ISO 20022 Programme

Quality data, quality payments

Awareness Webinar – pacs & camt mapping
Cross Border Payments & Reporting (CBPR+) Working Group
A community agreement

In 2018, the global financial community agreed to migrate from the MT (FIN) payment message standard to ISO 20022.

The move to ISO 20022 will begin in end 2022 and coexistence with MT (FIN) will run until end 2025.

All FI to FI payments and cash reporting messages will move to ISO 20022.

All players need to start preparing for the migration now.
CBPR+: A group of your peer banks advising SWIFT on how ISO 20022 should be used

Objective

Create **global ISO 20022 Market Practice and Usage Guidelines** for selected messages from the **SWIFT MT Category 1, 2 & 9** set of messages, which will be validated on the SWIFT network in the many to many space.

With the approach of

- **Benefiting from ISO 20022 features**, and not alike for like adoption from SWIFT MT
- **Interoperable with high value payment system (HVPS+) guidelines***, while differences should be justified and documented
- **Incorporating gpi requirements**, such as UETR
- **Incorporating securities requirements**, for the cash-leg of a securities transactions
- **Including new messages & functionalities where required**, e.g. Return & Status messages
- **Validated on the SWIFT network**
- **Maintained on a yearly basis**

HVPS+: A working group of payment marketing infrastructure operators advising SWIFT on how ISO 20022 should be used for high value payment systems. HVPS+ has established usage guidelines for this purpose
How is an MT structure different from an MX structure?

MT

{1:PO1OSLBATWAXXX0975000073}
{2:103AHKANLZAXXXU3003}
{3:{113:UBGT}{108:INTLPMTS}}
{4: (CrLf)}
:20:494932/DE (CrLf)
:23B:CRED (CrLf)
:32A:030731EUR1958,47 (CrLf)
:33B:EUR1958,47 (CrLf)
:50K:FRANZ HOLZAPFEL GMBH (CrLf)
VIENNA (CrLf)
:59:H.F. JANSSEN (CrLf)
LEDEBOERSTRAAT 27 (CrLf)
AMSTERDAM (CrLf)
:70:/INV/ 18042 910412 (CrLf)
:71A:SHA (CrLf)
{5:{CHK:123456789ABC}}

ISO 20022 (MX)

ISO 20022 Business Application Header

ISO 20022 Message

Business Message
The changing language of payments
What is changing?

Message types
CBPR+ Phase 1 usage guidelines and planned translation rules

<table>
<thead>
<tr>
<th>Existing FIN MTs</th>
<th>ISO 20022 equivalent</th>
<th>Usage guidelines</th>
<th>Translation rules planned</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 103 / 102</td>
<td>pacs.008.001.0x</td>
<td></td>
<td>Published on MyStandards</td>
</tr>
<tr>
<td>MT 200 / 201 / 202 / 202 COV / 203 / 205</td>
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<tr>
<td>MT 103 RETURN / MT 202 RETURN</td>
<td>pacs.004.001.0x</td>
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<td>Published on MyStandards</td>
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<tr>
<td>MT 103 REJECT / MT 202 REJECT</td>
<td>Negative pacs.002.001.0x</td>
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<td>MX to MT only SWIFT to Investigate Field 72 option or MT 199</td>
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<tr>
<td><strong>No Equivalent</strong></td>
<td>Positive pacs.002.001.0x</td>
<td>No translation planned</td>
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<tr>
<td>MT 210</td>
<td>camt.057.001.0x</td>
<td></td>
<td>Published on MyStandards</td>
</tr>
<tr>
<td>MT 900 / 910</td>
<td>camt.054.001.0x</td>
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<td>Published on MyStandards</td>
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<tr>
<td>MT 941 / 942</td>
<td>camt.052.001.0x</td>
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<td>MT 940 / 950</td>
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<tr>
<td>MT 920</td>
<td>camt.060.001.0x</td>
<td></td>
<td>No translation planned</td>
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<tr>
<td></td>
<td>head.001.001.0x – v2</td>
<td>Published with each request type</td>
<td>N/A</td>
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</table>

Updated April 2020
## CBPR+ Phase 1 usage guidelines and planned translation rules

