BANQUE CENTRALE DU LUXEMBOURG

EUROSYSTÈME

Target Consolidation Training

Virtual Info session n°12 Focus on RTGS ISO 20022 key messages

2021-11-24
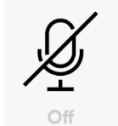
9h30 – 12h

WEBEX EVENT

Event rules

- **Make sure you respect the naming convention**
  - First name = Full name (first name + last name)
  - Last name = Bank name
  - Email = Professional email address

- **Camera off by default**

- **Microphone off by default**

- **Questions allowed in the chat or by raising hand**
  - In case of too many questions, send your question to Target.conso@bcl.lu

- **Do not forget to lower hand after having asked a question**

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Training agenda

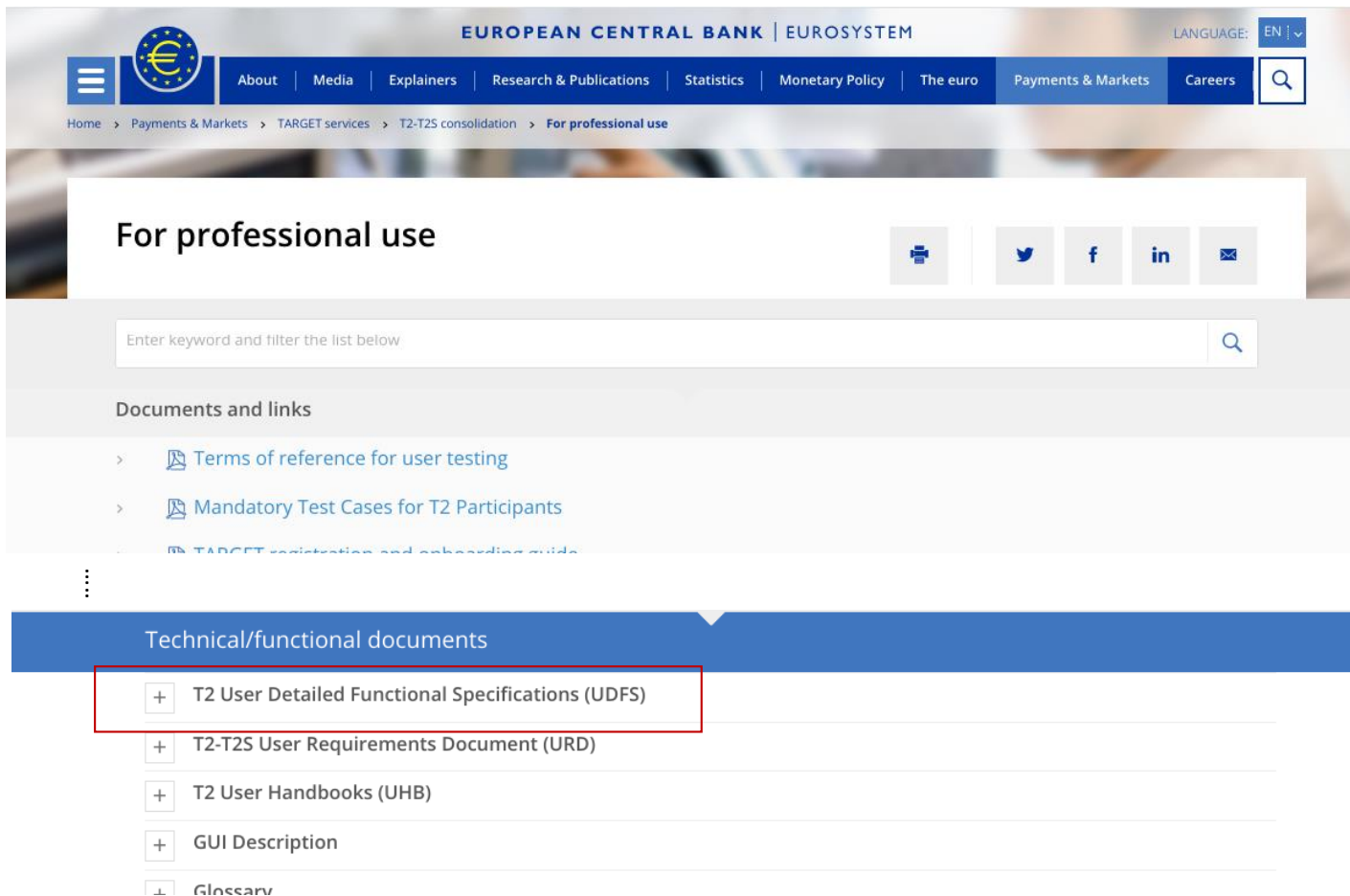|					Who attends ?		
	TARGET CONSOLIDATION PROJECT **BCL Training sessions for future MCA holders in Luxembourg** **2021 Program**						
	What ?		**When ?**	**How long ?**	**Who attends ?**		
n°	**Topic**	**details**	**Event Date 2021**	**Session format**	**Configuration A A2A + U2A**	**Configuration B U2A only**	**Configuration C Co-managed**
1	**Registration forms**	How to fill in the form and send it to the BCL ?	12-oct	1h morning Session	YES	YES	YES
2	**Connectivity**	Focus on connectivity testing and upcoming milestones	28-sept	1h morning Session	YES	YES	NO
3	**Introduction - Basic concepts**	Vision 2020, ESMIG, A2A vs U2A, MCA vs DCA	17-nov	1h morning Session	YES	YES	YES
4	**Introduction - Business day**	New Business day in TARGET services	17-nov	1h morning Session	YES	YES	Optional
5	**CRDM Reference data - Basics**	Account details and how to create users ? How to assign roles and privileges ?	22-nov	1h morning Session	YES	YES	NO
6	**CRDM Reference data - Configuration**	How to configure my account ? How to set-up reports and messages ?	22-nov	1h morning Session	YES	YES	NO
7	**CLM - Liquidity management**	How do I manage my liquidity in CLM?	23-nov	1h morning Session	YES	YES	NO
8	**CLM - CB services**	Central bank services: Minimum reserves, Standing Facilities, etc	23-nov	1h morning Session	YES	YES	NO
9	**CLM - ISO 20022 messages**	Focus on CLM ISO 20022 key messages	23-nov	1h morning Session	YES	NO	NO
10	**RTGS - Liquidity management**	How to manage liquidity on RTGS? Interaction with other services	24-nov	1h morning Session	YES if RTGS	YES if RTGS	NO
11	**RTGS - Payments**	How do I instruct a payment?	24-nov	1h morning Session	YES if RTGS	YES if RTGS	NO
12	**RTGS - ISO 20022 messages**	Focus on RTGS ISO20022 key messages	24-nov	1h morning Session	YES if RTGS	NO	NO
13	**Testing and migration**	Testing and migration in 2022	25-nov	1h morning Session	YES	YES	NO
14	**Additionnal features**	Billing, datawarehouse	25-nov	1h morning Session	YES	YES	NO
15	**Co-management**	Focus on co-manager activities	26-nov	1h morning Session	YES if co-manager	YES if co-manager	Optional
16	**Co-management**	Focus on co-managees activities	26-nov	1h morning Session	Optional	Optional	YES

