report End				
DTM02	373	Date Description: Date expressed as CCYYMMDD	C	DT	8/8	Used

### **IT1** Baseline Item Data (Invoice)

Pos: 010 Max: 1
Detail - Mandatory
Loop: IT1 Elements: 7

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.
- 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.

**MAPPER NOTES**: Example of PO Line sent: PO1~001~16~EA~12.71~PE~UI~78656452430~VC~880MP~BP~78033252430 RETURN ON INVOICE AS: IT1~001~16~EA~12.71~PE~UI~78656452430~VC\*880MP~BP~78033252430

<u>Ref</u>	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
IT101	350	<ul> <li>Assigned Identification</li> <li>Description: Alphanumeric characters assigned for differentiation within a transaction set</li> </ul>	M	AN	3/3	Must Use
		<b>Mapper Notes:</b> MANDATORY. Must be the same as purchase order line number sent by Gexpro. EXAMPLE: 001. Must be 3 digits long.				
IT102	358	Quantity Invoiced  Description: Number of units invoiced (supplier units)	С	R	1/10	Must Use
IT103	355	Unit or Basis for Measurement Code  Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Must Use
		Mapper Notes: Must be the same as purchase order All valid standard codes are used.				
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	C	R	1/17	Must Use
IT105	639	Basis of Unit Price Code  Description: Code identifying the type of unit price for an item	M	ID	2/2	Must Use
		Mapper Notes: If IT105 is not used, it will default to PE.  Code Name				
		HP Price per Hundred NC No Charge				

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
		PE Price per Each TF Per 1000 Feet TP Price per Thousand				
IT106	235	Product/Service ID Qualifier  Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used
		Mapper Notes: This is the same qualifier sent in PO106  Code Name  UI UPC number				
IT107	234	Product/Service ID  Description: Identifying number for a product or service  Mapper Notes: This is sent on Gexpro's PO in PO107	C	AN	1/48	Used
IT108	235	Product/Service ID Qualifier  Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)  Mapper Notes: This is the same qualifier sent in PO108  Code Name	C	ID	2/2	Used
		VC Vendor Catalog Number				
IT109	234	Product/Service ID  Description: Identifying number for a product or service  Mapper Notes: This is sent on Gexpro's PO in PO109	C	AN	1/48	Used
IT110	235	Product/Service ID Qualifier  Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)  Mapper Notes: This is the same qualifier sent in PO110. This is our NAED#	С	ID	2/2	Used
		Code Name  BP Buyer's Part Number				
IT111	234	Product/Service ID  Description: Identifying number for a product or service  Mapper Notes: This is sent on Gexpro's PO in PO111	C	AN	1/48	Used

### **PID**

### **Product/Item Description**

Pos: 060 Max: 1
Detail - Optional
Loop: PID Elements: 5

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.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

#### **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.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

Ref _	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage_</u>
PID01	349	Item Description Type Description: Code indicating the format of a description  Code Name  F Free-form	M	ID	1/1	Must use
PID02	750	Product/Process Characteristic Code  Description: Code identifying the general class of a product or process characteristic	0	ID	2/3	Used
PID03	559	All valid standard codes are used.  Agency Qualifier Code  Description: Code identifying the agency assigning the code values	C	ID	2/2	Used
PID04	751	All valid standard codes are used.  Product Description Code  Description: A code from an industry code list which provides specific data about a product characteristic	C	AN	1/12	Used
PID05	352	Description  Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Used

### **MEA** Measurements

Pos: 070 Max: 10
Detail - Optional
Loop: PID Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

#### Syntax:

- 1. MEA03 R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
- 2. MEA05 C0504 -- If MEA05 is present, then MEA04 is required
- 3. MEA06 C0604 -- If MEA06 is present, then MEA04 is required
- 4. MEA07 L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- 5. MEA08 E0803 -- Only one of MEA08 or MEA03 may be present.

