EDIFICE The Global Network for B2B Integration in High Tech Industries

Revision History

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OVERVIEW

1. FUNCTIONAL DEFINITION

This Draft Standard for Trial Use contains the format and establishes the data content of the Price Authorization Acknowledgment/Status Transaction Set (845) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a vendor or manufacturer to transmit specific data relative to the status of or changes to outstanding price authorizations.

2. CONSIDERATIONS

N/A.

3. TRADING PARTNERS

1. Any sender to any receiver.

4. EDIFICE BUSINESS MODELS

This is a simple recast/version upgrade of an existing EDIFICE guideline. Business models were not re-evaluated.

5. FIELD OF APPLICATION

This transaction may be applied for both national and international trade. It is based on universal commercial practice and is not dependent on the type of business or industry.

6. FORMAT

The transmission in the ASC X12 format uses two required envelopes. One is the ISA Interchange Control Header Segment, which starts and identifies an interchange of zero or more functional groups and interchange-related control segments. The ISA includes the sender's mailbox address and a receiver's mailbox address, and specifies which delimiter (a/k/a control, service) characters (data element separator, component element separator and data segment terminator) are being used.

There are no default service characters reserved for use in ASC X12. Allowable service characters should be discussed between trading partners.

The second required envelope is GS Functional Group Header, which indicates the beginning of a functional group and provides group level control information. The GS segment includes functional group level sender and receiver addresses, typically used by the trading partner(s) for internal routing. The GS also includes the GS08 ASC X12 Version/Release/Industry Identifier Code. EDIFICE does not recommend the use of an Industry Identifier code.

The functional groups are analogous to batches of like documents, i.e. purchase orders, invoices, etc. Each functional group contains one ore more transaction sets (electronic documents).

Each transaction set is an ordered collection of segments.

Each segment is an ordered collection of data elements. Each segment has been assigned a two or three character identifier. This identifier marks the beginning of each segment. Each element within the segment is separated by a data element delimiter. EDIFICE recommends the use of the asterisk (*) character as a data element delimiter. A segment terminator character is used to mark the end of a segment.

Any shaded areas indicate EDIFICE recommended usage and comment.

7. ATTRIBUTES

Each data element has three ANSI attributes: Element usage, element type and minimum/maximum length. EDIFICE has additional usage indicated for optional segments and elements which are noted in the following table.

MARGIN	ATTRIBUTE	DE NOTE	MEANING
Must Use	M (Mandatory)	N/A	If a segment, composite, or stand alone data element is mandatory according to the standard, EDIFICE cannot change the mandatory status on that component. *DATA ELEMENT within a COMPOSITE:* A data element within a composite is mandatory only if the composite is used.
X	C or X (Conditional) or O (Optional)	No note or NOT USED	EDIFICE has determined no value in supplying the composite or data element; hence, it need not be generated.
Blank	C or X (Conditional) or O (Optional)	REQUIRED	EDIFICE members agree that the data concerned must be sent.
Blank	C or X (Conditional) or O (Optional)	No note	Indicates that EDIFICE makes no recommendation regarding usage. The trading partners must agree on usage.
Blank	C or X (Conditional) or O (Optional)	ADVISED	EDIFICE has determined value in supplying the data element; hence, it should be generated.
Blank	C or X (Conditional) or O (Optional)	DEPENDING	Data must be sent if a particular defined condition or set of conditions exist. The associated conditions must be explained at the appropriate level of detail.

8. CHANGES FROM VERSION 3020

Only segments, elements or codes used by EDIFICE are listed.   Some fields which have increased in maximum length are not listed.

