Understanding ISO 20022
Preconference Workshop
Session Date: 4/21/2013, 3:30 p.m. – 5:30 p.m, Room nnn

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Agenda

1. Introductions
2. Background ISO 20022
3. ISO20022 Adoption
4. CGI
5. The Schema
   - Introduction
   - Key components
   - Customer Credit Transfer Initiation and Direct Debit Initiation - pain.001.001.03 and pain.008.001.03
   - Payment Status Report - pain.002.001.03
   - Bank to Customer Account Report, Statement and Debit/Credit Notification – camt.052.001.02, camt.053.001.02 and camt.054.001.02
6. Summary
7. Q&A
8. Appendix
   - Glossary
   - Resources
   - Biographies
Introduction

Session Objectives: Understanding ISO 20022

- Examine the ISO 20022 standard, explain the data contained in a credit transfer message, and why it is important to understand the standard.
- Explore the ISO 20022 message structure, data content, and message composition, and compare it to the ACH Record Format.
- Discuss the use of ISO 20022 for SEPA credit transfer.
- Explore Common Global Implementation for U.S. and international payment activity.
- Look at the alignment of remittance information standards for 820 STP, Fedwire ERI and ISO.
- Learn about the adoption of ISO 20022 messages inside and outside the U.S.

Introducing the Panelists
Format: Open discussion, slides as discussion guides & takeaways
Introduction

The nice thing about standards is that there are so many of them to choose from.

Andrew S. Tanenbaum  quotationspage.com

NACHA messaging standards are essential to the operation of one of the largest payment systems in the world’s largest economy.
Background - ISO 20022
Background – ISO 20022

What is ISO20022 - For financial services?
- A harmonized set of standards across financial services domains:
  - Cash, Securities, Trade, Card, FX, Remittances and other.
- Freely available to all members of the financial services community.
- Based on a partnership of multiple standards organizations including SWIFT, IFX, OAGi, x9, TWIST, and others. A single set of globally relevant financial services messaging standards.
- The focus of SWIFT’s future standards development (SWIFT MX).

What is ISO20022 - For payments?
- Implemented by banks, corporations, payment systems and financial applications providers to conduct payment operations.
- The future (and present) standard in use with a number of the world’s clearing and payment systems.
- Frequently appearing in corporate cash management RFPs where multi-bank, multi-country reach is required.
Background – ISO 20022
ISO Standards for Financial Services

ISO Technical Committee TC68 - Financial Services
USA is the Secretariat, Convenor and a Member

SC2 Security  SC4 Securities  SC7 Banking  ISO 20022 RMG  USA is Secretariat and Co-Convenor  WG4 and WG5 ISO20022 Technical Standard

• Examples of ISO Standards Used in the US Payments Industry
  • SC2 Financial Services, Security
    – PIN, biometrics, PKI, encryption algorithms
  • SC7 Financial Services, Core Banking
    – BIC, ISO currency codes, IBAN
  • TC 68 ISO 20022 standard, *Universal financial industry message scheme*
The Payment SEG addresses the messages supporting transactions and business processes related to credit transfers, direct debits, checks, and drafts.

Business areas include:
- Payment initiation: customer and its bank
- Clearing and settlement: interbank transfers.
- Cash management /account reporting and advising
- Bank account management
- Exceptions and investigations, various others

The actors involved include:
- Providers: Financial institutions
- Payment system operators: Central banks, clearing houses and RTGS systems
- End users: Payment factories, private and corporate customers
ISO 20022 Payments Schema Flows

- **Customer-to-Bank**
  - Customer Credit Transfer Initiation
    - pain.001.001.02
  - Payment Status Report
    - pain.002.001.02
  - Customer Direct Debit Initiation
    - pain.008.001.02
  - Payment Status Report
    - pain.002.001.03

- **Interbank**

- **Bank-to-Customer**
  - B2C Account Report
    - camt.052.001.01
  - B2C Account Statement
    - camt.053.001.01

**Clearing & Settlement**

**Account Reporting**

- B2C Account Report
  - camt.052.001.01
- B2C Account Statement
  - camt.053.001.01

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The Electronic Payments Association

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ISO 20022 Adoption
Who (and what) is driving ISO 20022 adoption?

- **New initiatives**
  - Market infrastructures
  - Global harmonisation & regulation (e.g., SEPA in Europe)
  - Automation in specific markets (e.g., the ‘funds’ market)
- **New players**
  - Corporates, fund managers
- **New technology**
  - XML, SOA, web services

**Drivers:**
- Harmonization (driven by regulation or innovation)
- Renewal of legacy systems
- Further automation required
- Creation of new services
- Interoperability with other systems/players
Why adopt ISO 20022

An international and neutral recipe to build a shared financial language
– Meaning of business processes and information > dictionary
– Set of messages to execute end-to-end transactions > repository
– Right syntax: XML > universally used, tools available to facilitate implementation

• ISO 20022 allows for more flexibility than MT to cater for local/specific needs
  – Implementation guidelines:
    formal way to express market practice
  – Extensions
  – Right tools and services available to manage flexibility
## Status overview – Payments MI

<table>
<thead>
<tr>
<th></th>
<th>Status</th>
<th>Planned live date</th>
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<tbody>
<tr>
<td>EU-SEPA</td>
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<td>Live – end date 2014</td>
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<tr>
<td>SG</td>
<td>Live</td>
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<td>IPFA</td>
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<td>JP-Zengin</td>
<td>Live</td>
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<td>IN - RTGS</td>
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<td>2013 (TBC)</td>
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<td>SADC</td>
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<td>JP-BOJNet</td>
<td>Roll-out</td>
<td>2015</td>
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<td>CH</td>
<td>Roll-out</td>
<td>2015-2018</td>
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<td>AU-LVP</td>
<td>Roll-out</td>
<td>2016/2017</td>
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<tr>
<td>T2</td>
<td>Committed</td>
<td>2017</td>
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<td>CA-all payment systems</td>
<td>Roll-out</td>
<td>2020</td>
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<tr>
<td>CNAPS,CIPS</td>
<td>Under discussion</td>
<td>TBD</td>
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</table>
ISO 20022 Adoption
Payment Market Infrastructures & Initiatives
Corporate adoption trend

1% Adoption 2009

1% Adoption 2009

4% Adoption 2010

4% Adoption 2010

20%+ Adoption 2011-2012

20%+ Adoption 2011-2012

Increasing Adoption 2013-2014

Increasing Adoption 2013-2014
ISO 20022 Adoption

- SWIFT worked closely with Corporates on implement of ISO 20022 cash management and payment initiation standards.

- Has involved definition of best practices for implementation.

- ISO 20022 corporate to bank standards are global and applicable across industries.

- These standards are aligned with the interbank ISO 20022 payments standards which will also enable SEPA.

**Messages Types**

<table>
<thead>
<tr>
<th>Payment Initiation</th>
<th>pain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Management</td>
<td>camt</td>
</tr>
</tbody>
</table>

General Electric is one example of a corporate that has implemented ISO 20022 MXs for Corporate to Bank payments.
Background – CGI
Mission & Objective

• Provides a forum for financial institutions (banks and bank associations) and non-financial institutions (corporates, corporate associations, vendors and market infrastructures) to progress various corporate-to-bank implementation topics on the use of ISO 20022 messages and to other related activities, in the payments domain.

