

The New BTRS Standard is Here What you Need to Know

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Objectives

The new standard that replaces the old BAI2 Cash Management reporting Specification is now being released.

This session will:

- 1. Review the key elements of the new standard
- 2. Help you understand which codes were added or eliminated
- 3. Get tips for working with your banks to simplify the implementation process
- 4. Review the various tools the X9 organization and others are making available to help you implement the standard
- 5. Learn how you can obtain a copy of the new BTRS standard document

History of BTRS

The Balance and Transaction Reporting Standard (BTRS)

- 1. BAI2 Copyright Transferred to Accredited Standards Committee X9, Inc. in 2008
- 2. AFP Survey Administered in April 2010 by David Bellinger
- 3. Responses from 1,116 Corporates concluded:
 - a) Payments industry has evolved to the point where BAI2 is no longer effective
 - b) Customization has resulted in large disparities between banks
 - Inconsistent formats, syntax and transaction codes
 - Too many similar BAI codes
 - Too many unused codes
 - c) Very difficult to automate the data importation to internal systems—the central purpose of the standard!
- 4. BTRS Formulated (2010 2011)
- 5. BTRS in the Approval Process to become a Standard (In progress)

X9 Workgroups

The Accredited Standards Committee X9 has the mission to develop, establish, maintain, and promote standards for the Financial Services Industry.

X9 BAI2 Standards Lead Jim Wills, SWIFT

BAI Codes Update Chair David Repking, J.P. Morgan

Co-Chair Greg Malosh, Bank of NY Mellon

Language of the Standard Chair John Scully, Bank of America

Co-chair Bill Lundeen, Proctor and Gamble

Wire Remittance Structure Chair Gina Russo, Federal Reserve Bank

Co-Chair Susan Colles, Bank of America

Key Elements of the Standard

A Foundational Release

The Balance and Transaction Reporting Standard (BTRS) is intended to increase standardization of and improve upon BAI2

Changes include:

- 1. Modernization to include developments in banking and technology over the past 25 years
- 2. Rationalization and Reduction of the number of supported transaction codes
- 3. Globalization:
 - Additional SEPA transaction codes to support new European payment types
 - Double byte character set support through the incorporation of UTF-8
 - SWIFT and ISO 20022 XML interoperability Code Mapping and Balance Inclusions
 - Modified currency rules to make them mandatory and allow for multi-currency
- 4. New batch level (89) and invoice level (90) records providing additional remittance information using ISO 20022 component tags to assist in reconciliation and straight through processing
- 5. Additional structure to 88 record to support extended wire remittance in CTP payments

Highlights

Goal: BTRS should be as backward-compatible to BAI2 as possible!

1. What does NOT change:

- Syntax
- No new positional fields
- 88, 49, 98, 99 Records

2. 01 File Header Record

-1 = BAI1, 2 = BAI2, and 3 = BTRS

3. 03 Account Record

- Certain Balance fields and Currency Code field are required
- Inclusion of total credits and total debits
- Use of new Status and Summary Codes (Deleted obsolete codes, Summary maps to 1 Detail)

4. 16 Detail Record

- Use of new Detail Codes (Deleted obsolete codes added SEPA codes)
- Eliminated Funds Type "D" (Distributed Availability) use Funds Type "S"
- New Batch 89 and Invoice 90 Records
- New format for Wire Remittance CTP, using a standard 88 Record format

The New BTRS Status Codes

Enhancements

- 1. 28 Codes Deleted
- 2. Opening Available (035) = Balance on the date reported
- 3. Globalization
 - "Float" to "Available"
- 4. Available Balances
 - 0 Day, 1 Day, 2+ Day
 - 0, 1, 2, 3, 4, 5, 6+ Days
- 5. CD & PD Required Balances
- 6. ISO & SWIFT Interoperability

