NIST Special Publication 881-44



A11105 405548

NIST PUBLICATIONS

Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003040 Transaction Set 820A Payment Order/Remittance Advice (Automated Standard Application for Payments)

Implementation Convention



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

QC 100 .U57 NO.881-44 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

¹At Boulder, CO 80303.

²Some elements at Boulder, CO.

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

Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003040 Transaction Set 820A Payment Order/Remittance Advice (Automated Standard Application for Payments)

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 881-44 Natl. Inst. Stand. Technol. Spec. Publ. 881-44, 20 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

820 Payment Order/Remittance Advice

Functional Group ID=RA

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

Notes:

1. This is the current standard for Federal Domestic Assistance payments made via the Automated Standard Application for Payments (ASAP) system of the Financial Management Service, US Treasury.

2. The total payment amount in one 820 transaction set represents the total amount paid to one Payment Requester on behalf of one or more Federal Program Agencies for distribution to one or more Recipient Organizations.

Heading:

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. <u>Des.</u> M	<u>Max.Use</u> 1	Loop <u>Repeat</u>	Notes and <u>Comments</u>
Must Use	020	BPR	Beginning Segment for Payment	М	1		
Not Used	030	NTE	Order/Remittance Advice Note/Special Instruction	0	>1		
	035	TRN	Trace	0	1		cl
Not Used	040	CUR	Currency	0	1		c2
	050	REF	Reference Numbers	0	>1		
Not Used	060	DTM	Date/Time/Period	0	>1		
			LOOP ID - NI			>1	
	070	N1	Name	0	1		c3
Not Used	080	N2	Additional Name Information	0	>1		
Not Used	090	N3	Address Information	0	>1		
Not Used	100	N4	Geographic Location	0	1		
Not Used	110	REF	Reference Numbers	0	>1		
Not Used	120	PER	Administrative Communications Contact	0	>1		

Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u> LOOP ID - ENT	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u> >1	Notes and <u>Comments</u>
	010	ENT	Entity	Ó	1		c 4
			LOOP ID - NI			>1	
	020	Nl	Name	0	1		c5
t Used	030	N2	Additional Name Information	О	>1		
t Used	040	N3	Address Information	0	>1		

Not Not

	itomate	d Standard	d Application for Payments			
Not Used	050	N4	Geographic Location	0	1	
Not Used	060	REF	Reference Numbers	0	>1	
Not Used	070	PER	Administrative Communications Contact	0	>1	
			LOOP ID - ADX		and the second	
lot Used	080	ADX	Adjustment	0	1	сб
lot Used	090	NTE	Note/Special Instruction	0	>1	
lot Used	100	PER	Administrative Communications Contact	0	>1	
lot Used	105	DTM	Date/Time/Period	0	1	
			LOOP ID - REF		VI	>1
lot Used	110	REF	Reference Numbers	0	1	
lot Used	120	DTM	Date/Time/Period	0	>1	
			LOOP ID - IT1			>1
lot Used	130	IT1	Baseline Item Data (Invoice)	0	1	inatura en el constante de la c c 7
			LOOP 1D - REF			>1
lot Used	140	REF	Reference Numbers	0	na Sector (na Sector Sector) 1	diedertitenteintlicheitensteintitetten mehrensteinteinellittille
lot Used	141	DTM	Date/Time/Period	0	1	
			LOOP ID - ITA			>
Lat Llaad	142	ITA	Allowance, Charge or Service	0		
lot Used					>1	
lot Used	143	TXI	Tax Information	0	~1	
			LOOP ID - SLN		and the second secon	>1
lot Used	144	SLN	Subline Item Detail	0	1	
			LOOP ID - REF		and a the section of	>1
lot Used	145	REF	Reference Numbers	0	1	
lot Used	146	DTM	Date/Time/Period	0	>1	
			LOOP ID - ITA		· ··· ··· · ··· · · · · · · · · · · ·	>1
lot Used	147	ITA	Allowance, Charge or Service	0 .	ennen antarialisin metantahakin kinan. 1	ketteliki diberdali lihansa sudsum, inna tura mataraatani il dibidda.
lot Used	148	TXI	Tax Information	0	>1	
			LOOP ID - RMR			>1 5.1.2114
	150	RMR	Remittance Advice Accounts Receivable Open	0	i de la company de la comp I	c8
			Item Reference			
lot Used	160	NTE	Note/Special Instruction	0	>1	
	170	REF	Reference Numbers	0	>1	
lot Used	180	DTM	Date/Time/Period	0	>1	
			LOOP ID - ITI		en en se la tribu de se de la constance de la c	>1 ////////////////////////////////////
lot Used	190	IT1	Baseline Item Data (Invoice)	0	1	c9
			LOOP ID - REF	alain ¹ aan mar shikari 1029 falisi		`>1
ot Used	200	REF	Reference Numbers	0	1	
lot Used	201	DTM	Date/Time/Period	0	1	
			LOOP ID - ITA			>1
lot Used	202	ITA	Allowance, Charge or Service	0		Walled Intel ⁶ Contrainer Stewart, og av och set Stelle Schulter
ot Used	203	TXI	Tax Information	Ο	>1	
			LOOP ID - SLN			>1.
ot Used	204	SLN	Subline Item Detail	0	nni mhatai mhalitettar se tama tamanca 1	lanah sahisi sali 111. ara sa
			LOOP ID - REF			>1
ot Used	205	REF	Reference Numbers	0		ation de la faite de marche de la companya de la co
lot Used	205	DTM	Date/Time/Period	0	>1	
				-	-	