• Simplify implementation for corporate users and thereby promoting wider acceptance of ISO20022 as the common XML standard used between corporates and banks.

• Achieved through consultation, collaboration and agreement on common implementation templates for relevant ISO 20022 financial messages, leading to their subsequent publication and promotion in order to attain widespread recognition and adoption.

Common Global Implementation (CGI) initiative
Drivers

• CGI is driven by customer demand for multibank coordination of implementations
  – Intended specifically for global, multi-country, multi-bank and multi-instrument implementations that the participating banks can commonly accept as ONE of their implementations.
  – Focused on the general message structure and then successful creation of individual transactions that can be executed by the participating banks.
  – Published and endorsed from appropriate communities.
  – Engaged through active corporate partnership.

“A corporate can use the same message structure for all their payments with all of their transaction banks reaching any payment system across the globe.”
Financial Institution Members
In total 34 FI members (Contributing & Observers)

- Bank of America Merrill Lynch
- Barclays
- BBVA
- BNP Paribas
- BSK, Bankenes Standardiseringskontor
- Citibank
- Commerzbank AG
- Danish Bankers Association
- Danske Bank
- Deutsche Bank
- DnB NOR
- HSBC
- ING Bank
- J.P.Morgan
- Nordea Bank
- Payments Council
- Raiffeisen Bank International
- Royal Bank of Scotland
- Santander
- SEB
- Standard Chartered
- Sydbank A/S
- UniCredit Bank

Common Global Implementation (CGI) initiative
Non-Financial Institution Members
In total 37 Non-FI members (Contributing & Observers)

- AITI
- BBP
- Bottomline Technologies
- CBI Consortium
- Exalog
- General Electric
- GXS
- IKEA
- Netilys Consulting
- Nets
- PwC
- SAP AG
- Siemens
- SIX Interbank Clearing
- Sungard
- SWIFT
- TIS
- Traxpay
- UTSIT
- Visma Software International AS
- XMLdation
- Zanders

Common Global Implementation (CGI) initiative
Work Group deliverables

- Credit Transfer (*pain.001*) template to include ACH and wires (domestic and international) and cheques/drafts
- Appendix A – Clearing system classifications
- Appendix B – Country specific data requirements
- Appendix C - Country specific Purpose codes
- Payment Status Report (*pain.002*) template with process flow

- Direct Debit (*pain.008*) template to include any electronic debit transaction
- Appendix B* – Country specific data requirements
- Appendix C* - Country specific Purpose codes
- Mandate Initiation Request (*pain.009*)
- Mandate Amendment Request (*pain.010*)
- Mandate Cancellation Request (*pain.011*)
- Mandate Acceptance Report (*pain.012*)

- Account Report (*camt.052*) template to include intra-day bank account activity
- Statement (*camt.053*) template to include end of period bank account activity
- Debit/Credit Notification (*camt.054*) template template to include detail notification reporting
- Appendix A – Uses cases and examples

*Not published*
The Messages - Introduction
Payment Related Standards

Schema Families
• auth - Authorities Financial Investigations
• acmt - Account Management
• camt - Bank-to-Customer
  – Cash Management,
  – Bank Services Billing, Change/Verify Account Identification,
  – Exceptions and Investigations,
  – Notification to Receive
• pacs - Payments Clearing and Settlement-
• pain - Payments Initiation, Creditor Payment Activation Request, Mandate

• Published standards include:
  – Customer to bank payment initiation
    – 4 schema including:
      – Customer to bank payment initiation - CGI variant based on v3.
      » Direct Debit - CGI variant based on v3.
  – Bank to bank payment initiation (PACS v2, same availability)
    » 6 schema including:
      » Payment Status Report
  – Account reporting and transaction advising
    » 3 schema – Statement and advice

• Other
  – Bank Account Management (eBAM)
    • 15 schema
  – Exceptions and Investigations (E&I)
    – 14 schema (plus 2 additional SWIFT MX schema)
ISO 20022 payment messages

Global Standards
- Single or Multiple Payments
- High value, Low Value, RTGS, ACH, Urgent, Non-Urgent, Domestic, Cross-border

Payment Initiation (CT) + R*
- Exceptions & Investigations
- Change/Verify Account Identification
- Bank Account Management
- Bank Services Billing (SWIFT/TWIST)

B2C Cash Management
- Exceptions & Investigations
- Change/Verify Account Identification
- E-Mandates

Interbank Payments (CT & DD) + Related Messages*
- Exceptions & Investigations
- Cash Management (SWIFT)

Payment Initiation (DD) + R*
- Exceptions & Investigations
- E-Mandates
- Bank Account Management
- Bank Services Billing (SWIFT/TWIST)

* Returns, Rejects, Reversals, Status Report

Candidate ISO 20022

Debtor

Creditor

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ISO 20022 Maintenance and Versioning

ISO20022
- Annual maintenance cycle, a new version issued when there are changes, public change request process, adopters are free to retain old versions.

Common Global Implementation
- To promote stability and adoption:
- “At this time, CGI will continue to support guidelines based on the ISO 20022 2009 release of the messages”.

Example: pain.001.001.03 (CGI)
- Version 2
- Variant 1
- CustomerCreditTransferInitV03
- Payments Initiation

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>2003</td>
<td>ISTH harmonization: SWIFT, IFX, TWIST, OAGi</td>
</tr>
<tr>
<td>2004</td>
<td>C2B payment standards v1 published</td>
</tr>
<tr>
<td>2005</td>
<td>SWIFT introduces SCORE</td>
</tr>
<tr>
<td>2006</td>
<td>Payment standards v2 (C2B, B2B) published</td>
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<tr>
<td>2007</td>
<td>SWIFT XML pilot</td>
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<tr>
<td>2008</td>
<td>Payment standards v3 (C2B CT) published</td>
</tr>
<tr>
<td>2009</td>
<td>Payment standards v4 (C2B CT)</td>
</tr>
<tr>
<td>2010</td>
<td>CGI publishes multibank variants of the C2B msgs</td>
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<tr>
<td>2011</td>
<td></td>
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<tr>
<td>2012</td>
<td></td>
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<tr>
<td>2013</td>
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## Version / Release Support

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<tr>
<th>Message</th>
<th>Year</th>
<th>Message Name</th>
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<tbody>
<tr>
<td>pain.001.001.03</td>
<td>2009</td>
<td>Customer Credit Transfer Initiation V03</td>
</tr>
<tr>
<td>pain.002.001.03</td>
<td>2009</td>
<td>Customer Payment Status Report V03</td>
</tr>
<tr>
<td>pain.008.001.02</td>
<td>2009</td>
<td>Customer Direct Debit Initiation V02</td>
</tr>
<tr>
<td>pain.009.001.01</td>
<td>2009</td>
<td>Mandate Initiation Request V01</td>
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<td>pain.010.001.01</td>
<td>2009</td>
<td>Mandate Amendment Request V01</td>
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<tr>
<td>pain.011.001.01</td>
<td>2009</td>
<td>Mandate Cancellation Request V01</td>
</tr>
<tr>
<td>pain.012.001.01</td>
<td>2009</td>
<td>Mandate Acceptance Report V01</td>
</tr>
<tr>
<td>camt.052.001.02</td>
<td>2009</td>
<td>Bank To Customer Account Report V02</td>
</tr>
<tr>
<td>camt.053.001.02</td>
<td>2009</td>
<td>Bank To Customer Statement V02</td>
</tr>
<tr>
<td>camt.054.001.02</td>
<td>2009</td>
<td>Bank To Customer Debit Credit Notification V02</td>
</tr>
</tbody>
</table>