Type Code	Description	ISO Family	ISO Sub-Family	SWIFT	Current Day	Prior Day
010	Opening Ledger	OPBD	OpeningBooked	:60F:		YES
015	Closing Ledger	CLBD	ClosingBooked	:62F:		YES
020	Average Closing Ledger MTD					
025	Average Closing Ledger YTD					
030	Current Ledger	ITBD	InterimBooked	:62M:	Yes	
035	Opening Available	OPAV	OpeningAvailable	:65:		
040	Opening Available Next Business Day	FWAV	ForwardAvailable	:65:		
045	Closing Available	CLAV	ClosingAvailable	:64:		YES
050	Average Closing Available MTD					
055	Average Closing Available YTD					
057	Investment Sweep Position					
060	Current Available	ITAV	InterimAvailable	:65:	YES	
070	0 Day Available					
072	1 Day Available					
073	Availability Adjustment					
074	2 or More Days Available					
076	Balance Adjustment					
077	2 Day Available					
078	3 Day Available					
079	4 Day Available					
080	5 Day Available					
081	6 or More Days Available					

The New BTRS Summary Codes

Enhancements

- 1. 92 Codes Deleted
- 2. One-to-One Association of Summary Codes to Detail Codes
- 3. Record 03, always include
 - 100 Total Credits
 - 400 Total Debits
- 4. Globalization
 - "Float" to "Available"

Type Code	Description
100	Total Credits
110	Total Lockbox Deposits
140	Total ACH Credits
167	ACH Settlement Credits
170	Total Other Check Deposits
180	Total Loan Proceeds
190	Total Incoming Money Transfers
207	Total International Money Transfer
207	Credits
210	Total International Credits
215	Total Letters of Credit
230	Total Security Credits
250	Total Checks Posted and Returned
251	Total Debit Reversals
256	Total ACH Return Items
270	Total ZBA Credits
294	Total ATM Credits
307	Total Trust Credits
355	Investment Interest
370	Total Cash Deposits
371	Total Fees
390	Total Miscellaneous Credits
400	Total Debits
416	Total Lockbox Debits
450	Total ACH Debits
467	ACH Settlement Debits
470	Total Check Paid
480	Total Loan Payments
490	Total Outgoing Money Transfers
510	Total International Debits
515	Total Letters of Credit
530	Total Security Debits
550	Total Deposited Items Returned
551	Total Credit Reversals
570	Total ZBA Debits
628	Total Cash Center Debits
630	Total Debit Adjustments
632	Total Trust Debits
671	Total Fees

Detail Codes

Enhancements

- 1. 110 Codes Deleted
 - EDIBANX
 - FRB Clearing
 - Back-value Dated (use Funds Type "V")
- 2. Normalization
 - Full, Clear set of code
 - 1 Summary Code Assigned to each Detail Code (1:1)
 - Interoperability between BTRS, ISO & SWIFT
- 3. Globalization
 - Added SEPA Codes
 - Local Language (UTF8 e.g., Chinese)

Type Code	Example: of Some Deleted Codes
258	ACH Reversal Credit
202	Bond Operations Credit
189	Cash Letter Adjustment
369	Clearing Settlement Credit
198	Compensation
362	Correspondent Collection
363	Correspondent Collection Adjustment
240	Coupon Collections – Banks
394	Cumulative** Credits
274	Cumulative** ZBA or Disbursement Credits
184	Draft Deposit
135	DTC Concentration Credit
121	EDI Transaction Credit
122	EDIBANX Credit Received
123	EDIBANX Credit Return
306	Fed Funds Sold
368	Food Stamp Adjustment
367	Food Stamp Letter
221	Foreign Check Purchase
212	Foreign Letter of Credit
386	FRB Cash Letter Auto Charge Adjustment
384	FRB Cash Letter Auto Charge Credit