#### **Semantics:**

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

#### **Comments:**

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
MEA01	737	Measurement Reference ID Code  Description: Code identifying the broad category to which a measurement applies  Code Name	О	ID	2/2	Used
		PD Physical Dimensions				
MEA02	738	Measurement Qualifier  Description: Code identifying a specific product or process characteristic to which a measurement applies  Code Name  GG Gauge LN Length WD Width	O	ID	1/3	Used
MEA03	739	Measurement Value Description: The value of the measurement	C	R	1/20	Used
MEA04	C001	Composite Unit of Measure  Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used
	355	Unit or Basis for Measurement Code  Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Must use
MEA05	740	Mapper Notes: Per GXS 12.00  All valid standard codes are used.  Range Minimum  Description: The value specifying the minimum of the measurement range	C	R	1/20	Used

Ref_	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage_
MEA06	741	Range Maximum	C	R	1/20	Used
		<b>Description:</b> The value specifying the maximum of the measurement range				

### PKG Marking, Packaging, Loading

Pos: 090 Max: 25 Detail - Optional Loop: IT1 Elements: 5

To describe marking, packaging, loading, and unloading requirements

#### Syntax:

- 1. PKG04 R040506 -- At least one of PKG04, PKG05 or PKG06 is required.
- 2. PKG04 C0403 -- If PKG04 is present, then PKG03 is required
- 3. PKG05 C0501 -- If PKG05 is present, then PKG01 is required

#### **Semantics:**

1. PKG04 should be used for industry-specific packaging description codes.

#### **Comments:**

- 1. Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
- 2. If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.
- 3. Use PKG03 to indicate the organization that publishes the code list being referred to.
- 4. Special marking or tagging data can be given in PKG05 (description).

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
PKG01	349	Item Description Type Description: Code indicating the format of a description  Code Name	C	ID	1/1	Used
		S Structured (From Industry Code List)				
PKG02	753	Packaging Characteristic Code  Description: Code specifying the marking, packaging, loading and related characteristics being described  Code Name  Tagging/Bar Code Instructions	0	ID	1/5	Used
PKG03	559	Agency Qualifier Code  Description: Code identifying the agency assigning the code values  All valid standard codes are used.	C	ID	2/2	Used
PKG04	754	Packaging Description Code  Description: A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product	C	AN	1/7	Used
PKG05	352	Description  Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Used

### SAC

# Service, Promotion, Allowance, or Charge Information

Pos: 180 Max: 1 Detail - Optional Loop: SAC Elements: 6

#### 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.
- 3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 4. SAC08 is the allowance or charge rate per unit.
- 5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
- SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
- 7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 9. SAC16 is used to identify the language being used in SAC15.

#### **Comments:**

- SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- 2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" Dollars in SAC09.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
SAC01	248	Allowance or Charge Indicator  Description: Code which indicates an allowance or charge for the service specified  Code Name	M	ID	1/1	Must use
		A Allowance C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code  Description: Code identifying the service, promotion, allowance, or charge	C	ID	4/4	Used
		Mapper Notes: Mandatory if this segment is used.				
		Code Name  C880 Expediting Premium  D240 Freight  E190 Labor Charges  F910 Quantity Discount				
		21				

Ref _	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage_
		G510 Returnable Container G740 Service Charge H750 Tax - Sales Tax (State and Local) ZZZZ Mutually Defined				
SAC03	559	Agency Qualifier Code	C	ID	2/2	Used
		<b>Description:</b> Code identifying the agency assigning the code values				
		Mapper Notes: Mandatory if this segment is used.				
		Code Name				
		AX ANSI Accredited Standards Committee, X12				
SAC05	610	Amount	O	N2	1/15	Used
		<b>Description:</b> Monetary amount				
		Mapper Notes: Mandatory if this segment is used.				
SAC12	331	Allowance or Charge Method of Handling Code	0	ID	2/2	Used
2		<b>Description:</b> Code indicating method of handling for an allowance or				
		charge All valid standard codes are used.				
SAC14	770	Option Number	0	AN	1/20	Used
	. 7 0	<b>Description:</b> A unique number identifying available promotion or allowance options when more than one is offered	J		-, <b>-</b> v	224

### **SLN** Subline Item Detail

Pos: 200 Max: 1
Detail - Optional
Loop: SLN Elements: 10

To specify product subline detail item data

#### Syntax:

- 1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
- 2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
- 3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
- 4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
- 5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
- 6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
- 7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
- 8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
- 9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
- 10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
- 11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
- 12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
- 13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

#### **Semantics:**

- 1. SLN01 is the identifying number for the subline item.
- 2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

- 1. See the Data Element Dictionary for a complete list of IDs.
- 2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
- 3. SLN09 through SLN28 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.

