



International Standards  
Organization (ISO) 20022  
Message Training

# Executive Summary – Background on ISO

## Purpose

In an effort to expand ISO knowledge, we will be providing training on what ISO messaging is, how it works, and how it will impact the treasury space.

## Who?

Corporate clients have an expectation that their financial institution should be in a position to support their ISO Messaging requirements as it relates to the Treasury workstation and ERP platforms.

## What?

- Founded in 1947, International Standards Organization (ISO) is an organization that promotes worldwide proprietary, industrial, and commercial standards. It is headquartered in Geneva, Switzerland, and works in 164 countries. Composed of representatives of various national standards organizations.
- Standardization can help maximize compatibility, interoperability, safety, repeatability, or quality.
- Comparable to the American National Standards Institute (ANSI)

## Why?

As requests for ISO files continues to increase, understanding ISO messaging helps us improve the overall client experience and provides a smoother transition to implementation.

# Agenda

What is ISO?

Who is Asking for ISO now

ISO 2022 Standards and Connectivity

Scope of Truist ISO Capabilities

What Makes ISO So Great

Advantage of ISO 2022

Client are Asking their Banking Partners

What we can tell our clients about ISO 2022

Appendix

# What is ISO?

- Governance structure
- A data **dictionary** (repository)
- Provides rules for how to develop messages and documentation – ***adapting, allows for growth***
- Describes messages, elements and characteristics
- Contains descriptions of business processes
- Provides vehicle to use data elements and message definitions in the same way...same meaning, **less translation and mapping....**
- The common **standards** platform for the **financial industry**

# ERP & Treasury Work Stations

## ERP Systems



PAIN



PAIN



PAIN



PAIN

## Treasury Workstations



PAIN, CAMT



PAIN



PAIN

# ISO 20022 Standards

## ISO Today

23,499

International Standards covering almost all aspects of technology and manufacturing.

165

Members representing ISO in their country.  
There is only one member per country.

792

Technical committees and subcommittees to take care of standards development.

## Search inside our catalogue

Search by message identifier, business area ...