Agenda

BANQUE CENTRALE DU LUXEMBOURG

EUROSYSTÈME

1. Introduction

1. Introduction
1.1 Documentation

➢ Information on T2 messages is available in the UDFS and in MyStandards

UDFS: https://www.ecb.europa.eu/paym/target/consolidation/profuse/html/index.en.html

1. Introduction

1.1 Documentation

➢ UDFS contains the links to MyStandards for the messages guidelines
➢ T2 messages can be tested in the MyStandards Readiness Portal

Useful document: *T2 MyStandards and Readiness Portal User Guide*
Available under the "for professional use" part of the website of the ECB (see previous slide)
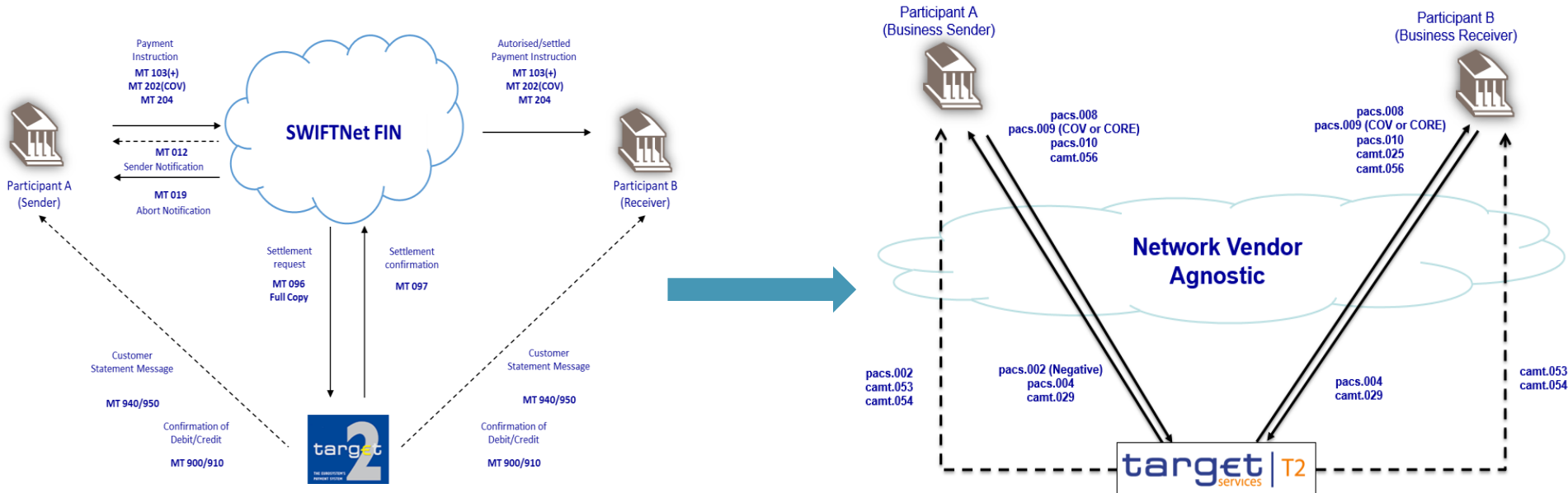
➢ Pay attention to the Change requests which might include additional information on messages such as for example CR 69 on pacs.004

➢ Final UDFS version 3.0 (including all change requests) will be published before go-live by the end of Q3 2022

Technical/functional documents
+ T2 User Detailed Functional Specifications (UDFS)
+ T2-T2S User Requirements Document (URD)
+ T2 User Handbooks (UHB)
+ GUI Description
+ Glossary
− Change Requests

Each change request below was or will be implemented in one or several SDD versions, as shown by ⟲ this table.

› 📄 CSLD-0078-UHB Multiplex
› 📄 CSLD-0077-UHB Multiplex
› 📄 CSLD-0076-UDFS Multiplex
› 📄 CSLD-0075-UDFS Data propagation and data loading adaptations Part C
› 📄 CSLD-0074-UDFS Data propagation and data loading adaptations
› 📄 CSLD-0072-UHB-Multiplex
› 📄 CSLD-0071-SYS Migration of Balances Tool
› 📄 CSLD-0070-UHB Multiplex
› 📄 CSLD-0069-UDFS pacs.004 Original Group Information

From Y shape to V shape!

1.2 General principles in T2

From ISO15022 to ISO20022 fully fledged!