#### **Mapper Notes:**

The purpose of the SLN segment in a Gexpro Invoice is to give a breakdown of information relating to that base-line item.

Do not use the SLN loop unless specifically requested by Gexpro.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
SLN01	350	- Assigned Identification  Description: Alphanumeric characters assigned for differentiation within a transaction set	M	AN	1/20	Must use
		<b>Mapper Notes:</b> Example: 1.1 or 1A might be used as a subline number or relate as a derivative of base-line number.				
SLN02	350	Assigned Identification  Description: Alphanumeric characters assigned for differentiation within a transaction set	0	AN	1/20	Used
SLN03	662	Relationship Code  Description: Code indicating the relationship between entities  All valid standard codes are used.	M	ID	1/1	Must use

Ref _	<u>Id_</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SLN04	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
SLN05	C001	Composite Unit of Measure  Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used
	355	Unit or Basis for Measurement Code  Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Must use
		Mapper Notes: Per GXS pub 12.00 All valid standard codes are used.				
SLN06	212	Unit Price Description: Price per unit of product, service, commodity, etc.	C	R	1/17	Used
SLN07	639	Basis of Unit Price Code  Description: Code identifying the type of unit price for an item	O	ID	2/2	Used
SLN08	662	All valid standard codes are used.  Relationship Code  Description: Code indicating the relationship between entities	0	ID	1/1	Used
SLN09	235	All valid standard codes are used.  Product/Service ID Qualifier  Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used
SLN10	234	All valid standard codes are used.  Product/Service ID  Description: Identifying number for a product or service	C	AN	1/48	Used

### **REF**

### **Reference Identification**

Pos: 210 Max: >1
Detail - Optional
Loop: SLN Elements: 3

To specify identifying information

#### Syntax:

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

#### **Semantics:**

 $1. \quad REF04 \ contains \ data \ relating \ to \ the \ value \ cited \ in \ REF02.$ 

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
REF01	128	<ul><li>Reference Identification Qualifier</li><li>Description: Code qualifying the Reference Identification</li></ul>	M	ID	2/3	Must use
REF02	127	All valid standard codes are used.  Reference Identification  Description: Reference information as defined for a particular  Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
REF03	352	Description  Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Used

### SAC

# Service, Promotion, Allowance, or Charge Information

Pos: 230 Max: 25
Detail - Optional
Loop: SLN Elements: 6

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.
- 3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 4. SAC08 is the allowance or charge rate per unit.
- 5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
- 6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
- 7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 9. SAC16 is used to identify the language being used in SAC15.

#### **Comments:**

- SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or
  promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC
  segment in SAC10 using the qualifier "DO" Dollars in SAC09.

Ref _	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage_
SAC01	248	Allowance or Charge Indicator  Description: Code which indicates an allowance or charge for the service specified  Code Name  A Allowance C Charge	M	ID	1/1	Must use
SAC02	1300	Service, Promotion, Allowance, or Charge Code  Description: Code identifying the service, promotion, allowance, or charge  Mapper Notes: Mandatory if this segment is used  Code Name	C ID	ID	4/4	Used
		C880 Expediting Premium D240 Freight E190 Labor Charges F910 Quantity Discount				