<table>
<thead>
<tr>
<th>Existing FIN MTs</th>
<th>ISO 20022 equivalent</th>
<th>Usage guidelines</th>
<th>Translation rules planned</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 103 STP</td>
<td>Pacs.008 STP Guideline</td>
<td>Under development</td>
<td>No translation planned</td>
</tr>
<tr>
<td>MT 103 STP EU</td>
<td>Pacs.008 EEA Guidelines</td>
<td>To be planned</td>
<td>No translation planned</td>
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<tr>
<td>MT 204</td>
<td>Pacs.010</td>
<td>Under Development</td>
<td>From MX to MT only</td>
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<tr>
<td>MT 104</td>
<td>Pacs.003</td>
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<td></td>
<td>head.001.001.0x – v2</td>
<td>Published with each request type</td>
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</tbody>
</table>
### CBPR+ Phase 2 usage guidelines and planned translation rules

<table>
<thead>
<tr>
<th>Existing FIN MTs</th>
<th>ISO 20022 equivalent</th>
<th>Usage Guideline available on Mystandards &amp; Readiness Portal</th>
<th>Translation rules planned</th>
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</thead>
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<tr>
<td>192/292 (Cancellation Request)</td>
<td>camt.056.001.0x - Cancellation Request</td>
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<td>In collaboration with gpi expert group</td>
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<td></td>
<td>Camt.026 – Unable to Apply</td>
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<tr>
<td></td>
<td>Camt.027 – Claim Non Receipt</td>
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<td></td>
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<tr>
<td></td>
<td>Camt.087 – Request to Modify</td>
<td></td>
<td></td>
</tr>
<tr>
<td>296/199/299/112 (Query/Answer)</td>
<td>camt.029.001.0x - Resolution of Investigation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MT 101</td>
<td>Pain.001</td>
<td>Wait for CGI deliverable</td>
<td>To be confirmed</td>
</tr>
<tr>
<td>MT 110/MT 111/MT 112</td>
<td>New Cheques Messages</td>
<td>Start development during June 2020 Workshop</td>
<td>To be confirmed</td>
</tr>
<tr>
<td>MT n90 / MT n91</td>
<td>New Fee Messages</td>
<td>Start development during June 2020 Workshop</td>
<td>To be confirmed</td>
</tr>
</tbody>
</table>

Note: implementation of the phase 2 is foreseen for the end of Nov 2022.
MT 103 Customer Credit Transfer
*High Level Serial message flow*

MT 103

The MT way

The ISO 20022 way

pacs.008 FI to FI Customer Credit Transfer
*High Level serial message flow*
MT 103 Customer Credit Transfer
High Level message flow settled using the cover method over a Payment Market Infrastructure

Note: For example purposes, this slide shows V-shape payment market infrastructure flows. Y-shape flows will be different.
pacs.008 FI To FI Customer Credit Transfer

High Level message flow settled using the cover method over a Payment Market Infrastructure

Note: For example purposes, this slide shows V-shape payment market infrastructure flows. Y-shape flows will be different.
Role of the Agent/s, Debtor and Creditor in the payment changes by description in the Bank to Customer Account Report message to Account Servicer and Account Owner. Whereby the report is send by the Account Servicer to the Account Owner and or authorized party. The message can be used to inform the account owner, or authorised party, of the entries reported to the account, and/or to provide the owner with balance information on the account at a given point in time.
Role of the Creditor Agent and Creditor in the payment changes by description in the Bank to Customer Statement message to Account Servicer and Account Owner. Whereby the statement is send by the Account Servicer to the Account Owner and or authorized party. This message is used to inform the account owner, or authorised party, of the entries booked to the account, and to provide the owner with balance information on the account at a given point in time.
Role of the Agent/s, Debtor and Creditor in the payment changes by description in the Bank to Customer Debit Credit Notification message to Account Servicer and Account Owner. Whereby the notification is send by the Account Servicer to the Account Owner and or authorized party.
High Level Account Reporting Request message (camt.060)

Role of the Agent/s, Debtor and Creditor in the payment changes by description in the camt messages to Account Servicer and Account Owner. Whereby the request is It is used to ask the account servicing institution to send a report on the account owner's account in a BankToCustomerAccountReport (camt.052), a BankToCustomerStatement (camt.053) or a BankToCustomerDebitCreditNotification (camt.054).
Product Roadmap – Standards
# Overview of solutions