ISO 15022 (MT) ❌	ISO 20022 (MX) ✅
MT103	pacs.008 - CustomerCreditTransfer
MT202, MT202 COV	pacs.009 - FinancialInstitutionCreditTransfer (CORE and COV)
MT012, MT019	pacs.002 - PaymentStatusReport
MT940, MT950	pacs.004 - PaymentReturn
MT900, MT910	camt.053 - BankToCustomerStatement
-	camt.054 - BankToCustomerDebitCreditNotification
-	camt.050 - LiquidityCreditTransfer
-	camt.056 - FIToFIPaymentCancellationRequest
-	camt.025 - Receipt
…	camt.029 - ResolutionOfInvestigation
-	admi.007 - ReceiptAcknowledgement
…	…

Message Structure in T2

➢ Inbound* and outbound** single messages are composed of:
- Business Application Header (head.001) – separate xml message
- ISO20022 message (e.g. pacs.008)

```
<AppHdr>
...
</AppHdr>
```
ISO 20022 Business Application Header (head.001)

```
<Document>
...
</Document>
```
ISO 20022 message (e.g., pacs.008)

Business message

➢ XML examples of full messages (including header) are available in the ECB website under the "for professional use -> knowledge-based repository" part (see previous slides)

*For inbound messages grouped in files the *Business File Header (head.002)* applies. Outbound messages are never sent in a file.
**Except for specific use cases of *admi.007* defined in the UDFS where BAH is not applicable

2. Main messages in RTGS

2.1 Liquidity transfers

Covered under the following presentation:

Liquidity management in RTGS

2.2 Interbank payments

➢ Interbank payments are initiated via pacs.009 – FinancialInstitutionCreditTransfer (COV & CORE)

➢ The sending participant receives (if subscribed to) the notification pacs.002 – PaymentStatusReport*

➢ The participant owing the credited account receives the pacs.009

RTGS Account holder A — pacs.009 → target services RTGS — pacs.009 → RTGS Account holder B, with pacs.002 returned to RTGS Account holder A

➢ The BICs in the header (FROM and TO) linked to the pacs.009 provide routing information for RTGS

➢ The BICs in two specific elements (instructing agent and instructed agent) inside the message body provide settlement information for RTGS

13 *with codes ACSC for settled and RJCT for rejected*

2.2 Interbank payments

➢ The BICs to be used in the header and in the message body are found in the RTGS directory

➢ Addressee BIC is the BIC to be used in the header

➢ Account BIC is the BIC of the account to be debited/credited in RTGS

FIELD No.	FIELD NAME	DESCRIPTION	Pacs.009 from Bank A to Bank B	Pacs.009 from Bank A to multi-addressee of Bank B
1	BIC	BIC that uniquely identifies a RTGS Participant. This BIC is for information purpose only and cannot be used to address payments. *!!!*	Header FROM: BICBANKAXXX	Header FROM BICBANKAXXX
2	Addressee BIC	BIC to be used in the message business header to address payments. It is equal to the Account BIC except for Multi-Addressee BICs.	Header TO: BICBANKBXXX	Header TO: BICBANKMULT
3	Account BIC	BIC identifying the RTGS DCA or CB Account.	Instructing agent: BICBANKAXXX	Instructing agent: BICBANKAXXX
			Instructed agent: BICBANKBXXX	Instructed agent: BICBANKBXXX

2.2 Interbank payments

Business Application Header V01 (head.001.001.01)
- From
  - Financial Institution Identification
    - Financial Institution Identification
      - BICFI
      - Clearing System Member Identification
        - Clearing System Identification
        - Member Identification
      - Other
- To
  - Financial Institution Identification
    - Financial Institution Identification
      - BICFI
      - Other
- Business Message Identifier
- Message Definition Identifier
- Creation Date
- Copy Duplicate
- Possible Duplicate
- Priority
- Signature
- Related

➤ Main elements of the **head.001 in RTGS** are the following:

Addressee BIC in the RTGS directory

System User Reference, registered in CRDM, and serves to identify the technical/A2A user sender (see next slide)

Addressee BIC in the RTGS directory

Unique ID assigned by the sender
RTGS uses this ID also for duplicate check

Contains the MessageIdentifier that defines the BusinessMessage

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➤ The clearing system member identification is used to indicate system user reference in inbound messages and allows the identification of the user in CRDM for the privilege checks

➤ It is mandatory in the head.001 (business application header) in the case of a single message

➤ When messages are sent in a file, it is mandatory in the head.002 (business file header) and optional in the head.001 of each single messages inside the file

➤ This system user reference is introduced in CRDM when your administrator creates your A2A/technical user (the user for your application that will communicate in A2A with T2) in CRDM (see CRDM training presentation for more information on the creation of users)

2.2 Interbank payments

➢ There is one head.001 message in RTGS which is to be used for all RTGS payment messages and it is filled in a similar way for all messages.

➢ The only element that is filled in differently is the Message Definition Identifier (see example) which shows to which message type this header is connected.

Example of **head.001** (only for illustration purposes)

```
- <AppHdr xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.01">
    - <Fr>
        - <FIId>
            - <FinInstnId>
                <BICFI>BCLXLULLXXX</BICFI>
                - <ClrSysMmbId>
                    <MmbId> MemberID </MmbId>
                </ClrSysMmbId>
            </FinInstnId>
        </FIId>
    </Fr>
    - <To>
        - <FIId>
            - <FinInstnId>
                <BICFI> BICBANKAXXX </BICFI>
            </FinInstnId>
        </FIId>
    </To>
    <BizMsgIdr>PAY-7-491-00007810678</BizMsgIdr>
    <MsgDefIdr>pacs.009.001.08CORE</MsgDefIdr>
    <CreDt>2021-11-10T13:41:46Z</CreDt>
</AppHdr>
```

This would be for example **pacs.008.001.08** for a header connected to a pacs.008 message

2.2 Interbank payments

Financial Institution Credit Transfer V08 (pacs.009.001.08)

- Group Header
  - Message Identification
  - Creation Date Time
  - Number Of Transactions
  - Settlement Information
- Credit Transfer Transaction Information
  - Payment Identification
    - Instruction Identification
    - End To End Identification
    - UETR
  - Clearing System Reference
  - Payment Type Information
  - Interbank Settlement Amount
  - Interbank Settlement Date
  - Settlement Priority
  - Settlement Time Indication
  - Settlement Time Request

Main elements of the **pacs.009 (CORE&COV)** message are the following

Information needed to identify the payment can be useful for reconciliation e.g. *EndtoEnd ID* is passed unchanged in the entire end-to-end chain (present in **camt.053** and **camt.054**)
e.g. *Instruction ID* can serve to reconcile with the **pacs.002** as it is present the *Original Instruction Identification* element.

