



Federal Implementation Guideline for Electronic Data Interchange

**ASC X12 003070 Transaction Set 824T
Application Advice (Trading Partner
Registration)**

Implementation Convention



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

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¹ At Boulder, CO 80303.

² Some elements at Boulder, CO.

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Electronic Commerce Acquisition Program Management Office
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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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824 Application Advice

Functional Group ID=AG

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Application Advice Transaction Set (824) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgment sent in response to a purchase order).

Notes:

This implementation of the ANSI ASC X12 824 Transaction Set is used by the Federal Government to provide application advice concerning trading partner registrations submitted to the Central Contractor Registration System.

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	BGN	Beginning Segment	M	1		
LOOP ID - NI							>1
	030	N1	Name	O	1		
Not Used	040	N2	Additional Name Information	O	2		
Not Used	050	N3	Address Information	O	2		
Not Used	060	N4	Geographic Location	O	1		
Not Used	070	REF	Reference Identification	O	12		
	080	PER	Administrative Communications Contact	O	3		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - OTI							>1
Must Use	010	OTI	Original Transaction Identification	M	1		n1
Not Used	020	REF	Reference Identification	O	12		n2
	030	DTM	Date/Time Reference	O	2		n3
Not Used	040	PER	Administrative Communications Contact	O	3		n4
Not Used	050	AMT	Monetary Amount	O	>1		n5
Not Used	060	QTY	Quantity	O	>1		n6
Not Used	065	NM1	Individual or Organizational Name	O	9		n7
LOOP ID - TED							>1
	070	TED	Technical Error Description	O	1		
Not Used	080	NTE	Note/Special Instruction	O	100		
Not Used	082	RED	Related Data	O	100		n8

			LOOP ID - LM			>1		
Not Used	085	LM	Code Source Information	O	1		n9	
			LOOP ID - LQ			100		
Not Used	086	LQ	Industry Code	M	1			
Not Used	087	RED	Related Data	O	100		n10	
Must Use	090	SE	Transaction Set Trailer	M	1			

Transaction Set Notes

1. The OTI loop is intended to provide a unique identification of the transaction set that is the subject of this application acknowledgment.
2. The REF segment allows for the provision of secondary reference identification or numbers required to uniquely identify the original transaction set. The primary reference identification or number should be provided in elements OTI02-03.
3. The DTM segment allows for the provision of date, time, or date and time information required to uniquely identify the original transaction set.
4. The PER segment should be utilized if administrative communications contact information is important to the unique identification of the original transaction set.
5. The AMT segment should be utilized if monetary amount information is important to the unique identification of the original transaction set.
6. The QTY segment should be utilized if quantity information is important to the unique identification of the original transaction set.
7. The NM1 segment allows for the provision of entity identification information required to uniquely identify the original transaction set.
8. The RED segment may be used to provide data related to the error condition specified in the associated TED01 element.
9. The LM loop is used to identify industry-based or proprietary application error conditions.
10. The RED segment may be used to provide data related to the error condition specified in the associated LQ02 element.

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>Des.</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 824 X12.44 Application Advice	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 identify a unique number assigned by the originator of the transaction set. This number may be system generated.</i>	M AN 4/9

Segment: **BGN** Beginning Segment
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
Semantic Notes: 1 BGN02 is the transaction set reference number.
2 BGN03 is the transaction set date.
3 BGN04 is the transaction set time.
4 BGN05 is the transaction set time qualifier.
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.
6 BGN10 is related to the date in BGN03.

Comments:**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
Must Use	BGN02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <i>Use to identify the unique reference number assigned to this 824 transaction set, not the transaction set that is being reported.</i>	M AN 1/30
Must Use	BGN03	373	Date Date (YYMMDD) <i>Use to identify the date this 824 transaction set was originated.</i>	M DT 6/6
Must Use	BGN04	337	Time 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)	X TM 4/8
Not Used	BGN05	623	Time Code 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	O ID 2/2
Not Used	BGN06	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O AN 1/30
Not Used	BGN07	640	Transaction Type Code Code specifying the type of transaction	O ID 2/2
Not Used	BGN08	306	Action Code Code indicating type of action	O ID 1/2
Not Used	BGN09	786	Security Level Code Code indicating the level of confidentiality assigned by the sender to the information following	O ID 2/2
Must Use	BGN10	624	Century The first two characters in the designation of the year (CCYY)	O N0 2/2

