



Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003050 Transaction Set 864 Text Message

Implementation Convention



**U.S. DEPARTMENT OF COMMERCE
Technology Administration
National Institute of
Standards and Technology**

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ASC X12 003050 Transaction Set 864 Text Message

Implementation Convention

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U.S. DEPARTMENT OF COMMERCE
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Reports on Information Technology

The National Institute of Standards and Technology (NIST)'s Information Technology Laboratory (ITL) develops standards and guidelines, provides technical assistance, and conducts research for computers and resources. As part of the overall federal effort to establish a single face to industry for conducting electronic commerce, ITL has been designated as the organization responsible for coordinating the development of Federal Implementation Conventions (ICs) for Electronic Data Interchange (EDI). ICs are defined by functional-area experts who create and select options from standard EDI Transaction Sets to yield the implementations to be used for practical EDI. These ICs are made available to federal agencies and industry by electronic means and this Special Publication Series.

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FOREWORD

In a memorandum of October 26, 1993, the President sought to stimulate the Federal Government's deployment of Electronic Commerce in order to simplify and streamline the acquisition process. In this regard, the President set forth the following objectives:

- o Exchange acquisition information electronically between the private sector and the Federal Government to the maximum extent practicable.
- o Provide businesses, including small, small disadvantaged, and woman-owned businesses, with greater access to Federal acquisition opportunities.
- o Ensure that potential suppliers are provided simplified access to the Federal Government's EC system.
- o Employ nationally and internationally recognized data formats that serve to broaden and ease the interchange of data.
- o Use agency and industry systems and networks to enable the government and potential suppliers to exchange information and access Federal acquisition data.

As part of the Federal Government wide effort to implement EC, NIST has been given the responsibility of coordinating the development and promulgation of Implementation Conventions for the functional areas of EC which will be deployed across the Agencies.

Various Agencies have been actively pursuing Electronic Data Interchange (EDI) for several years - the DoD, GSA, Customs and HHS, for instance, have been particularly active in adopting ANSI X12 standards, and looking ahead to EDIFACT. There became a danger that with fragmentation of usage across the Federal Government a significant burden would be placed on many small businesses to support an unnecessary profusion of formats and conventions.

In the Presidential Memorandum, President Clinton required Federal agencies to implement the use of electronic commerce in Federal purchases as quickly as possible. As the initial step, the President's Management Council (PMC) Electronic Commerce Task Force (ECTF), chaired by the Administrator, Office of Federal Procurement Policy (OFPP), chartered the Federal Electronic Commerce Acquisition Team (ECAT) to complete the first milestone of the President's memorandum. The PMC assigned the Electronic Commerce Acquisition Team, composed of representatives from various Federal departments and agencies, the task of defining the architecture for the government electronic commerce acquisition system and identifying the executive departments or agencies responsible for developing, implementing, operating, and maintaining the Federal electronic system.

Another key step in the implementation of EDI in the Federal Government relies on the definition of Implementation Conventions (ICs). EDI syntax standards, both ASC X12 and UN/EDIFACT, accommodate a full range of business activities for all industries. A standard is the result of a consensus among a large number of users, each with its own set of needs. It is a superset intended to meet the diverse requirements of all users. Standards commonly contain more data elements and structure options than any one user or industry needs. Far too many opportunities exist for inefficient, or ambiguous transactions. Therefore, actual EDI business processes require implementation conventions (ICs) to fully define transactions. ICs do that by tailoring the use of the standards' segments, data elements, and code values and providing a subset menu of those distinct parts. This Special Publication defines a Federal IC based on ASC X12 Version 3050 and is the result of coordinated development and adoption within the Federal Government.

864 Text Message

Functional Group ID= **TX**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data content of the Text Message Transaction Set (864) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide users with a capability to electronically move messages, contracts, explanations, and other one-time communications. It is the intent of this transaction set to provide electronic communication (messages) for people, not for computer processing. The use of the transaction set to transmit quasi or unique transaction set standards is discouraged. The use of the Text Message transaction set demands of the sender certain detailed information about the recipient. The transaction set's purpose is to provide communication to the recipient in some human-readable form. The recipient's network will dictate what capabilities are available for delivery of the information. It is the responsibility of the sender to obtain this information and include it in the transmission.