fractionDigits: 2
totalDigits: 18
minInclusive: 0

RTGS only accepts the current business date or a future business date

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2.2 Interbank payments

Main elements of the **pacs.009** message

> ● Previous Instructing Agent 1
> ● Previous Instructing Agent 1 Account
> ● Previous Instructing Agent 2
> ● Previous Instructing Agent 2 Account
> ● Previous Instructing Agent 3
> ● Previous Instructing Agent 3 Account
> ● Instructing Agent
> ● Instructed Agent
> ● Intermediary Agent 1
> ● Intermediary Agent 1 Account
> ● Intermediary Agent 2
> ● Intermediary Agent 2 Account
> ● Intermediary Agent 3
> ● Intermediary Agent 3 Account
> ● Debtor
> ● Debtor Account
> ● Debtor Agent
> ● Debtor Agent Account

Account BICs as provided in the **RTGS directory**
Instructing agent: BIC of the account to be debited
Instructed agent: BIC of the account to be credited

RTGS only checks that this is a valid BIC

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2.2 Interbank payments

Main elements of the **pacs.009** message

> ● Creditor Agent

> ● Creditor Agent Account

> ● Creditor — RTGS only checks that this is a valid

> ● Creditor Account

> ● Instruction For Creditor Agent

> ● Instruction For Next Agent

> ○ Purpose

> ● Remittance Information

> ● Underlying Customer Credit Transfer — Provides information on the underlying pacs.008 for which cover is provided (if pacs.009 COV)

➢ Example of **pacs.009** (only for illustration purposes)

```xml
- <AppHdr xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.01">
   - <Fr>
      - <FIId>
         - <FinInstnId>
              <BICFI>BCLXLULLXXX</BICFI>
            - <ClrSysMmbId>
               - <ClrSysId>
                    <Prtry>T2</Prtry>
                 </ClrSysId>
                 <MmbId>UBCL-bcl-02</MmbId>
              </ClrSysMmbId>
           </FinInstnId>
        </FIId>
     </Fr>
   - <To>
      - <FIId>
         - <FinInstnId>
              <BICFI>BANKABICXXX</BICFI>
           </FinInstnId>
        </FIId>
     </To>
     <BizMsgIdr>PAY-7-491-00007810678</BizMsgIdr>
     <MsgDefIdr>pacs.009.001.08CORE</MsgDefIdr>
     <CreDt>2021-11-10T13:41:46Z</CreDt>
  </AppHdr>
```

2.2 Interbank payments

➢ Example of **pacs.009** (only for illustration purposes)

```xml
- <Document xmlns="urn:iso:std:iso:20022:tech:xsd:pacs.009.001.08" xmlns:xsi="http://w
    - <FICdtTrf>
        - <GrpHdr>
            <MsgId>PAY-7-491-00007810678</MsgId>
            <CreDtTm>2021-11-10T14:41:46+01:00</CreDtTm>
            <NbOfTxs>1</NbOfTxs>
            - <SttlmInf>
                <SttlmMtd>CLRG</SttlmMtd>
                - <ClrSys>
                    <Cd>TGT</Cd>
                </ClrSys>
            </SttlmInf>
        </GrpHdr>
        - <CdtTrfTxInf>
            - <PmtId>
                <InstrId>PAY-7-491-00007810678</InstrId>
                <EndToEndId>APPROVIS.CPTE NOSTRO</EndToEndId>
                <UETR>047f6ee3-191f-42cf-b738-84588d04217a</UETR>
            </PmtId>
            <IntrBkSttlmAmt Ccy="EUR">25</IntrBkSttlmAmt>
            <IntrBkSttlmDt>2021-11-10</IntrBkSttlmDt>
            <SttlmPrty>NORM</SttlmPrty>
            - <InstgAgt>
                - <FinInstnId>
                    <BICFI>BCLXLULLXXX</BICFI>
                </FinInstnId>
            </InstgAgt>
            - <InstdAgt>
                - <FinInstnId>
                    <BICFI>BANKABICXXX</BICFI>
                </FinInstnId>
            </InstdAgt>
```

➢ Example of **pacs.009** (only for illustration purposes)

```
- <Dbtr>
    - <FinInstnId>
        <BICFI>BCLXLULLXXX</BICFI>
    </FinInstnId>
</Dbtr>
- <DbtrAcct>
    - <Id>
        - <Othr>
            <Id>RLUEURBCLXLULLXXXB00000BCLXLULLXXX</Id>
        </Othr>
    </Id>
</DbtrAcct>
- <CdtrAgt>
    - <FinInstnId>
        <BICFI>BANKABICXXX</BICFI>
    </FinInstnId>
</CdtrAgt>
- <Cdtr>
    - <FinInstnId>
        <BICFI>BCLXLULLXXX</BICFI>
    </FinInstnId>
</Cdtr>
- <CdtrAcct>
    - <Id>
        <IBAN>LUxx00XXxxxxxxxxxxxx</IBAN>
    </Id>
</CdtrAcct>
</CdtTrfTxInf>
</FICdtTrf>
</Document>
```

2.3 Customer payments

➤ Interbank payments are initiated using the pacs.008 -CustomerCreditTransfer

➤ The sending participant receives (if subscribed to) the notification pacs.002 – PaymentStatusReport*

➤ The participant owing the credited account receives the pacs.008

RTGS Account holder A   RTGS Account holder B

➤ The BICs in the header (FROM and TO) linked to the pacs.008 provide routing information for RTGS

➤ The BICs in two specific elements (instructing agent and instructed agent) inside the message body provide settlement information for RTGS

➤ The BICs are found in the RTGS directory (same as for pacs.009 – see relevant slide)

24   *with codes ACSC for settled and RJCT for rejected

- FI To FI Customer Credit Transfer V08 (pacs.008.001.08)
  - Group Header
    - Message Identification
    - Creation Date Time
    - Number Of Transactions
    - Settlement Information
      - Settlement Method
      - Clearing System
  - Credit Transfer Transaction Information
    - Payment Identification
      - Instruction Identification
      - End To End Identification
      - UETR
      - Clearing System Reference
    - Payment Type Information
    - Interbank Settlement Amount
    - Interbank Settlement Date
    - Settlement Priority
    - Settlement Time Indication
    - Settlement Time Request
    - Instructed Amount
    - Exchange Rate
    - Charge Bearer
    - Charges Information