Segment:	N1 Name
Position:	030
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:	1. <i>Address information is to be transmitted using only code values contained in a combination of N101, N103/N104 data elements.</i> 2. <i>There must be 2 iterations of the N1 loop in each transmission; one iteration to carry the name and address of the party transmitting the 824 transaction set and a second iteration containing the name and address of the party to whom the 824 transaction is being sent.</i> 3. <i>The name and address of each party will be conveyed by use of code N103/04.</i>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual FR Message From TO Message To <i>Use to indicate the entity sending the transaction set.</i> <i>Use to indicate the entity to whom the transaction set is being sent.</i>	M ID 2/3
Not Used	N102	93	Name Free-form name	X AN 1/60
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet <i>Use of the DUNS or DUNS+4 number is preferred over any other coded number to identify an entity.</i> 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix <i>Use of the DUNS or DUNS+4 number is preferred over any other coded number to identify an entity.</i>	X ID 1/2
	N104	67	Identification Code Code identifying a party or other code	X AN 2/20
Not Used	N105	706	Entity Relationship Code Code describing entity relationship	O ID 2/2
Not Used	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O ID 2/3

Segment: **PER** Administrative Communications Contact
Position: 080
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:**

When N101 is code FR, use to identify a contact to whom inquiries regarding this transaction set should be directed.

Data Element Summary

Ref.	Data			
Des.	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	
		AL	Alternate Contact	
			Person to be contacted when the main contact is not available	
			<i>Use to indicate an alternate party to whom inquiries regarding this transaction set should be directed.</i>	
		EA	EDI Coordinator	
			<i>Use to indicate the primary party to whom inquiries regarding this transaction set should be directed.</i>	
PER02	93	Name		O AN 1/60
		Free-form name		
			<i>Cite the last name first, followed by the first name. Do not truncate the last name if the whole name is longer than 60 characters. Instead, truncate the first name or use the initial of the first name.</i>	
PER03	365	Communication Number Qualifier		X ID 2/2
			Code identifying the type of communication number	
		EM	Electronic Mail	
		EX	Telephone Extension	
		FX	Facsimile	
		IT	International Telephone	
		TE	Telephone	
			<i>Use to indicate the commercial telephone number of the party cited in the PER02.</i>	
PER04	364	Communication Number		X AN 1/80
			Complete communications number including country or area code when applicable	
			<i>When PER03 is code TE, include the area code.</i>	
PER05	365	Communication Number Qualifier		X ID 2/2
			Code identifying the type of communication number	
			<i>Use to identify a second communications number for the party cited in PER03. For example, if the PER03/04 cites a commercial telephone number, PER05/06 can be used to cite an electronic mail address.</i>	
		EM	Electronic Mail	
		EX	Telephone Extension	
			<i>Use only if PER03 is code TE.</i>	

FX	Facsimile
IT	International Telephone
TE	Telephone

Use to indicate the commercial telephone number of the party cited in the PER02.

	PER06	364	Communication Number	X	AN 1/80
			Complete communications number including country or area code when applicable		
			<i>When the PER05 is code TE, include the area code.</i>		
Not Used	PER07	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		
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:	OTI Original Transaction Identification
Position:	010
Loop:	OTI Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify the edited transaction set and the level at which the results of the edit are reported, and to indicate the accepted, rejected, or accepted-with-change edit result
Syntax Notes:	1 If OTI09 is present, then OTI08 is required.
Semantic Notes:	1 OTI03 is the primary reference identification or number used to uniquely identify the original transaction set. 2 OTI06 is the group date. 3 OTI07 is the group time. 4 If OTI11 is present, it will contain the version/release under which the original electronic transaction was translated by the receiver. 5 OTI12 is the purpose of the original transaction set, and is used to assist in its unique identification. 6 OTI13 is the type of the original transaction set, and is used to assist in its unique identification. 7 OTI14 is the application type of the original transaction set, and is used to assist in its unique identification. 8 OTI15 is the type of action indicated or requested by the original transaction set, and is used to assist in its unique identification. 9 OTI16 is the action requested by the original transaction set, and is used to assist in its unique identification. 10 OTI17 is the status reason of the original transaction set, and is used to assist in its unique identification.
Comments:	1 OTI02 contains the qualifier identifying the business transaction from the original business application, and OTI03 will contain the original business application identification. 2 If used, OTI04 through OTI08 will contain values from the original electronic functional group generated by the sender. 3 If used, OTI09 through OTI10 will contain values from the original electronic transaction set generated by the sender.
Notes:	<i>Use this loop to identify the transaction set that is being reported and the action taken on that transaction set. Use multiple iterations of the OTI loop to report on more than one transaction set.</i>

