ISO 20022

T2-T2S Consolidation - Calendar Reference Data

Message Definition Report Part 1

Approved by the Securities and Payments SEG under the leadership of the Securities SEG

This document provides information about the use of the candidate messages for T2-T2S Consolidation - Calendar Reference Data messages and includes, for example, business transactions and examples.

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Preliminary Note

The Message Definition Report (MDR) is made of three parts:

MDR Part 1

This describes the contextual background required to understand the functionality of the proposed message set. Part 1 is produced by the submitting organization that developed or maintained the message set in line with an MDR Part 1 template provided by the ISO 20022 Registration Authority (RA) on [www.iso20022.org](http://www.iso20022.org).

MDR Part 2

This is the detailed description of each message definition of the message set. Part 2 is produced by the RA using the model developed by the submitting organization.

MDR Part 3

This is an extract if the ISO 20022 Business Model describing the business concepts used in the message set. Part 2 is an Excel document produced by the RA.

# Introduction

## Terms and Definitions

The following terms are reserved words defined in ISO 20022 Edition 2013 – Part1. When used in this document, the UpperCamelCase notation is followed.

| Term | Definition |
| --- | --- |
| BusinessRole | Functional role played by a business actor in a particular BusinessProcess or BusinessTransaction. |
| Participant | Involvement of a BusinessRole in a BusinessTransaction. |
| BusinessProcess | Definition of the business activities undertaken by BusinessRoles within a BusinessArea whereby each BusinessProcess fulfils one type of business activity and whereby a BusinessProcess may include and extend other BusinessProcesses. |
| BusinessTransaction | Particular solution that meets the communication requirements and the interaction requirements of a particular BusinessProcess and BusinessArea. |
| MessageDefinition | Formal description of the structure of a message instance. |

1. When a MessageDefinition or message identifier is specified, it should include the variant and version number. However, in this document (except in the business examples section, if present), variant and version numbers are not included. In order to know the correct variant and version number for a MessageDefinition, the related Message Definition Report Part 2 document should be consulted.

## Abbreviations and Acronyms

The following is a list of abbreviations and acronyms used in the document.

| Abbreviation/Acronyms | Definition |
| --- | --- |
| 4CB | Banca d’Italia, Banque de France, Deutsche Bundesbank and Banco d’España |
| ACH | Automated Clearing House |
| A2A | Application-to-Application mode. Defines a mode of technical communication that permits the exchange of information between software applications and a directly connected actor. |
| BAH/head.001 | Business Application Header |
| BIC | Business Identifier Code |
| CeBM | Central Bank Money |
| ID | Identification |
| MDR | Message Definition Report |
| NCB | National Central Bank |
| RTGS | Real-time gross settlement (RTGS) system.  A settlement system in which processing and settlement take place in real-time on a gross basis. |
| SEG | Standards Evaluation Group |
| TM | Technical Message. Messages which cover technical functions within the System |
| U2A | User-to-Application mode. Defines a mode of technical communication that permits the exchange of information between software applications and a system user through a graphical user interface (GUI). |
| URD | T2-T2S Consolidation User Requirement Document |
| XML | eXtensible Mark-up language |

## Document Scope and Objectives

This document is the first part of the T2-T2S Consolidation - Calendar Reference Data Message Definition Report (MDR) that describes the BusinessTransactions and underlying message set. For the sake of completeness, the document may also describe BusinessActivities that are not in the scope of the business processes covered in this document.

This document describes the following:

* the BusinessProcess scope
* the BusinessRoles involved in these BusinessProcesses

The main objectives of this document are as follows:

* to provide information about the messages that support the business processes
* to explain the BusinessProcesses and BusinessActivities these messages have addressed
* to give a high level description of BusinessProcesses and the associated BusinessRoles
* to document the BusinessTransactions
* to provide business examples

The messages definitions are specified in Message Definition Report Part 2.

## References

| Document | Version | Date | Author |
| --- | --- | --- | --- |
| ISO 20022 Business Justification #141 – Eurosystem Market Infrastructure Platform (EMIP) | 1.0 | 31-12-2018 | 4CB |
| T2-T2S Consolidation User Requirements (URD)  https://www.ecb.europa.eu/paym/target/consolidation/profuse/html/index.en.html | 2.2 | 01-04-2021 | ECB |

# Scope and Functionality

## Background

This Message Definition Report covers a set of 2 ISO 20022 Calendar Reference Data Message Definitions developed by Banca d’Italia on behalf of 4CB in close collaboration with SWIFT and submitted to the approval of the Securities Standards Evaluation Group (SEG).