Main elements of the pacs.008 message are the following

Information needed to identify the payment can be useful for reconciliation
e.g. *EndtoEnd ID* is passed unchanged in the entire end-to-end chain (present in **camt.053** and **camt.054**)
e.g. *Instruction ID* can serve to reconcile with the **pacs.002** as it is present the *Original Instruction Identification* element.

fractionDigits: 2
totalDigits: 18
minInclusive: 0

RTGS only accepts the current business date or a future business date

2.3 Customer payments

Main elements of the **pacs.008** message

> ○ Previous Instructing Agent 1
> ○ Previous Instructing Agent 1 Account
> ○ Previous Instructing Agent 2
> ○ Previous Instructing Agent 2 Account
> ○ Previous Instructing Agent 3
> ○ Previous Instructing Agent 3 Account
> ○ Instructing Agent
> ○ Instructed Agent
> ○ Intermediary Agent 1
> ○ Intermediary Agent 1 Account
> ○ Intermediary Agent 2
> ○ Intermediary Agent 2 Account
> ○ Intermediary Agent 3
> ○ Intermediary Agent 3 Account
> ○ Ultimate Debtor
> ○ Initiating Party
> ○ Debtor
> ○ Debtor Account
> ○ Debtor Agent
> ○ Debtor Agent Account

Account BIC as provided in the **RTGS directory**
Instructing agent: BIC of the account to be debited
Instructed agent: BIC of the account to be credited

RTGS only checks that this is a valid BIC

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2.3 Customer payments

Main elements of the **pacs.008** message

> ● Creditor Agent

> ● Creditor Agent Account

> ● Creditor   →   RTGS only checks that this is a valid

> ● Creditor Account

> ● Ultimate Creditor

> ● Instruction For Creditor Agent

> ● Instruction For Next Agent

> ⌐ Purpose

> ● Regulatory Reporting

> ● Related Remittance Information

> ● Remittance Information

2.3 Customer payments

Example of **pacs.008**
(only for illustration purposes)

```xml
- <AppHdr xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.01">
    - <Fr>
        - <FIId>
            - <FinInstnId>
                    <BICFI>BCLXLULLXXX</BICFI>
                - <ClrSysMmbId>
                    - <ClrSysId>
                            <Prtry>T2</Prtry>
                        </ClrSysId>
                        <MmbId>UBCL-bcl-02</MmbId>
                    </ClrSysMmbId>
                </FinInstnId>
            </FIId>
        </Fr>
    - <To>
        - <FIId>
            - <FinInstnId>
                    <BICFI>BANKABICXXX</BICFI>
                </FinInstnId>
            </FIId>
        </To>
        <BizMsgIdr>PAY-7-499-00007810699</BizMsgIdr>
        <MsgDefIdr>pacs.008.001.08</MsgDefIdr>
        <CreDt>2021-11-15T10:50:15Z</CreDt>
    </AppHdr>
</IGXMApplicationData>
- <IGXMMessage>
    - <Document xmlns="urn:iso:std:iso:20022:tech:xsd:pacs.008.001.08" xmlns:xsi="http://'
        - <FIToFICstmrCdtTrf>
            - <GrpHdr>
                    <MsgId>PAY-7-499-00007810699</MsgId>
                    <CreDtTm>2021-11-15T11:50:15+01:00</CreDtTm>
                    <NbOfTxs>1</NbOfTxs>
                - <SttlmInf>
                        <SttlmMtd>CLRG</SttlmMtd>
                    - <ClrSys>
                            <Cd>TGT</Cd>
                        </ClrSys>
                    </SttlmInf>
                </GrpHdr>
```

2.3 Customer payments

Example of **pacs.008**
(only for illustration purposes)

```xml
- <CdtTrfTxInf>
   - <PmtId>
        <InstrId>PAY-7-499-00007810699</InstrId>
        <EndToEndId>CBT4 BCEE 1</EndToEndId>
        <UETR>81ca04f6-3640-4191-ada3-0e9b7f5d13f2</UETR>
     </PmtId>
   - <PmtTpInf>
      - <LclInstrm>
            <Prtry>CRED</Prtry>
        </LclInstrm>
     </PmtTpInf>
     <IntrBkSttlmAmt Ccy="EUR">50</IntrBkSttlmAmt>
     <IntrBkSttlmDt>2021-11-15</IntrBkSttlmDt>
     <SttlmPrty>NORM</SttlmPrty>
     <InstdAmt Ccy="EUR">50</InstdAmt>
     <ChrgBr>SHAR</ChrgBr>
   - <ChrgsInf>
        <Amt Ccy="EUR">0</Amt>
      - <Agt>
         - <FinInstnId>
               <BICFI>BCLXLULLXXX</BICFI>
           </FinInstnId>
        </Agt>
     </ChrgsInf>
   - <InstgAgt>
      - <FinInstnId>
            <BICFI>BCLXLULLXXX</BICFI>
        </FinInstnId>
     </InstgAgt>
   - <InstdAgt>
      - <FinInstnId>
            <BICFI>BANKABICXXX</BICFI>
        </FinInstnId>
     </InstdAgt>
   - <Dbtr>
        <Nm>BANQUE CENTRALE DU LUXEMBOURG</Nm>
      - <PstlAdr>
            <StrtNm>BOULEVARD ROYAL</StrtNm>
            <BldgNb>2</BldgNb>
            <PstCd>2983</PstCd>
            <TwnNm>LUXEMBOURG</TwnNm>
            <Ctry>LU</Ctry>
        </PstlAdr>
     </Dbtr>
```

Example of **pacs.008**
(only for illustration purposes)

```xml
- <DbtrAcct>
   - <Id>
        <IBAN>LUXXXXXXXXXXXXXXXXXX</IBAN>
     </Id>
  </DbtrAcct>
- <DbtrAgt>
   - <FinInstnId>
        <BICFI>BCLXLULLXXX</BICFI>
     </FinInstnId>
  </DbtrAgt>
- <CdtrAgt>
   - <FinInstnId>
        <BICFI>BANKABICXXX</BICFI>
     </FinInstnId>
  </CdtrAgt>
- <Cdtr>
        <Nm>MM DONALD</Nm>
   - <PstlAdr>
        <StrtNm>RUE DU NORD</StrtNm>
        <BldgNb>5</BldgNb>
        <PstCd>1130</PstCd>
        <TwnNm>LUXEMBOURG</TwnNm>
        <Ctry>LU</Ctry>
     </PstlAdr>
  </Cdtr>
- <CdtrAcct>
   - <Id>
        <IBAN>LUxx00xxxxxxxxxxx000</IBAN>
     </Id>
  </CdtrAcct>
- <RmtInf>
        <Ustrd>INVOICE NO. 1234 DD 10.10.2021</Ustrd>
  </RmtInf>
 </CdtTrfTxInf>
 </FIToFICstmrCdtTrf>
</Document>
```

