



Instant Payments Implementation Guidelines for ISO 20022 Interbank Messages

SIC IP Service

IP Participant Information (reda.015/reda.017)

Version 2.1, valid from November 2023

Change history

All the changes carried out in this document are listed below with the version designation, the change date, a brief description of the change and the specification of the chapters affected.

Version	Date	Description of the change	Chapter
2.1	31.03.2023	Update, valid from November 2023	
		Modification of the format of the message identification in the element <i>...MsgHdr/MsgId</i> of the reda.017 message (extension of the random number from 8 to 27 digits, total length new 35 digits)	3.4.2 4.2.1
		New chapter "Query criteria in the "Party Query" (reda.015)" (due to new search criterion "Validity date" in the element <i>.../SchCrit/OpngDt</i> of the reda.015 message)	3.5 4.1.2
		Modification of the definition for "Valid From Date" in the element <i>.../PtyOrErr/SysPty/OpngDt</i> of the reda.017 message (for transaction type IPPTQY either the date of the current or the next clearing day is now delivered)	3.6.1 4.2.3
		New error code "NRSLT" in the element <i>.../OprlErr/Err/Prtry</i> of the reda.017 message	3.6.2 4.2.3
		Correction of the mentioned code value in the definition of the element <i>.../PtyOrErr/SysPty/ClsgDt</i> (DELT instead of CONC, alignment with correct definition in Table 6)	4.2.3
2.0	20.10.2022	Editorial update to the final document version, valid from November 2023 (removal of the annotation "Stable working version", no functional changes)	
1.0	31.03.2022	First edition (stable working version)	All

Table 1: Change history

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1 Introduction

1.1 Overview of the documentation structure

The Instant Payments Implementation Guidelines (IG) consist of several module documents – one each per ISO 20022 message type, e.g. this document for the message types "reda.015" and "reda.017" – with message-specific information, including information on the application-specific handling of individual elements. They specify the messages to be submitted to and delivered from the SIC IP service in the ISO 20022 message standard.

This Implementation Guideline is part of the specifications required for the operation of the SIC IP service and describes the use of the ISO 20022 "reda.015" and "reda.017" messages for the start of the SIC IP service as of November 2023.

1.2 Target audience

The "Instant Payments Implementation Guidelines for ISO 20022 Interbank Messages" are addressed to all participants of the SIC IP service.

1.3 Change control

All modifications made to this document are listed in the change history (Table 1) showing the version, the date of the change, a brief description and references to the chapters concerned.

1.4 XML schemas

The XML schemas for "reda.015" and "reda.017" for the SIC IP service are published at gate.sic.ch/cug/en/home/projects/sic5.html on the SIX Interbank Clearing Ltd extranet:

- *reda.015.001.01.ch.01.xsd*
- *reda.017.001.01.ch.01.xsd*

They should preferably be opened using specialized XML software.

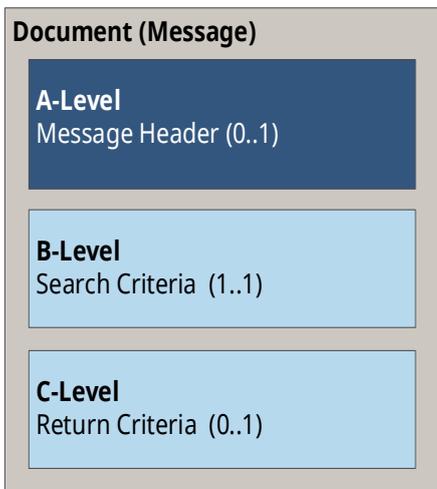
1.5 Reference documents

Information about participation in and the functionality of the SIC IP service can be found in the "**SIC IP Service Handbook**".

2 ISO definitions

The query message "PartyQuery" (reda.015) is sent by the participant as an "IP participant query" to the SIC IP service to obtain a list of all participants of the SIC IP service. It is used on the basis of the ISO-20022 XML schema "reda.015.001.01".

In response to the "reda.015" query message, the SIC IP service always sends the "PartyReport" (reda.017) message as an "IP participant delivery" back to the participant. In addition, the "reda.017" message is also used in an "IP participant change message" by the SIC IP service to advise about changes in the participant list as of the next clearing day. It is used on the basis of the ISO 20022 XML schema "reda.017.001.01".