<table>
<thead>
<tr>
<th>Standards tools and platforms</th>
<th>MyStandards Guidelines Definition</th>
<th>Readiness Portal Test usage guidelines</th>
<th>Translation Portal Test translation rules</th>
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<tr>
<td>CBPR+</td>
<td>Other guidelines</td>
<td>Functional testing of usage guidelines</td>
<td>Building of cases</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Consult usage guidelines</td>
<td>• Test sample messages against usage guidelines</td>
<td>• Get full details of field by field translation logic</td>
<td></td>
</tr>
<tr>
<td>• Compare usage guidelines with HVPS+, other payment market infrastructure usage guidelines, and your own usage guidelines if published on MyStandards</td>
<td>• Perform functional testing of applications processing transactional data</td>
<td>• Test your translation utilities against CBPR+ approved translation rules</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Both ways from MX to MT and MT to MX</td>
</tr>
</tbody>
</table>

ISO 20022 Programme - Quality data, quality payments
SWIFT creates, manages and maintains CBPR+ specifications in MyStandards

SWIFT publishes specifications for testing in a customised Readiness Portal

You consume specifications and test your CBPR+ implementation against specifications

MyStandards & Readiness Portal – How Does It Work?

1. SWIFT creates, manages and maintains CBPR+ specifications in MyStandards

2. SWIFT publishes specifications for testing in a customised Readiness Portal

3. You consume specifications and test your CBPR+ implementation against specifications

ISO 20022 Programme - Quality data, quality payments
Translation
Example MX/MT Agent Field Tag (e.g. 56) Type A Format

ISO 20022 Programme - Quality data, quality payments
Example MX/MT Agent Field Tag (e.g.56) Type D Format

**ISO 20022 Programme - Quality data, quality payments**

### MX

```xml
<IntrmyAgt1>
  <FinInstnId>
    <ClrSysMmbId>
      <ClrSysId>
        <Cd>ITNCC</Cd>
      </ClrSysId>
    </ClrSysMmbId>
    <MmbId>0123401600</MmbId>
  </FinInstnId>
  <Nm>Banca dei Lavoratori Italiani</Nm>
  <PstlAdr>
    <StrtNm>Via dei Gigli</StrtNm>
    <BldgNb>1</BldgNb>
    <BldgNm>Palazzo Viola</BldgNm>
    <Flr>7 Piano</Flr>
    <PstCd>20100</PstCd>
    <TwnNm>Milano</TwnNm>
    <TwnLctnNm>Quartiere Isola</TwnLctnNm>
    <DstrctNm>Provincia di Milano</DstrctNm>
    <CtrySubDvsn>Lombardia</CtrySubDvsn>
    <Ctry>IT</Ctry>
  </PstlAdr>
</IntrmyAgt1>
```

### MT

```
:56D://IT0123401600
Banca dei Lavoratori Italiani
Via dei Gigli,1,Palazzo Viola,7 Pi+
IT/Milano,20100,Quartiere Isola,Lombardia,Provincia di Milano
```
Example MX/MT Debtor/Creditor (50,59) Unstructured Name and Address

**MX**

```xml
<Dbtr>
    <Nm>Hamburgische Hochwertige Landesbank eG</Nm>
    <PstlAdr>
        <AdrLine>Gebaude 5</AdrLine>
        <AdrLine>Hafenstrasse 7</AdrLine>
        <AdrLine>22767 Hamburg, DE</AdrLine>
    </PstlAdr>
    <CtryOfRes>DE</CtryOfRes>
</Dbtr>
<DbtrAcct>
    <Id>
        <Othr><Id>123</Id></Othr>
    </Id>
</DbtrAcct>
```

**MT**

```
:50K:/123
Hamburgische Hochwertige Landesbank+
Gebaude 5
Hafenstrasse 7
22767 Hamburg, DE
```
Example MX/MT Debtor/Creditor (50,59) Structured Name and Address