➤ The participant can revoke an unsettled* payment OR recall a settled payment using the camt.056 – FIToFIPaymentCancellationRequest message

➤ It is possible to revoke the following payments: pacs.004, pacs.008, pacs.009 and pacs.010

➤ The participant receives a payment order revocation execution notification (camt.029) and a payment order revocation notification (pacs.002)

Example 1: Successful revocation

camt.056

camt.029

pacs.002

target services

RTGS

RTGS Account holder A

RTGS Account holder B

* queued, warehoused or earmarked

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➢ It is possible to recall the following payments: pacs.008 and pacs.009

➢ The sending participant receives in return (if subscribed to) the notification camt.029 – ResolutionOfInvestigation

➢ The participant owing the credited account receives the camt.056 and can either:

- return the payment using the pacs.004 – PaymentReturn (example 2)

- reject the recall request using a camt.029 (example 3) – see next slide

Example 2: Positive recall

* queued, warehoused or earmarked

Example 3: Negative recall

For the timelines regarding the recall/return process from a technical point of view in RTGS, please take note of the following:

- A recall can be attempted at any time after the initial payment settled

- A payment return order (pacs.004) may be done at any time after the recall request is received

- A return (pacs.004) may actually be done without a recall request, for example if the recall request did not come through RTGS

- A return (pacs.004) may be done through RTGS even if the initial payment settled through another channel

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Main elements of the **camt.056** message are the following

FI To FI Payment Cancellation Request V08 (camt.056.001.08)

- Assignment
  - Identification
  - Assigner
    - Agent
      - Financial Institution Identification
        - BICFI → Account BIC of the Instructing Agent (party who assigns the case)
  - Assignee
    - Agent
      - Financial Institution Identification
        - BICFI → Account BIC of the Instructed Agent (party to which the case is assigned)
  - Creation Date Time
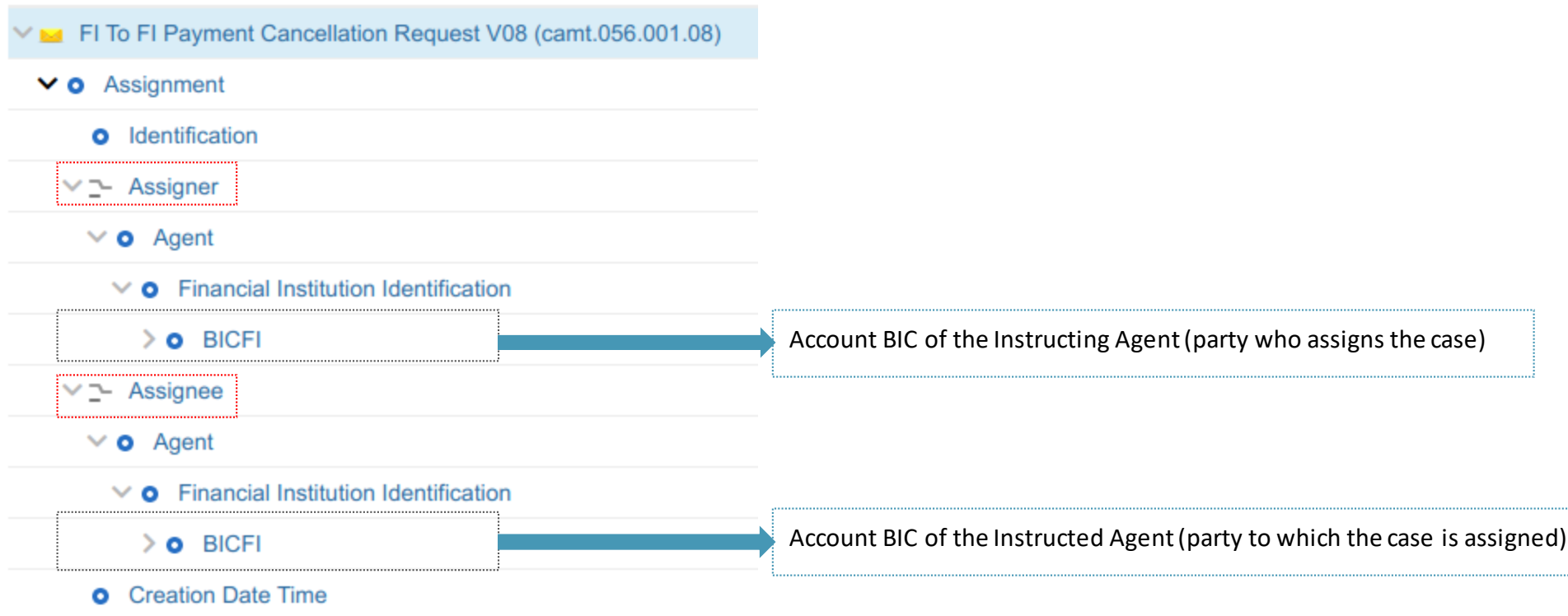
2.4 Payment cancellation and return

Main elements of the **camt.056**

- Underlying
  - Transaction Information
    - Cancellation Identification
    - Original Group Information
      - Original Message Identification → To be filled with the BizMsgIdr used in the BAH of the original payment
      - Original Message Name Identification → Message name of the original payment message
      - Original Creation Date Time
    - Original Instruction Identification
    - Original End To End Identification → To be filled with the End To End Identification of the original
    - Original UETR → Is also used for duplicate check
    - Original Clearing System Reference
    - Original Interbank Settlement Amount
    - Original Interbank Settlement Date → Amount and date of the original payment
    - Cancellation Reason Information
      - Originator
      - Reason
        - Code → Reason code as published in www.iso20022.org
        - Additional Information