693 Messages

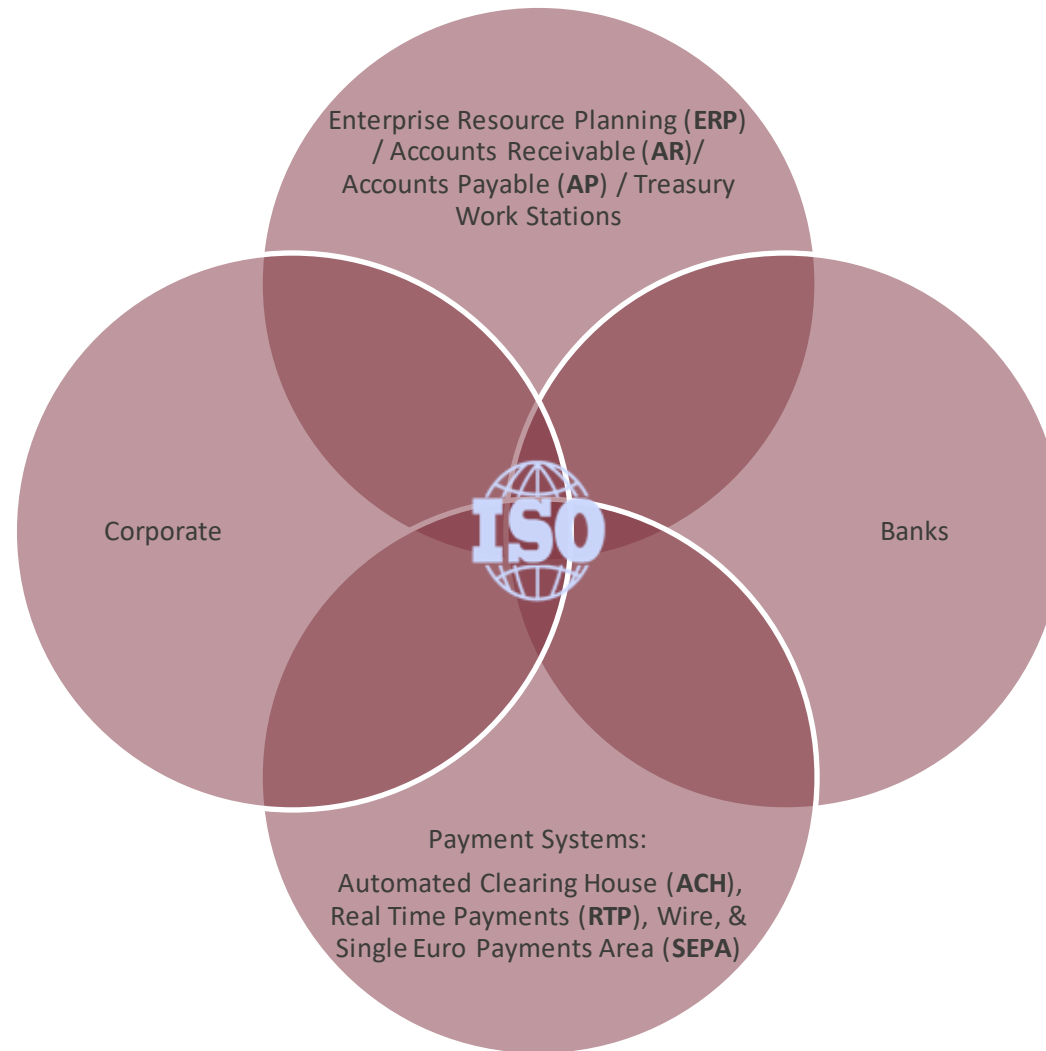
### Messages

Showing 1 - 500 of 693 Messages

- acmt Account Management
- admi Administration
- auth Authorities
- caaa Acceptor to Acquirer Card Transactions

Message ID (scheme)	Message name	Submitting
pain.001.001.10	CustomerCreditTransferInitiationV10	ISTH
pain.002.001.11	CustomerPaymentStatusReportV11	ISTH
camt.052.001.08	BankToCustomerAccountReportV08	ISTH
camt.053.001.08	BankToCustomerStatementV08	ISTH
camt.054.001.08	BankToCustomerDebitCreditNotificationV08	ISTH
camt.055.001.09	CustomerPaymentCancellationRequestV09	SWIFT
camt.056.001.09	FIToFIPaymentCancellationRequestV09	SWIFT

# ISO 20022 Connectivity



# Scope of Truist ISO Capabilities

## Reporting

North  
America



Europe



Asia



- Prior Day Reporting (camt.053)
- Payment Acknowledgement (pain.002)
- Bank Services Billing (camt.086)
  - In progress

## Payments

- pain.001.01
  - ACH (CTX, CCD, CCD+)
  - Fedwire
  - Checks
  - Account Transfers
  - FX Currency



# pain & camt Messages

Standards for electronic data interchange for financial institutions and treasury clients

## pain

## camt

### Message Purpose

- Payment initiation
- Make an ACH, wire, check, FasterPayments, etc.

- Information Reporting
  - Previous day reporting (camt.053)
  - Current day reporting (camt.052)
  - Credit (lockbox, ach, wire) receipts (camt.054)

### Message Type Replaces...

- Sending comingled ISO 20022 files, instead of one RLO/file containing multi payment types:
  - EDI 820 in U.S. (middle ware required, not native within ERPs)
  - SWIFT (MT) in Europe, world-wide
  - Other formats (e.g. CSV, IDoc, bank proprietary)

- Consolidating information reporting into a uniform standard
  - Replacing CSV, BAI2, MT940, MT942, & other proprietary formats