**CGI Support Statement** (4<sup>th</sup> December 2012)

At this time, CGI will continue to support guidelines based on the **ISO 20022 2009** release of the messages. This decision is fundamental due to the growing adoption of the current guidelines by corporate clients and software applications along with financial industry market stakeholders unwillingness to invest in development for the 2012 release when a new ISO 20022 release is due to be published in 2013.
The Message Specifications
Let’s talk about ISO 20022

- Payment/Cash Management message flow
- Structure of message
  - Key components
  - Customer Credit Transfer Initiation and Direct Debit Initiation pain.001.001.03 and pain.008.001.03
  - Payment Status Report pain.002.001.03
  - Bank to Customer Account Report, Statement and Debit/Credit Notification – camt.052.001.02, camt.053.001.02 and camt.054.001.02
Message flow

Based on ISO 20022 messages published in April 2009
Key components

• Account
• Party
  • Organization Id
  • Private Id
• Postal Address
• Agent
• Amount
• Remittance Information
  • Unstructured
  • Structured
• Bank Transaction Code
Accounts in Message

Debtor Account  \textit{DbtrAcct}
Debtor Agent Account  \textit{DbtrAgtAcct}
Charges Account  \textit{ChrgsAcct}
Intermediary Agent1 Account  \textit{IntrmyAgt1Acct}
Intermediary Agent2 Account  \textit{IntrmyAgt2Acct}
Intermediary Agent3 Account  \textit{IntrmyAgt3Acct}
Creditor Agent Account  \textit{CdtrAgtAcct}
Creditor Account  \textit{CdtrAcct}
Parties in Message

- Initiating Party: InitiPty
- Debtor: Dbtr
- Ultimate Debtor: UltmtDbtr
- Creditor: Cdtr
- Ultimate Creditor: UltmtCdtr
- Invoicer: Invcr
- Invoicee: Invcee
OrgId and PrvtId
Postal Address

Structured vs Unstructured Physical Address

State or Province

Only support 2 lines
Agents in Message

- Forwarding Agent
- Debit Agent
- Charges Account Agent
- Intermediary Agent1
- Intermediary Agent2
- Intermediary Agent3
- Creditor Agent

Agent

- Agent in Message
- Forwarding Agent
- Debtor Agent
- Charges Account Agent
- Intermediary Agent1
- Intermediary Agent2
- Intermediary Agent3
- Creditor Agent

Institutional Identifiers

- AUBSB
- ATBLZ
- CACPA
- CNAPS
- DEBLZ
- GRBIC
- HKNCC
- INFSC
- IENCC
- ITNCC
- JPZGN
- NZNCC
- PLKNR
- PTNCC
- RUCBC
- SGIBG
- ZANCC
- ESNCC
- SESBA
- CHBCC
- CHSIC
- TWNCC
- GBDSC
- USPID
- USABA
Amount

Amounts in Message

<table>
<thead>
<tr>
<th>Amount</th>
<th>Amt</th>
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</thead>
<tbody>
<tr>
<td>Total Taxable Base Amount</td>
<td>TtlTaxblBaseAmt</td>
</tr>
<tr>
<td>Total Tax Amount</td>
<td>TtlTaxAmt</td>
</tr>
<tr>
<td>Taxable Base Amount</td>
<td>TaxblBaseAmt</td>
</tr>
<tr>
<td>Due Payable Amount</td>
<td>DuePyblAmt</td>
</tr>
<tr>
<td>Discount Applied Amount</td>
<td>DscntApldAmt</td>
</tr>
<tr>
<td>Remitted Amount</td>
<td>RmtdAmt</td>
</tr>
<tr>
<td>Credit Note Amount</td>
<td>CdtNoteAmt</td>
</tr>
<tr>
<td>Tax Amount</td>
<td>TaxAmt</td>
</tr>
</tbody>
</table>

<InstdAmt Ccy="USD"> 10.00</InstdAmt>

<Amt Ccy="EUR">100.00</Amt>
Remittance Information

Free form text Remittance Info

Structured Remittance Info

- RfrdDocInf
  - 0..∞
- RfrdDocAmt
- CdtRefInf
- Invr
- Invcee
- AddtlRmtInf
  - 0..3

StructuredRemittanceInformation
Remittance Info - Structured

Invoice Document Types

- **AROI** = Accounts Receivable Open Item
- **CINV** = Commercial Invoice
- **CMCN** = Commercial Contract
- **DEBN** = Debit Note
- **DNFA** = Debit Note related to Financial Adjustment
- **DISP** = Dispatch Advice
- **SOAC** = Statement on Account
- **VCHR** = Voucher

Credit Memo Document Types

- **CREN** = Credit Note
- **CNFA** = Credit Note related to Financial Adjustment
Remittance Info - Structured

_invoice_amount_ Invoice Amount
_discount_taken_ Discount Taken on Invoice
_credit_note_amount_ Credit Note Amount
_tax_amount_ Tax Amount

Adjustment Amount And Reason

Remitted Amount

<RmtdAmt Ccy="EUR">100.00</RmtdAmt>
Bank Transaction Code

Transaction code defined by ISO 20022; external code list cross referenced to BAI code

BAI code

Value of “BAI’
Sample BAI Codes vs
ISO 20022 Bank Transaction Codes

<table>
<thead>
<tr>
<th>BAI Code</th>
<th>Description</th>
<th>Domain</th>
<th>Family</th>
<th>Sub-Family</th>
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<tbody>
<tr>
<td>166</td>
<td>ACH Originated Settlement</td>
<td>PMNT</td>
<td>RCDT</td>
<td>ASET</td>
</tr>
<tr>
<td>466</td>
<td>ACH Originated Settlement</td>
<td>PMNT</td>
<td>ICDT</td>
<td>ASET</td>
</tr>
<tr>
<td>168</td>
<td>ACH Originated Settlement - Return</td>
<td>PMNT</td>
<td>ICDT</td>
<td>ARET</td>
</tr>
<tr>
<td>468</td>
<td>ACH Originated Settlement - Return</td>
<td>PMNT</td>
<td>RCDT</td>
<td>ARET</td>
</tr>
<tr>
<td>165</td>
<td>ACH Received</td>
<td>PMNT</td>
<td>RCDT</td>
<td>ACDT</td>
</tr>
<tr>
<td>455</td>
<td>ACH Received</td>
<td>PMNT</td>
<td>ICDT</td>
<td>ADBT</td>
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<tr>
<td>208</td>
<td>Money Transfer - Cross-Border</td>
<td>PMNT</td>
<td>RCDT</td>
<td>XBCT</td>
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<tr>
<td>508</td>
<td>Money Transfer - Cross-Border</td>
<td>PMNT</td>
<td>ICDT</td>
<td>XBCT</td>
</tr>
</tbody>
</table>