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
Must Use	OTI01	110 Application Acknowledgment Code	M ID 1/2
		Code indicating the application system edit results of the business data	
		<i>Use to identify the action taken regarding the transaction set being reported in the same OTI loop.</i>	
		TA Transaction Set Accept	
		TR Transaction Set Reject	
Must Use	OTI02	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		<i>Use to indicate the unique reference number of the transaction set being reported.</i>	
		TN Transaction Reference Number	
		<i>Use to indicate the transaction set reference number.</i>	
Must Use	OTI03	127 Reference Identification	M AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

When the OTI10 is code 838, cite the number in the BTP02 of the 838 transaction set.

Not Used	OTI04	142	Application Sender's Code	O	AN 2/15
			Code identifying party sending transmission; codes agreed to by trading partners		
Not Used	OTI05	124	Application Receiver's Code	O	AN 2/15
			Code identifying party receiving transmission. Codes agreed to by trading partners		
Not Used	OTI06	373	Date	O	DT 6/6
			Date (YYMMDD)		
Not Used	OTI07	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)		
	OTI08	28	Group Control Number	X	N0 1/9
			Assigned number originated and maintained by the sender		
			<i>Use to identify the number cited in GS06 of the functional group in which the reported transaction was transmitted.</i>		
	OTI09	329	Transaction Set Control Number	O	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			<i>Use to identify the transaction set control number cited in the SE02 of the transaction set being reported.</i>		
Must Use	OTI10	143	Transaction Set Identifier Code	O	ID 3/3
			Code uniquely identifying a Transaction Set		
			838 X12.17 Trading Partner Profile		
	OTI11	480	Version / Release / Industry Identifier Code	O	AN 1/12
			Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed		
			<i>Each Federal and Department of Defense (DoD) Implementation Convention (IC) used by the Federal government has a unique identifier specified as follows:</i>		

1. For Federal and DoD ICs based on an ANSI ASC X12 transaction set:

Positions 1 through 6: *ANSI ASC X12 Version and Release number (e.g. 003010) upon which the IC is based.*

Position 7: *Organizational Scope*
F = Federal
D = DOD
G = Government (transitional)

Positions 8 through 10: *Transaction Set Identifier Code (e.g. 850).*

Position 11: *Variant: A character used to differentiate between different functional implementations of the same transaction set.*

If the convention is not a variant, an underscore () will appear in this position.

Position 12: *A sequential number starting with 0 and incremented by 1 each time the implementation convention is revised.*

An example of the Version/Release/Industry Identifier Code for revision 1 of the Federal specific IC for the X12 Version 003050 Commercial Invoice (810C) transaction set is 003050F810C1.

2. For Federal and DoD ICs based on a UN/EDIFACT message:

Positions 1 through 3: *UN/EDIFACT Version number (e.g. 921, 97A) upon which the IC is based.*

Position 4: *Organizational Scope*
F = Federal
D = DOD
G = Government (transitional)

Positions 5 through 10: *Message Identifier Code (e.g. ORDERS).*

Position 11: *Variant: A character used to differentiate between different functional implementations of the same message.*

If the convention is not a variant, an underscore () will appear in this position.

Position 12: *A sequential number starting with 0 and incremented by 1 each time the implementation convention is revised.*

An example of the Version/Release/Industry Identifier Code for revision 1 of the Federal specific IC for the UN/EDIFACT Version 97A Purchase Order (ORDERS) message is 97AFORDERS_1.