# Payment Types using ISO Format

## U.S. Wire Payment Systems

- Support PAIN today.
- Required for all FI Target date is 2023–25

## U.S. ACH Network

- ISO 2022 in CTX (remt.001 and remt.002), opt-in \*
- NACHA mapping guides

## Real-Time Payments (RTP) System

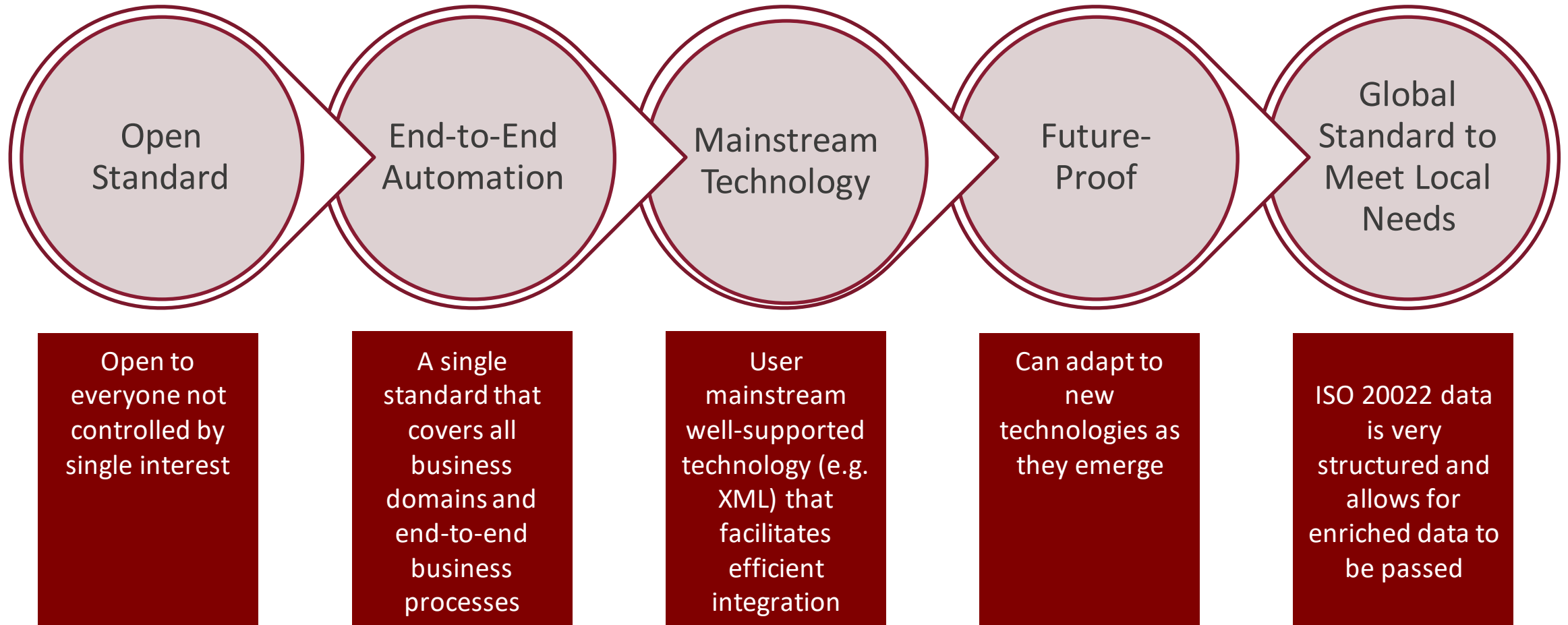
- Utilizes ISO 2022 formats and messaging
- Request for Payment (ISO 2022 messages), confirmations...
- Truist was an early adopter; therefore, the market will be catching up to us. The percentage of Domestic accounts are at an RTP enabled bank is approximately 59%

**Note:** new file formats, all Rails will use/support ISO file formats. ISO formats will replace Swift MT as standard message types (limited to 2000 characters; therefore one BAI file = multiple MT message); all “rails” continue: Fed, TCH, EPN, SWIFT

# What Makes ISO So Great

- A **formal business model** for the financial services industry, which can be used as a reference for many different purposes.
- A method to develop **well-structured financial messages**, as described in the previous section.
- A **way to unify** the many existing standards
- Use of ISO 20022 is really catching on. Large financial infrastructures and user groups have committed to using ISO 20022 in payments and securities settlement domains, and it has already established itself as the natural language of **real-time** payments.
- ISO 20022 messages are designed to **support current and future business needs** around the world. To this end, specifications include international characters in narrative fields, long identifiers and references, large monetary amounts and precise interest and exchange rates.
- Adopting ISO 20022 in **correspondent banking**. By 2025, the high value payment systems of all major reserve currencies will have moved to ISO 20022. ISO 20022 is a rich, structured and extensible messaging standard that is increasingly **becoming the de facto standard** for exchange of payments and reporting in high value, instant and other domestic payment schemes.
- ISO 20022 is used already in over **70** countries, and forecast to be used in **80%** of clearing and settlement of high value payments **by 2025**.

