



Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003060 Transaction Set 821 Financial Information Reporting

Implementation Convention



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

QC

100

.U57

NO. 881-47
1998

The National Institute of Standards and Technology was established in 1988 by Congress to “assist industry in the development of technology . . . needed to improve product quality, to modernize manufacturing processes, to ensure product reliability . . . and to facilitate rapid commercialization . . . of products based on new scientific discoveries.”

NIST, originally founded as the National Bureau of Standards in 1901, works to strengthen U.S. industry’s competitiveness; advance science and engineering; and improve public health, safety, and the environment. One of the agency’s basic functions is to develop, maintain, and retain custody of the national standards of measurement, and provide the means and methods for comparing standards used in science, engineering, manufacturing, commerce, industry, and education with the standards adopted or recognized by the Federal Government.

As an agency of the U.S. Commerce Department’s Technology Administration, NIST conducts basic and applied research in the physical sciences and engineering, and develops measurement techniques, test methods, standards, and related services. The Institute does generic and precompetitive work on new and advanced technologies. NIST’s research facilities are located at Gaithersburg, MD 20899, and at Boulder, CO 80303. Major technical operating units and their principal activities are listed below. For more information contact the Publications and Program Inquiries Desk, 301-975-3058.

Office of the Director

- National Quality Program
- International and Academic Affairs

Technology Services

- Standards Services
- Technology Partnerships
- Measurement Services
- Technology Innovation
- Information Services

Advanced Technology Program

- Economic Assessment
- Information Technology and Applications
- Chemical and Biomedical Technology
- Materials and Manufacturing Technology
- Electronics and Photonics Technology

Manufacturing Extension Partnership Program

- Regional Programs
- National Programs
- Program Development

Electronics and Electrical Engineering Laboratory

- Microelectronics
- Law Enforcement Standards
- Electricity
- Semiconductor Electronics
- Electromagnetic Fields¹
- Electromagnetic Technology¹
- Optoelectronics¹

Chemical Science and Technology Laboratory

- Biotechnology
- Physical and Chemical Properties²
- Analytical Chemistry
- Process Measurements
- Surface and Microanalysis Science

Physics Laboratory

- Electron and Optical Physics
- Atomic Physics
- Optical Technology
- Ionizing Radiation
- Time and Frequency¹
- Quantum Physics¹

Materials Science and Engineering Laboratory

- Intelligent Processing of Materials
- Ceramics
- Materials Reliability¹
- Polymers
- Metallurgy
- NIST Center for Neutron Research

Manufacturing Engineering Laboratory

- Precision Engineering
- Automated Production Technology
- Intelligent Systems
- Fabrication Technology
- Manufacturing Systems Integration

Building and Fire Research Laboratory

- Structures
- Building Materials
- Building Environment
- Fire Safety Engineering
- Fire Science

Information Technology Laboratory

- Mathematical and Computational Sciences²
- Advanced Network Technologies
- Computer Security
- Information Access and User Interfaces
- High Performance Systems and Services
- Distributed Computing and Information Services
- Software Diagnostics and Conformance Testing

¹ At Boulder, CO 80303.

² Some elements at Boulder, CO.

Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003040 Transaction Set 821 Financial Information Reporting

Implementation Convention

Electronic Commerce Acquisition Program Management Office
Standard Management Committee - Secretariat
National Institute of Standards and Technology
Gaithersburg, MD 20899-0001

Editor: Dr. Jean-Philippe Favreau

January 1998



U.S. DEPARTMENT OF COMMERCE
William M. Daley, Secretary

Technology Administration
Gary R. Bachula, Acting Under Secretary for Technology

National Institute of Standards and Technology
Raymond G. Kammer, Director

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.