- All date fields changed from 6/6 (YYMMDD) to 8/8 (CCYYMMDD)
- Changes made to bring transaction into conformance with Product and Other ID supporting document; miscellaneous changes to code lists and notes.
- Per Product and Other ID support document, added codes to DE 98 and DE 66 code lists (used in N1 segment).
- Per Product and Other ID support document, changed N2, N3 and N4 segments to 'Used'
- Per Product and Other ID support document added code 'EM' Electronic Mail to DE 365 (used in PER03).
- Max length of DE 93 Name (used in N102) changed from 35 to 60
- Max length of DE 67 Identification Code (used in N104) changed from 17 to 80
- Max length of DE 350 Assigned Identification (used in PO101) changed from 11 to 20; EDIFICE still recommends that trading partners use no more than 6 bytes.
- Max length of DE 427 Unit Price Difference changed from 9 to 15.
- Max length of DE 212 Unit Price changed from14 to 17.
- Max length of DE 235 Product/Service ID (used in LIN segment) changed from 30 to 48.
- Per Product and Other ID supporting document, added codes to DE 235 code list (used in LIN segment).
- Requirement of DE 234 Product/Service ID Qualifier (used in LIN segment) changed from 'O' Optional to 'X' Conditional.

SEGMENT TABLES

845 Price Authorization Acknowledgment/Status – List of Used and Not Used Segments

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BPA	Beginning Segment for Price Authorization Acknowledgment/Status	M	1		
Not Used	025	CUR	Currency	O	1		
Not Used	030	NTE	Note/Special Instruction	O	10		
Not Used	040	REF	Reference Identification	O	12		
Not Used	050	PER	Administrative Communications Contact	O	3		
Not Used	060	DTM	Date/Time Reference	O	10		
			LOOP ID – N1			10000	
	070	N1	Name	O	1		
	080	N2	Additional Name Information	O	2		
	090	N3	Address Information	O	2		
	100	N4	Geographic Location	O	1		
Not Used	110	REF	Reference Identification	O	12		
	120	PER	Administrative Communications Contact	O	3		
Not Used	130	DTM	Date/Time Reference	O	10		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID – CON			10000	
Must Use	010	CON	Contract Number Detail	M	1		
Not Used	020	REF	Reference Identification	O	12		
Not Used	030	PER	Administrative Communications Contact	O	3		
	040	DTM	Date/Time Reference	O	10		
Not Used	045	CTB	Restrictions/Conditions	O	10		
Not Used	046	ITD	Terms of Sale/Deferred Terms of Sale	O	2		
			LOOP ID – N1			10000	
	050	N1	Name	O	1		
	060	N2	Additional Name Information	O	2		
	070	N3	Address Information	O	2		
	080	N4	Geographic Location	O	1		
Not Used	090	REF	Reference Identification	O	12		
Not Used	100	PER	Administrative Communications Contact	O	3		
Not Used	110	DTM	Date/Time Reference	O	2		
Not Used	115	CTB	Restrictions/Conditions	O	25		
			LOOP ID – PAD			>1	
	120	PAD	Product Adjustment Detail	O	1		
Not Used	130	CTB	Restrictions/Conditions	O	10		
Not Used	140	PID	Product/Item Description	O	200		

	Pos.	Seg.	Name	Req.	Max.Use	Loop	Notes
Not Used	150	MEA	Measurements	O	40		
	160	UIT	Unit Detail	O	20		
	170	QTY	Quantity	O	5		
Not Used	180	AMT	Monetary Amount	O	5		n1
Not Used	190	CUR	Currency	O	1		
Not Used	200	SSS	Special Services	O	1		
Not Used	210	SHP	Shipped/Received Information	O	1		
Not Used	220	DTM	Date/Time Reference	O	2		

LOOP ID – LIN 1

	230	LIN	Item Identification	O	1	
Not Used	235	G53	Maintenance Type	O	1	
Not Used	240	SLN	Subline Item Detail	O	100	

LOOP ID – N1 10000

Not Used	250	N1	Name	O	1	
Not Used	260	N2	Additional Name Information	O	2	
Not Used	270	N3	Address Information	O	2	
Not Used	280	N4	Geographic Location	O	1	
Not Used	290	DTM	Date/Time Reference	O	10	
Not Used	300	CTB	Restrictions/Conditions	O	25	