**MX**

```xml
<Dbtr>
  <Nm>Mueller Weltweit Handels GmbH</Nm>
  <PstlAdr>
    <StrtNm>Hafenstrasse</StrtNm>
    <BldgNb>7</BldgNb>
    <BldgNm>Willy-Brandt Gebaude</BldgNm>
    <Flr>3</Flr>
    <PstBx>1203</PstBx>
    <Room>C3B</Room>
    <PstCd>22767</PstCd>
    <TwnNm>Hamburg</TwnNm>
    <TwnLctnNm>St. Pauli</TwnLctnNm>
    <Ctry>DE</Ctry>
  </PstlAdr>
  <Id>
    <OrgId>TX1DBTRORGIDLEI67890</OrgId>
  </Id>
</Dbtr>
```

**MT**

```
:50F:/DE25390200000004711001
1/Mueller Weltweit Handels GmbH
2/Hafenstrasse, 7, Willy-Brandt Gebaude
3/DE/Hamburg, 22767, St. Pauli
6/DE/LEIC/TX1CDTRORGIDLEI67890
```
Remittance Information Mapping - Definition

The MT Remittance Information is translated applying prioritizing the information.

Information is likely to be truncated and identified in most cases with the sign "+" at the end of the translated information. If a full element is not copied an Error Handling mechanism will be defined to report the missing information.

In all cases, UltimateDebtor and UltimateCreditor will have the highest translation priority in the MT Field 70.

When the originating message is MX, the MT remittance information is translated with the following identifiers:

- /ULTB/ - UltimateCreditor information prioritized as Name/Country /TownName. TownName is optional or (Name/OtherId) or Name alone or OtherId alone.
- /ULTD/ - UltimateDebtor information prioritized as Name/Country/TownName. TownName is mandatory or (Name/OtherId) or Name alone or OtherId alone.
- /PURP/ - purpose of the payment
- /ROC/ - EndToEndIdentification when /ROC/ is not present in UnstructuredRemittanceInformation and value different from "NOTPROVIDED".
- /URI/ - the MX unstructured remittance information
- /RELID/ - 1 or 2 identifications of the RelatedRemittanceInformation stored outside the message
- /SRI/+ - means that structured remittance information is present in the original message but is not translated.

Note: /URI/, /RELID/ and /SRI/+ are mutually exclusive meaning cannot be present together (even not by pair).
Example MX/MT Remittance Information (70)

**MX**

```xml
<CdtrTxInf>
  <PmtId>
    <InstrId>INSTRID-TMP001</InstrId>
    <EndToEndId>END2ENDID-TMP001</EndToEndId>
    <UETR>4f334519-092f-49fa-acf9-ce93c267ac8c</UETR>
  </PmtId>
  ...
  <UltmtDbtr>
    <Nm>Tower and Town Inc.</Nm>
  </UltmtDbtr>
  ...
  <UltmtCdttr>
    <Nm>Sivesh S</Nm>
  </UltmtCdttr>
  <RmtInf>
    <Ustrd>BELEG 1301 2019 RG.OPTIK/03/19-20 V.312589RG.OPTIK/ 02/19-20 V.200619</Ustrd>
  </RmtInf>
</CdtrTxInf>
```

**MT**

>:70:/ULTB/Sivesh S///ULTD/Tower and Town Inc.///ROC/END2ENDID-TMP001///URI/BELEG 1301 2019 RG.OPTIK/03/19-20 V.312589RG.OPTIK/ 02/19-20 V.200619
Bank to Bank Information Mapping - Definition

Logic

Depending on the space available and the presence of the elements in the MX message, the following priorities and order are applied to field 72 Bank to Bank Information:

• /INTA/ - IntermediaryAgent 2 & 3*
• /SVCLVL/ - PaymentTypeInformation/ServiceLevel *(excluding 23E code – SDVA and G00n gpi codes)
• /LOCINS/ - PaymentTypeInformation/LocalInstrument *(excluding 23B codes)
• /CATPURP/ - PaymentTypeInformation/CategoryPurpose *(excluding 23E codes)
• /ACC/ - InstructionForCreditorAgent (excluding 23E codes)
• /REC/ - InstructionForNextAgent (excluding /FIN54/**)
• /INS/ - PreviousInstructingAgent1,2,3

Note:
Possible missing (Error Handling mechanism will be defined to report the missing information) or truncated information can apply.