The New BTRS Detail Codes

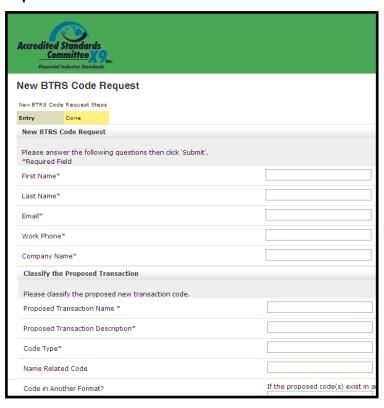
Example of ACH Payments

Туре	Detail Code	Summary Code	Description	ISO Domain	ISO Family	ISO Sub- Family	SWIFT
CR	169	140	ACH Miscellaneous	PMNT	RCDT	ATXN	DDT
DB	469	450	ACH Miscellaneous	PMNT	ICDT	ATXN	DDT
CR	166	167	ACH Originated Settlement	PMNT	RCDT	ASET	STO
DB	466	450	ACH Originated Settlement	PMNT	ICDT	ASET	STO
CR	168	167	ACH Originated Settlement - Return	PMNT	ICDT	ARET	RTI
DB	468	467	ACH Originated Settlement - Return	PMNT	RCDT	ARET	RTI
CR	165	140	ACH Received	PMNT	RCDT	ACDT	DDT
DB	455	450	ACH Received	PMNT	ICDT	ADBT	DDT
CR	257	256	ACH Received - Return	PMNT	ICDT	ARET	RTI
DB	557	450	ACH Received - Return	PMNT	RCDT	ARET	RTI
CR	141	140	ACH SEPA Transfer	PMNT	ICDT	ESCT	STO
DR	441	450	ACH SEPA Transfer	PMNT	ICDT	ESDD	STO

What if I need a new Code?

By instituting BTRS under "Continuous Maintenance", changes are readily adopted.

Step 1: Request the new code via X9 Website.



Step 2:

If urgently required, use 900 series codes until X9 assigns a new code.

Type Codes	Description	
001-099	Account status type codes	
100	Total credits summary type code	
101-399	Credit summary and detail type codes	
400	Total debits summary type codes	
401-699	Debit summary and detail type codes	
700-799	Loan summary and detail type codes	
900–919	Custom account status codes	
920–959	Custom credit summary and detail	
960–999	Custom debit summary and detail	





Table 1 Type Code Ranges

New Batch and Invoice Reporting Record Codes

Requirement:

Indicate the items within a batch deposit and the associated invoices
New Detail Record Codes

Challenge:

Including both results in double-reporting!

Solution:

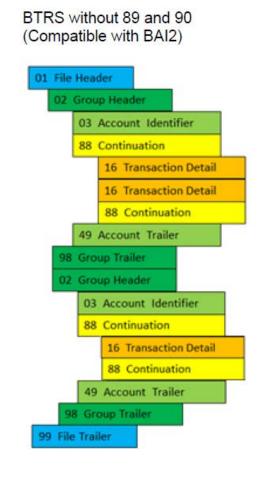
Insert items as a continuation of Transaction Detail

- 89 Batch Detail
- 90 Invoice Detail

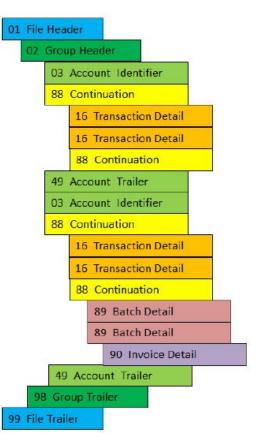
Record Code	Record Name	Purpose
01	File Header	The file header marks the beginning of a file. It identifies the sender and receiver of the transmission and describes the structure of the file.
02	Group Header	The group header identifies a group of accounts that are from the same originator and includes the same as-of-date and as-of-time.
03	Account Identifier and Summary/Sta tus	This record identifies the account number and reports activity summary and account status information. Summary information may be accompanied by an item count and funds availability distribution.
16	Transaction Detail	This record is used for transmission of detail transaction information. Transaction detail may include two reference numbers and a free-form alphanumeric text.
88	Continuation	A Continuation record is used when data exceeds the maximum physical record length, OR when it is desirable to continue data into an additional record. It may follow any record type, including another "continuation" (88) record. The 88 record is also used to provide supplemental wire remittance information for standard Fedwire CTP and CHIPS Remittance transactions.
89	Batch Detail	This record is associated to a batched transaction that contains multiple items (e.g., items in an ACH batch, items in a Lockbox deposit). There is one 89 record for each item in the batch or deposit. An 89 record shall always follow a 16 record, or an 88 record within a 16 record.
90	Invoice Detail	This record is associated to a batch transaction and provides information about the invoices for those transactions. There is one 90 record for each invoice. A 90 record shall always follow an 89 record, or an 88 record within an 89 record.
49	Account Trailer	The Account Trailer record provides account control totals.
98	Group Trailer	This record provides group control totals.
99	File Trailer	This record provides file control totals.