LOOP ID – CTP 25

Not Used	310	CTP	Pricing Information	O	1	
Not Used	320	DTM	Date/Time Reference	O	10	
Not Used	330	CTB	Restrictions/Conditions	O	25	

LOOP ID – N1 10000

Not Used	340	N1	Name	O	1	
Not Used	350	N2	Additional Name Information	O	2	
Not Used	360	N3	Address Information	O	2	
Not Used	370	N4	Geographic Location	O	1	
Not Used	380	DTM	Date/Time Reference	O	10	
Not Used	390	CTB	Restrictions/Conditions	O	25	

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	CTT	Transaction Totals	M	1		n2
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The AMT segment is to be used only in cases where the amount cannot be computed from other detail.
2. Number of line items (CTT01) is the accumulation of the number of CON segments. If used, hash total (CTT02) is the sum of the quantities (QTY02) for each QTY 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).
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	**Transaction Set Identifier Code**	M ID 3/3
			Code uniquely identifying a Transaction Set	
			845 Price Authorization Acknowledgment/Status	
Must Use	ST02	329	**Transaction Set Control Number**	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment (SE02) must be identical to the control number in the ST segment for each transaction.	

Segment: **BPA** Beginning Segment for Price Authorization Acknowledgment/Status

Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To identify the beginning of a Price Authorization Acknowledgment/Status Transaction Set
Syntax Notes:	1 If either BPA03 or BPA04 is present, then the other is required.
Semantic Notes:	1 BPA02 is the price authorization status date.
	2 BPA05 is the price authorization status time.
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	BPA01	353	Transaction Set Purpose Code	M	ID 2/2

Code identifying purpose of transaction set
    00   Original
    04   Change
                    To be utilized for daily delta files.

	Ref. Des.	Data Element	Name	Attributes	
Must Use	BPA02	373	Date	M	DT 8/8

Date expressed as CCYYMMDD
Date of Document for Price Authorization.

	Ref. Des.	Data Element	Name	Attributes	
Not Used	BPA03	128	Reference Identification Qualifier	X	ID 2/3

Code qualifying the Reference Identification
Refer to 004010 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name	Attributes	
Not Used	BPA04	127	Reference Identification	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	Ref. Des.	Data Element	Name	Attributes	
Not Used	BPA05	337	Time	O	TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, 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)

Segment: **N1** Name

Position:	070
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
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:	
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.
Notes:	IDX USAGE: Advised.
	At least one entry should be provided for the distributor or distributor branch. Names and addresses are usually designated in the header area. It is recommended that the trading partner codify all the addresses within their system through the use of N104.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	**Entity Identifier Code**	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			DB Distributor Branch	
			DS Distributor	
			MF Manufacturer of Goods	
	N102	93	**Name**	X AN 1/60
			Free-form name	
			EDIFICE USAGE: Advised.	
			Facilitates audits and/or research.	
	N103	66	**Identification Code Qualifier**	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			Recommended by EDIFICE.	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
			14 UCC/EAN Location Code Prefix	
			The first part of a 13 digit UCC/EAN Location Code within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system. A globally unique 3 to 10 digit code for the identification of a	

			company		
	91		Assigned by Seller or Seller's Agent		
	92		Assigned by Buyer or Buyer's Agent		
	N104	67	**Identification Code**	X	AN 2/80

Code identifying a party or other code
EDIFICE USAGE: Advised.

The number that identifies the location.

Not Used	N105	706	**Entity Relationship Code**	O	ID 2/2

Code describing entity relationship
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	N106	98	**Entity Identifier Code**	O	ID 2/3

Code identifying an organizational entity, a physical location, property or an individual
Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: # N2 Additional Name Information

Position:	080
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	2
Purpose:	To specify additional names or those longer than 35 characters in length
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	EDIFICE Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. Note: Use of this segment may impede automation and application integration.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N201	93	Name	M AN 1/60
			Free-form name	
	N202	93	Name	O AN 1/60
			Free-form name	

Segment: **N3** Address Information

Position:	090
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	2
Purpose:	To specify the location of the named party
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	EDIFICE Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. .