- PMNT = Payment
- RCDT = Received Credit Transfer
- ICDT = Issued Credit Transfer
- ASET = ACH Settlement
- ARET = ACH Return
- ACDT = ACH Credit
- ADBT = ACH Debt
- XBCT = Cross Border Credit Transfer
Customer Credit Transfer Initiation
pain.001.001.03
Customer Credit Transfer Initiation – pain.001.001.03

Scope
- Sent by an initiating party to the forwarding agent or debtor’s agent
- Used to request movement of funds from the debtor’s account

Main Usage
- ACH/low value, wire/high value, cross border, foreign exchange, cheques, drafts, SEPA Credit Transfers, book transfers,
- Debit to originator debit account and credit to beneficiary account
- Single or multiple instances

Key Features
- Payment type identification
- Batch or single entry indication
- Identification of all customer parties
- Dedicated references
- Remittance information: structured or unstructured
<Document xmlns="urn:iso:std:iso:20022:tech:xsd:pain.001.001.03"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:pain.001.001.03">
  
  <!-- Diagram content here -->

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Customer Credit Transfer Initiation – pain.001.001.03

US ABA
<?xml version="1.0" encoding="utf-8" ?>
xsi:schemaLocation="urn:oasis:names:TC:pei:v1:Adrrels:xsd:xsd:pain.001.001.03 C:\pain.001.001.03.xsd">
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    <GrpHdr>
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      <CreDtTm>2011-03-11T14:54:46</CreDtTm>
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    </GrpHdr>
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      <PmtMdt>TRF</PmtMdt>
      <NbOfTxs>2</NbOfTxs>
      <SvcLvl>
        <Cd>NURG</Cd>
      </SvcLvl>
      <LclInstrm>
        <Cd>CTX</Cd>
      </LclInstrm>
      <ReqdExctnDt>2011-03-14</ReqdExctnDt>
    </PmtInf>
  </CstmrCdtTrfInitn>
</Document>
Sample US ACH CTX

- <Dbtr>
  - <Nm>DEBTOR NAME 1</Nm>
  - <PstlAdr>
    - <StrtNm>STREET NAME 1</StrtNm>
    - <PstCd>55391</PstCd>
    - <TwnNm>MN</TwnNm>
    - <Ctry_SUBDvsn>MN</Ctry_SUBDvsn>
    - <Ctry>US</Ctry>
  </PstlAdr>
  - <Id>
    - <OrgId>
      - <Othr>
        - <Id>3333333333</Id>
        - <SchmeNm>
          - <Cd>CHID</Cd>
        </SchmeNm>
      </Othr>
    </OrgId>
  </Id>
  - <CtryOfRes>US</CtryOfRes>
</Dbtr>

- <DbtrAcct>
  - <Id>
    - <Othr>
      - <Id>9999999999</Id>
    </Othr>
  </Id>
  - <Ccy>USD</Ccy>
</DbtrAcct>

- <DbtrAgt>
  - <FinInstnId>
    - <ChrgBr>88888888</ChrgBr>
    - <ClkdGnhdInd></ClkdGnhdInd>
  </FinInstnId>
  - <PstlAdr>
    - <Ctry>US</Ctry>
  </PstlAdr>
- <CdtTrfTxInf>
  - <PmtId>
    - <EndToEndId>2000016376.1001</EndToEndId>
  </PmtId>
  - <Amt>
    - <InstdAmt Ccy="USD">9060.76</InstdAmt>
  </Amt>
  - <CdrAgt>
    - <FinInstnId>
      - <ChrgBr>77777777</ChrgBr>
    </FinInstnId>
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      - <Ctry>US</Ctry>
    </PstlAdr>
  </CdrAgt>
  - <Cdtr>
    - <Nm>CREDITOR NAME 1</Nm>
    - <PstlAdr>
      - <StrtNm>CRDTR STREET NAME 1</StrtNm>
      - <PstCd>606930001</PstCd>
      - <TwnNm>CHICAGO</TwnNm>
      - <CtrySUBDvsn>IL</CtrySUBDvsn>
      - <Ctry>US</Ctry>
    </PstlAdr>
    - <CtryOfRes>US</CtryOfRes>
  </Cdtr>

- <CdtrAcct>
  - <Id>
    - <Othr>
      - <Id>9999999999</Id>
    </Othr>
    - <Tp>CASH</Tp>
  </Id>
</CdtrAcct>
<RmtInf>
  - <Strd>
    - <RfrdDocInf>
      - <Tp>
        - <CdOrPrtry>
          - <Cd>CINV</Cd>
        </CdOrPrtry>
      </Tp>
      <Nb>6911720</Nb>
      <RltDt>2010-10-12</RltDt>
    </RfrdDocInf>
    - <RfrdDocAmt>
      <DuePyblAmt Ccy="USD">2901.53</DuePyblAmt>
      <DscntApIdAmt Ccy="USD">0</DscntApIdAmt>
      <RmtDamt Ccy="USD">2901.53</RmtDamt>
    </RfrdDocAmt>
  </Strd>
  - <Strd>
    - <RfrdDocInf>
      - <Tp>
        - <CdOrPrtry>
          - <Cd>CINV</Cd>
        </CdOrPrtry>
      </Tp>
      <Nb>6888806</Nb>
      <RltDt>2010-09-29</RltDt>
    </RfrdDocInf>
    - <RfrdDocAmt>
      <DuePyblAmt Ccy="USD">777.63</DuePyblAmt>
      <DscntApIdAmt Ccy="USD">0</DscntApIdAmt>
      <RmtDamt Ccy="USD">777.63</RmtDamt>
    </RfrdDocAmt>
  </Strd>
  + <Strd>
  + <Strd>
  + <Strd>
  + <RmtInf>
    <CdtTrfTxInf>
    + <CdtTrfTxInf>
    <PmtInf>
    </CstmrCdtTrfInitn>
  </Document>
Sample US Wire
Group Header

Unique Id for Message/File

Message/File creation Date/Time

Number of Transactions

Hash Total

Sender Identification
PmtInf – Debit Side of Transaction

- **PmtInfId**: Batch Number
- **PmtMtd**: Payment Type Information
  - TRF = Electronic Transaction
  - CHK = Cheque/Draft
- **BtchBookg**: true = Consolidated Posting
  - false = Single Posting
- **NbOfTxs**: Number of Transactions
- **CtrlSum**: Hash Total
- **PmtTplInf**: Payment Type Information

**Diagram:**
- PmtInf
  - PmtInfId
  - PmtMtd
    - BtchBookg
    - NbOfTxs
  - CtrlSum
  - PmtTplInf
  - Dbtr
  - DbtrAcct

**Notes:**
- PmtInfId
- PmtMtd
- BtchBookg
- NbOfTxs
- CtrlSum
- PmtTplInf
- Dbtr
- DbtrAcct
Payment Type Information

- ACH/Low Value
- Wire/High Value
- CHIPS
- Book Transfer
- SEPA
- CCD
- PPD
- CTX
- IAT