# Advantages of ISO 20022



# Client are Asking their Banking Partners

- **Multiple banking relationships:** ISO 20022 may be right for their organization if you use several banks, and process a variety of payment types in a number of different currencies and countries. ISO will bring standardization so you will not have to follow a myriad of proprietary formats.
- **Most current:** If the client is planning on implementing or upgrading software (ERP, AR/AP, Treasury, etc.) it may be the time to look at these applications to see if they support ISO 20022 messages.
- **Education:** Client are reaching out to their banks and software partners upfront to assess their ISO 20022 literacy.

# What we can tell our clients about ISO 20022

ISO 20022 is a **methodology** for defining financial data content – a standard for standards, so to speak.

Currently, over **800 messages** have been defined, and there are many more on the way.

It's not just about messages – ISO 20022 provides a **common language for machines and people** to exchange information about financial business. This common language is set out in a formal dictionary.

ISO 20022 is a **business standard**; its principal focus is on the content of the **dictionary**, rather than the technicalities of how data is exchanged.

ISO 20022 is an **open standard** that anyone can use, and to which anyone can contribute.



## Appendix

# 820 Remittance vs. REMIT.001

	EDI 820 Structure	ISO 20022 with XML Structure
Syntax	Data elements are positional within Data Segments	Data elements have prior and ending tags presented in a hierarchy
Customer Account Number	N104 N1*PR*XYZ Company*91*C9876543\	<Invoice> <OrgId> <Id>C9876543</Id>
Customer Name	N102 N1*PR*XYZ Company*91*C9876543\	<Nm>XYZ Company</Nm>
Invoice Number	RMR 01 IV=Invoice Number RMR*IV*121212**950.00*1000.00*450.00\	<RfrdDocInf> <Tp> <CDOrPrtry> <Cd>CINV</Cd> </CDOrPrtry> </Tp> <NB>121212</Nb> <RltdDt>2020-10-05</RltdDt> </RfrdDocInf>
Invoice Data	DTM02 DTM*003*20201005\	<RltdDt>2020-10-05</RltdDt>
Invoice Gross Account/Amount Before Discounts	RMR05 RMR*IV*9876543**950.00*1000.00*450.00\	<RfrdDocAmt> <DuePyblAmt Ccy=*USD*>1000.00</DuePyblAmt> </RfrdDocAmt>
Discount Amount	RMR06 RMR*IV*121212**950.00*1000.00*450.00\	<RfrdDocAmt> <DscntApidAmt> <Amt Ccy=*USD*>450.00</Amt> </DscntApidAmt> </RfrdDocAmt>