New Batch and Invoice Reporting Record Codes

Comparison of a BTRS file with and without Batch or Invoice Records.



BTRS with 89 and 90



New Batch and Invoice Reporting Record Codes

Example: Lockbox Deposit 115

Batch Record 89 Allows you to insert information about the items within a deposit.

Your Bank will need to include the 89 Record in your BTRS file and you will need to parse/load.

<u>Tag</u>	Description _
<amt></amt>	Check amount
<ccy></ccy>	Currency (Optional)
<chqnb></chqnb>	Check number
<acct></acct>	Check account number
<ld><</ld>	Transit routing number (Optional)
<batnb></batnb>	Batch Number
<dt></dt>	Check date
<nm></nm>	Remitter (Optional)

16,115,100000,S,40000,60000,0,0500210259LB,55555/ 88,REMARK=LOCKBOX NO: 13820 FOR 4 ITEMS AT 03:30 8 TRN: 0500210259LB
89, < Amt > 10000 < ChqNb > 11111 < Acct > 134555 < ID > 021099999 < BatNb > 55555 88, < Dt > 02042012 < Nm > Emma Smith
89, <amt> 20000 <chqnb> 22222 <acct> 134666 <id> 021099999 <batnb> 55555 88, <dt> 02042012 <nm> Emma Jones</nm></dt></batnb></id></acct></chqnb></amt>
89, <amt> 30000 <chqnb> 33333 <acct> 134777 <id> 021099999 <batnb> 55555 88. <dt> 02042012 <nm> Emma Haves</nm></dt></batnb></id></acct></chqnb></amt>
89, <amt> 40000 <chqnb> 44444 <acct> 134888 <id> 021099999 <batnb> 55555 88,<dt> 02042012 <nm> Emma Taylor</nm></dt></batnb></id></acct></chqnb></amt>

New FRB & CHIP Wire Payment Format

New FRB & CHIP Wire Payment Format Effective November 19, 2011

Wire Payments can Include Remittance (similar to ACH CTX Addenda)

- 1. New <u>Customer Transfer Plus</u> (CTP) message
- 2. Accommodates approximately 30 invoices (9,000 characters)
- 3. Interoperable with XML-based ISO 20022 & EDI-based STP820
- 4. Unstructured, Related and Structured Formats
- 5. Will be Included within the BTRS Descriptive Text (88-Level)

New FRB & CHIP Wire Payment Format

Remitta Type Indi Remittance Type		or	Remittance Tags M = Mandatory tag for the remittance type		
(Only one type can be included in a single wire payment)	Fedwire Local Instrument Code	Comparable CHIPS Additional	Fedwire	CHIPS	
		Payment Data Type			
Unstructured	ANSI = ANSI X-12	02	{8200} Unstructured Addenda Information M	[820] Additional Payment Data	
Used when the originator wants to	GXML = General XML	05		M	
send the beneficiary a block of up to	IXML = ISO 20022 XML	04			
9,000 characters of remittance data	NARR = Narrative	99			
in a certain format. However,	\$820 = STP 820	06			
Fedwire & CHIPS will not edit the	SWIF = SWIFT field 70	03			
content for a particular format.	UEDI = UN-EDIFACT	01			
Related	RRMT		{8250} Related Remittance Information M	[825] M	
Used when the originator sends the					
remittance info to the beneficiary					
outside of the wire payment & in the					
wire payment just wants to tell the					
beneficiary where to go to get the					
remittance data.					
Structured	RMTS		{8300} Remittance Originator M	[830] M	
Used when the originator wants to			{8350} Remittance Beneficiary M	[835] M	
include up to 9,000 characters of			{8400} Primary Remittance Document Info M	[840] M	
remittance data in structured fields.			{8450} Actual Amount Paid M	[845] M	
These fields are compatible with the			{8500} Gross Amt of Remittance Document	[850]	
ISO 20022 & STP 820 formats.			(8550) Amount of Negotiated Discount	[855]	
			{8600} Adjustment Information	[860]	
			(8650) Date of Remittance Document	[865]	
			(8700) Secondary Remittance Document Info	[870]	
			{8750} Remittance Free Text	[875]	