Urgent
Normal

HIGH
NORM

NURG
URGP
URNS
BKTR
SEPA

IntrPrty
SvcLvl
Prtry
LclInstrm
LclInstrm
Prtry
Cd
Cd
CtgyPurp
Prtry

ServiceLevel8Choice
LocalInstrument2Choice
CategoryPurpose1Choice
PmtInf – Debit Side of Transaction

- **Batch Number**
- **PmtInfId**
- **PmtMtd**
  - **TRF** = Electronic Transaction
  - **CHK** = Cheque/Draft
- **BtchBookg**
  - **true** = Consolidated Posting
  - **false** = Single Posting
- **NbOfTxs**
- **CtrlSum**
- **PmtTpInf**
  - **Payment Type and Method**
- **PoolgAdjstmntDt**
- **Dbtr**
- **DbtrAcct**
- **ReqdExctnDt**
- **Effective Date**
- **Debtor/Originator**
- **Originator/Debit Account**
- **Number of Transactions**
  - **Hash Total**
  - **Payment Type and Method**
  - **Effective Date**
  - **Debtor/Originator**
  - **Originator/Debit Account**
PmtInf – Debit Side of Transaction

Originating Bank/FI

Ultimate Debtor
Pay On Behalf Of

$DEBT = Debitor$
$CRED = Creditor$
$SHAR = Shared$
$SLEV = Service Level - SEPA$

Credit Transactions
## Credit Transfer Information – Credit Side of Transaction

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PmtId</strong></td>
<td>ID of the payment</td>
</tr>
<tr>
<td><strong>PmtTpltInf</strong></td>
<td>Payment template information</td>
</tr>
<tr>
<td><strong>Amt</strong></td>
<td>Amount of the payment</td>
</tr>
<tr>
<td><strong>XchgRateInf</strong></td>
<td>Exchange rate information</td>
</tr>
<tr>
<td><strong>ChrgBr</strong></td>
<td>Charge brokerage information</td>
</tr>
<tr>
<td><strong>ChqInstr</strong></td>
<td>Check instruction information</td>
</tr>
<tr>
<td><strong>UltmtDbltr</strong></td>
<td>Ultimate debtor information</td>
</tr>
<tr>
<td><strong>IntrmyAgt1</strong></td>
<td>Intermediate agent 1 information</td>
</tr>
<tr>
<td><strong>IntrmyAgt1Acct</strong></td>
<td>Account of intermediate agent 1</td>
</tr>
<tr>
<td><strong>IntrmyAgt2</strong></td>
<td>Intermediate agent 2 information</td>
</tr>
<tr>
<td><strong>IntrmyAgt2Acct</strong></td>
<td>Account of intermediate agent 2</td>
</tr>
<tr>
<td><strong>IntrmyAgt3</strong></td>
<td>Intermediate agent 3 information</td>
</tr>
<tr>
<td><strong>IntrmyAgt3Acct</strong></td>
<td>Account of intermediate agent 3</td>
</tr>
<tr>
<td><strong>CdtTrfTxFn</strong></td>
<td>Credit transfer transaction information</td>
</tr>
<tr>
<td><strong>CdtTrfAgt</strong></td>
<td>Credit transfer agent</td>
</tr>
</tbody>
</table>

**Originator Payment Reference**

- **InstId**: Identification of the instruction
- **EndToEndId**: End-to-end identification

**Payment Type and Method**

- **Value and currency of payment; fixed credit**
  - **InstDmt**: Instruction amount
  - **EqvtDmt**: Equivalent amount

- **Value and currency of payment; fixed debit**
  - **InstDmt**: Instruction amount
  - **EqvtDmt**: Equivalent amount
Credit Transfer Information – Credit Side of Transaction

\[\text{DEBT} = \text{Debtor}\]
\[\text{CRED} = \text{Creditor}\]
\[\text{SHAR} = \text{Shared}\]
\[\text{SLEV} = \text{Service Level - SEPA}\]

Check/Cheque Outsourcing
Cheque/Draft Instructions

- \textit{DRFT} = Draft
- \textit{BCHQ} = Bank Cheque
- \textit{CCHQ} = Corporate Cheque

Addresses to print on cheque if different from Debtor and Creditor

- \textit{MLCB} = RM Mail to Creditor
- \textit{MLDB} = RM Mail to Debtor
- \textit{CRDB} = CD Courier to Debtor
- \textit{RCRD} = RD Courier to Creditor
- \textit{PUDB} = HD Pickup by Debtor HOLD

Memo printed on cheque

Forms Code

Print Location

65
Credit Transfer Information – Credit Side of Transaction

- **DEBT** = Debtor
- **CRED** = Creditor
- **SHAR** = Shared
- **SLEV** = Service Level - SEPA

Check/Cheque Outsourcing

Intermediary Bank

Beneficiary Bank
Credit Transfer Information – Credit Side of Transaction

Creditor/Beneficiary

Beneficiary Account

Receive on Behalf Of

Notes to Beneficiary Bank

Notes to Originating Bank

Reason for Payment

BECH = Child Benefit
PAYR = Payroll
PENS = Pension
SUPP = Vendor Payment
TAXS = Tax
Credit Transfer Information – Credit Side of Transaction

**Credit Transfer Information**

- Credit Side of Transaction
- Regulatory Reporting
  - Remittance Id - URI
  - Fax Number
  - Email Address
- Tax Payment Details
- Split Remittance
  - POST = Mail Remittance
  - EDIC = EDI Remittance
  - FAXI = Fax
  - URID = Posting at URL
  - EMAL = Email Remittance
  - SMSM = Phone SMS Remittance
- Remittance Information
Payment Status Report
pain.002.001.03
Payment Status Report – pain.002.001.03

**Scope**
- Sent by a debtor’s or creditor’s agent to an initiating party of the payment
- Used to inform party about positive or negative status of an instruction

**Main Usage**
- Response to the customer credit transfer or direct debit initiation prior to sending transaction to clearing
- Single or multiple instances

**Key Features**
- Group, batch and single transaction status
- Accepted, settlement in process/completed
- Accepted with change (i.e. repair done by agent)
- Rejected
- Pending
- Ability to support transparency during the processing of the transaction
- Uses references (and optional additional data elements) to refer to original instruction
Payment Status Report Flow

1. RJCT: Payment or Transaction Rejected
2. ACCP: Accepted (After technical and profile checks)
3. ACWC: Accepted with Change
4. PART: Partial Acceptance: File or Payment level
5. PDNG: Pending
6. ACSP: Accepted back office, including any additional profile checks and passed to clearing.