				1		
208	TXI	Tax Information	0	>1		
		LOOP ID - ADX			>1	- x -
210	ADX	Adjustment	0	unditidiantitidi kananana. 1	n an	c10
220	NTE	Note/Special Instruction	0	>1		
230	PER	Administrative Communications Contact	0	>1		
		LOOP ID - REF			>I	
240	REF	Reference Numbers	0	,	and the the test of the test of the second secon	umerun aran un energite umb 10 Min meriodi and dagi u
250	DTM	Date/Time/Period	0	>1		
		1.00P ID - 1T1			>1	
260	ITI	Water to Brancher the second the history of the man the other the the man can be and the second second second second		andala malanta ang ang ang ang ang ang ang ang ang an	a an	c11
200					>1	
270	RFF	The set of		raveiki kinî tirinî te în serielî 1	inderedikterionersetetter,	radaines - matrix dim
			Ŭ	1		
271	DIM				· · · · · · ·	
		The anti- the course of the trade of the second second second and and and and the second second second second s	na seconda da seconda Seconda da seconda da se	natio ano mandra Mattana itama	>1	in dit sunseen er teksett mit die bielder be
272		-	0	1		
273	TXI	Tax Information	0	>1		
		LOOP ID - SLN		· · · · · · · · · · · · · · · · · · ·	>1	
274	SLN	Subline Item Detail	0	1	li heimitettikkintainini mainaannan.	nadara ndi alia kultur terri di kandara terri di ku
		LOOP ID - REF	··· · · · ·		>1	
275	REF	Reference Numbers	0	1	ning and a loss of the second seco	anantinanan di tantan tanta ta
276	DTM	Date/Time/Period	0	>1		
					>1	
277	ΙΤΑ	and the second second second and a second	0			nee, lintaine (albigadean tradyther
				>1		
270	1741					
		I a first well was another a second state and so that he was to be with the first and the second state was son		ultraumenten in dame fans un Marielsk	>1	et an toto ar a more thank to the a low a set
				1		
285	TXI	Tax Information	0	>		
		LOOP ID - LX			>1	
290	LX	Assigned Number	0	1		
295	REF	Reference Numbers	0	>1		
300	TRN	Тгасе	0	>]		
		LOOP ID - NM1			>1	
305	NM1	Individual or Organizational Name	0	1	"Millional Sharay, war	an president and a state of the
310	REF	Reference Numbers	0	>1		
315	G53	Maintenance Type	0	1		
		LOOP ID - AIN		·····	>1	
320	AlN	Income	0	1	an 1999 - San	a more the stand of the second
325	QTY	Quantity	0	>1		
330	DTP	Date or Time or Period	0	>1		
		LOOP ID - PEN			>1	
335	PEN	Pension Information	0	1		
	AMT	Monetary Amount	0	>1		
340	ANI		-	-		
340 345	DTP	Date or Time or Period	0	>1		
			0	>1	>1	
		Date or Time or Period LOOP ID - INV Investment Vehicle Selection	0	>1	>]	
	207 208 210 220 230 240 250 260 270 271 272 273 274 275 276 277 278 276 277 278 280 285 290 295 300 305 310 315 310 315	207ITA TXI210ADX NTE220ADX PER230REF DTM240REF DTM240ITI240REF DTM240ITI240REF DTM271REF DTM272ITA TXI273ITA TXI274SLN275REF DTM276ITA TXI277ITA PER278TXP STAI280TXP TXI290LX REF STAI305NMI REF GS3306NMI REF GS3320AIN NTP	208TXITax Information200ADXAdjustment210ADXAdjustment220NTENote/Special Instruction230PERAdministrative Communications Contact200NTEReference Numbers230DTMDate/Time/Period240REFReference Numbers250DTMDate/Time/Period260ITIBaseline Item Data (Invoice)260ITIBaseline Item Data (Invoice)271DTMDate/Time/Period272ITAAllowance, Charge or Service273TXITax Information274SLNSubline Item Detail100P ID - REFIOOP ID - REF275REFReference Numbers276DTMDate/Time/Period277ITAAllowance, Charge or Service278TXITax