CTP message with {3610} Local Instrument Code IXML and tag {8200} Unstructured Addenda Info

```
{1500}30
                TΡ
{1510}1000
{1520}20110315B1FLDRQR000028
{2000}000003897596
{3100}021052367FRB TEST BANK E*
{3400}021052367FRB TEST BANK E*
{3600}CTP
{3610}IXML
{4200}D22222222*XYZ Corporation*100 Michigan Avenue, Suite 10*Chicago, IL*
{5010}CUST/111111111*1/ABC Corporation*2/100 Broadway, Suite 50*3/New York, NY*
{8200}1928THIS BLOCK WOULD CONTAIN REMITTANCE DATA THAT HAS BEEN FORMATTED IN
THE ISO 20022 XML FORMAT AND WOULD ONLY CONTAIN CHARACTERS PERMITTED WITHIN THE
SWIFT MX ISO 20022 CHARACTER SET. FOR
EXAMPLE: < RmtInf > Strd > RfrdDocInf > CdOrPrtry > Cd>CINV < / Cd> CdOrPrtry > / Tp>
<Nb>INVOICE000001</Nb>KltdDt>20101109</RltdDt>/RfrdDocInf>KfrdDocAmt>/DuePyb
lAmt>USD100500.00</br/>DuePyblAmt>ContApldAmt>USD400.00</br/>DscntApldAmt>AdjstmntAm
tAndRsn><amt>USD100.00</amt><CdtDbtInd>DBIT</CdtDbtInd><amt>Amt>USD100.00</amt><AddtlInf>D
educted $100 from pmt due to pricing error in original
invoice</AddtlInf></AdjstmntAmtAndRsn>
<RmtdAmt>USD100000.00/RmtdAmt>/RfrdDocAmt><CdtrRefInf><Tp>CdOrPrtry><Cd>PUOR
</cd></cd></re>
Corporation Nm > PstlAdr > AdrTp > ADDR < / AdrTp > Dept > Accounts
Receivable < / Dept > Strt Nm > Michigan
Avenue</strtNm><BldqNb>100</BldqNb><PstCd>60601</PstCd><TwnNm>Chicago</TwnNm>C
trySubDvsn>IL</CtrySubDvsn>Ctry>US</Ctry>/PstlAdr>Id>OrgId>Othr>Id>999988
888</id>SchmeNm>Cd>DUNS</cd>/SchmeNm>/Othr>/OrqId>/Id>Invcee>\Nm>ABC
Corporation Nm PstlAdr AdrTp DLVY AdrTp Dept Purchasing
Department</Dept>StrtNm>Washington
Avenue</strtNm><BldqNb>25</BldqNb><PstCd>10451</PstCd>TwnNm>Bronx</TwnNm>Ctry
SubDvsn>NY</CtrySubDvsn>Ctry>US</Ctry>/PstlAdr>Id>OrqId>Othr>/Id>111111111
PD</Id>SchmeNm>Cd>CUST</Cd>/SchmeNm>/Othr>/OrgId>/Id>CtctDtls>Nm>John
Smith</Nm><PhneNb>212-555-1111</PhneNb><MobNb>212-444-
2222</MobNb>EmailAdr>john.smith@abccorpbrx.org</EmailAdr>/CtctDtls>/Invcee>
<AddtlRmtInf>For more info about this pmt, call John Smith 212-555-
1111</AddtlRmtInf>AddtlRmtInf>Call before 5 ET</AddtlRmtInf></Strd>/Strd>/RmtInf>
THE LENGTH OF THE ADDENDA INFORMATION DATA ELEMENT WOULD NEED TO EQUAL THE
```

VALUE INCLUDED IN THE ADDENDA LENGTH DATA ELEMENT. IN THIS EXAMPLE THE LENGTH

NO DELIMITER IS NEEDED AT THE END OF TAG 8200.