The "reda.015" message is essentially structured as follows:

- **A-level:** "Message Header" element.
This block can occur 0..1 times in the ISO definition. This block must occur exactly once in the SIC IP service.
- **B-level:** "Search Criteria" element.
This block must occur exactly once.
- **C-level:** "Return Criteria" element.
This block is not used in the SIC IP service.

Figure 1: Basic message structure of the "reda.015" message



The "reda.017" message is essentially structured as follows:

- **A-level:** "Message Header" element.
This block can occur 0..1 times in the ISO definition. This block must occur exactly once in the SIC IP service.
- **B-level:** "Report or Error" element.
This block must occur exactly once.
- **C-level:** Report level, consisting of either the "Party Report" block element (can occur more than once) or the "Operational Error" block element (can occur at most once in the SIC IP service in the query response).

Figure 2: Basic message structure of the "reda.017" message

3 Business specifications

3.1 Message flows

3.1.1 Message flow for the "IP participant query / IP participant delivery"

In the "IP participant query/IP participant delivery" use case, the "reda.015" message is used by the participant to request a list of all participants of the SIC IP service. The query message is always answered by the SIC IP service with the "reda.017" message. This message contains either the entire current IP short master data or an error message.

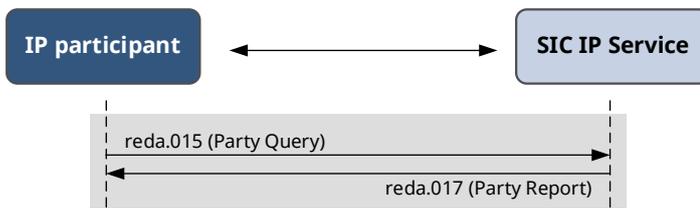


Figure 3: Message flow for the IP participant query / IP participant delivery messages

3.1.2 Message flow for the "IP participant change message"

In the "IP participant change message" use case, receipt of the "reda.017" message by the IP participant must always be acknowledged with a "camt.025" message back to the SIC IP service.

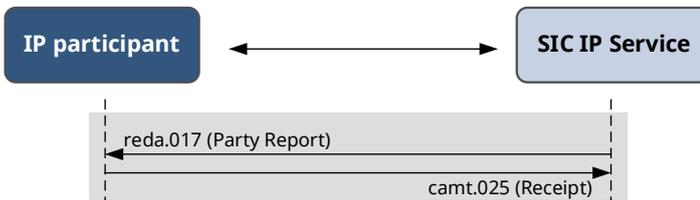


Figure 4: Message flow for the IP participant change message

Note:

An "IP participant change message" is only generated if there are relevant changes for the next clearing day of the SIC IP service.

3.2 Use cases

The "Party Query" and "Party Report" messages are used in the following use cases in the SIC IP service:

Use case	Input/Output	ISO 20022
IP participant query / IP participant delivery	I/O	reda.015/reda.017
IP participant change message	I	reda.017

Table 2: Use cases for the ISO 20022 "reda.015" and "reda.017" message types

3.3 Transaction types

The following transaction types are available:

Limit type	Code value
IP participant query / IP participant delivery	IPPTQY
IP participant change message	IPPTCM

Table 3: List of transaction types and their codes in the "reda.015" and "reda.017" messages

To allow for correct, transaction type-specific definition and validation, a corresponding code value is provided in both messages.

The identification of the transaction type in the "reda.015" message is provided as a code value in the `.../MsgHdr/ReqTp/Prtry/SchmeNm` element.