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage_
		G510 Returnable Container G740 Service Charge H750 Tax - Sales Tax (State and Local) ZZZZ Mutually Defined				
SAC03	559	Agency Qualifier Code	C	ID	2/2	Used
		<b>Description:</b> Code identifying the agency assigning the code values				
		Mapper Notes: Mandatory if this segment is used.				
		Code Name				
		AX ANSI Accredited Standards Committee, X12				
SAC05	610	Amount	0	N2	1/15	Used
		<b>Description:</b> Monetary amount				
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Used
		<b>Description:</b> Code indicating method of handling for an allowance or charge				
		All valid standard codes are used.				
SAC14	770	Option Number	0	$\mathbf{A}\mathbf{N}$	1/20	Used
		<b>Description:</b> A unique number identifying available promotion or allowance options when more than one is offered				

### **TDS**

### **Total Monetary Value Summary**

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

To specify the total invoice discounts and amounts

#### **Semantics:**

- 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.
- 3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4. TDS04 indicates the total amount of terms discount.

#### **Comments:**

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
TDS01	610	Amount Description: Monetary amount	M	N2	1/15	Must use
TDS02	610	Amount Description: Monetary amount	0	N2	1/15	Used
		<b>Mapper Notes:</b> Use only if discount is offered (ITD01 = 08) and the amount that can be discounted is not equal to the total invoice amount (TDS01) after trade discount, but before cash discount.				

### **CAD** Carrier Detail

Pos: 030 Max: 1 Summary - Optional Loop: N/A Elements: 2

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

Ref _	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
CAD04	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	C	ID	2/4	Used
CAD05	387	Routing  Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35	Used
		<b>Mapper Notes:</b> Specify the origin carrier's name and, if available, its SCAC code.				

### SAC

# Service, Promotion, Allowance, or Charge Information

Pos: 040 Max: 1 Summary - Optional Loop: SAC Elements: 6

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.
- 3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 4. SAC08 is the allowance or charge rate per unit.
- 5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
- 6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
- SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 9. SAC16 is used to identify the language being used in SAC15.

#### **Comments:**

- 1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or
  promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC
  segment in SAC10 using the qualifier "DO" Dollars in SAC09.

#### **Mapper Notes:**

This SAC segment is only accepted for Drop Ship Orders. Freight and misc charges are not accepted on invoices of stock orders. The identifying difference is that AA is at the end of our PO for drop ships.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
SAC01	248	Allowance or Charge Indicator  Description: Code which indicates an allowance or charge for the service specified  Code Name	M	ID	1/1	Must use
		A Allowance C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code  Description: Code identifying the service, promotion, allowance, or charge	С	ID	4/4	Used

Ref _	<u>Id_</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage_
		Mapper Notes: Mandatory if this segment is used  Code Name  D240 Freight H750 Tax - Sales Tax (State and Local)				
SAC03	559	Agency Qualifier Code  Description: Code identifying the agency assigning the code values  Mapper Notes: Mandatory if this segment is used  Code Name  AX ANSI Accredited Standards Committee, X12	С	ID	2/2	Used
SAC05	610	Amount	O	N2	1/15	Used
		<b>Mapper Notes:</b> Mandatory if this segment is used.				
SAC12	331	Allowance or Charge Method of Handling Code  Description: Code indicating method of handling for an allowance or charge  All valid standard codes are used.	0	ID	2/2	Used
SAC14	770	Option Number  Description: A unique number identifying available promotion or allowance options when more than one is offered	0	AN	1/20	Used

### **CTT** Transaction Totals

Pos: 070 Max: 1 Summary - Optional Loop: N/A Elements: 2

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.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
CTT01	354	Number of Line Items  Description: Total number of line items in the transaction set  Mapper Notes: Number of line items (CTT01) is the accumulation of the number of IT1 segments.	M	N0	1/6	Must use
CTT02	347	Hash Total  Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example:0018 First occurrence of value beinghashed18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed1855 Hash total prior to truncation.855 Hash total after truncation tothree-digit field.  Mapper Notes: If used, hash total (CTT02) is the sum of the values of quantity invoiced (ITA01) for each IT1 segment and free goods (ITA12) for each ITA segment.	O	R	1/10	Used

### **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.

Ref	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage
SE01	96	Number of Included Segments  Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number Description:</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	Must use