National Institute of Standards and Technology Special Publication 881-47
Natl. Inst. Stand. Technol. Spec. Publ. 881-47, 21 pages (Jan. 1998)
CODEN: NSPUE2

U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON: 1998

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402

821 Financial Information Reporting

Functional Group ID=**FR**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Financial Information Reporting Transaction Set (821) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to report balances, detail and summary financial transactions, and other related account information. It can be used by financial institutions and their agents to report to their clients.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	B2A	Set Purpose	M	1		
Must Use	030	DTM	Date/Time Reference	M	4		n1
Must Use	040	TRN	Trace	M	2		
	050	N1	Name	O	1		n2
	060	PER	Administrative Communications Contact	O	>1		n3
LOOP ID - LM							10
Not Used	065	LM	Code Source Information	O	1		n4
LOOP ID - LQ							100
Not Used	067	LQ	Industry Code	M	1		
Not Used	069	DTM	Date/Time Reference	O	3		n5

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - ENT							>1
Must Use	010	ENT	Entity	M	1		n6
LOOP ID - N1							2
Not Used	020	N1	Name	O	1		
Not Used	030	N2	Additional Name Information	O	>1		
Not Used	040	N3	Address Information	O	>1		
Not Used	050	N4	Geographic Location	O	1		
Not Used	060	PER	Administrative Communications Contact	O	>1		
LOOP ID - ACT							>1
	070	ACT	Account Identification	O	1		
Not Used	080	CUR	Currency	O	1		
LOOP ID - LM							10
Not Used	085	LM	Code Source Information	O	1		n7
LOOP ID - LQ							100
Not Used	087	LQ	Industry Code	M	1		
Not Used	089	DTM	Date/Time Reference	O	3		n8
LOOP ID - RTE							13
Not Used	095	RTE	Rate Information	O	1		n9

Not Used	096	DTM	Date/Time Reference	O	1	
LOOP ID - BLN						>1
Not Used	100	BLN	Balance Information	O	1	
Not Used	110	AVA	Funds Availability	O	>1	
LOOP ID - TSU						>1
	120	TSU	Transaction Summary	O	1	
Not Used	130	AVA	Funds Availability	O	>1	
LOOP ID - FIR						>1
	140	FIR	Financial Information	O	1	
Not Used	150	DTM	Date/Time Reference	O	>1	
	160	REF	Reference Identification	O	>1	
	170	MSG	Message Text	O	>1	
Not Used	180	AVA	Funds Availability	O	>1	
Not Used	190	TRN	Trace	O	1	
Not Used	200	N1	Name	O	>1	
	210	AMT	Monetary Amount	O	>1	
Not Used	220	CTP	Pricing Information	O	>1	
Not Used	230	RTE	Rate Information	O	>1	
LOOP ID - NM1						>1
Not Used	240	NM1	Individual or Organizational Name	O	1	n10
Not Used	250	N2	Additional Name Information	O	>1	
Not Used	260	N3	Address Information	O	>1	
Not Used	270	N4	Geographic Location	O	1	
Not Used	280	DTM	Date/Time Reference	O	1	n11

Summary:

	<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	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. At least one DTM segment, for period-ending date, must be used. Others are period-starting date, statement-issued (process) date, and transaction-creation date.
2. This N1 segment identifies the forwarder of this transaction. Where the forwarder and the financial institution identified in elements ENT02-04 are different entities, the use of this segment is recommended.
3. This PER segment identifies the administrative contact(s) of the forwarder of the transaction.
4. The LM loop is intended to provide information regarding problems and errors which affect all accounts contained within this Financial Information Reporting (821) transaction set. The description of the problem or error is contained in an Industry Code list identified in the LQ segment.
5. The DTM segment is intended to provide information regarding the expected problem resolution date and/or time. Additional uses of this segment are for the provision of the problem occurrence date and/or time, and the alternate problem resolution date and/or time.
6. This ENT segment provides numeric identification of the originating financial institution and the receiving corporate entity, related to specific accounts.
7. The LM loop is intended to provide information regarding problems and errors which affect the specific account being reported within this ACT loop. The description of the problem or error is contained in an Industry Code list identified in the LQ segment.
8. The DTM segment is intended to provide information regarding the expected problem resolution date and/or time. Additional uses of this segment are for the provision of the problem occurrence date and/or time, and the alternate problem resolution date and/or time.