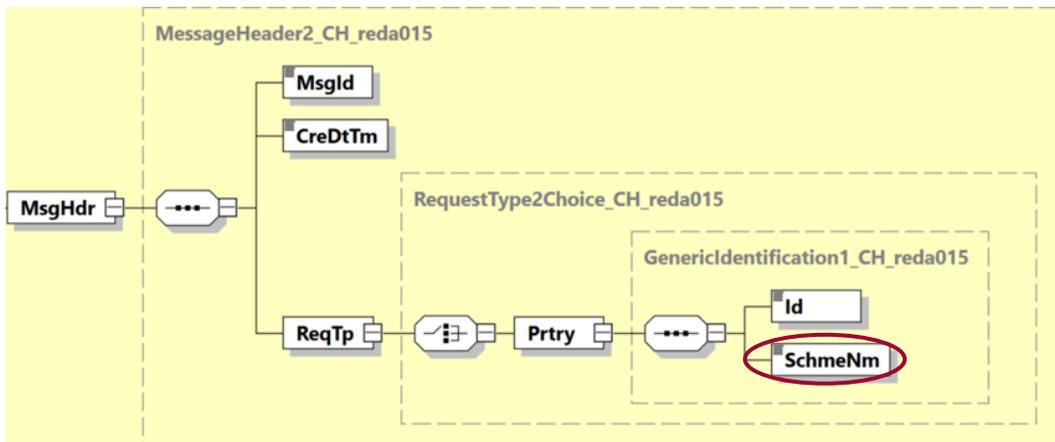


Figure 5: Specifying the transaction type in the "reda.015" message

The identification of the transaction type in the "reda.017" message is provided as a code value in the `.../MsgHdr/QryNm` element.

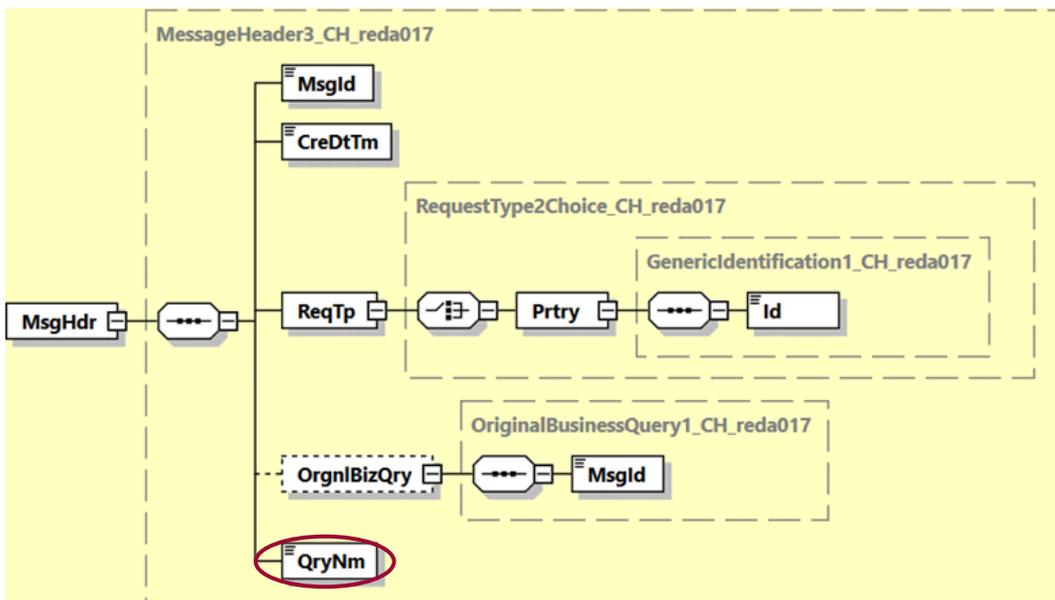


Figure 6: Specifying the transaction type in the "reda.017" message

Message identification of the query message in the "Original Business Query" element

In the "reda.017" response message of the "IP participant query / IP participant delivery" use case (transaction type IPPTQY), the message identification of the original "reda.015" query message is returned in the .../OrgnlBizQry/MsgId element.

In the "IP participant change message" use case (transaction type IPPTCM), this element is not present.