Information279ITAAllowance, Charge or Service278TXITax Information279LXAssigned Number280TXPTax Payment285TXITax Information290LXAssigned Number291LXAssigned Number292REFReference Numbers300TRNTrace100P ID - NMIIndividual or Organizational Name310REFReference Numbers311G53Maintenance Type322QIYQuantiy330DTPDate or Time or Period<	207ITA ITAAllowance, Charge or ServiceO208TXITax InformationO200ADXAdjustmentO210ADXAdjustmentO220NTENote/Special InstructionO230PERAdministrative Communications ContactO240REFReference NumbersO250DTMDate/Time/PeriodO260IT1Baseline Item Data (Invoice)O270REFReference NumbersO271DTMDate/Time/PeriodO272ITAAllowance, Charge or ServiceO273TXITax InformationO274SLNSubline Item DetailO275REFReference NumbersO276DTMDate/Time/PeriodO277ITAAllowance, Charge or ServiceO278TXITax InformationO279REFReference NumbersO270REFReference NumbersO271DTMDate/Time/PeriodO272ITAAllowance, Charge or ServiceO274SLNSubline Item DetailO275REFReference NumbersO276DTMDate/Time/PeriodO277ITAAllowance, Charge or ServiceO278TXITax InformationO279LXAssigned NumberO280TXP <td< td=""><td>207ITAAllowance, Charge or Service01208TXITax Information0>1208TXITax Information01200NTENote/Special Instruction0>1200NTEAdministrative Communications Contact0>1200PERAdministrative Communications Contact0>1200PERAdministrative Communications Contact0>1200PERAdministrative Communications Contact01200DTMDate/Time/Period01200DTMDate/Time/Period01201REF</td><td>277ITAAllowance, Charge or Service01288TAITax Information0>1209REFNote/Special Instruction00200NTENote/Special Instruction00201ADXAdministrative Communications Contact00202PERAdministrative Communications Contact00203PERReference Numbers01204REFReference Numbers01205DTMBascline Item Data (Invoice)01206ITMBascline Item Data (Invoice)01207REF>1>1208REFReference Numbers01209DTMDate/Time/Period01201TAAllowance, Charge or Service01202TAAllowance, Charge or Service01203REFReference Numbers01204Tax Information021205REFREF>1206IXAllowance, Charge or Service01207TAAllowance, Charge or Service01208TXITax Information02209IXAllowance, Charge or Service01201TAAllowance, Charge or Service01203TXITax Information02204TXPTax Information</td></td<>	207ITAAllowance, Charge or Service01208TXITax Information0>1208TXITax Information01200NTENote/Special Instruction0>1200NTEAdministrative Communications Contact0>1200PERAdministrative Communications Contact0>1200PERAdministrative Communications Contact0>1200PERAdministrative Communications Contact01200DTMDate/Time/Period01200DTMDate/Time/Period01201REF	277ITAAllowance, Charge or Service01288TAITax Information0>1209REFNote/Special Instruction00200NTENote/Special Instruction00201ADXAdministrative Communications Contact00202PERAdministrative Communications Contact00203PERReference Numbers01204REFReference Numbers01205DTMBascline Item Data (Invoice)01206ITMBascline Item Data (Invoice)01207REF>1>1208REFReference Numbers01209DTMDate/Time/Period01201TAAllowance, Charge or Service01202TAAllowance, Charge or Service01203REFReference Numbers01204Tax Information021205REFREF>1206IXAllowance, Charge or Service01207TAAllowance, Charge or Service01208TXITax Information02209IXAllowance, Charge or Service01201TAAllowance, Charge or Service01203TXITax Information02204TXPTax Information