Notes:
The second workflow considers payment and transaction level reporting.
Where transaction level validation is performed by the receiving bank, an appropriate code will be selected based on the level of processing undertaken.
Where a bank supports a transaction level acknowledgement, you may receive more than one, as the bank may generate a status update based on the various stages of internal processing. In terms of the workflow, ACSP will be the final status code before a transaction is physically posted to a bank statement.
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:pain.002.001.03">
Payment Status Report – pain.002.001.03

**Sender/Receiver Identification**

- **BANK** = Sender of PSR
- **CUST** = Recipient of PSR

**Codes defined by ISO 20022**

- pain.001.001.03
- pain.008.001.02

**Status of entire message**

**Textual information regarding reason for rejection**
Payment Status Report – pain.002.001.03

Status of PmtInf occurrence

Codes defined by ISO 20022

Textual information regarding reason for rejection
Payment Status Report – pain.002.001.03

- **Payment/Transaction Reference**
- **Status of transaction**

Codes defined by ISO 20022

Textual information regarding reason for rejection

Clearing System Reference, i.e., FedRef #
All tags optional depending upon acknowledgement processes
<xml version="1.0" encoding="UTF-8" >
  <MsgHdr>
    <MsgId>7727370001000000579</MsgId>
    <CreDtTm>2010-11-10T03:20:31</CreDtTm>
  </MsgHdr>
  <InitgPty>
    <Id></Id>
  </InitgPty>
  <GrpHdr>
    <OrgnlGrpInfAndSts>
      <OrgnlMsgId>MSGERRT07</OrgnlMsgId>
      <OrgnlMsgNmId>pain.001.001.03</OrgnlMsgNmId>
      <OrgnlNbOfTxs>6</OrgnlNbOfTxs>
      <OrgnlCtrlSum>-418.03</OrgnlCtrlSum>
      <GrpSts>PART</GrpSts>
      <NbOfTxsPerSts>
        <DtdNbOfTxs>5</DtdNbOfTxs>
        <DeltDtsts>ACCC</DeltDtsts>
        <DtdCtrlSum>515.01</DtdCtrlSum>
      </NbOfTxsPerSts>
      <NbOfTxsPerSts>
        <DtdNbOfTxs>0</DtdNbOfTxs>
        <DeltDtsts>ACCW</DeltDtsts>
        <DtdCtrlSum>-0.00</DtdCtrlSum>
      </NbOfTxsPerSts>
      <NbOfTxsPerSts>
        <DtdNbOfTxs>1</DtdNbOfTxs>
        <DeltDtsts>RJCT</DeltDtsts>
        <DtdCtrlSum>103.02</DtdCtrlSum>
      </NbOfTxsPerSts>
    </OrgnlGrpInfAndSts>
    <OrgnlPmtInfAndSts>
    </OrgnlPmtInfAndSts>
  </GrpHdr>
</Document>
Sample Payment Status Report

- <OrgnIpmtInfAndSts>
  - <OrgnIpmtInfId>PMTINFO0703</OrgnIpmtInfId>
- <TxInfAndSts>
  - <OrgnlInstrId>INS07031</OrgnlInstrId>
  - <OrgnlEndToEndId>ETE07031</OrgnlEndToEndId>
  - <TxSts>AWC</TxSts>
- <StsRsnInf>
  - <Rsn>
    - <Cd>NARR</Cd>
    <Rsn>
      <AddtlInf>PAYMENT ACCEPTED W/MODIFIED DATA</AddtlInf>
      <AddtlInf>EED IS LESS THAN CURRENT DATE WILL BE CHANGED</AddtlInf>
      <AddtlInf>20090608</AddtlInf>
      <AddtlInf>This tag is in error // PmtInf/ReqdExctnDt</AddtlInf>
      <AddtlInf>Tag contents 2009-06-08</AddtlInf>
    </Rsn>
  </StsRsnInf>
- <OrgnlTxAmtRef>
  - <InstdAmt Ccy="CNY">103.01</InstdAmt>
  - <ReqdExctnDt>2009-06-08</ReqdExctnDt>
- <Dbtr>
  - <Nm>Tran 3 CN II</Nm>
- <DbtrAcct>
  - <Id>
    - <Othr:
      - <Id>34567890</Id>
    </Othr>
  </Id>
- <DbtrAgt>
  - <FinInstnId>
    - <Othr:
      - <Id>6841</Id>
    </Othr>
  </FinInstnId>
- <CdtRcptInf>
  - <Cdtr>
    - <Nm>梅奔延期通信元件有限公司</Nm>
  </Cdtr>
- <CdtrAcct>
  - <Id>
    - <Othr:
      - <Id>345678901234</Id>
    </Othr>
  </Id>
</OrgnlTxAmtRef>
</TxInfAndSts>
Sample Payment Status Report

- <TxInfAndSts>
  - <OrgnlInstrId>INS07032</OrgnlInstrId>
  - <OrgnlEndToEndId>ETED07032</OrgnlEndToEndId>
  - <TxnSts>ROCT</TxnSts>
  - <StsRsnInfr>
    - <Rsn>
      - <Cd>FF02</Cd>
    </Rsn>
  </StsRsnInfr>
</TxInfAndSts>
Group Header

- **Unique Id for Message/File**
- **Message/File creation Date/Time**
- **Sender/Receiver Identification**

**GrpHdr**

- **MsgId**
- **CreDtNm**
- **InitgPty**
- **FwgdAgt**
- **DbtrAgt**
- **CdtrAgt**

**BIC or BEI**

**GenericOrganisationIdentification1**

**OrganisationIdentificationScheme1**

**Cd**

**Prtry**

*BANK* = Sender of PSR

*CUST* = Recipient of PSR
OrgnlGrpInfAndSts - Original Group Information and Status

Message Id from inbound message
- pain.001.001.XX
- pain.008.001.XX

Original number of transactions in inbound messages

Total amount of inbound message

ACTC = Group Accepted Technical Validation
ACCP = Group Accepted Customer Profile
ACWC = Group Accepted with change
RJCT = Rejected
PART = Group Partially Accepted
PDNG = Pending
OrgnlGrpInfAndSts - Original Group Information and Status

Codes defined by ISO 20022

Textual information regarding reason for rejection

Number of transactions

Accepted or Rejected Status codes

Sum of amount of transactions
OrgnlPmtInfAndSts – Original Payment Information and Status

Payment Information Id from original inbound message

Transaction Information and Status
TxInfAndSts – Transaction Information and Status

Instruction Id from original inbound message

EndToEndId from original inbound message

ACTC = Transaction Accepted
ACWC = Transaction Accepted with change
ASCP = Secondary Transaction Accepted
RJCT = Rejected

Codes defined by ISO 20022

Textual information regarding reason for rejection
Sample Transaction Status

- <OrgnlPmtInfAndSts>
  - <OrgnlPmtInfId>PMTID2</OrgnlPmtInfId>
  - <TxInfAndSts>
    - <OrgnlEndToEndId>33375</OrgnlEndToEndId>
    - <TxSts>ACCP</TxSts>
    + <OrgnlTnxRef>
      - <OrgnlTnxRef>
      </OrgnlTnxRef>
    </OrgnlEndToEndId>
  </OrgnlPmtInfAndSts>

- <OrgnlEndToEndId>33400</OrgnlEndToEndId>
  <TxSts>ACSP</TxSts>
  <AcctSvcrRef>201111070163946</AcctSvcrRef>
  <ClrSysRef>20111107B6B7HU4R005270</ClrSysRef>
  + <OrgnlTnxRef>
  </OrgnlTnxRef>
</OrgnlEndToEndId>