*means new code words to be used in Field72 **/FIN54/ with BIC is used in a specific scenario in MT to indicate where the receiver will claim the money. This code word will be present only if a previous MT to MX translation already occurred.
Example MX/MT Bank to Bank Information (72)

MX

<PmtTpInf>
<SrvCllvrlvl>
<Prtry>Single Euro Payments Area</Prtry>
</SrvCllvrlvl>
<LclInstrm>
<Prtry>Cash Concentration Intragroup</Prtry>
</LclInstrm>
</PmtTpInf>

<IntrmyAgt2>
<FinInstnId>
<BIC>BCITITMMXXX</BIC>
</FinInstnId>
</IntrmyAgt2>

<IntrmyAgt3>
<FinInstnId>
<BIC>BARCIE22XXX</BIC>
</FinInstnId>
</IntrmyAgt3>

<InstrForNxtAgt>
<InstrInf>Instruction number 1</InstrInf>
</InstrForNxtAgt>

<InstrForNxtAgt>
<InstrInf>Instruction number 2</InstrInf>
</InstrForNxtAgt>

</CdtTrfTxInf>

MT

:72:/INTA/BCITITMMXXX
/INTA/BCITITMMXXX
/SVCLVL/Single Euro Payments Area
/LOCINS/Cash Concentration Intragroup
//up
/REC/Instruction number 1Instruction number 1+
Overview of translation services

Local Service
Stand-alone or on interface

Scope
• MX ↔ MT: send or receive side
• CBPR+ or others MI’s (including internal format and enrichment)

Components
• Integration solutions on interfaces (IPLA, AMH, SIL)
• Standalone product on Middleware, Back office (Translator)

Implementation cost
• Price list and a fixed cost per library
• Professional services

CBPR+ Mapping Library
• CBPR+ library to jump-start your project leveraging SWIFT expertise
• Fine-tuning possibilities
• Other MI’s foreseen (e.g. T2)
The CBPR+ group has published all its usage guidelines in MyStandards

Cross-border Payments and Reporting Plus

Introduction
Cross-border Payments and Reporting Plus (CBPR+) specifications define how ISO 20022 should be used for cross-border payments and cash reporting on the SWIFT network. Conformance to CBPR+ specifications will be validated by the SWIFT messaging service, so it is imperative that users implement the specifications correctly. The resources available on this page aim to help SWIFT users, software vendors and consultants understand and implement CBPR+. Resources include dynamic online documentation, downloadable PDF and Excel specifications and an online testing service: CBPR+ also includes standardized rules that define translation from the MT standard to CBPR+ ISO 20022 and from CBPR+ ISO 20022 to MT. These rules can be explored via an online visualization and tested in a sandbox.

ISO 20022 Messages
CBPR+ specifications are based on SR 2019 ISO 20222 messages. Specifications available now include pacs.002 (FI to FI Payment Status Report), pacs.004 (Payment Return), pacs.006 (FI to FI Customer Credit Transfer) and pacs.009 (Financial Institution Credit Transfer).

MT/ISO 20022 Translation
Translation rules define how MT messages should be translated to CBPR+ ISO 20022 and vice versa. These rules will be implemented by SWIFT in interoperability products that aim to facilitate community interoperability during the 4 year transition of MT to ISO 20022 between 2021 and 2025. The rules are published here to encourage their universal adoption and consistency of translation for cross-border business irrespective of the implementation technology.

https://www2.swift.com/mystandards/#/c/cbpr/landing
### Analyse CBPR+ usage guidelines

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
</tr>
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<tbody>
<tr>
<td>Collection for implementors ONLY</td>
<td>DRAFT</td>
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<tr>
<td>DRAFT Business Application Header, bail.001.001.02</td>
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</tbody>
</table>
Analyse CBPR+ usage guidelines, Content View (Highlighted changes)
Analyse CBPR+ usage guidelines, Result View (CBPR+ specific)
Readiness Portal to validate against the CBPR+ Usage Guidelines
Compare CBPR+ usage guidelines with other market practices

Usage Guidelines Comparison
Test CBPR+ usage guidelines

ISO 20022 Programme - Quality data, quality payments
MT/ISO 20022 Translation rules – Where to find out more

Q1 2020 **User Handbook** iteration will include a full section describing the Translation mapping principals.