003040F820A0

Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	No.	ID	Name	Des.	Max.Use	Repeat	Comments
Must Use	010	SE	Transaction Set Trailer	М	1		

Transaction Set Comments

- 1. The TRN segment is used to uniquely identify a payment order/remittance advice.
- 2. The CUR segment does not initiate a foreign exchange transaction.
- 3. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
- 4. ENT09 may contain the payee's accounts receivable customer number.
- 5. Allowing the N1 segment to repeat in this area allows the paying entity within a payer and the paid entity within a payee to be identified (not the payer and payee).
- 6. This ADX loop contains adjustment items which are not netted to an RMR segment in this transaction set.
- 7. Loop IT1 within the ADX loop is the adjustment line item detail loop.
- 8. Loop RMR is for open items being referenced or for payment on account.
- 9. Loop IT1 within the RMR loop is the remittance line item detail loop.
- 10. This ADX loop can only contain adjustment information for the immediately preceding RMR segment and affects the amount (RMR04) calculation. If this adjustment amount is not netted to the immediately preceding RMR, use the outer ADX loop (position 080).
- 11. Loop IT1 within the ADX loop is the adjustment line item detail loop.

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.	Data		
	Des.	Element	Name	Attributes
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			820 X12.4 Payment Order/Remit	tance Advice
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique w	ithin the transaction set
			functional group assigned by the originator for a t	ransaction set
			1) Contains the Entry Detail Sequence portion of positions).	f the ACH Trace Number (7
			hmond.	
			3) Must equal the value in data element SE02.	e

Segment:	BPR Beginning Segment for Payment Order/Remittance Advice
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	(1) To indicate the beginning of a PaymentOrder/Remittance Advice Transaction Set and
	total payment amount or (2) to enable related transfer of funds and/or information from
	payer to payee to occur
Syntax Notes:	1 If either BPR06 or BPR07 is present, then the other is required.
	2 If BPR08 is present, then BPR09 is required.
	3 If either BPR12 or BPR13 is present, then the other is required.
	4 If BPR14 is present, then BPR15 is required.
	5 If either BPR18 or BPR19 is present, then the other is required.
	6 If BPR20 is present, then BPR21 is required.
Semantic Notes:	1 BPR02 specifies the payment amount.
	2 When using this transaction set to initiate a payment, BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used. BPR06 and BPR07 relate to the originating depository financial institution (ODFI).
	3 BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).
	4 BPR15 is the account number of the receiving company to be debited or credited with the payment order.
	5 BPR17 is a code identifying the business reason for this payment.
	6 BPR18, BPR19, BPR20 and BPR21, if used, identify a third bank identification
0	number and account to be used for return items only.
Comments:	1 BPR09 is the account of the company originating the payment. This account may be
	debited or credited depending on the type of payment order.

Data Element Summary

	Ref.	Data				
	Des.	Element	<u>Name</u>		Att	ributes
Must Use	BPR01	305	Transaction Ha	andling Code	Μ	ID 1/1
			Code designatin	g the action to be taken by all parties		
			С	Payment Accompanies Remittance	ce Advice	
Must Use	BPR02	782	Monetary Amo Monetary amou		М	R 1/15
			at the receiving transaction amo 2. A decimal po Total payment o	nt amount to be credited to the Payme financial institution. Equal to the AC ount. wint is required when the amount is in amount cannot exceed eleven characted converted to NACHA format, e.g., 999	CH entry d dollars an ers (includ	etail total ad cents. ling the
Must Use	BPR03	478	Credit/Debit Fl		M	ID 1/1
			С	Credit		
Must Use	BPR04	591	Payment Metho	od Code	Μ	ID 3/3
			•	g the method for the movement of pays	ment instru	ctions
			ACH	Automated Clearing House (ACH		
Must Use	BPR05	812	Payment Form Code identifying	at Code g the payment format to be used	0	ID 1/10
			CTX	Corporate Trade Exchange (CTX) (ACH)	
Must Use	BPR06	506	Institution (DFI)	g the type of identification number of I)	X Depository	ID 2/2 Financial
			Pertains to Orig	ginating DF1.		

			01 ABA Transit Routing Number Inclu (9 digits)	ding Ci	neck Digits
Aust Use	BPR07	507	(DFI) Identification Number	Χ	AN 3/12
			Depository Financial Institution (DFI) identification num		
			Identifies the organization originating the payment, in t	his case	e, ASAP.
lot Used	BPR08	896	<i>Contains the ASAP ABA Number (05103680-3).</i> Account Number Qualifier Code	0	ID 2/2
tot Useu	DI KUO	070	Code indicating type of bank account or other financial as		10 414
ot Used	BPR09	508	Account Number	X	AN 1/35
ot Oseu	DI KU7	500	Account number assigned	л	AN 1155
Iust Use	BPR10	509	Originating Company Identifier	0	AN 10/10
	DINIO	507	A unique identifier designating the company initiating the		
			instructions. The first character is one-digit ANSI identifi		
			designation (ICD) followed by the nine-digit identificatio		
			be an IRS employer identification number (EIN), data un		•
			system (DUNS), or a user assigned number; the ICD for a	in EIN	is 1, DUNS i
			3, user assigned number is 9 1. Identifies ASAP as the originating company.	A. S. Martin Contractory	
			1. Identifies ASAT as the originating company.		
			2. Contains the 9-digit ABA Number for ASAP precede	d by the	e number "9
			to indicate a user assigned identifier.		and the second secon
ot Used	BPR11	510	Originating Company Supplemental Code	0	AN 9/9
			A code defined between the originating company and the	•	•
			depository financial institution (ODFI) that uniquely iden	tifies th	e company
lust Use	BPR12	506	initiating the transfer instructions (DFI) ID Number Qualifier	x	ID 2/2
usi Use	DIAL	500	Code identifying the type of identification number of Dep		
			Institution (DFI)	soliory	
			Pertains to the Receiving DFI.		
			01 ABA Transit Routing Number Inclu	ding Cl	neck Digits
Y I	DDD12	507	(9 digits)	v	A BT 2/12
lust Use	BPR13	507	(DFI) Identification Number Depository Financial Institution (DFI) identification num	X	AN 3/12
			1. Identifies the receiving DFI.		
			1. Identifies the receiving D11.		
			2. Contains the 9-digit ABA Number for the Payment R	equeste	er's ACH DF
			as indicated in the ASAP Payment Requester Profile.		
Iust Use	BPR14	896	Account Number Qualifier Code	0	ID 2/2
			Code indicating type of bank account or other financial as		
			1. Identifies the type of account at the ACH DFI indicated	ted in th	he Payment
			Requester Profile.		
			2. BPR15 identifies the account number.		
			DA Demand Deposit	anna an tao a	na i na
			SG Savings		
lust Use	BPR15	508	Account Number	X	AN 1/35
		200	Account number assigned		
			Identifies the Payment Requester's ACH bank account t	o be cr	edited.
lust Use	BPR16	513	Effective Entry Date	0	DT 6/6
			Date the originating company intends for the transaction t		
			Indicates the Settlement Date in YYMMDD format.		
ot Used	BPR17	1048	Business Function Code	0	ID 1/3
			Code identifying the business reason for this payment		
ot Used	BPR18	506	(DFI) ID Number Qualifier	X	ID 2/2
			Code identifying the type of identification number of Dep	ository	Financial
			Institution (DFI)		
ot Used	BPR19	507	(DFI) Identification Number	Χ	AN 3/12