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N301	166	**Address Information**	M AN 1/55
			Address information	
	N302	166	**Address Information**	O AN 1/55
			Address information	

Segment: **N4** Geographic Location

Position:	100
Loop:	N1 Optional
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:	
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.
Notes:	EDIFICE Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. .

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
N404	26	Country Code	O	ID 2/3
		Code identifying the country		
N405	309	Location Qualifier	X	ID 1/2
		Code identifying type of location		
		Refer to 004010 Data Element Dictionary for acceptable code values.		
N406	310	Location Identifier	O	AN 1/30
		Code which identifies a specific location		

Segment: **PER** Administrative Communications Contact

Position:	120
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	3
Purpose:	To identify a person or office to whom administrative communications should be directed
Syntax Notes:	1 If either PER03 or PER04 is present, then the other is required.
	2 If either PER05 or PER06 is present, then the other is required.
	3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	EDIFICE USAGE: Advised.
	At least one direct contact in sender organization should be provided at the header level.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	PER01	366	**Contact Function Code**	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER02	93	**Name**	O AN 1/60
			Free-form name	
			EDIFICE USAGE: Advised.	
			Facilitates audits and/or research.	
	PER03	365	**Communication Number Qualifier**	X ID 2/2
			Code identifying the type of communication number	
			EM Electronic Mail	
			FX Facsimile	
			TE Telephone	
	PER04	364	**Communication Number**	X AN 1/80
			Complete communications number including country or area code when applicable	
			Recommended format for telephone number is: 800-555-1212X1234.	
Not Used	PER05	365	**Communication Number Qualifier**	X ID 2/2
			Code identifying the type of communication number	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	PER06	364	**Communication Number**	X AN 1/80
			Complete communications number including country or area	

			code when applicable		
Not Used	PER07	365	**Communication Number Qualifier**	X	ID 2/2

Code identifying the type of communication number
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	PER08	364	**Communication Number**	X	AN 1/80

Complete communications number including country or area code when applicable

Not Used	PER09	443	**Contact Inquiry Reference**	O	AN 1/20

Additional reference number or description to clarify a contact number

Segment: CON Contract Number Detail

Position:	010
Loop:	CON Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify contract or reference number and status
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	There is one (1) CON segment for each end customer that the product is sold to.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	CON01	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	
			PR Price Quote Number	
Must Use	CON02	127	**Reference Identification**	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Must Use	CON03	846	**Contract Status Code**	M ID 2/2
			Code designating the current status of the contract	
			CL Closed contract – all quantities taken	
			DL Deleted Contract	
			EX Expired Contract	
			PR Proposed Contract	
			RO Reopened Contract	
			VA Valid Open Contract	

Segment: DTM Date/Time Reference

Position:	040
Loop:	CON Mandatory
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	Required by EDIFICE.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			Both the effective and expiration dates need to be sent.	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
			EDIFICE Usage: Required.	
Not Used	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, 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)	
Not Used	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or – and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and – are substituted by P and M in the codes that follow	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
			Code indicating the date format, time format, or date and time format	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

| Not Used | DTM06 | 1251 | Date Time Period | X | AN 1/35 |

Expression of a date, a time, or range of dates, times or dates and times

Segment: # N1 Name

Position:	050
Loop:	N1 Optional
Level:	Detail
Usage:	Optional
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:	
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.
Notes:	EDIFICE USAGE: Advised.

This segment is used to identify the end customer involved in the transaction.
It is recommended that the trading partner codify all the addresses within their system through the use of N104. .

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	Entity Identifier Code	M ID 2/3

Code identifying an organizational entity, a physical location, property or an individual
BY   Buying Party (Purchaser)

| | N102 | 93 | Name | X AN 1/60 |

Free-form name

EDIFICE USAGE: Advised.