Notes:

- 1. This transaction set can be used by private industry and federal agencies to exchange text information (questions, clarifications, data, etc.) relating to solicitations, proposals, awards, invoices, material safety data sheets, etc.*
- 2. When used in conjunction with another transaction set, e.g., an 843 Response to Request for Quotation, the unique reference number of the related transaction set must be cited in the 1/REF/080 segment.*

Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BMG	Beginning Segment For Text Message	M	1		
	030	DTM	Date/Time Reference	O	10		
			LOOP ID - NI			200	
	040	N1	Name	O	1		
	050	N2	Additional Name Information	O	2		
	060	N3	Address Information	O	2		
	070	N4	Geographic Location	O	1		
	080	REF	Reference Numbers	O	12		
	090	PER	Administrative Communications Contact	O	3		

Detail:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
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864 -Text Message

LOOP ID - MIT			>1		
Must Use	010	MIT	Message Identification	M	1
LOOP ID - N1			200		
N/U	020	N1	Name	O	1
N/U	030	N2	Additional Name Information	O	2
N/U	040	N3	Address Information	O	2
N/U	050	N4	Geographic Location	O	1
N/U	060	REF	Reference Numbers	O	12
N/U	070	PER	Administrative Communications Contact	O	3
Must Use	080	MSG	Message Text	M	100000

Summary:

	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.Use</u>	<u>Loop</u>	<u>Notes and</u>
	<u>No.</u>	<u>ID</u>		<u>Des.</u>		<u>Repeat</u>	<u>Comments</u>
Must Use	010	SE	Transaction Set Trailer	M	1		

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) 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

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 864 X12.34 Text Message	M ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <i>Use to transmit a unique number assigned by the originator of the transaction set. The number may be system generated. This same number will be cited in SE02.</i>	M AN 4/9

Segment: **BMG** Beginning Segment For Text Message
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a Text Message Transaction Set
Syntax Notes:
Semantic Notes:
Comments: 1 BMG02 contains the message subject.

Data Element Summary

Ref.	Data			
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BMG01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
				<i>Use to indicate an original transmittal.</i>
			01 Cancellation	
				<i>Use to indicate the cancellation of a previously transmitted text message.</i>
			07 Duplicate	
				<i>Use to indicate the re-transmission of a previously transmitted text message.</i>
			11 Response	
				<i>Use to indicate a reply to an 864 transaction set. When used, cite code TN in REF01 of the 1/REF/080 segment and identify the unique number of the 864 transaction set to which this transaction set is responding in REF02.</i>
			22 Information Copy	
				<i>Use to indicate an information copy of the original text message. This information copy may be sent to parties other than those for whom the original is intended.</i>
	BMG02	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	
				<i>Use to provide a brief, overall subject of the text message.</i>
N/U	BMG03	640	Transaction Type Code	O ID 2/2
			Code specifying the type of transaction	

Segment: **DTM** Date/Time Reference
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
 1 At least one of DTM02 DTM03 or DTM06 is required.
 2 If either DTM06 or DTM07 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		097 Transaction Creation	
		<i>Use to indicate the date the transaction set was created.</i>	
	DTM02	373 Date	X DT 6/6
		Date (YYMMDD)	
	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)	
		<i>Time is always expressed as local time.</i>	
N/U	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	
N/U	DTM05	624 Century	O N0 2/2
		The first two characters in the designation of the year (CCYY)	
N/U	DTM06	1250 Date Time Period Format Qualifier	X ID 2/3
		Code indicating the date format, time format, or date and time format	
N/U	DTM07	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:	040
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1. <i>Whenever possible, identification and address information should be provided using N101, N103, and N104. Use N102 and segments N2 through N4, as applicable, when the address cannot be provided using one of the codes listed in N103.</i> 2. <i>There must be two iterations of the N1 loop. One iteration will be used to identify the party sending the message and the second iteration to identify the party to whom the text message is being sent.</i>

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use N101	98	Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
		FR Message From	
		<i>Use to indicate the party sending the text message.</i>	
		TO Message To	
		<i>Use to indicate the party to whom the text message transaction set is being sent.</i>	
N102	93	Name	X AN 1/35
		Free-form name	
N103	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		<i>While the federal EDI program uses the DUNS number, other government users of this implementation convention may require the use of other and additional numbers for a transition period in order to cross reference existing data bases to new procurement actions.</i>	