Originally, these messages have been designed to support the T2-T2S community for reference data management. The aim of the T2-T2S consolidation project is to consolidate and optimise the provision of the TARGET2 and T2S services and to address the increasing demand for having an effective facility for the provision of liquidity to existing and future Eurosystem payment and settlement services.

The detailed description of each MessageDefinition is provided in Message Definition Report Part 2.

## Scope

The candidate Calendar messages are specifically designed to support the query and the report of the calendar reference data.

## Groups of MessageDefinitions and Functionality

1. These messages are to be used with the ISO 20022 Business Application Header (head.001). The schema and more information about the Business Application Header (BAH) can be found on the www.iso20022.org web site

### Groups

#### Calendar Reference Data message

| MessageDefinition | Message Identifier |
| --- | --- |
| * Calendar Query | reda.064 |
| * Calendar Report | reda.065 |

The calendar reference data messages are specifically designed to support the following functions:

* Calendar Query (reda.064) is sent by an authorised party to query on calendar reference data.  
    
  Depending on the query criteria, it is possible that the processing will take more than a certain time or that the query will not retrieve any record. In this case, an error is sent to the Instructing Party within the Calendar Report (reda.065);   
    
  Search criteria include the following elements:
* Year;
* Month;
* Service, for the specification of the service for which the query must be executed, with the currency details.

Calendar Report (reda.065) is sent to the Instructing Party and includes all of the calendar records that meet the specified criteria or reports any possible error (e.g. not allowed set of search criteria).  
  
The Calendar Report is capable to report any piece of information related to a calendar, including date, the related system status and service and currency to which calendar information are referred to.

### Functionality

See Message Definition Report Part 2 for the message and formats.

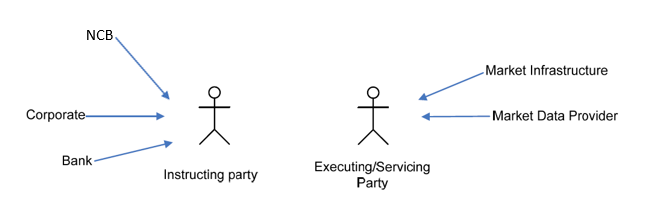
# BusinessRoles and Participants

A BusinessRole represents an entity (or a class of entities) of the real world, physical or legal, a person, a group of persons, a corporation. Examples of BusinessRoles: “Financial Institution”, “Automated Clearing House”.

A Participant is a functional role performed by a BusinessRole in a particular BusinessProcess or BusinessTransaction. Examples of Participants: the “user” of a system, “debtor”, “creditor”, “investor”.

The relationship between BusinessRoles and Participants is many-to-many. One BusinessRole can be involved as different Participants at different moments in time or at the same time. Examples of BusinessRoles: "user", "debtor”, "creditor", "investor". Different BusinessRoles can be involved as the same Participant.

In the context of Calendar, the high-level BusinessRoles and typical Participants can be represented as follows:



## Participants and BusinessRoles Definitions

Participants

| Description | Definition |
| --- | --- |
| Instructing Party | Party that instructs the executing/servicing party to process and monitor a transaction. |
| Executing/Servicing Party | Party that processes, monitors and reports on transactions received from the Instructing party. |

Business Roles

| Description | Definition |
| --- | --- |
| National Central Bank (NCB) | The principal monetary authority of a nation, a central bank performs several key functions, including issuing currency and regulating the supply of credit in the economy. |
| Bank | A business establishment in which money is kept for saving or commercial purposes or is invested, supplied for loans, or exchanged. A bank is licensed by a government. Its primary activity is to lend money.  A bank do most or all of the following: receives demand deposits and time deposits, honors instruments drawn on them, and pays interest on them; discounts notes, makes loans, and invests in securities; collects checks, drafts, and notes; certifies depositor's checks; and issues drafts and cashier's checks. |
| Corporate | Most common form of business organization, and one which is chartered by a state and given many legal rights as an entity separate from its owners. This form of business is characterized by the limited liability of its owners, the issuance of shares of easily transferable stock, and its existence as a going concern. |
| Market Infrastructure | Party that provides, through common membership, services to create a fair and open process for the execution of transactions between trading parties and the creation of settlement obligations. |
| Market Data Provider | An organization that provides data on financial instruments to other parties. |

## BusinessRoles and Participants Table

| BusinessRole | Participant  Instructing Party | Participant  Executing/Servicing Party |
| --- | --- | --- |
| NCB | X |  |
| Bank | X |  |
| Corporate | X |  |
| Market Infrastructure |  | X |
| Market Data Provider |  | X |

# BusinessProcess Description

This diagram represents the high level BusinessProcesses, used to describe the high-level scope of “Calendar Reference Data” and is not to be exhaustive.