Facilitates audits and/or research.

| | N103 | 66 | Identification Code Qualifier | X ID 1/2 |

Code designating the system/method of code structure used for Identification Code (67)
Recommended by EDIFICE.
1   D-U-N-S Number, Dun & Bradstreet
9   D-U-N-S+4, D-U-N-S Number with Four Character Suffix
14   UCC/EAN Location Code Prefix
The first part of a 13 digit UCC/EAN Location Code within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system. A globally unique 3 to 10 digit code for the identification of a company
91   Assigned by Seller or Seller's Agent

		92	Assigned by Buyer or Buyer's Agent		
	N104	67	**Identification Code**	X	AN 2/80

Code identifying a party or other code
Recommended by EDIFICE.

The number that identifies the location.

Not Used	N105	706	**Entity Relationship Code**	O	ID 2/2

Code describing entity relationship
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	N106	98	**Entity Identifier Code**	O	ID 2/3

Code identifying an organizational entity, a physical location, property or an individual
Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **N2** Additional Name Information

Position:	060
Loop:	N1 Optional
Level:	Detail
Usage:	Optional
Max Use:	2
Purpose:	To specify additional names or those longer than 35 characters in length
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	EDIFICE Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. Note: Use of this segment may impede automation and application integration.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N201	93	Name	M AN 1/60
			Free-form name	
	N202	93	Name	O AN 1/60
			Free-form name	

Segment: **N3** Address Information

Position:	070
Loop:	N1 Optional
Level:	Detail
Usage:	Optional
Max Use:	2
Purpose:	To specify the location of the named party
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	EDIFICE Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. .

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N301	166	**Address Information**	M AN 1/55
			Address information	
	N302	166	**Address Information**	O AN 1/55
			Address information	

Segment: **N4** Geographic Location

Position:	080
Loop:	N1 Optional
Level:	Detail
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:	
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.
Notes:	EDIFICE Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
		Code list in "States and Outlying Areas of the USA" (Catalog number C52.13.5-1). Available from: Superintendent of Documents, US Government Printing Office.		
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
N404	26	Country Code	O	ID 2/3
		Code identifying the country		
		The ISO Country Codes should be used.		
Not Used	N405	309	Location Qualifier	X	ID 1/2
		Code identifying type of location		
		Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	N406	310	Location Identifier	O	AN 1/30
		Code which identifies a specific location		

Segment: **PAD** **Product Adjustment Detail**

Position:	120
Loop:	PAD Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the product transfer type, and/or line item number
Syntax Notes:	1 At least one of PAD01 or PAD02 is required.
	2 If either PAD04 or PAD05 is present, then the other is required.
Semantic Notes:	1 PAD01 is the line item identification.
Comments:	
Notes:	To specify the detail information relating to a product transfer that has accounting adjustments associated with the transfer.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Not Used	PAD01	350	Assigned Identification	X	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		
	PAD02	521	Product Transfer Type Code	X	ID 2/2
			Code identifying the type of product transfer		
			Required by EDIFICE.		
			SD Ship and Debit Sale		
Not Used	PAD03	670	Change or Response Type Code	O	ID 2/2
			Code specifying the type of change to the line item Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	PAD04	648	Price Multiplier Qualifier	X	ID 3/3
			Code indicating the type of price multiplier Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	PAD05	649	Multiplier	X	R 1/10
			Value to be used as a multiplier to obtain a new value		

Segment: UIT Unit Detail

Position:	160
Loop:	PAD Optional
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify item unit data
Syntax Notes:	1 If UIT03 is present, then UIT02 is required.
Semantic Notes:	
Comments:	
Notes:	EDIFICE Usage: Required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	UIT01	C001	**Composite Unit of Measure**	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Must Use	C00101	355	**Unit or Basis for Measurement Code**	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	
Not Used	C00102	1018	**Exponent**	O R 1/15
			Power to which a unit is raised	
Not Used	C00103	649	**Multiplier**	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00104	355	**Unit or Basis for Measurement Code**	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00105	1018	**Exponent**	O R 1/15
			Power to which a unit is raised	
Not Used	C00106	649	**Multiplier**	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00107	355	**Unit or Basis for Measurement Code**	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00108	1018	**Exponent**	O R 1/15