			Depository Financial Institution (DFI) identification number	c	
Not Used	BPR20	896	Account Number Qualifier Code	0	ID 2/2
			Code indicating type of bank account or other financial asse	t	
Not Used	BPR21	508	Account Number	X	AN 1/35
			Account number assigned		

ę	Segment:	TRN	V Trace		
	Position:	035			
	Loop:				
	Level:	Heading			
	Usage:	Optional			
	Max Use:	1			
	Purpose:	To uniqu	ely identify a transaction to an application		
	ax Notes:				
Semant	ic Notes:		V02 provides unique identification for the transaction.		
			103 identifies an organization.		
Ca	mmontes	3 TRN	104 identifies a further subdivision within the organizatio	n.	
Co	mments: Notes:	This som	ment must be used in each ASAP 820. It allows for ider	tification	n of the
	Notes.	2	ion sets for tracking purposes.	·iijicaiioi	i oj ine
		300001##0000000000000000000000000000000	Data Element Summary		
	Ref.	Data	Data Element Summary		
	Des.	Element	Name	Att	<u>ributes</u>
Must Use	FRN01	481	Trace Type Code	M	ID 1/2
			Code identifying which transaction is being referenced		
			Pertains to the ACH Trace Number.	78 .77	
			1 Current Transaction Trace Numbe	rs	isintana Salahara Kalana
Must Use	Γ RN02	127	Reference Number	M	AN 1/30
indust ose		147	Reference number or identification number as defined f		
			Transaction Set, or as specified by the Reference Numb	-	
			1. Contains the ACH Trace Number.		
			2. Must contain all 15 positions to conform to NACH	A format	for
			identification of the transaction set within the banking	, commu	nity.
Not Used 7	FRN03	509	Originating Company Identifier	0	AN 10/10
			A unique identifier designating the company initiating t		
			instructions. The first character is one-digit ANSI identi		
			designation (ICD) followed by the nine-digit identificat		
			be an IRS employer identification number (EIN), data u		
			system (DUNS), or a user assigned number; the ICD for 3, user assigned number is 9		IS I, DUINS IS
Not Used 7	EDN04	107	Reference Number	0	AN 1/30
			Relefence Nulliner		
itor Oscu i	FRN04	127	Reference number or identification number as defined for		

	Segment:	REF	Reference Numbe	ers	
	Position:	050			
	Loop:				
	Level:	Heading			
	Usage:	Optional			
	Max Use:	>1			
	Purpose:	To speci	fy identifying number	rs.	
	ntax Notes:	1 At le	east one of REF02 or	REF03 is required.	
	ntic Notes:				
(Comments:	A 244 201000-00000000000000000000000000000000			
	Notes:	set. One occi Number,	urrence of this REF , which identifies the	t least once but not more than twice segment must contain the partial AS transaction within ASAP. This occ	SAP Sequence currence is required.
				onal. It contains the Requester Refe IP for use at the Payment Requester	
			Data Elem	ent Summary	
	Ref.	Data			
	Des.	Element	<u>Name</u>		Attributes
Must Use	REF01	128	Reference Number Code qualifying the	r Qualifier e Reference Number.	M ID 2/2
			55	Sequence Number	
				Used for the required partial ASA. Number.	P Sequence
			EM	Electronic Payment Reference Nun	nber
				Used for the optional Requester R	eference Number.
Must Use	REF02	127	Reference Number	ในกล้างของ รายรังหมายสมสัตร์ สองวัตรามรายการการการการการสมัยหนึ่งเป็นเป็นเป็นเรื่องการการการการสมัยรามราชสมัยร 1	X AN 1/30
			Reference number of	or identification number as defined for	or a particular
			1. When REF01 is Sequence Number Sequence Number,	as specified by the Reference Number 55, this element contains first four (Payment Request Date, Input Endp and Payment Request Timestamp).	portions of the ASAP point, Screen
			2. When REF01 is Number. (15 position	tem Number is not included. EM, this element contains the Requons).	
Not Used	REF03	352	Description	tion to algorify the solated data algorithm	X AN 1/80
			A nee-torm descrip	otion to clarify the related data element	its and their content