IS 1928 CHARACTERS.

CTP With ISO XML

New FRB & CHIP Wire Payment Format Structured Remittance Fedwire & CHIPS Tag - STANDARD!

Without a Standard, Banks would create a customized version of CTP.

Example of **Structured** ERI

Your Bank will need to format CTP under this format in your BTRS file and you will need to parse/load.

Fedwire/CHIPS Tags	ISO 20022 Tag	Example Data
{8300} / [830] Remit Originator	<invcee></invcee>	
01 Identification Typ	<ld><ld></ld></ld>	OI
	< <mark>Orgld> or</mark>	
02 Identification Code	< <u>PrvtId></u>	CUST
03 Name	< <mark>Nm></mark>	ABC Corporation
07 Address Type	<adrtp></adrtp>	DLVY
08 Department	<dept></dept>	Purchasing Department
10 Street Name	<strtnm></strtnm>	Washington Avenue
11 Building Number	<bldgnb></bldgnb>	25
12 Post Code (Zip Code)	<pstcd></pstcd>	10451
13 Town Name	<twnnm></twnnm>	Bronx
14 County Sub Division (State)	<ctrysubdvsn></ctrysubdvsn>	NY
15 Country	<ctry></ctry>	US
24 Contact Name	<nm></nm>	John Smith
25 Contact Phone Number	<phnenb></phnenb>	212-555-1111
26 Contact Mobile Number	<mobnb></mobnb>	212-444-2222
28 Contact Electronic Address	<emailadr></emailadr>	john.smith@abccorpbrx.org

16,195,999999,S,999999,O,O,3391409259FF,LE519562028/

88 B/O BANK=XXXXXXXXXXXXXXXXXXXXXXXXXXXX,FED ID=999999999,B/O CUSTOMER=ACC 999999 XXXXXX

88,XXXXXXXXXXXXXXXXXXXXXX,FED TIME=11:11,REC GFP=011111111,MRN SEQ=PAYBXXXXXXXX

88,XXXX,FED REF=0916 B9Q9999C 999999 **VIA FED**

88, ADDENDA = <Invcee> = <Id> OI <OrgId> CUST <Nm> ABC Corporation <Id> 1111111111-P

88,D <AdrTp> DLVY <Dept> Purchasing Department <StrtNm> Washington Avenue

88, <BldgNb> 25 <PstCd> 10451 <TwnNm> Bronx <CtrySubDvsn> NY <Ctry> US <Nm> John

88,Smith <PhneNb> 212-555-1111 <MobNb> 212-444-2222 <EmailAdr> john.smith@abccorpbrx.org

The New BTRS Next Steps

- 1. Voting in Progress to Approve the new BTRS Standard
- 2. Formalizing BTRS-to-ISO Code Mapping
- 3. Incorporating Feedback from Membership
- 4. Publish the BTRS Standard
- 5. <u>Banks</u> should:
 - Begin to offer the BTRS format within 12-18 months
 - Remap deleted Detail Codes using the Technical Implementation Guide (TBD)
 - Remap Summary Codes to the standard associated to each Detail Code
 - Provide only codes on the list (Request New codes via X9)

6. You should:

- Visit the X9 Website regularly
- Determine the impact to you back-office system for the new BTRS Format
- Ask your banks for their plans to upgrade from BAI2 to BTRS
- Tell your banks YOUR requirements for upgrading (Remember, YOU asked for BTRS!)