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 Procedures Review Board through October 1996

Not Used	OTI12	353	Transaction Set Purpose Code	O	ID 2/2
			Code identifying purpose of transaction set		
Not Used	OTI13	640	Transaction Type Code	O	ID 2/2
			Code specifying the type of transaction		
Not Used	OTI14	346	Application Type	O	ID 2/2
			Code identifying an application		
Not Used	OTI15	306	Action Code	O	ID 1/2
			Code indicating type of action		
Not Used	OTI16	305	Transaction Handling Code	O	ID 1/2
			Code designating the action to be taken by all parties		
Not Used	OTI17	641	Status Reason Code	O	ID 3/3
			Code indicating the status reason		

Segment: **DTM** Date/Time Reference

Position: 030

Loop: OTI Mandatory

Level: Detail

Usage: Optional

Max Use: 2

Purpose: To specify pertinent dates and times

Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM06 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Use this segment to identify the creation date of the referenced transaction set being reported.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 097 Transaction Creation	M ID 3/3
Must Use	DTM02	373	Date Date (YYMMDD) <i>1. When OTI10 is code 838, cite the date from BTP08 of the 838 transaction set.</i>	X DT 6/6
Must Use	DTM03	337	Time 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)	X TM 4/8
Not Used	DTM04	623	Time Code 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	O ID 2/2
Must Use	DTM05	624	Century The first two characters in the designation of the year (CCYY)	O N0 2/2
Not Used	DTM06	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	X ID 2/3
Not Used	DTM07	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: **TED** Technical Error Description

Position: 070

Loop: TED Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To identify the error and, if feasible, the erroneous segment, or data element, or both

Syntax Notes:

Semantic Notes:

Comments: 1 If used, TED02 will contain a generic description of the data in error (e.g., part number, date, reference number, etc.).

Notes:

1. Use this segment to identify errors within the reported transaction set.
2. Use multiple repetitions of this segment to identify multiple errors within the reported transaction set.

Data Element Summary

Ref.	Data			
Des.	Element	Name	Attributes	
Must Use	TED01	647	Application Error Condition Code	M ID 1/3
			Code indicating application error condition	
		006	Duplicate	
		007	Missing Data	
		847	Closed/Non-Existent Account Number	
			<i>Use to indicate an erroneous DUNS number.</i>	
		DTE	Incorrect Date	
			The reported date is incorrect (e.g. premature date for transaction or non-existent date such as February 30)	
		INC	Incomplete Transaction	
			Optional Element(s) required by the application are missing	
		ZZZ	Mutually Defined	
			<i>Use to indicate an erroneous TIN number.</i>	
TED02	3	Free Form Message	O	AN 1/60
		Free-form text		
TED03	721	Segment ID Code	O	ID 2/3
		Code defining the segment ID of the data segment in error (See Appendix A - Number 77)		
		<i>Use to identify the segment containing the error.</i>		
TED04	719	Segment Position in Transaction Set	O	N0 1/6
		The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1		
		<i>Use to identify the position of the segment within the transmission of the transaction set containing an error, e.g., 15. This is read as the 15th segment transmitted.</i>		
TED05	722	Element Position in Segment	O	N0 1/2
		This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID		
		<i>Use to identify the segment position of the data element containing the error, e.g., 01 in the transmitted DTM segment, if that was the element in error.</i>		
TED06	725	Data Element Reference Number	O	N0 1/4

Reference number used to locate the data element in the Data Element Dictionary

Use to identify the segment data element containing an error, e.g., 374.

TED07

724

Copy of Bad Data Element

O AN 1/99

This is a copy of the data element in error

Use to identify the erroneous content of the data element, e.g., 999.

Not Used

TED08

961

Data Element New Content

O AN 1/99

New data which has replaced erroneous data

Segment: **SE** Transaction Set Trailer
Position: 090
Loop:
Level: Detail
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>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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	
			<i>Use to transmit the same unique control number assigned by the originator of the transaction set, as the control number cited in ST02.</i>	

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