			Power to which a unit is raised		
Not Used	C00109	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00110	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	C00111	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
Not Used	C00112	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00113	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	C00114	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
Not Used	C00115	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
	UIT02	212	**Unit Price**	X	R 1/17
			Price per unit of product, service, commodity, etc. Required by EDIFICE.		
	UIT03	639	**Basis of Unit Price Code**	O	ID 2/2
			Code identifying the type of unit price for an item Required by EDIFICE.		

LE   Catalog Price per Each
QE   Quoted Price per Each
RE   Retail Price per Each

Segment: ## QTY Quantity

Position:	170
Loop:	PAD Optional
Level:	Detail
Usage:	Optional
Max Use:	5
Purpose:	To specify quantity information
Syntax Notes:	1 At least one of QTY02 or QTY04 is required.
	2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	1 QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	Required by EDIFICE.

Required by EDIFICE.

To identify quantities of the product that have been shipped, were originally authorized, or that are remaining on a price authorization.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	QTY01	673	Quantity Qualifier	M	ID 2/2
			Code specifying the type of quantity		
			38 Original Quantity		
			39 Shipped Quantity		
			40 Remaining Quantity		
	QTY02	380	Quantity	X	R 1/15
			Numeric value of quantity		
Not Used	QTY03	C001	Composite Unit of Measure	O	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
Not Used	C00101	355	Unit or Basis for Measurement Code	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	C00102	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00103	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00104	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Not Used	C00105	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00106	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	C00107	355	**Unit or Basis for Measurement Code**	O	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C00108	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00109	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	C00110	355	**Unit or Basis for Measurement Code**	O	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C00111	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00112	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	C00113	355	**Unit or Basis for Measurement Code**	O	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C00114	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00115	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	QTY04	61	**Free-Form Message**	X	AN 1/30

Free-form information

Segment: **LIN** Item Identification

Position:	230
Loop:	LIN Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	1 If either LIN04 or LIN05 is present, then the other is required.
	2 If either LIN06 or LIN07 is present, then the other is required.
	3 If either LIN08 or LIN09 is present, then the other is required.
	4 If either LIN10 or LIN11 is present, then the other is required.
	5 If either LIN12 or LIN13 is present, then the other is required.
	6 If either LIN14 or LIN15 is present, then the other is required.
	7 If either LIN16 or LIN17 is present, then the other is required.
	8 If either LIN18 or LIN19 is present, then the other is required.
	9 If either LIN20 or LIN21 is present, then the other is required.
	10 If either LIN22 or LIN23 is present, then the other is required.
	11 If either LIN24 or LIN25 is present, then the other is required.
	12 If either LIN26 or LIN27 is present, then the other is required.
	13 If either LIN28 or LIN29 is present, then the other is required.
	14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	1 See the Data Dictionary for a complete list of IDs.
	2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes:	EDIFICE Usage: Required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Not Used	LIN01	350	Assigned Identification	O	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		
Must Use	LIN02	235	Product/Service ID Qualifier	M	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		

BP	Buyer's Part Number
MG	Manufacturer's Part Number
UP	U.P.C. Consumer Package Code (1-5-5-1)
VP	Vendor's (Seller's) Part Number

	Ref. Des.	Data Element	Name	Attributes	
Must Use	LIN03	234	Product/Service ID	M	AN 1/48
			Identifying number for a product or service		
			EDIFICE USAGE: Advised.		

LIN04	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

See LIN02 for code list.

LIN05	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

LIN06	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

See LIN02 for code list.