- <OrgnlInstrId>INS07032</OrgnlInstrId>
  <OrgnlEndToEndId>ETE07032</OrgnlEndToEndId>
  <TxSts>RJCT</TxSts>
- <SttsRsnInf>
  - <Rsn>
    - <Cd>FF02</Cd>
    <AddtlInf>cvc-maxLength: Value '俺技路艺通电元素有限公司 俺技路艺通电元素有限公司 俺技路艺通电元素有限公司 俺技路艺通电元素有限公司' of element 'Nm' is not facet-valid with respect to maxLength</AddtlInf>
    <AddtlInf>cvc-type.3.1.3: The value '俺技路艺通电元素有限公司 俺技路艺通电元素有限公司 俺技路艺通电元素有限公司 俺技路艺通电元素有限公司' of element 'Nm' is not valid. AddtlInf</AddtlInf>
    <AddtlInf>This tag is in error /Document/CstmrCdtTrfInitn/PmtInf/CdtTrfTxInf/CdtrAcct/Nm</AddtlInf>
  </Rsn>
  </SttsRsnInf>
</OrgnlEndToEndId>

- <OrgnlPmtInfAndSts>
  - <OrgnlPmtInId>PMTID32</OrgnlPmtInId>
  - <TxInfAndSts>
    - <OrgnlEndToEndId>34914</OrgnlEndToEndId>
    - <TxSts>ACCP</TxSts>
    + <OrgnlTnxRef>
  </OrgnlEndToEndId>
</OrgnlPmtInfAndSts>
OrgnlTxRef – Original Transaction References

- Amount of Transaction
- Date from original credit transfer
- Date from original direct debit
- Creditor Reference
OrgnlTxRef – Original Transaction References

Name of Debtor

Account of Debtor

Name of Creditor

Creditor Agent

Account of Creditor
Customer Direct Debit Initiation
pain.008.001.02
Customer Direct Debit Initiation – pain.008.001.02

Scope
- Sent by an initiating party to the forwarding agent or creditor's agent
- Used to request collection of funds from one or various debtor's account(s) to a creditor

Main Usage
- Domestic and cross-border direct debits
- SEPA Direct debits
- Fed wire drawdowns
- Single or multiple instances

Key Features
- Payment type identification
- Batch or single entry indication
- Identification of all customer parties
- Dedicated references
- Mandate related information
- Remittance information: structured or unstructured
<Document xmlns="urn:iso:std:iso:20022:tech:xsd:pain.008.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:pain.008.001.02"/>
Customer Direct Debit Initiation – pain.008.001.02

- Requested Collection Date
- Creditor Related
- Creditor Scheme Id
- Direct Debit Transaction Information
Customer Direct Debit Initiation – pain.008.001.02
Differences from pain.001.001.03

- **Account**
  - Creditor Account *CdtrAcct*
  - Debtor Account *DbtrAcct*
  - Debtor Agent Account *DbtrAgtAcct*
  - Charges Account *ChrgsAcct*
  - Creditor Agent Account *CdtrAgtAcct*

- **Agent**
  - Forwarding Agent *FwdgAgt*
  - Creditor Agent *CdtrAgt*
  - Debtor Agent *DbtrAgt*
  - Charges Account Agent *ChrgsAcctAgt*

- **Amount**
  - Only *InstdAmt*

- **Payment Method**
  - Only *DD*
Payment Type Information

- **InstrPrty**
  - **ServiceLevelChoice**
    - **SvcLvl**
    - **Prtry**
  - **LocalInstrument2Choice**
    - **LclInstrm**
    - **Prtry**
  - **SeqTp**
  - **CategoryPurpose1Choice**
    - **CtgyPurp**
    - **Prtry**

**Direct Debit Type**
- **OOFF**
- **RCUR**
- **FRST**
- **FNAL**

**ACH/Low Value**
- **NURG**

**Wire/High Value**
- **URGP**

**CHIPS**
- **URNS**

**SEPA**
- **SEPA**

**CCD**
- **PPD**
- **CTX**
- **B2B**
- **CORE**
Direct Debit Transaction Information – Debit Side

- Mandate Identification
- Date of Signature
- Amendment Indicator
- Amendment Details
Amendment Details

Information associated with original Mandate
Direct Debit Transaction Information – Debit Side

- Mandate Identification
- Date of Signature
- Amendment Indicator
- Amendment Details
- Frequency of Direct Debit
  - Annual  YEAR
  - Monthly  MNTH
  - Quarterly QURT
  - SemiAnnual MIAN
  - Weekly  WEEK
  - Daily  DAIL
  - Adhoc  ADHO
  - IntraDay INDA
Sample Direct Debit

  - <CstmrDrctDbtInInitn>
    + <GrpHdr>
      - <PmtInf>
        <PmtInfId>1085_1</PmtInfId>
        <PmtMtd>DD</PmtMtd>
        <BtchBookg>false</BtchBookg>
        <NbOfTxs>1</NbOfTxs>
        <CtrlSum>162.38</CtrlSum>
      - <PmtTpInf>
        - <SvcLvl>
          <Cd>SEPA</Cd>
        </SvcLvl>
        - <LclInstrm>
          <Cd>CORE</Cd>
        </LclInstrm>
        <SeqTp>FRST</SeqTp>
      + <CtgyPurp>
      </PmtTpInf>
    </GrpHdr>
    <ReqdColltnDt>2005-04-16</ReqdColltnDt>
    + <Cdtr>
      - <CdtrAcct>
        - <Id>
          <IBAN>FR4812345678901234567890123</IBAN>
        </Id>
        <Ccy>EUR</Ccy>
      </CdtrAcct>
    - <CdtrAgt>
      - <FinInstnId>
        <BIC>BOFAFRPP</BIC>
      </FinInstnId>
      </CdtrAgt>
    <ChrgBr>SLEV</ChrgBr>
  </CstmrDrctDbtInInitn>
</Document>
Bank to Customer
Cash Management Messages
camt.052.001.02, camt.053.001.02
and camt.054.001.02
Bank to Customer Account Report – camt.052.001.02

Scope
- Sent by account servicer to account owner
- Used to inform about entries and/or balance information at a given point in time

Main Usage
- Intra-day (pending and booked) credit or debit transaction sand balance information
- Covers the functionality of MT 941/942 or BAI2/BTRS Current day reporting
- Direct or relay mode

Key Features
- Structured elements for references, transaction details, all relevant parties, entry amount
- Transaction identification by harmonized Bank Transaction Code or domestic codes
- Allows inclusion of transaction details of batch booking
Receiver Identification

/INTR/= IntraDay Report
Bank to Customer Account Report – camt.052.001.02

- **CLAV** Closing Available – BAI 045
- **CLBD** Closing Booked – BAI 015
- **DOPA** Disbursement Opening Available – BAI 044
- **FWAV** Forward Available – BAI 914, 916, 917, 918, 919
- **ITAV** Interim Available – BAI 060
- **ITBD** Interim Booked – BAI 030
- **OPAV** Opening Available – BAI 040
- **OPBD** Opening Booked – BAI 010
Bank to Customer Account Report – camt.052.001.02