Query

| Item | Description |
| --- | --- |
| Definition | The Instructing Party asks the Executing/Servicing Party a response to a query. |
| Trigger | The process is triggered when the Instructing Party sends a Calendar Query message. |
| Pre-conditions | The query type must be known by the Instructing party and the Executing/Servicing Party. |
| Post-conditions | The Calendar Report message including all of the retrieved calendar records. |
| Role | Instructing Party |

# Description of BusinessActivities

This section presents the different BusinessActivities within each BusinessProcess. The BusinessActivities of a process are described with activity diagrams.

Legend

| Symbol | Name | Definition |
| --- | --- | --- |
|  | Start Point | Shows where the lifecycle of the business process commences. |
|  | End Point | Shows where the lifecycle of the business process may ends. |
|  | Lozenge (or diamond) | Indicates that a choice between several actions can be made. |
|  | Bar | Indicates that several actions are initiated in parallel. |

## Query/Query Response Process



| Step | Description | Initiator |
| --- | --- | --- |
| Instruction | Instructing Party instructs Executing/Servicing Party to run a query. | Instructing Party |
| Process query | Executing/Servicing Party processes the request.  In case the processing of the query takes too much time or cannot give any positive response, the Executing/Servicing Party sends an error message back to the Instructing Party with the error code and the related explanation. | Executing/Servicing Party |
| Response | Executing/Services Party sends the response to the Instructing Party according to query results. | Executing/Servicing Party |
| Monitor Process | Instructing Party monitors the status of the instruction. | Instructing Party |

# BusinessTransactions

This section describes the message flows based on the activity diagrams documented above. It shows the typical exchanges of information in the context of a BusinessTransaction.

## Query/Response Process

### Calendar Query/Calendar Report Scenario



Calendar Query (reda.064)

***Query/Report Process***

Calendar Report (reda.065): ERROR

Calendar Report (reda.065)

Calendar Query

The Instructing Party sends an instruction to the Executing/Servicing Party to run a query according to specified criteria.

Calendar Report

Depending on the query criteria, it is possible that the processing will take more than a certain time or that the result of the query will be empty due to wrong combination of criteria or no result set. In this case, an error message within a query response message is sent to the Instructing Party.

Calendar Report

The Executing/Servicing Party sends a query response that meets the specified criteria to the Instructing Party.

# Business Examples

This section describes business examples of the use of the various candidate MessageDefinitions.

## Calendar Query - reda.064.001.02

Description

In this example the calendar for December 2018 and the service "RTGS" for currency EUR is requested.

Message Instance

<Document>

<CalQry>

<MsgHdr>

<MsgId>NONREF</MsgId>

</MsgHdr>

<SchCrit>

<Yr>2018</Yr>

<Mnth>--12</Mnth>

<Svc>

<SysId>

<MktInfrstrctrId>

<Prtry>RTGS</Prtry>

</MktInfrstrctrId>

</SysId>

<SysCcy>EUR</SysCcy>

</Svc>

</SchCrit>

</CalQry>

</Document>

## 

## Calendar Report - reda.065.001.02

Description

In this example, the calendar for December 2018 for service "RTGS" and currency EUR is reported.

Message Instance

<Document>

<CalRpt>

<MsgHdr>

<MsgId>NONREF</MsgId>

<OrgnlBizQry>

<MsgId>MSGID0000100</MsgId>

</OrgnlBizQry>

</MsgHdr>

<RptOrErr>

<CalRpt>

<Svc>

<SysId>

<MktInfrstrctrId>

<Prtry>RTGS</Prtry>

</MktInfrstrctrId>

</SysId>

<SysCcy>EUR</SysCcy>

</Svc>

<CalOrErr>

<CalData>

<SysDt>2018-12-01</SysDt>

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</CalData>

</CalOrErr>

</CalRpt>

</RptOrErr>

</CalRpt>

</Document>

# Revision Record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Revision | Date | Author | Description | Sections affected |
| 1.0 | 30-09-2021 | Mancini, Sarcinelli, Pernisco (BDI, 4CB) | First draft | all |
| 2.0 | 11-02-2022 | ISO 20022 RA | Approved version | Cover page, footers |
| 3.0 | 05-04-2023 | ISO 20022 RA | Registered as v02 messages upon request from 4CB. | Cover page, footers, samples updates to v02 |
|  |  |  |  |  |
|  |  |  |  |  |

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