LIN07	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

LIN08	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

See LIN02 for code list.

LIN09	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

LIN10	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

See LIN02 for code list.

LIN11	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

LIN12	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

See LIN02 for code list.

LIN13	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

LIN14	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

See LIN02 for code list.

LIN15	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

LIN16	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

See LIN02 for code list.

LIN17	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

LIN18	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

See LIN02 for code list.

LIN19	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

LIN20	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

		See LIN02 for code list.			
LIN21	**234**	**Product/Service ID**	X	AN 1/48	
		Identifying number for a product or service			
LIN22	**235**	**Product/Service ID Qualifier**	X	ID 2/2	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		See LIN02 for code list.			
LIN23	**234**	**Product/Service ID**	X	AN 1/48	
		Identifying number for a product or service			
LIN24	**235**	**Product/Service ID Qualifier**	X	ID 2/2	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		See LIN02 for code list.			
LIN25	**234**	**Product/Service ID**	X	AN 1/48	
		Identifying number for a product or service			
LIN26	**235**	**Product/Service ID Qualifier**	X	ID 2/2	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		See LIN02 for code list.			
LIN27	**234**	**Product/Service ID**	X	AN 1/48	
		Identifying number for a product or service			
LIN28	**235**	**Product/Service ID Qualifier**	X	ID 2/2	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		See LIN02 for code list.			
LIN29	**234**	**Product/Service ID**	X	AN 1/48	
		Identifying number for a product or service			
LIN30	**235**	**Product/Service ID Qualifier**	X	ID 2/2	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		See LIN02 for code list.			
LIN31	**234**	**Product/Service ID**	X	AN 1/48	
		Identifying number for a product or service			

Segment: CTT Transaction Totals

Position:	010
Loop:	
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set
Syntax Notes:	1 If either CTT03 or CTT04 is present, then the other is required.
	2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:	
Comments:	1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
			The number of CON segments in the transaction set.	
Not Used	CTT02	347	Hash Total	O R 1/10
			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 being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ––––––––– 1855 Hash total prior to truncation. 855 Hash total after truncation to three–digit field.	
Not Used	CTT03	81	Weight	X R 1/10
			Numeric value of weight	
Not Used	CTT04	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	CTT05	183	Volume	X R 1/8
			Value of volumetric measure	
Not Used	CTT06	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code	

values.

| Not Used | CTT07 | 352 | **Description** | O | AN 1/80 |

A free-form description to clarify the related data elements and their content

Segment: **SE** **Transaction Set Trailer**

Position:	020
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:	
Comments:	1 SE is the last segment of each transaction set.

Data Element Summary

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

The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment must be identical to the control number in the ST segment for each transaction.

845 PRICE AUTHORIZATION ACKNOWLEDGMENT/STATUS EXAMPLES

845 Example 1 – Price Authorizations Status

The purpose of this transaction is to report the status of outstanding price authorizations from the manufacturer to the distributor.

Whenever one of the codes in the N104 in the header table changes, then a new transaction is started. Typically, all the Price Authorizations associated with a given shipped location are included in a single transaction.

Each CON segment starts the data for a given Price Authorization. It will include a PAD loop for each line item within the Price Authorization identified on the CON segment. Note that the only N1 segment where the N102 Name is recommended is in the N1 segment for the buying party which is qualified by "BY" in the detail table. This N1 segment contains the end customer data. The length of time that closed or expired Price Authorizations included in the transaction sets should be a reasonable length of time agreed upon between trading partners.

