NIST Special Publication 881-51

Federal Implementation Guideline for Electronic Data Interchange

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

Implementation Convention

NIST

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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
Standard Management Committee - Secretariat
National Institute of Standards and Technology
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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.

824 Application Advice

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 - N1			>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

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	**Transaction Set Identifier Code**	M ID 3/3
			Code uniquely identifying a Transaction Set	
			824 X12.44 Application Advice	
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	
			Use to identify a unique number assigned by the originator of the transaction set. This number may be system generated.	

<div align="center">

Segment: **BGN** Beginning Segment

</div>

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:	

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Data Element Summary

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	Ref. Des.	Data Element	Name	Attributes	
Must Use	BGN01	353	**Transaction Set Purpose Code** Code identifying purpose of transaction set	M	ID 2/2
			00 Original		
Must Use	BGN02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier *Use to identify the unique reference number assigned to this 824 transaction set, not the transaction set that is being reported.*	M	AN 1/30
Must Use	BGN03	373	**Date** Date (YYMMDD) *Use to identify the date this 824 transaction set was originated.*	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. Address information is to be transmitted using only code values contained in a combination of N101, N103/N104 data elements.*	
	2. 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.	
	3. The name and address of each party will be conveyed by use of code N103/04.	

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

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. 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

AL	Alternate Contact
	Person to be contacted when the main contact is not available
	Use to indicate an alternate party to whom inquiries regarding this transaction set should be directed.
EA	EDI Coordinator
	Use to indicate the primary party to whom inquiries regarding this transaction set should be directed.

	PER02	93	**Name**	O AN 1/60

Free-form name

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.

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

	PER04	364	**Communication Number**	X AN 1/80

Complete communications number including country or area code when applicable

When PER03 is code TE, include the area code.

	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 PER03. For example, if the PER03/04 cites a commercial telephone number, PER05/06 can be used to cite an electronic mail address.

EM	Electronic Mail
EX	Telephone Extension
	Use only if PER03 is code TE.

			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
When the PER05 is code TE, include the area code.

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: *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.*

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	OTI01	110	Application Acknowledgment Code	M	ID 1/2
			Code indicating the application system edit results of the business data		
			Use to identify the action taken regarding the transaction set being reported in the same OTI loop.		
			TA Transaction Set Accept		
			TR Transaction Set Reject		
Must Use	OTI02	128	Reference Identification Qualifier	M	ID 2/3
			Code qualifying the Reference Identification		
			Use to indicate the unique reference number of the transaction set being reported.		
			TN Transaction Reference Number		
			Use to indicate the transaction set reference number.		
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

Use to identify the number cited in GS06 of the functional group in which the reported transaction was transmitted.

| | 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

Use to identify the transaction set control number cited in the SE02 of the transaction set being reported.

| Must Use | OTI10 | 143 | Transaction Set Identifier Code | O | ID 3/3 |

Code uniquely identifying a Transaction Set

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| | 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

Each Federal and Department of Defense (DoD) Implementation Convention (IC) used by the Federal government has a unique identifier specified as follows:

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.

003070   Draft Standards Approved for Publication by ASC X12 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

	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		
			097 Transaction Creation		
Must Use	DTM02	373	Date	X	DT 6/6
			Date (YYMMDD)		
			1. When OTI10 is code 838, cite the date from BTP08 of the 838 transaction set.		
Must Use	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		
Must Use	DTM05	624	Century	O	N0 2/2
			The first two characters in the designation of the year (CCYY)		
Not Used	DTM06	1250	Date Time Period Format Qualifier	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
Not Used	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:	**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. Des.	Data 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
	Use to indicate an erroneous DUNS number.
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
	Use to indicate an erroneous TIN number.

	Ref. Des.	Data Element	Name	Attributes
	TED02	3	**Free Form Message**	O AN 1/60

Free-form text

	Ref. Des.	Data Element	Name	Attributes
	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)
Use to identify the segment containing the error.

	Ref. Des.	Data Element	Name	Attributes
	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
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.

	Ref. Des.	Data Element	Name	Attributes
	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
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.

	Ref. Des.	Data Element	Name	Attributes
	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

	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	
			Use to transmit the same unique control number assigned by the originator of the transaction set, as the control number cited in ST02.	

NIST Technical Publications

Periodical

Journal of Research of the National Institute of Standards and Technology—Reports NIST research and development in those disciplines of the physical and engineering sciences in which the Institute is active. These include physics, chemistry, engineering, mathematics, and computer sciences. Papers cover a broad range of subjects, with major emphasis on measurement methodology and the basic technology underlying standardization. Also included from time to time are survey articles on topics closely related to the Institute's technical and scientific programs. Issued six times a year.

Nonperiodicals

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National Standard Reference Data Series—Provides quantitative data on the physical and chemical properties of materials, compiled from the world's literature and critically evaluated. Developed under a worldwide program coordinated by NIST under the authority of the National Standard Data Act (Public Law 90-396). NOTE: The Journal of Physical and Chemical Reference Data (JPCRD) is published bimonthly for NIST by the American Chemical Society (ACS) and the American Institute of Physics (AIP). Subscriptions, reprints, and supplements are available from ACS, 1155 Sixteenth St., NW, Washington, DC 20056.

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