9. The RTE loop is used to indicate rates associated with the related account, and the effective date of that rate.
10. The NM1 loop is intended to provide individuals or organizations related to the transaction reported in the FIR segment.
11. The DTM is intended to provide a date and/or time related to the individual or organization identified in the NM1 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) 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 821 X12.24 Financial Information Reporting	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>Assigned by originator.</i>	M AN 4/9

Segment: **B2A** Set Purpose
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To allow for positive identification of transaction set purpose
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	B2A01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
	B2A02	346	Application Type Code identifying an application BT Balance and Transaction Reporting	O ID 2/2

Segment: **DTM** Date/Time Reference
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 4
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

	<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
	DTM02	373	Date Date (YYMMDD)	X DT 6/6
	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
	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 ET Eastern Time <i>Assigned by originator.</i>	O ID 2/2
	DTM05	624	Century The first two characters in the designation of the year (CCYY) <i>Assigned by originator.</i>	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: **TRN** Trace
Position: 040
Loop:
Level: Heading
Usage: Mandatory
Max Use: 2
Purpose: To uniquely identify a transaction to an application
Syntax Notes:
Semantic Notes:

- 1 TRN02 provides unique identification for the transaction.
- 2 TRN03 identifies an organization.
- 3 TRN04 identifies a further subdivision within the organization.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	TRN01	481	Trace Type Code Code identifying which transaction is being referenced 1 Current Transaction Trace Numbers	M ID 1/2
Must Use	TRN02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <i>Assigned by originator.</i>	M AN 1/30
Not Used	TRN03	509	Originating Company Identifier A unique identifier designating the company initiating the funds transfer instructions. The first character is one-digit ANSI identification code designation (ICD) followed by the nine-digit identification number which may be an IRS employer identification number (EIN), data universal numbering system (DUNS), or a user assigned number; the ICD for an EIN is 1, DUNS is 3, user assigned number is 9	O AN 10/10
Not Used	TRN04	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O AN 1/30

Segment: **N1** Name
Position: 050
Loop:
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.

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, or an individual BK Bank FW Forwarder	M ID 2/2
	N102	93	Name Free-form name	X AN 1/35
	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 13 Federal Reserve Routing Code (FRRC)	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, or an individual	O ID 2/2

Segment: **PER** Administrative Communications Contact
Position: 060
Loop:
Level: Heading
Usage: Optional
Max Use: >1
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named FC Forwarder Contact	M ID 2/2
	PER02	93	Name Free-form name <i>Assigned by originator.</i>	O AN 1/35
	PER03	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable <i>Telephone Number Assigned by Originator.</i>	X AN 1/80
	PER05	365	Communication Number Qualifier Code identifying the type of communication number FX Facsimile	X ID 2/2
	PER06	364	Communication Number Complete communications number including country or area code when applicable <i>Fax Number Assigned by Originator.</i>	X AN 1/80
Not Used	PER07	365	Communication Number Qualifier Code identifying the type of communication number	X ID 2/2
Not Used	PER08	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80
Not Used	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	O AN 1/20

Segment:	ENT Entity
Position:	010
Loop:	ENT
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To designate the entities which are parties to a transaction and specify a reference meaningful to those entities
Syntax Notes:	<ol style="list-style-type: none"> 1 If any of ENT02 ENT03 or ENT04 is present, then all are required. 2 If any of ENT05 ENT06 or ENT07 is present, then all are required. 3 If either ENT08 or ENT09 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 1 This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows: <ol style="list-style-type: none"> (1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master). (2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used. (3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used. (4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. <p>This segment also allows for the transmission of a unique reference number that is meaningful between the entities.</p>

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
ENT01	554	Assigned Number	O NO 1/6
		Number assigned for differentiation within a transaction set	
ENT02	98	Entity Identifier Code	X ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
		BK Bank	
ENT03	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		13 Federal Reserve Routing Code (FRRC)	
ENT04	67	Identification Code	X AN 2/20
		Code identifying a party or other code	
Not Used ENT05	98	Entity Identifier Code	X ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
Not Used ENT06	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
Not Used ENT07	67	Identification Code	X AN 2/20
		Code identifying a party or other code	
Not Used ENT08	128	Reference Identification Qualifier	X ID 2/3
		Code qualifying the Reference Identification	

Not Used ENT09

127

Reference Identification

X AN 1/30

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

Segment: **ACT** Account Identification
Position: 070
Loop: ACT
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify account information
Syntax Notes:

- 1 If either ACT03 or ACT04 is present, then the other is required.
- 2 If ACT05 is present, then ACT06 is required.
- 3 If ACT07 is present, then ACT05 is required.