HEADING AREA:	
ST*845*00001 N/L	This is an 845 Transaction set with control number 00001.
BPA*00**930308 N/L	The original Price Authorization dated March 8,1993.
N1*MF**91*SUPPLIER N/L	The manufacturer (supplier) has the seller assigned code of SUPPLIER.
N1*DS**91*D1STC0MPANY N/L	The distributor has the seller assigned code of DISTCOMPANY.
N1*DB**91**SHP567A N/L	The distributor branch has the seller assigned code of SHP567A.
DETAIL – 1st Contract	
CON*PR*PA020693 N/L	The contract is a price authorization with reference code PA020693.
DTM*007*930307 N/L	Effective date of these prices is March 7,1993.
DTM*036*930402 N/L	Expiration date of these prices is April 2, 1994.
N1*BY*W1LL1AMS COMPANY*91*CUST123 N/L	The buying party has the seller assigned code of CUST123 for WILLIAMS COMPANY. This segment identifies the end customer.
DETAIL – 1st Line Item within 1st Contract	
PAD*001**SD N/L	The assigned identification is 001. The product transfer type is a ship and debit sale.
L1N*VP*AM8765 N/L	The vendor part is AM8765.
UIT*EA*3.80*LE N/L	The catalog price per each is 3.80.
UIT*EA*2.80*QT N/L	The quoted price per each is 2.80.
UIT*EA*6.80*RE N/L	The retail price per each is 6.80.
QTY*38*200*EA N/L	The original quantity is 200 units.
QTY*39*20*EA N/L	The shipped quantity is 20 units.
QTY*40*180*EA N/L	The remaining quantity is 180 units.
DETAIL – 2nd Line Item within 1st Contract	
PAD*002**SD N/L	The assigned identification is 002. The product transfer type is a ship and debit sale.

LIN*VP*AM8799 N/L	The vendor part is AM8799.
UIT*EA*63.70*LE N/L	The catalog price per each is 63.70.
UIT*EA*53.70*QT N/L	The quoted price per each is 53.70.
UIT*EA*93.70*RE N/L	The retail price per each is 93.70.
QTY*38*9980*EA N/L	The original quantity is 9980 units.
QTY*39*8880*EA N/L	The shipped quantity is 8880 units
QTY*40*1100*EA N/L	The remaining quantity is 1100 units.
DETAIL – 2ⁿᵈ Contract	
CON*PR*PA020999 N/L	The contract is a price authorization with reference code PA020999.
DTM*007*930307 N/L	Effective date of these prices is March 7,1993.
DTM*036*930040 N/L	Expiration date of these prices is April 2,1994.
N1*BY*ACME COMPANY*91*CUST456 N/L	The buying party has the seller assigned code of CUST456 for ACME COMPANY. This segment identifies the end customer.
DETAIL – 1ˢᵗ Line Item within 2ⁿᵈ Contract	
PAD*001**SD N/L	The assigned identification is 001. The product transfer type is a ship and debit sale.
LIN*VP*AM8999 N/L	The vendor part is AM8999.
UIT*EA*34.80*LE N/L	The catalog price per each is 34.80.
UIT*EA*31.00*QT N/L	The quoted price per each is 31.00.
UIT*EA*50.00*RE N/L	The retail price per each is 50.00.
QTY*38*80*EA N/L	The original quantity is 80 units.
QTY*39*30*EA N/L	The shipped quantity is 30 units.
QTY*40*50*EA N/L	The remaining quantity is 50 units.
DETAIL – 2ⁿᵈ Line Item within 2ⁿᵈ Contract	
PAD*002**SD N/L	The assigned identification is 002. The product transfer type is a ship and debit sale.
LIN*VP*AM9545 N/L	The vendor part is AM9545.
UIT*EA*13.80*LE N/L	The catalog price per each is 13.80.
UIT*EA*10.80*QT N/L	The quoted price per each is 10.80.
UIT*EA*23.80*RE N/L	The retail price per each is 23.80.
QTY*38*180*EA N/L	The original quantity is 180 units.
QTY*39*40*EA N/L	The shipped quantity is 40 units.
QTY*40*140*EA N/L	The remaining quantity is 140 units.
SUMMARY AREA	
CTT*2 N/L	There are two CON segments in this transaction.
SE*47*00001 N/L	This transaction set has 47 segments. The control number is 00001.