	Segment:	N1 N	lame		
	Position:	070			
	Loop:	N1			
	Level:	Heading			
	Usage:	Optional	l		
	Max Use:	1			
S	Purpose:			e of organization, name, and code	
	ntax Notes:			or N103 is required.)4 is present, then the other is required.	red.
	Comments:	1 This	segment used a	lone, provides the most efficient me	thod of providing
,	comments.	orga prov	nizational identify vide a key to the t	fication. To obtain this efficiency the able maintained by the transaction p er define the type of entity in N101	e "ID Code" (N104) must processing party.
	Notes:			ons of the N1 loop.	
		One iter	ation must identi	fy the Payee - i.e., the Payment Re	quester.
		The othe	er iteration must	identify the Payer - i.e., ASAP.	
		an sa kaling di katalapan karan	dandan manta pana inaira mata patra F	det som andet som ander og statter, som ander som ander som etter aller til state at at aller and som at at alle	
	Ref.	Data	Data E	lement Summary	
	Des.	Element	<u>Name</u>		Attributes
Iust Use	N101	98	Entity Identifie		M ID 2/2
				g an organizational entity, a physica	al location, or an individual
			PE	Payee	
				The Payment Requester rece	iving the funds.
			PR	Payer	
				The ASAP system.	
lust Use	N102	93	Name	Cathrenna Anna.	X AN 1/35
			Free-form name	2	
			2. •	ode PE, this element contains the F ed in the Payment Requester Profil	-
			2. If N101 is co ASAP".	ode PR, this element contains the l	iteral, "Treasury/FMS-
	N103	66	Identification (Code Qualifier	X ID 1/2
			Code designatir	ng the system/method of code struct	ure used for Identification
			Code (67)		
			1. If N101 is co	ode PE, this element is required.	
			2. If N101 is co 93	ode PR , this element is not used. Code assigned by the organization	ation originating the
				transaction set	
	N104	67	Identification (X AN 2/17
				g a party or other code	
			5 *	ode PE, this element is required an efined in ASAP (7 positions).	d contains the Payment
			2. If N101 is co	ode PR , this element is not used.	
			\$2		
lot Used	N105	706	Entity Relation	ushin Code	O ID 2/2

Not UsedN10698Entity Identifier CodeOID 2/2Code identifying an organizational entity, a physical location, or an individual

	Segment:	ENJ	Entity						
	Position:	010	·						
	Loop:	ENT							
	Level:	Detail							
	Usage:	Optional							
	Max Use:	1							
	Purpose:	meaning	nate the entities which are parties to a transaction and ful to those entities		erence				
Syn	tax Notes:		y of ENT02 ENT03 or ENT04 is present, then all ar						
			y of ENT05 ENT06 or ENT07 is present, then all are	•					
Sama	ntic Notes:	3 II el	her ENT08 or ENT09 is present, then the other is re-	quirea.					
	Comments:		segment allows for the grouping of data by entity/er er/masters. A master (e.g., an organization) can be c						
		subg	roups (e.g., entities). This master may send grouped ganization) which is comprised of one or more entit	data to anothe	er master (e.g.,				
		(1) S send	ingle/Single: Only ENT01 is necessary, because the ing master) communicating with a single entity (the	receiving mas	ster).				
		entit	Eingle/Multiple: ENT05, ENT06, and ENT07 would it is within the receiving master. The sending master is elements need be used.		•				
		entit	Aultiple/Single: ENT02, ENT03, and ENT04 would ies within the sending master. The receiving master is		•				
			elements need be used. Aultiple/Multiple: ENT02_ENT03_and ENT04 would	ld be used to i	dentify the				
		• •	(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.						
			This segment also allows for the transmission of a unique reference number that is						
		meaningful between the entities.							
	Notes:		Identifies a Recipient Organization / Federal Program Agency combination. At least one ENT loop is required per transaction set.						
				2					
		3	ll be one or more RO/FPA combinations within a s	· · ·					
		2	nent Requester, and each RO/FPA combination will be one		•				
		2 / 4	T loop, where each RMR loop refers to a single AS.		•				
		2	ne RMR in an 820 indicates an individual payment		-				
			a summary payment.						
			en e	and a start of the start of t					
	Def	Det	Data Element Summary						
	Ref. Des.	Data Element	Name	Att	ributes				
Not Used	Des. ENT01	<u>Element</u> 554	Assigned Number	<u>Au</u> 0	N0 1/6				
not obta		001	Number assigned for differentiation within a transa	ction set	1.0 1.0				
Must Use	ENT02	98	Entity Identifier Code Code identifying an organizational entity, a physica	Х	ID 2/2 an individual				
			Indicates that the sending sub-entity is a Federal 1	Program Age	ncy,				
			2R Federal Facility	· ·	-				
Must Use	ENT03	66	Identification Code Qualifier Code designating the system/method of code struct	X ure used for Io	ID 1/2 dentification				
			Code (67)		-				
			Indicates the type of ID code of the sending sub-en	ntity.					
			ZZ Mutually Defined						
Must Use	ENT04	67	Identification Code	Х	AN 2/17				
0.000 100000	1.0		10						