Semantic Notes:

- 1 ACT02 is the name of the account in ACT01.
- 2 ACT07 is the name associated with the account identified in ACT06.

Comments:

- 1 ACT06 is an account associated with the account in ACT01.
- 2 ACT08 indicates if the data for the account in ACT01 is used for billing or information purposes.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ACT01	508	Account Number Account number assigned	M AN 1/35
Not Used	ACT02	93	Name Free-form name	O AN 1/35
Not Used	ACT03	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
Not Used	ACT04	67	Identification Code Code identifying a party or other code	X AN 2/20
Not Used	ACT05	569	Account Number Qualifier Code indicating the type of account	X ID 1/3
Not Used	ACT06	508	Account Number Account number assigned	X AN 1/35
Not Used	ACT07	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80
Not Used	ACT08	107	Payment Method Code Code identifying type of payment procedures	O ID 1/1
Not Used	ACT09	1216	Benefit Status Code The type of coverage under which benefits are paid	O ID 1/1

Segment: **TSU** Transaction Summary
Position: 120
Loop: TSU
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To provide specific transaction summary information
Syntax Notes: 1 If TSU08 is present, then TSU07 is required.
Semantic Notes: 1 TSU03 is a monetary amount which summarizes a group of detailed transactions.
2 TSU04 is the summary number of financial transactions identified in TSU02.
3 TSU05 allows for detailed identification of the number of transactions identified in TSU04. As an example, when summarizing a check list which contains several batches of checks, TSU04 would contain the summary number of batches, and TSU05 would contain the detailed number of checks.
4 TSU06 is the date on which the group of detailed transactions was processed by the financial institution.

Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	TSU01	1270	Code List Qualifier Code Code identifying a specific industry code list CM Financial Management Service Cash-Link Code	M ID 1/3
Must Use	TSU02	1271	Industry Code Code indicating a code from a specific industry code list	M AN 1/30
Must Use	TSU03	782	Monetary Amount Monetary amount	M R 1/15
Not Used	TSU04	380	Quantity Numeric value of quantity	O R 1/15
Not Used	TSU05	380	Quantity Numeric value of quantity	O R 1/15
Must Use	TSU06	373	Date Date (YYMMDD)	O DT 6/6
Not Used	TSU07	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	TSU08	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

Segment: **FIR** Financial Information
Position: 140
Loop: FIR
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the details of financial information transactions
Syntax Notes: 1 If FIR06 is present, then FIR05 is required.
2 If either FIR11 or FIR12 is present, then the other is required.
Semantic Notes: 1 FIR03 is the amount of the transaction.
2 FIR04 is the posted date. (Posted is a financial term that describes when the funds are booked.)
3 FIR07 is the summary number of financial transactions identified in FIR02.
4 FIR08 is the total count of detail items (e.g., number of checks) for the financial transactions summarized in FIR07.
Comments: 1 FIR11 and FIR12 are used when the entry upon which the transaction is based is of a different currency than that of the account (e.g., if a \$100 U.S. check was drawn on a Canadian dollar account, FIR03 would contain the amount of the Canadian dollar debit to the account, FIR11 would be USD, and FIR12 would be the original transaction amount (\$100)).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	FIR01	1270	Code List Qualifier Code Code identifying a specific industry code list CM Financial Management Service Cash-Link Code	M ID 1/3
Must Use	FIR02	1271	Industry Code Code indicating a code from a specific industry code list	M AN 1/30
Must Use	FIR03	782	Monetary Amount Monetary amount	M R 1/15
Must Use	FIR04	373	Date Date (YYMMDD)	O DT 6/6
Not Used	FIR05	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	FIR06	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	FIR07	380	Quantity Numeric value of quantity	O R 1/15
Not Used	FIR08	380	Quantity Numeric value of quantity	O R 1/15
	FIR09	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit C Credit D Debit	O ID 1/1
Not Used	FIR10	1197	Financial Transaction Status Code Code indicating the status of the transaction	O ID 1/2
Not Used	FIR11	100	Currency Code	X ID 3/3