- 1 D-U-N-S Number, Dun & Bradstreet
Use of the DUNS or DUNS+4 number is preferred over other codes to identify an entity.
- 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
Use of the DUNS or DUNS+4 number is preferred over other codes to identify an entity.
- 10 Department of Defense Activity Address Code (DODAAC)
Use to indicate either a Department of Defense or Civilian Agency Activity Address Code.
- 21 Health Industry I.D. Number (HIN)
- 33 Commercial and Government Entity (CAGE)
- 46 Electronic Transmitter Identification Number (ETIN)
A unique number assigned to each transmitter and software developer
- A2 Military Assistance Program Address Code (MAPAC)
Contained in the Military Assistance Program Address Directory (MAPAD); represents the location of an entity
- EI Employee Identification Number
- FA Facility Identification
This code will be deleted if a business case is not identified for its continued use.
- FI Federal Taxpayer's Identification Number
- MC Medicaid Provider Number
Number assigned to a health care provider for submitting claims covered by medicaid benefits
- MP Medicare Provider Number
Number assigned to a health care provider for submitting claims covered by Medicare benefits
- MR Medicaid Recipient Identification Number
Unique identification number assigned to each member covered under a subscriber's contract

	N104	67	Identification Code	X	AN 2/20
			Code identifying a party or other code		
N/U	N105	706	Entity Relationship Code	O	ID 2/2
			Code describing entity relationship		
N/U	N106	98	Entity Identifier Code	O	ID 2/2
			Code identifying an organizational entity, a physical location, or an individual		

Segment: **N2** Additional Name Information
Position: 050
Loop: N1
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:

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use N201	93	Name Free-form name	M AN 1/35
N202	93	Name Free-form name	O AN 1/35

Segment: N3 Address Information
Position: 060
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use N301	166	Address Information	Address information	M AN 1/35
N302	166	Address Information	Address information	O AN 1/35

Segment: **N4 Geographic Location**
Position: 070
Loop: N1
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 USA or Canada.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
N401	19	City Name Free-form text for city name	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/11
N404	26	Country Code Code identifying the country	O ID 2/3
N/U	N405	309 Location Qualifier Code identifying type of location	X ID 1/2
N/U	N406	310 Location Identifier Code which identifies a specific location	O AN 1/30

Segment: **REF** Reference Numbers
Position: 080
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes:

1. Use this segment to provide reference numbers that identify other transaction sets or documents, e.g., contracts, invoices, progress payments, etc. to which this transaction set applies.
2. At least 1 REF segment is required citing code ME in REF01.
3. When this transaction set is sent in conjunction with another transaction set, e.g., an 840, the unique reference number of that transaction set must be cited in REF02 with REF01 citing code TN. This is required to cross reference the transaction sets.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128 Reference Number Qualifier	M ID 2/2
		Code qualifying the Reference Number. <i>ANY CODE MAY BE USED to identify a document or some other reference number to which the information transmitted in this transaction set applies. The following is a preferred list of codes:</i>	
		11 Account Number	
		12 Billing Account	
		14 Master Account Number	
		2F Consolidated Invoice Number	
		2G Amendment	
		<i>Includes modifications.</i>	
		2S Catalog	
		2Y Wage Determination	
		AW Air Waybill Number	
		BL Bill of Lading	
		<i>Use to indicate either a commercial or Government Bill of Lading</i>	
		C7 Contract Line Item Number	
		CT Contract Number	
		<i>Use to indicate the purchase order number, contract number (including</i>	

Federal Supply Schedules, GSA Schedules and all other basic contracts), BPA number, Grant, Lease or Agreement number. This is never the number of a delivery order, call or release against a basic award instrument.

IV Seller's Invoice Number

KS Solicitation

ME Message Address or ID

Use to indicate the unique number of this transmission.

NR Progress Payment Number

PR Price Quote Number

RE Release Number

Use to indicate the number of a release, call or delivery order against a basic award instrument.

SI Shipper's Identifying Number for Shipment (SID)

TN Transaction Reference Number

Use to indicate the unique number of the transaction set being referenced in the instant text message. Each transaction set has a unique number assigned. Appendix A identifies where this unique number is found in the more commonly used transaction sets. When used, identify the transaction set number in REF03.

REF02	127	Reference Number	X AN 1/30
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Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

REF03	352	Description	X AN 1/80
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A free-form description to clarify the related data elements and their content

1. Use to further identify, if necessary, the number cited in REF02.

2. When REF01 is code TN, the transaction set number to which the number in REF02 applies MUST be identified in this data element.