			Code identifying a party or other code		
			Contains the required Agency Location Code (ALC) (8 po- optional Region (2 positions).	sition.	s) and the
Must Use	ENT05	98	Entity Identifier Code Code identifying an organizational entity, a physical locatio	X on, or	ID 2/2 an individual
			Indicates that the receiving sub-entity is the Recipient Org	aniza	tion.
			MA Party for whom Item is Ultimately Inte	ended	
Must Use	ENT06	66	Identification Code Qualifier	X	ID 1/2
			Code designating the system/method of code structure used Code (67)	for Ic	lentification
			Indicates the type of ID of the receiving sub-entity.	· · · · · · · · · · · · · · · · · · ·	
			93 Code assigned by the organization orig transaction set	ginatii	ng the
Must Use	ENT07	67	Identification Code Code identifying a party or other code	X	AN 2/17
			Contains the Recipient Organization ID as defined within positions). Identifies the organization granted Federal fun		P (7
Not Used	ENT08	128	Reference Number Qualifier Code qualifying the Reference Number.	X	ID 2/2
Not Used	ENT09	127	Reference Number	Χ	AN 1/30
			Reference number or identification number as defined for a Transaction Set, or as specified by the Reference Number Q	•	

	Segment:	N1 N	ame	
	Position:	020		
	Loop:	N1		
	Level:	Detail		
	Usage:	Optional		
	Max Use:	1		
	Purpose:		ify a party by type of organization, name, and code	
Syı	ntax Notes:		east one of N102 or N103 is required. ther N103 or N104 is present, then the other is requ	ired.
	ntic Notes:			
	Comments:	orga prov	segment, used alone, provides the most efficient n nizational identification. To obtain this efficiency to ide a key to the table maintained by the transaction 5 and N106 further define the type of entity in N10	he "ID Code" (N104) must processing party.
	Notes:		ould be two iterations of this N1 loop within each	
		sending	ation must identify the Federal Program Agency g sub-entity).	
		2.	r iteration must identify the Recipient Organization ral funds (the receiving sub-entity).	on which ultimately receives
			Data Element Summary	
	Ref.	Data	N	
	Des.	Element	<u>Name</u>	Attributes
Must Use	N101	98	Entity Identifier Code	M ID 2/2
			Code identifying an organizational entity, a physi	-
			 Indicates the type of sending or receiving sub For the sending sub-entity (the Federal Prog this element must equal the value of element EN 	ram Agency), the value of
			3. For the receiving sub-entity (the Recipient O this element must equal the value of element EN	rganization), the value of
			2R Federal Facility	
			Federal Program Agency	
			MA Party for whom Item is Ultin	nately Intended
			Recipient Organization	
Must Use	N102	93	Name	X AN 1/35
must Use		93	Free-form name	A AN 1/55
				Fodoral Program Against
			1. If N101 is code 2R, this element contains the short name as indicated in its ASAP Profile (10)	÷ +
			2. If N101 is code MA, this element contains the short name as indicated in its ASAP Profile (10)	
Not Used	N103	66	Identification Code Qualifier	X ID 1/2
nor Oscu	11105	00	Code designating the system/method of code stru	
Not Used	N104	67	Code (67) Identification Code	X AN 2/17
not Used	11104	0/		
			I ade identitying a party or other code	
NotTreet		707	Code identifying a party or other code	
Not Used	N105	706	Entity Relationship Code	O ID 2/2
	N105		Entity Relationship Code Code describing entity relationship	O ID 2/2
Not Used Not Used		706 98	Entity Relationship Code	O ID 2/2 O ID 2/2

Segment:	RMR Remittance Advice Accounts Receivable Open Item Reference
Position:	150
Loop:	RMR
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail
Syntax Notes:	1 If either RMR01 or RMR02 is present, then the other is required.
Semantic Notes:	1 If RMR03 is present, it specifies how the cash is to be applied.
Comments:	1 Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.
	2 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present.
	3 RMR04 is the amount paid.
	4 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.
	5 RMR06 may be used to specify discount taken.
Notes:	There is one RMR loop for each payment request against an ASAP account. There must be at least one RMR loop within each ENT loop.