# Information Reporting

Previous Day Reporting BAI2 vs CAMT.053

# Information Reporting

	BAI2 Structure	ISO 20022 with XML Structure
Syntax	Data elements are positional within Data Segments	Data elements have prior and ending tags presented in a hierarchy
Customer Account Number	03,000024106XXXX,,010,+000000000000,,/	<pre>&lt;Acct&gt; &lt;Id&gt; &lt;Othr&gt; &lt;Id&gt;000024106XXXX&lt;/Id&gt;</pre>
Account Balance Information	88,015,+000000000000,,,040,+000000000000,,,045,+000000000000,,/ 88,063,+000000000000,,,072,+000000000000,,,074,+000000000000,,/ 88,050,+000000000000,,/	<pre>&lt;Cd&gt;OPBD&lt;/Cd&gt; &lt;/CdOrPrtry&gt; &lt;/Tp&gt; &lt;Amt Ccy="USD"&gt;0&lt;/Amt&gt; &lt;CdtDbtInd&gt;CRDT&lt;/CdtDbtInd&gt; &lt;Dt&gt;2020-07-22&lt;/Dt&gt; &lt;/Bal&gt; &lt;Bal&gt; &lt;Tp&gt; &lt;CdOrPrtry&gt; &lt;Cd&gt;CLBD&lt;/Cd&gt; &lt;/CdOrPrtry&gt; &lt;/Tp&gt; &lt;Amt Ccy="USD"&gt;0&lt;/Amt&gt;</pre>
Total Debits and Credits	88,100,+000005556411,000002,/	<pre>&lt;TtlCdtNtries&gt; &lt;NbOfNtries&gt;000002&lt;/NbOfNtries&gt; &lt;Sum&gt;55564.11&lt;/Sum&gt;</pre>
Transaction details	16,475,000000023184,,,47406/ 88,IMAGE EXCHANGE CHECK	<pre>&lt;NtryRef&gt;47406&lt;/NtryRef&gt; &lt;Amt Ccy="USD"&gt;231.84&lt;/Amt&gt; &lt;CdtDbtInd&gt;DBIT&lt;/CdtDbtInd&gt;</pre>
Overflow data	16,142,000000011665,,,0/ 88,ACH CREDIT 88,REPAYMENT TASC 88,SCOTT PROFESSIONAL E 88,CUSTOMER ID AMSTAF59234XXXX	<pre>&lt;RmtInf&gt; &lt;Ustrd&gt;ACH CREDIT&lt;/Ustrd&gt; &lt;Ustrd&gt;REPAYMENT TASC&lt;/Ustrd&gt; &lt;Ustrd&gt;SCOTT PROFESSIONAL E&lt;/Ustrd&gt; &lt;Ustrd&gt;CUSTOMER ID AMSTAF59234XXXX&lt;/Ustrd&gt;</pre>



# Payments

EDI 820 vs PAIN.001.01.03

# Payments

	EDI 820 Structure	ISO 20022 with XML Structure Pain.001.01.03
Syntax	Data elements are positional within Data Segments	Data elements have prior and ending tags presented in a hierarchy
Client ID	GS*RA*SCOTT0227ORG*521111119T*20200924*1548*1*X*004010~	<InitgPty> <Nm>SCOTT Insurance Agency, Inc.</Nm> <Id>
Customer's Address	N1*PR* SCOTT Insurance Agency, Inc.~ N3*One Scott Plaza~ N4*Washington*DC*20111*US~	<PstAdr> <AdrTp>ADDR</AdrTp> <StrtNm>One Scott Plaza</StrtNm> <PstCd>20111</PstCd> <TwnNm>Washington</TwnNm> < CtrySubDvsn>DC</CtrySubDvsn>
Payment (WIRE)	BPR*X*60*C*FWT**01*121000248*DA*00052355XXXX*	<LclInstrm> <Cd>CTR</Cd> </LclInstrm> <Amt> <InstdAmt Ccy="USD">60</InstdAmt>
Invoice Data	DTM02 DTM*003*20201005\	<RltdDt>2020-10-05</RltdDt>
Invoice Gross Account/Amount Before Discounts	RMR05 RMR*IV*9876543**950.00*1000.00*450.00\	<RfrdDocAmt> <DuePyblAmt Ccy="USD">1000.00</DuePyblAmt> </RfrdDocAmt>
Discount Amount	RMR06 RMR*IV*121212**950.00*1000.00*450.00\	<RfrdDocAmt> <DscntApidAmt> <Amt Ccy="USD">450.00</Amt> </DscntApidAmt> </RfrdDocAmt>



Payment Acknowledgement  
Data File & Readable Report  
EDI 824 vs PAIN.002.01.03