**MT/ISO 20022 Translation** section of the CBPR+ landing page

[MT/ISO 20022 Translation rules – Where to find out more](https://www2.swift.com/mystandards/#/c/cbpr/landing)
Analyse MT to ISO 20022 CBPR+ (and vice versa) mapping rules
Test MT to ISO 20022 CBPR+ (and vice versa) mapping rules

Available as of December 2019

Translation Portal for visualisation of rules – only for CBPR+

Drop sample message

Get translated message
CBPR+ Sample Libraries – User Handbook Use Cases & Others

CBPR+ Samples

This archive contains various kinds of samples for your free usage. This note aims at explaining the logic underlying each group of sample files.

There are two main groups:

One collection of ‘Generic’ and one collection of some meaningful, ‘scenario-based’ samples, following the User Handbook use cases. All messages are valid Vs the II message format and the CBPR+ Usage Guideline (UG)

The collection of ‘User Handbook’ Samples is arranged per Use Case form the CBPR+ User Handbook published on MyStandards. Each .zip file contains the xml files are represented in the use case as per which they are named and a pdf document showing the context and flow.

The naming convention is as follows:

• CBPR.UseCaseNumber.MessageType.xx.XML

This collection will be gradually completed

The collection of ‘Generic’ sample files is meant for helping the implementers handle the specifics of the CBPR+ Usage Guideline (UG), not the ISO 20022 rules. They are purposely either Correct (positive) or Incorrect (negative) – one of each for each CBPR+ Rule, Restriction and Changed Pattern (Amount, Date/Time, etc.) in the UG the rules provided in the .zip files.

The naming convention is as follows:

• Positive samples: CBPR.POS{pacs008,XML,TAG}{xxx,X}, where XML,TAG will be the element/restriction being tested and xxx being incremental number of sample.
• Negative samples: CBPR.NEG{pacs008,XML,TAG}{xxx,X}, where XML,TAG will be the element/restriction being tested and xxx being incremental number of samples.

For NEG samples, XML comments explain what is wrong.

The list is not exhaustive and is not meant for qualification testing. Please note that this exercise is iterative and the sample files are provided “as is”. Therefore, they may contain typos or mistakes. Feedback is welcomed at the following address: cbpr@swift.com

Note: Even though the sample messages do contain realistic BIC, IBAN, LEI, addresses etc. for the sake of quality and in order to pass validation in the Readiness Portal, they are by no means the reflection of any reality, either in their business meaning or in their representations of specific relationships existing in the SWIFT community. All is fictional and invented.
Where can I find more information?
The full CBPR+ usage guidelines and user handbook is published on MyStandards:

https://www2.swift.com/mystandards/#/c/cbpr/landing
Where can I get more help?

New resources are available for customers

Webinars & work sessions
New webinars & information sessions are available for you to register and get your questions answered

ISO 20022 Programme hub
The ISO 20022 Programme Document Centre now includes:
- (Updated) ISO 20022 for Dummies e-book
- (New) Third party toolkit & FAQ
- (New) ISO 20022 for payments webinar

SWIFTSmart
The SWIFTSmart e-learning platform includes training modules for:
- Introduction to ISO 20022
- Introduction to MX
- (New) ISO 20022 Adoption for CBPR+

MyStandards
The MyStandards CBPR+ group page includes:
- (New) camt.053 / 052 – Statement & Report
- (New) camt.054 / 057 – Notifications
- (New) camt.056 – Cancellation
- (New) camt.060 – Account Reporting

Adoption services
Get support for your project with:
- Training
- Impact assessment
- Standards mapping
- Translation & integration solutions

Vendor support
A Vendor Readiness Portal is live, allowing vendors to test their applications
A self-attestation framework has been launched to allow vendors to confirm readiness for CBPR+
List of attested vendors will be published on swift.com starting March 2020

Knowledge Centre
New Frequently Asked Questions (FAQ) is available in the Knowledge Centre

Customer support
SWIFT Customer Support is available to answer questions if you do not find the information you are looking for