Not Used	FIR12	782	Code (Standard ISO) for country in whose currency the charges are specified Monetary Amount Monetary amount	X R 1/15
----------	-------	-----	-------------------------------------------------------------------------------------------------------------------	----------

Segment: **REF** Reference Identification
Position: 160
Loop: FIR
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification ALC Agency Location Code DNR Deposit Number EH Financial Classification Code EY Receiver Sub-identification Number A unique code identifying the receiver's specific department or office location for internal routing of electronic claims PID Program Identification Number VV Voucher	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **MSG** Message Text
Position: 170
Loop: FIR
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To provide a free-form format that allows 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.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MSG01	933	Free-Form Message Text Free-form message text	M AN 1/264
	MSG02	934	Printer Carriage Control Code A field to be used for the control of the line feed of the receiving printer Refer to 003060 Data Element Dictionary for acceptable code values.	O ID 2/2

Segment: **AMT** Monetary Amount
Position: 210
Loop: FIR
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount	M ID 1/2
			HA Coin	
			HB Currency	
			HC U.S. Treasury Checks	
			HD Postal Money Orders	
			HE City Checks	
			HF Other Checks	
			N2 Individual Income Taxes and Other	
			N3 Corporate Income and Excess Profits Tax	
			N4 Excise Taxes	
			N5 Estate and Gift Taxes	
			N6 Carrier Tax Act Taxes	
			N7 Federal Unemployment Tax Act Taxes	
			N8 Miscellaneous Taxes	
			N9 Withheld and Federal Insurance Contribution Act (FICA) Taxes	
Must Use	AMT02	782	Monetary Amount Monetary amount	M R 1/15
Not Used	AMT03	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit	O ID 1/1

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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</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	M AN 4/9

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

Monographs—Major contributions to the technical literature on various subjects related to the Institute's scientific and technical activities.

Handbooks—Recommended codes of engineering and industrial practice (including safety codes) developed in cooperation with interested industries, professional organizations, and regulatory bodies.

Special Publications—Include proceedings of conferences sponsored by NIST, NIST annual reports, and other special publications appropriate to this grouping such as wall charts, pocket cards, and bibliographies.

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.

Building Science Series—Disseminates technical information developed at the Institute on building materials, components, systems, and whole structures. The series presents research results, test methods, and performance criteria related to the structural and environmental functions and the durability and safety characteristics of building elements and systems.

Technical Notes—Studies or reports which are complete in themselves but restrictive in their treatment of a subject. Analogous to monographs but not so comprehensive in scope or definitive in treatment of the subject area. Often serve as a vehicle for final reports of work performed at NIST under the sponsorship of other government agencies.

Voluntary Product Standards—Developed under procedures published by the Department of Commerce in Part 10, Title 15, of the Code of Federal Regulations. The standards establish nationally recognized requirements for products, and provide all concerned interests with a basis for common understanding of the characteristics of the products. NIST administers this program in support of the efforts of private-sector standardizing organizations.

Order the following NIST publications—FIPS and NISTIRs—from the National Technical Information Service, Springfield, VA 22161.

Federal Information Processing Standards Publications (FIPS PUB)—Publications in this series collectively constitute the Federal Information Processing Standards Register. The Register serves as the official source of information in the Federal Government regarding standards issued by NIST pursuant to the Federal Property and Administrative Services Act of 1949 as amended, Public Law 89-306 (79 Stat. 1127), and as implemented by Executive Order 11717 (38 FR 12315, dated May 11, 1973) and Part 6 of Title 15 CFR (Code of Federal Regulations).

NIST Interagency Reports (NISTIR)—A special series of interim or final reports on work performed by NIST for outside sponsors (both government and nongovernment). In general, initial distribution is handled by the sponsor; public distribution is by the National Technical Information Service, Springfield, VA 22161, in paper copy or microfiche form.

U.S. Department of Commerce
National Institute of Standards
and Technology
Gaithersburg, MD 20899-0001

Official Business
Penalty for Private Use \$300