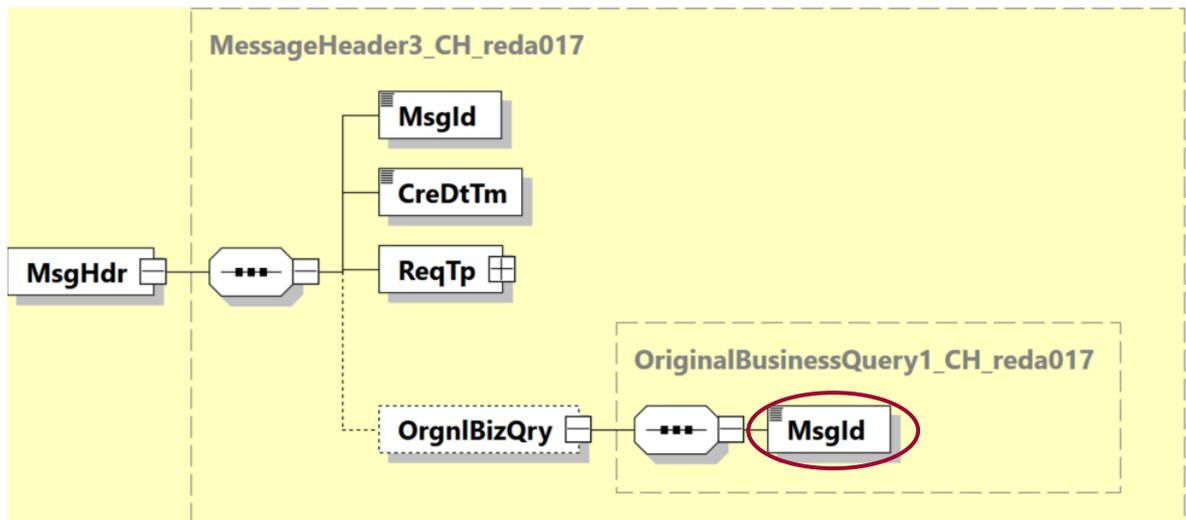


Figure 9: Message Identification of the query message inside the "reda.017" message

3.5 Query criteria in the "Party Query" (reda.015)

Query criteria are specified in the B-level of the "reda.015" message in the .../SchCrit element.

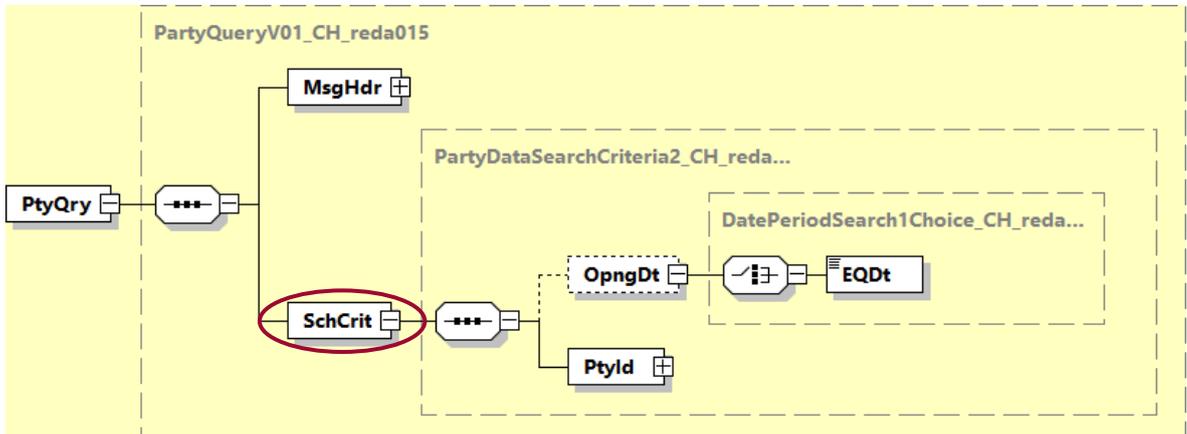


Figure 10: Specifying the query's Search Criteria in the "reda.015" message (Search Criteria)

Element	Description
<OpngDt>	Search criteria about the validity date
<PtyId>	Search criteria about the querying participant

Table 4: Query criteria in the "reda.015" message

- The search criterion for the validity date can optionally be used to query either the valid participant identifications of the current or the next clearing day. If this search criterion is not used, the response message "reda.017" always returns the participant identifications of the current clearing day that are valid at the time of the query.
- The search criterion for the querying participant must always be submitted for the purpose of authorization checking but has no influence on the results in the response message "reda.017".

3.6 Use of the "Report Or Error" block (reda.017)

For transaction type IPPTQY, the query result is delivered in the *PtyRpt/RptOrErr* element as follows:

- Participant details for the entire IP short master data are delivered in multiple repetitions of the *PtyRpt/RptOrErr/PtyRpt* element.
- If an error occurred during the query, the error information is supplied in the *PtyRpt/RptOrErr/OprlErr* element.