Example of **camt.056**
(only for illustration purposes)

```xml
- <AppHdr xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.01">
  - <Fr>
    - <FIId>
      - <FinInstnId>
          <BICFI>BCLXLULLXXX</BICFI>
        - <ClrSysMmbId>
            <MmbId>UBCL-bcl-02</MmbId>
          </ClrSysMmbId>
        </FinInstnId>
      </FIId>
    </Fr>
  - <To>
    - <FIId>
      - <FinInstnId>
          <BICFI>BANKABICNXXX</BICFI>
        </FinInstnId>
      </FIId>
    </To>
    <BizMsgIdr>xxxyUNW4ziSpWhA</BizMsgIdr>
    <MsgDefIdr>camt.056.001.08</MsgDefIdr>
    <CreDt>2021-11-02T08:02:01Z</CreDt>
  </AppHdr>
```

Example of **camt.056**
(only for illustration purposes)

```xml
- <Document xmlns="urn:iso:std:iso:20022:tech:xsd:camt.056.001.08">
  - <FIToFIPmtCxlReq>
    - <Assgnmt>
        <Id>NONREF</Id>
      - <Assgnr>
        - <Agt>
          - <FinInstnId>
              <BICFI>BCLXLULLXXX</BICFI>
            </FinInstnId>
          </Agt>
        </Assgnr>
      - <Assgne>
        - <Agt>
          - <FinInstnId>
              <BICFI>BANKABICXXX</BICFI>
            </FinInstnId>
          </Agt>
        </Assgne>
        <CreDtTm>2021-10-26T08:00:49+02:00</CreDtTm>
      </Assgnmt>
    - <Undrlyg>
      - <TxInf>
        - <OrgnlGrpInf>
            <OrgnlMsgId>PAY-7-187-00007810554</OrgnlMsgId>
            <OrgnlMsgNmId>pacs.009.001.08CORE</OrgnlMsgNmId>
            <OrgnlCreDtTm>2021-10-25T08:00:49+02:00</OrgnlCreDtTm>
          </OrgnlGrpInf>
          <OrgnlEndToEndId>CBT4 PAYM DEV RTGS 33 3b</OrgnlEndToEndId>
          <OrgnlUETR>4116d47e-f81d-4f3f-ac75-b890c2be3ca5</OrgnlUETR>
          <OrgnlIntrBkSttlmAmt Ccy="EUR">26</OrgnlIntrBkSttlmAmt>
          <OrgnlIntrBkSttlmDt>2021-10-25</OrgnlIntrBkSttlmDt>
        - <CxlRsnInf>
          - <Orgtr>
              <Nm>Banque centrale du Luxembourg</Nm>
            - <Id>
              - <OrgId>
                  <AnyBIC>BCLXLULLXXX</AnyBIC>
                </OrgId>
              </Id>
            </Orgtr>
          - <Rsn>
              <Cd>CUST</Cd>
            </Rsn>
          </CxlRsnInf>
        </TxInf>
      </Undrlyg>
    </FIToFIPmtCxlReq>
  </Document>
```

2.4 Payment cancellation and return

Payment Return V09 (pacs.004.001.09)
- Group Header
  - Message Identification
  - Creation Date Time
  - Number Of Transactions
  - Settlement Information
- Transaction Information
  - Return Identification
  - Original Group Information
    - Original Message Identification
    - Original Message Name Identification
    - Original Creation Date Time
  - Original Instruction Identification
  - Original End To End Identification
  - Original UETR
  - Original Clearing System Reference

Main elements of the **pacs.004** message are the following

Original Group Information → Information on the original message

Original Message Identification → To be filled with the BizMsgIdr used in the BAH of the original payment

Original Message Name Identification → To be filled with the MsgDefIdr used in the BAH of the original payment

Original Instruction Identification → To be filled with InstructionId from the original payment

Original UETR → Is also used for duplicate check

2.4 Payment cancellation and return

Main elements of the pacs.004

Element	Description
Original Interbank Settlement Amount	Amount of the original message
Original Interbank Settlement Date	Date of the original message
Returned Interbank Settlement Amount	Amount relevant for settlement in RTGS
Interbank Settlement Date	
Settlement Priority	
Settlement Time Indication	
Returned Instructed Amount	
Exchange Rate	
Compensation Amount	
Charge Bearer	
Charges Information	
Clearing System Reference	
Instructing Agent	BIC of the account to be debited
Instructed Agent	BIC of the account to be credited
Return Chain	
Return Reason Information	
Originator	
Reason	
Code	Reason code as published in www.iso20022.org
Additional Information	

Example of **pacs.004**
(only for illustration purposes)

```xml
- <AppHdr xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.01">
  - <Fr>
    - <FIId>
      - <FinInstnId>
          <BICFI>BCLXLULLXXX</BICFI>
        - <ClrSysMmbId>
          - <ClrSysId>
              <Prtry>T2</Prtry>
            </ClrSysId>
            <MmbId>UBCL-bcl-02</MmbId>
          </ClrSysMmbId>
        </FinInstnId>
      </FIId>
    </Fr>
  - <To>
    - <FIId>
      - <FinInstnId>
          <BICFI>BANKABICXXX</BICFI>
        </FinInstnId>
      </FIId>
    </To>
    <BizMsgIdr>Pacs.004-2110041355450488377</BizMsgIdr>
    <MsgDefIdr>pacs.004.001.09</MsgDefIdr>
    <CreDt>2021-10-04T11:55:45Z</CreDt>
  </AppHdr>
```