Segment: **PER** Administrative Communications Contact
Position: 090
Loop: N1
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: *Use to indicate the name and/or communication numbers for either an information point of contact at the location where the transaction set was originated, the contractor party certifying a request for a progress payment, or the party who is to receive this transmission. When used, there must be provided either a name, or a communication number, or both.*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use PER01	366	Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		CE Certifier	
		<i>Use to indicate the name and communication number of the party who provided a certification.</i>	
		IC Information Contact	
		<i>Use to indicate the party at the senders location.</i>	
		RE Receiving Contact	
		<i>Use to indicate the party at the receiving location who is to receive this transmission.</i>	
PER02	93	Name	O AN 1/35
		Free-form name	
		<i>Cite last name first, followed by first name. If the whole name is longer than 35 characters, truncate or use initials for first name. If necessary, use PER09 to provide the party's title</i>	
PER03	365	Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		AU Defense Switched Network	
		Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON)	

- ED Electronic Data Interchange Access Number
- EM Electronic Mail
- FT Federal Telecommunications System (FTS)
- FX Facsimile
- IT International Telephone
Include the country code.
- TE Telephone
Use to indicate the commercial telephone number of the individual cited in PER02. Include the area code.

PER04 364 Communication Number X AN 1/80
Complete communications number including country or area code when applicable

PER05 365 Communication Number Qualifier X ID 2/2
Code identifying the type of communication number
Use to identify a second communications number for the party cited in PER02. For example, if PER03/04 cites a telephone number, PER05/06 can be used to cite a FAX number.

AU Defense Switched Network
Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON)

- ED Electronic Data Interchange Access Number
- EM Electronic Mail
- EX Telephone Extension
Use only if PER03 is used citing code AU, FT, or TE.

- FT Federal Telecommunications System (FTS)
- FX Facsimile
- IT International Telephone
Include the country code.

TE Telephone
Use to indicate the commercial telephone number of the individual cited in PER02. Include the area code.

PER06 364 Communication Number X AN 1/80
Complete communications number including country or area code when applicable

PER07 365 Communication Number Qualifier X ID 2/2
Code identifying the type of communication number
Use to identify a third communications number for the party cited in PER02.

Segment: **MIT** Message Identification
Position: 010
Loop: MIT
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify the beginning of a specific message and to allow the identification of a subject for the message

Syntax Notes:

Semantic Notes: 1 MIT01 contains the message number.
 2 MIT02 contains the message subject.

Comments: 1 MIT03 default is 80 characters.
 2 MIT04 default is 66 lines.

Notes: *Use this segment to identify a more detailed subject of the text message*

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	MIT01	127	Reference Number	M AN 1/30
			Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. <i>A unique number assigned by the originator of the transaction set to identify multiple messages contained within this transaction set. For example, the number 001 can be used to refer to a message with the subject Packaging Requirements cited in MIT02; the number 002 can be used in another iteration of this MIT segment to identify a second message with the subject, Testing Procedures cited in MIT02.</i>	
	MIT02	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content <i>Use to provide the subject of the message.</i>	
N/U	MIT03	931	Page Width	O N0 1/3
			Definition of the maximum number of characters per line that can be expected in the message text	
N/U	MIT04	932	Page Length Lines	O N0 1/3
			Definition of the maximum number of lines per page that can be expected in the message text	

Segment: **MSG** Message Text
Position: 080
Loop: MIT
Level: Detail
Usage: Mandatory
Max Use: 100000
Purpose: To provide a free form format that would allow the transmission of text information.
Syntax Notes:
Semantic Notes:
Comments: 1 MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
Notes: *Use the full 264 character capability of data element 933 (MSG01) unless specifically advised by a trading partner to limit the length of any one iteration of the segment to 80 characters.*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use MSG01	933	Free-Form Message Text	M AN 1/264
		Free-form message text	
MSG02	934	Printer Carriage Control Code	O ID 2/2
		A field to be used for the control of the line feed of the receiving printer	

Segment: **SE** Transaction Set Trailer
Position: 010
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

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	SE01	96 Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
Must Use	SE02	329 Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <i>Cite the same number as the one in ST02.</i>	M AN 4/9

NIST Technical Publications

Periodical

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