For transaction type IPPTCM, the report content is delivered in the *PtyRpt/RptOrErr* element as follows:

- Information about altered participant identifications are supplied in multiple repetitions of the *PtyRptRptOrErr/PtyRpt* element.
- The *PtyRpt/RptOrErr/OprlErr* element is not used.

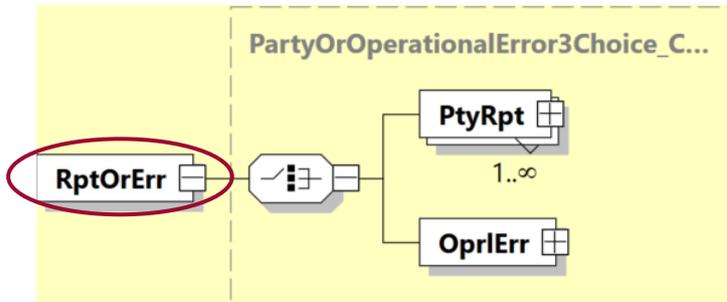


Figure 11: Report or error information in the "reda.017" message (RptOrErr)

3.6.1 Participant information in the "Party Report" element

Participant information from the IP short master data source is sent in the *PtyRpt/RptOrErr/PtyRpt* element:

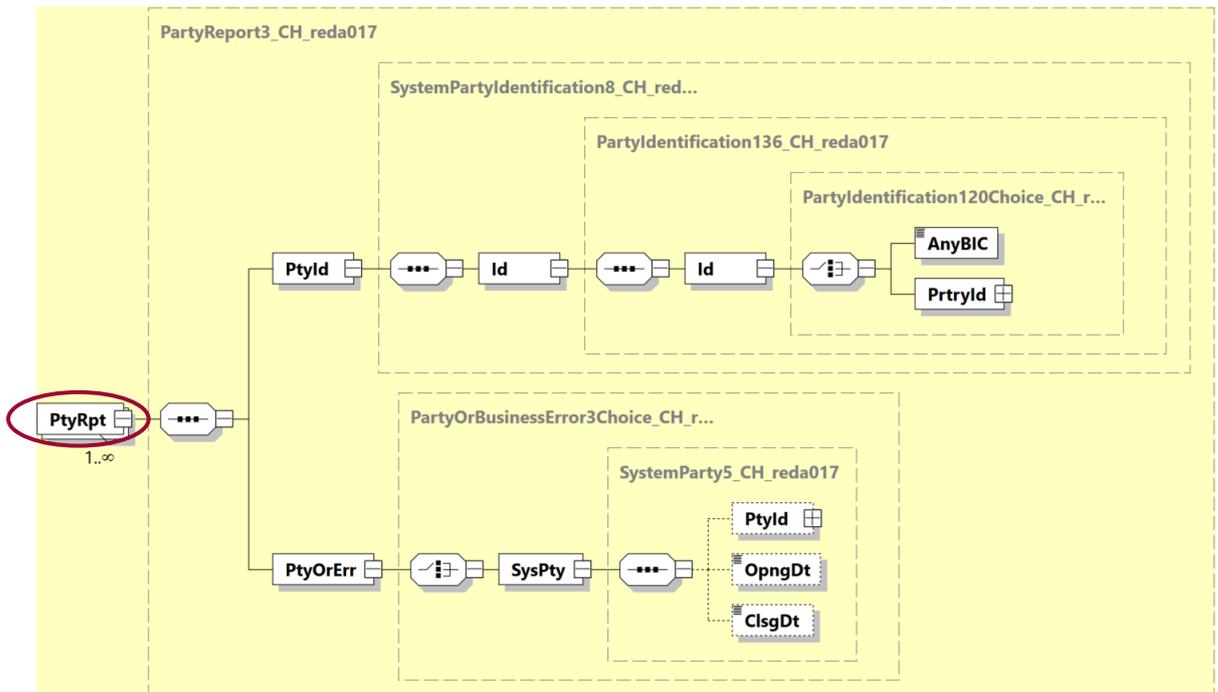


Figure 12: Results in the "reda.017" message (PtyRpt)

- The PtyRpt/PtyId/Id/Id/PrtryId/Id element contains the SIC IID of one IP participant.
- In addition, the PtyRpt/PtyId/Id/Id/PrtryId/SchmeNm element is populated with the status of that SIC IID as a code. The following code values are defined:

Code value	Status	Transaction types
ACTV	Active	IPPTQY and IPPTCM
CONC	Concatenated	IPPTQY and IPPTCM
DELT	Deleted	IPPTCM

Table 5: Status codes in the "reda.017" message (SchmeNm)

- The PtyRpt/PtyOrErr/SysPty element provides additional information about the SIC IID:

Sub-element	Description
.../PtyId/Id/Id/PrtryId/Id	SIC IID of the participant (concatenation destination) Only used for status codes CONC or DELT (= deletion of a concatenated SIC IID).
.../OpngDt	Valid from date Used with status codes ACTV/CONC and contains the validity date of that SIC IID. For transaction type IPPTQY, depending on the use of the query criterion <OpngDt> in the query message "reda.015", either the date of the current or the next clearing day is always delivered. For transaction type IPPTCM, the date of the next clearing day is always delivered.
.../ClsgDt	Valid to date Used exclusively for status code DELT and contains the deletion date of the SIC IID.

Table 6: Additional information in the "reda.017" message (SysPty)

3.6.2 Error information in the "Operational Error" element

In case of an incorrect query of the IPPTQY transaction type, an error code is supplied in the response message in the `.../OprlErr/Err/Prtry` element:

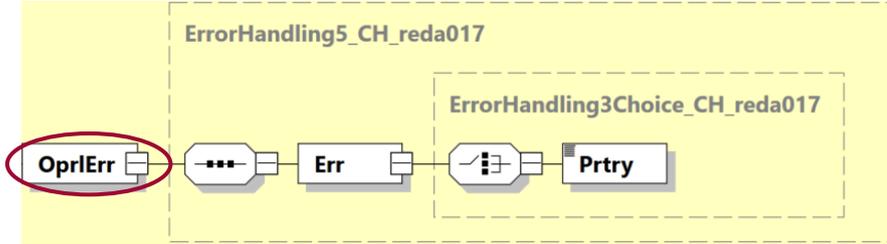


Figure 13: Error information in the "reda.017" message (OprlErr)

The following codes are defined:

Code value	Event
NRSLT	No data matching the query criteria was found
NAUTH	Query is not permitted
QYINV	Invalid query criteria

Table 7: Error codes in the query response in the "reda.017" message (OprlErr)

4 Technical specifications

4.1 "Party Query" message (PtyQry, reda.015)

4.1.1 Message Header (MsgHdr, A-level)

The "Message Header" block (A-level of the message) occurs exactly once in the message and contains the following elements:

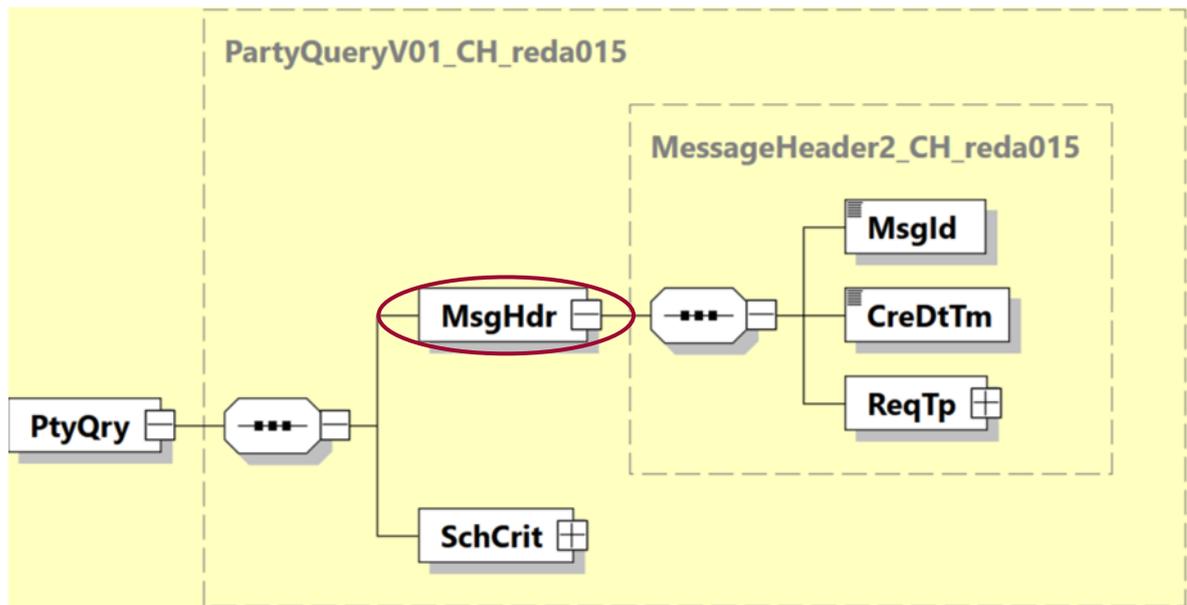


Figure 14: Message Header (MsgHdr) "reda.015"