Data Element Summary

	Ref.	Data			
	Des.	<u>Element</u>	Name	<u>Att</u>	<u>ributes</u>
Must Use	RMR01	128	Reference Number Qualifier		ID 2/2
			Code qualifying the Reference Number.		
			11 Account Number		
			Number identifies a telecommunication account	ns in	dustry
Must Use	RMR02	127	Reference Number	Χ	AN 1/30
			Reference number or identification number as defined for a Transaction Set, or as specified by the Reference Number (Contains the ASAP Account ID (20 positions).	-	
Not Used	RMR03	482	Payment Action Code	0	ID 2/2
Not Oseu	NIVINU5	402	Code specifying the type of accounts receivable open item(a cash application.	~	
Must Use	RMR04	782	Monetary Amount Monetary amount	0	R 1/15
			The actual payment for the request against the ASAP Acc for the Recipient Organization in ENT07 from the Federa in ENT04.		
Must Use	RMR05	777	Total Invoice or Credit/Debit Amount Amount of Invoice (including charges, less allowances) bef (if discount is applicable) or debit amount or credit amount items.		
			Contains the amount requested from the ASAP Account in Recipient Organization in ENT07 from the Federal Progr ENT04.		
Not Used	RMR06	780	Amount of Discount Taken	0	R 1/15
			Amount of discount taken, which may be less than or equal discount permitted	to the	e amount of

	Segment:	REF	Reference Numbe	ers		
	Position:	170				
	Loop:	RMR				
	Level:	Detail				
	Usage:	Optional				
	Max Use:	>1				
	Purpose:	-	fy identifying number			
•	ntax Notes:	1 At le	east one of REF02 or	REF03 is required.		
	ntic Notes:					
(Comments: Notes:	This DE	E com aut must app	ear at least once but no more than twi	an for	anah DMD
	Notes:	loop.	i segment musi uppe	eur al least once but no more man two	le jur i	euch Alma
		e e e e e e e e e e e e e e e e e e e	ummers of this DEE	a new and which an ideal the Derivative D		Term Mount on
		34		segment must contain the Payment Re ce Number. This occurrence is requir	-	item ivumber
		portion	n me ASAI Sequenc	e number. Ins occurrence is requir	eu.	
		The othe	er occurrence is optio	mal. It contains the Catalog of Feder	al Don	nestic
		27	· · · · · · · · · · · · · · · · · · ·	an optional data element in ASAP.		
			ann an 🔪 ann ann ann ann an Suisseann an ann ann ann ann ann ann ann ann		nag analan na ang ang ang ang ang ang ang ang an	antaes 🧤 - con e la falta constructió falta de la construcción de la fal
	D.C	Dete	Data Elem	ent Summary		
	Ref.	Data Flomont	Nama		A ++	ributes
Must Use	<u>Des.</u> REF01	Element 128	<u>Name</u> Reference Number	r Auslifiar	M	ID 2/2
Must Use	REF 01	120		Reference Number.	141	10 2/2
			IX	Item Number		
			111	Indicates that the Payment Request.	Ham A	Tumbar
				follows.	Lent I	umber
			ZZ	Mutually Defined	de in an an an the State of St	Siline Area (S
				Indicates that the CFDA Number fo	llows	
Must Use	REF02	127	Reference Number	Twenter and in the manufacture and a stand and a stand	X	AN 1/30
Wiust Use	KETU2	147		br identification number as defined for		
				as specified by the Reference Number	-	
				e IX, this element contains the Payme	~	
				the ASAP Sequence Number (6 positi	-	
			· · · · · · · · · · · · · · · · · · ·			
			2. If REF01 is cod	e ZZ, this element contains the Catalo	g of F	ederal
			Domestic Assistance	e (CFDA) number (5 positions).		
Not Used	REF03	352	Description	annana inanananan akarana	X	AN 1/80
			A free-form descrip	tion to clarify the related data elements	s and th	neir content

	Segment:	SE T	ransaction Set Trailer		
	Position:	010			
	Loop:				
	Level:	Summar	у		
	Usage:	Mandato	ry		
	Max Use:	1			
	Purpose:		ate the end of the transaction set and provide the count of the tra s (including the beginning (ST) and ending (SE) segments).	ansn	nitted
Syr	tax Notes:	_			
Sema	ntic Notes:				
(Comments:	1 SE is	s the last segment of each transaction set.		
			Data Element Summary		
	Ref.	Data			
	Des.	<u>Element</u>	Name	<u>Attr</u>	<u>ibutes</u>
Must Use	SE01	96	Number of Included Segments	Μ	N0 1/10
			Total number of segments included in a transaction set includ segments	ing	ST and SE
Must Use	SE02	329	Transaction Set Control Number	Μ	AN 4/9
			Identifying control number that must be unique within the tran		tion set
			functional group assigned by the originator for a transaction s		AL. 1 - 17
			Contains the Entry Detail Sequence portion of the ACH Transitions). Must equal the value in data element ST02.	ice I	vumder (7

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