Resources



Resources BTRS is the New Face of BAI2



American National Standard for Financial Services

ANSI X9.121-2012

Balance and Transaction Reporting Standard

Previous version published as BAI Cash Management Balance Reporting Specifications Version 2 Technical Reference Manual



Developed by Accredited Standards Committee X9, Incorporated Financial Industry Standards

Date Approved:

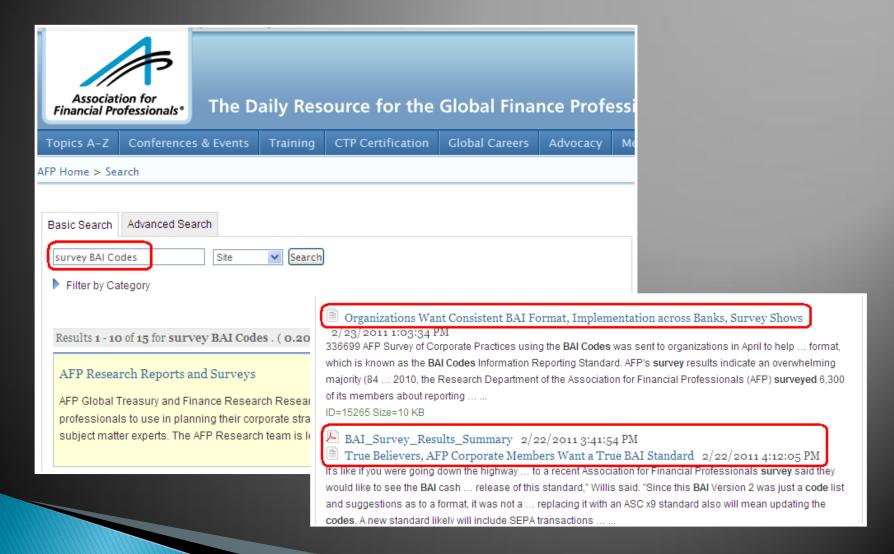
American National Standards Institute

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Resources

AFP Member Website

http://www.afponline.org/



Resources

X9 Member Website

http://www.x9.org/home/



FRB Financial Services Documentation - Wire Remittance Website http://www.frbservices.org/campaigns/remittance/index.html

noliday Schedules

Industry Links

MY QUICK LINKS

FedACH Services Education

Customer Communications

Fedwire Testing Opportunities

Check Adjustment Quick Reference Guide

New Coin Information

Check Restructuring

Document to be posted:

 BAI Wire Remittance Technical Document

- 3. Read the May 13, 2008, Announcement on Support for New Formats (PDF)
- Read "Moving Forward with B2B Wire Transfers: How Banks Can Create Value for their Corporate Clients" (PDF) (c)
 Henry Stewart Publications, first published in Journal of Payments Strategy & Systems
- 5. Read the announcement on the revised implementation date (PDF) for the new message format

Format Specifications and Implementation Guidance

- 1. Review a list of Frequently Asked Questions and General Information (Updated 05/11/10)(PDF)
- Review the Mapping Table Fedwire Business Remittance Information Mapped to ISO20022 and STP 820 (Updated 10/28/09)(xds)
- 3. Fedwire Funds Format Reference Guide (Updated 1/19/11) (PDF), Effective November 19, 2011
- Review the recommended <u>best practices</u> (PDF) for implementing and using the extended-character business remittance information in wire transfers

Testing and Certification

The Federal Reserve Banks are targeting May 2011 to make these format changes available in their Depository Institution Test (DIT) environment. The final testing schedule and specific certification requirements will be announced at a later date and posted on this information page.

Information Sessions

The Federal Reserve Banks will host online information sessions on March 31 and April 14 to help you prepare for the technical aspects of the November 2011 Fedwire message format changes. To register, visit Federal Reserve Bank Events.

Additional Information

- For a list of contacts for your institution, visit <u>Contact Us</u>
- To stay informed about upcoming developments from the Federal Reserve Banks related to the new business remittance information message format, please <u>submit your information here</u>.

FEDERAL RESERVE



FINANCIAL SERVICES

Questions



Questions

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