# Payments ACK EDI 824 vs ISO Pain.002 or HTML Report



	EDI (824) Structure	ISO 20022 with XML Structure Pain.002.01.03
Syntax	Data elements are positional within Data Segments	Data elements have prior and ending tags presented in a hierarchy
Client ID	GS*AG*521111119T*SCOTT0227ORG*20200925*1455*6*X*004010	<StsId>SCOTT0227ORG/000000001/000000001/3<
Message type	ST*824*000000006	Document xmlns="urn:iso:std:iso:20022:tech:xsd:pain.002.001.03">
Transaction amount	DTM*007*20200920\AMT*1*60	<Amt> <InstdAmt Ccy="USD">60</InstdAmt>
Acknowledgement Status	OTI*TA*TN*5181318*****3*0003	<StsId>SCOTT0227ORG/000000001/000000003/3 </StsId><OrgnlInstrId>5181318</OrgnlInstrId> <OrgnlEndToEndId>5181318</OrgnlEndToEndId> <TxSts>ACSP</TxSts>
FED Refernce number	REF*8I*0925E3QP016C000002\	<ClrSysRef>0925E3QP016C000002</ClrSysRef>

# HTML Readable Report

BBT190102/000000001 pain.002.001.03 Generated On 02-Jan-2019 15:24:00 ET							
263191387 0000111222444		Branch Banking and Trust Corp					USD
Customer Payment Status Report							
Original Group Information And Status							
Original Message Identification		ADS/181116/CCT001					
Original Message Name Identification		pain.001.001.03					
Original Creation Date Time		2018-11-16T10:12:03					
Original Number Of Transactions		30					
Original Control Sum		291,603.25					
Original Payment Information And Status							
Original Payment Information Identification		ADS/181116/CCT001					
Original Number Of Transactions		30					
Original Control Sum		291,603.25					
Transaction Information And Status							
Transaction Status	Status Identification / Reason Information	Original Instruction Identification	Original End To End Identification	Requested Execution Date	Local Instrument	Clearing System Reference	Instructed Amount
ACTC	SCOTT1234ORG/000000001/000000001/1 Accepted Technical Validation	ADS/181116/CCT001/001	84026	11/16/2018	CTX		2,581.00
ACTC	SCOTT1234ORG/000000001/000000002/1 Accepted Technical Validation	ADS/181116/CCT001/002	84027	11/16/2018	CTX		6,390.00
ACTC	SCOTT1234ORG/000000001/000000003/1 Accepted Technical Validation	ADS/181116/CCT001/003	84037	11/16/2018	CTX		42,545.25
ACTC	SCOTT1234ORG/000000001/000000004/1 Accepted Technical Validation	ADS/181116/CCT001/004	84039	11/16/2018	CTX		6,773.00
ACTC	SCOTT1234ORG/000000001/000000005/1 Accepted Technical Validation	ADS/181116/CCT001/005	84041	11/16/2018	CTX		1,134.00
ACTC	SCOTT1234ORG/000000001/000000006/1 Accepted Technical Validation	ADS/181116/CCT001/006	84042	11/16/2018	CTX		1,701.00
ACTC	SCOTT1234ORG/000000001/000000007/1 Accepted Technical Validation	ADS/181116/CCT001/007	84043	11/16/2018	CTX		4,190.20
ACTC	SCOTT1234ORG/000000001/000000008/1 Accepted Technical Validation	ADS/181116/CCT001/008	84044	11/16/2018	CTX		50,907.25
ACTC	SCOTT1234ORG/000000001/000000009/1 Accepted Technical Validation	ADS/181116/CCT001/009	84045	11/16/2018	CTX		3,185.00
ACTC	SCOTT1234ORG/000000001/000000010/1 Accepted Technical Validation	ADS/181116/CCT001/010	84048	11/16/2018	CTX		5,715.00

# Resources

*Feel like you have learned a lot about ISO 20022, but you still want to know more?*

Here is a list of useful URLs for ISO and other standards bodies.

- ISO 20022: [www.iso20022.org](http://www.iso20022.org)
- SWIFT: [www.swift.com](http://www.swift.com)
- ISO 15022: [www.iso15022.org](http://www.iso15022.org)
- Extensible Markup Language (XML): [www.w3.org/XML](http://www.w3.org/XML)
- Payments Market Practice Group: [www.swift.com/pmpg](http://www.swift.com/pmpg)
- MyStandards: [www.swift.com/mystandards](http://www.swift.com/mystandards)



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