Example of **pacs.004**
(only for illustration purpose

```xml
- <Document xmlns="urn:iso:std:iso:20022:tech:xsd:pacs.004.001.09" xmlns:xsi="http://www.w3
  - <PmtRtr>
    - <GrpHdr>
        <MsgId>Pacs.004-2110041355450488377</MsgId>
        <CreDtTm>2021-10-04T13:55:45+02:00</CreDtTm>
        <NbOfTxs>1</NbOfTxs>
      - <SttlmInf>
          <SttlmMtd>CLRG</SttlmMtd>
        - <ClrSys>
            <Cd>TGT</Cd>
          </ClrSys>
        </SttlmInf>
    </GrpHdr>
    - <TxInf>
        <RtrId>21277135545488000000-NONREF</RtrId>
      - <OrgnlGrpInf>
          <OrgnlMsgId>64639</OrgnlMsgId>
          <OrgnlMsgNmId>pacs.008.001.08</OrgnlMsgNmId>
        </OrgnlGrpInf>
        <OrgnlInstrId>SW1603003283564-CBT4</OrgnlInstrId>
        <OrgnlEndToEndId>PaymDEVRTGS 1 CdtrAgt CCRA Cdtr Nm</OrgnlEndToEndId>
        <OrgnlUETR>63160b0a-8a97-46f6-8e48-eaf6560eab76</OrgnlUETR>
        <OrgnlClrSysRef>16309</OrgnlClrSysRef>
        <OrgnlIntrBkSttlmAmt Ccy="EUR">960</OrgnlIntrBkSttlmAmt>
        <OrgnlIntrBkSttlmDt>2021-10-04</OrgnlIntrBkSttlmDt>
        <RtrdIntrBkSttlmAmt Ccy="EUR">960</RtrdIntrBkSttlmAmt>
        <IntrBkSttlmDt>2021-10-04</IntrBkSttlmDt>
      - <SttlmTmIndctn>
          <CdtDtTm>2021-10-04T13:55:45+02:00</CdtDtTm>
        </SttlmTmIndctn>
      - <InstgAgt>
        - <FinInstnId>
            <BICFI>BCLXLULLXXX</BICFI>
          </FinInstnId>
        </InstgAgt>
      - <InstdAgt>
        - <FinInstnId>
            <BICFI>BANKABICXXX</BICFI>
          </FinInstnId>
        </InstdAgt>
```

Example of **pacs.004**
(only for illustration purposes

```xml
- <RtrChain>
    - <Dbtr>
        - <Pty>
            <Nm>BANQUE CENTRALE DU LUXEMBOURG</Nm>
            - <PstlAdr>
                <StrtNm>BOULEVARD ROYAL</StrtNm>
                <BldgNb>2</BldgNb>
                <PstCd>2983</PstCd>
                <TwnNm>LUXEMBOURG</TwnNm>
                <Ctry>LU</Ctry>
            </PstlAdr>
        </Pty>
    </Dbtr>
    - <DbtrAgt>
        - <FinInstnId>
            <BICFI>BCLXLULLXXX</BICFI>
        </FinInstnId>
    </DbtrAgt>
    - <CdtrAgt>
        - <FinInstnId>
            <BICFI>BANKCBICXXX</BICFI>
        </FinInstnId>
    </CdtrAgt>
    - <Cdtr>
        - <Pty>
            <Nm>XXXXXX AG</Nm>
            - <PstlAdr>
                <StrtNm>SEMPACHERSTRASSE</StrtNm>
                <BldgNb>100</BldgNb>
                <PstCd>7032</PstCd>
                <TwnNm>ZURICH</TwnNm>
                <Ctry>CH</Ctry>
            </PstlAdr>
        </Pty>
    </Cdtr>
</RtrChain>
- <RtrRsnInf>
    - <Rsn>
        <Cd>AG01</Cd>
    </Rsn>
    <AddtlInf>Account not applicable - use correct and direct RTGS Party BIC in the InstdAgt field</AddtlInf>
</RtrRsnInf>
</TxInf>
</PmtRtr>
</Document>
```
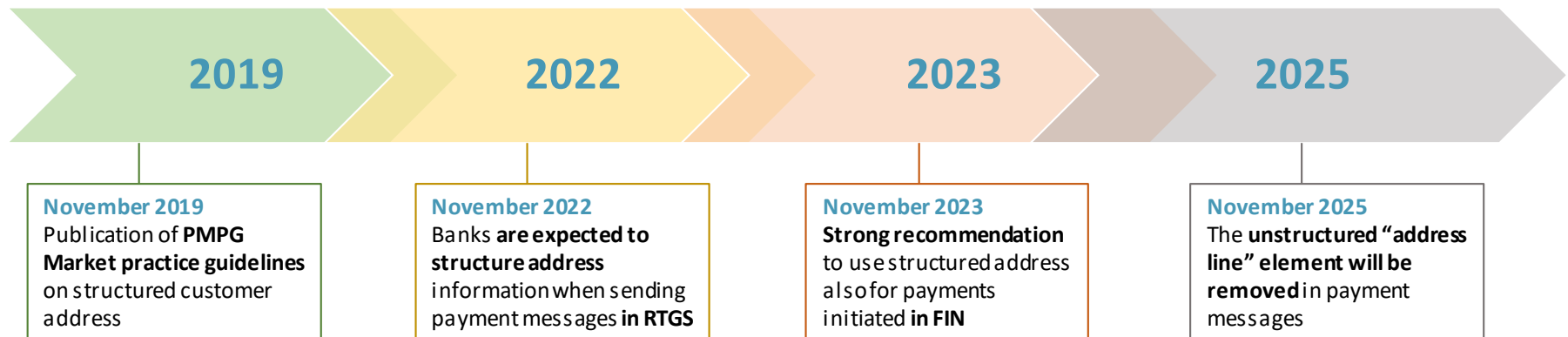
2. Main messages in RTGS
2.5 Structured address

➢ One of the benefits of migrating to ISO 20022 is the introduction of structured address information for debtor and creditor in payment messages

➢ However, to insure interoperability during the co-existence phase of ISO20022 MX and FIN MT messages a staggered approach has been followed.

2019	2022	2023	2025
November 2019 Publication of **PMPG Market practice guidelines** on structured customer address	**November 2022** Banks **are expected to structure address** information when sending payment messages **in RTGS**	**November 2023** **Strong recommendation** to use structured address also for payments initiated **in FIN**	**November 2025** The **unstructured "address line" element will be removed** in payment messages

➢ We strongly recommend you to use structured address information in payment messages in RTGS as of T2 go-live in November 2022

Thank you for your attention!

Any questions **?**

All documents available under:

https://www.ecb.europa.eu/paym/target/consolidation/profuse/html/index.en.html

RTGS UDFS Chapter 12 List of messages including links to T2 guidelines in MyStandards

BANQUE CENTRALE DU LUXEMBOURG
EUROSYSTÈME