Status of Entry
- BOOK
- PDNG
- INFO
- PDR

ISO 20022 BTC and/or BAI/BTRS Code

Entry on Account
References provided if available

- Account Servicer Reference
- Payment Info Id
- Instruction Id
- End to End Id (Payment Reference)
- Cheque Number
- Clearing System Reference
- Proprietary Reference
Bank to Customer Statement– camt.053.001.02

Scope
- Sent by account servicer to account owner
- Used to inform about entries and/or balance information booked at a given point in time

Main Usage
- End of day booked credit or debit transactions and balance information
- Covers the functionality of the MT940 or BAI2/BTRS Previous day reporting
- Used for binding, legally required statements
- Direct or relay mode

Key Features
- Structured elements for references, transaction details, all relevant parties, entry amount
- Transaction identification by harmonized Bank Transaction Code or domestic codes
- Allows inclusion of transaction details of batch booking
**camt.052 vs camt.053**

**camt.052**

- **Msgld**
- **CreDtTm**
- **MsgRcpt**
- **MsgPgntn**
- **AddtlInf**

**camt.053**

- **Msgld**
- **CreDtTm**
- **MsgRcpt**
- **MsgPgntn**
- **AddtlInf**

**/INTR/** for Intraday Statement.

**/EODY/** for End of Day - Daily Statement.
camt.052 vs camt.053
Bank to Customer Debit/Credit Notification – camt.054.001.02

**Scope**
- Sent by account servicer to account owner
- Used to inform about debit or credit transactional details

**Main Usage**
- Flexible ‘service’ message
- Report on all cash movements
- Covers the functionality of the MT900/910, receivables reporting, returns

**Key Features**
- Structured elements for references, transaction details, all relevant parties, entry amount
- Transaction identification by harmonized Bank Transaction Code or domestic codes
- Allows inclusion of transaction details of batch booking and lockbox reporting
<table>
<thead>
<tr>
<th>CAMT.052</th>
<th>CAMT.053</th>
<th>CAMT.054</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Account info</strong></td>
<td><strong>Mandatory</strong></td>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td><strong>Balance info</strong></td>
<td><strong>Optional</strong></td>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td><strong>Interest Rate info</strong></td>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
</tr>
<tr>
<td><strong>Transaction summary</strong></td>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
</tr>
<tr>
<td><strong>Entry info</strong></td>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
</tr>
<tr>
<td>• Booked entries</td>
<td>[ ][ ][ ]</td>
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</tr>
<tr>
<td>• Pending entries</td>
<td>[ ][ ][ ]</td>
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</tr>
<tr>
<td>• Underlying transaction details</td>
<td>[ ][ ][ ]</td>
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</tr>
</tbody>
</table>
In Addition
Related Standards Developments
ISO 20022

ISO20022

• Remittances
  • A set of standards for person to person payments
• eBAM-electronic Bank Account Management
  • A set of message standards corporates can use to instruct their banks to open accounts, add authorized signers, other account management functions.
• BSB – Bank Services Billing Standard
  • Comparable to x12’s 822, BSB is an electronic billing statement for international bank services fees.
• E&I – Exceptions and Investigations
  • Supports inquiries and investigations of payment transactions.

X9 BTRS

• Successor to BAI Version 2. US account reporting and transaction advising.

CGI

• An ISO20022 variant designed to address bank network communications across banks, borders, and transaction types.
Summary & Key Learnings

- Use of standards yield tangible benefits to their users: A common “language” makes you part of a larger experience yielding shared results, consistency, and scale.
- ISO20022 is:
  - Designed to provide harmonized communications for payments, and across the financial services domain.
  - Payment messages are seeing increasing adoption for domestic and cross border payment operations:
    - Corporations, banks, payment system operators
    - Support from technology firms (ERP applications, treasury management systems, etc.), many others
  - The US is deeply involved in the development and application of the standard.
  - ISO20022 message specifications
    - Use XML (currently) as the current syntax.
    - Are quite granular to reflect the evolution and increasing sophistication of the payments industry as well as its diversity of market practice.
Resources

ISO and Related
• ISO 20022  www.iso20022.org  ISO20022 standards committee
• ISO  www.iso.org  International Standards Organization
• CGI  http://www.swift.com/corporates/cgi/index  Common Global Implementation

ISO Members
• ASCX9  www.x9.org  US national financial standards
• SWIFT  www.swift.com  Global financial industry association

Others
• NACHA  www.nacha.org  US ACH
• X12  www.x12.org  US national EDI standards
Resources

• ISO20022 – ISO20022.org
  – Message specifications
  – Message definition report
  – External code lists
  – ISO20022 for Dummies

• CGI – SWIFT.com
  – Message implementation guides including country and pay type specifics
  – Change request process and forms
  – Information on governance, membership

• SWIFT - MyStandards – SWIFT.com
Biographies

Robert J. Blair - Managing Director, JPMorgan Treasury Services, Client Access
• Product Management Executive responsible for JPMorgan Treasury Service’s global SWIFT channel. In this role, Bob is active in industry forums including ASC x9, CGI, SWIFT where he is a member of the Corporate Advisory Group as well ISO (the International Standards Organization) where he is vice convenor of the ISO20022 RMG and the ISO20022 Payment SEG.

Susan K. Colles - CPA, CGMA - Director, Bank of America Merrill Lynch, Global Standards Head
• Director, Global Standards Head, within the Integrated Channel Solutions team, a division of Bank of America Merrill Lynch Global Product & Channel Solutions. Ms. Colles focuses on Enterprise Resource Planning (ERP) integration and XML standards, supporting both strategic and tactical electronic commerce efforts across many levels in the organization. Ms. Colles is the convenor of the ISO 20022 Payments SEG and is active in the leadership of the CGI industry initiative. She also participates in various other standards organizations, including X9.

James Wills, Business Manager, Standards, SWIFT
• Senior business manager and market/standards representative for the North American Market as part of the Banking Initiatives Team for SWIFT Americas. Based in New York, Mr. Wills works closely with a variety of standards-setting bodies, trade associations and member communities on standardization issues in financial market areas including compliance, payments, cash management, and trade finance.
Session Description

Presentations

• As a reminder, all presentations are due to presentations@nacha.org no later than March 22. There is a slide on the speaker resource page for your use should your presentation contain proprietary information that you do not wish to make available to attendees prior to the conference. If there are multiple speakers on your session please combine all materials into one powerpoint prior to sending.

• Speakers are responsible for bringing their own laptops for use during sessions.

Session Information:

• Title: Understanding ISO 20022
• Track: Pre-Conference Workshops
• Description: Speakers examine the ISO 20022 standard, explain the data contained in a credit transfer message, and why it is important to understand the standard. They explore the ISO 20022 message structure, data content, and message composition, and compare it to the ACH Record Format. Speakers also discuss the use of ISO 20022 for SEPA credit transfer, explore common global implementation for U.S. and international payment activity, and look at the alignment of remittance information standards for 820 STP, Fedwire ERI and ISO. Attendees also learn about the adoption of ISO 20022 messages inside and outside the U.S.

• Date: 04/21/2013
• Start Time: 3:30 pm
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