The following table specifies all the elements of the "Message Header" block in the "reda.015" message that are relevant to the SIC IP service.

ISO 20022 Standard			Swiss ISO 20022 Payments Standard for Instant Payments	
Message Item	XML Tag	Mult	Mult	Definition
Document +Party Query V01	PtyQry	1..1	1..1	
Message Header	MsgHdr	0..1	1..1	
Message Header +Message Identification	MsgId	1..1	1..1	Message Identification Only the restricted character set excluding spaces is permitted for this element.
Message Header +Creation Date Time	CreDtTm	0..1	1..1	Creation Date Time The SIC IP service accepts two forms of representation of a time: 1. UTC time format (YYYY-MM-DDThh:mm:ss.sssZ) 2. Local time with UTC offset format (YYYY-MM-DDThh:mm:ss.sss+/-hh:mm)
Message Header +Request Type	ReqTp	0..1	1..1	
Message Header +Request Type ++Proprietary	Prtry	1..1	1..1	
Message Header +Request Type ++Proprietary +++Identification	Id	1..1	1..1	Clearing System Identification (proprietary) Identification of the clearing system, the following code values are available: SIC IP service (CHF only) = value SIP must be used
Message Header +Request Type ++Proprietary +++Scheme Name	SchmeNm	0..1	1..1	Query Type Must be used to identify the query type. The following codes are defined: IPPTQY - IP participant query

Table 8: reda.015 – Message Header (MsgHdr, A-level)

4.1.2 Search Criteria (SchCrit, B-level)

The "Search Criteria" block (B-level of the message) occurs once and contains the SIC IID of the querying participant.

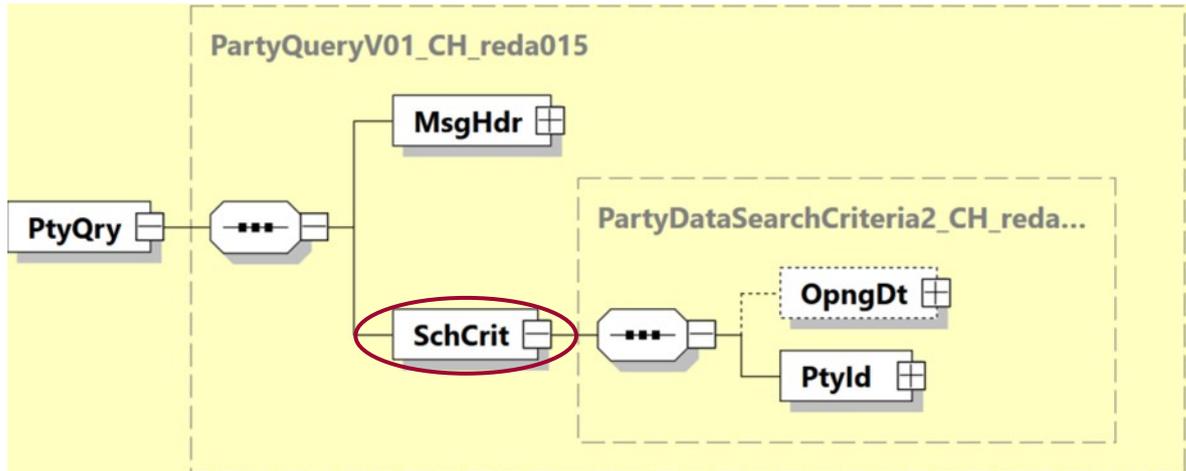


Figure 15: Search Criteria (SchCrit) "reda.015"

The following table specifies all the elements of the "Search Criteria" block of the "reda.015" message that are relevant to the SIC IP service.

ISO 20022 Standard			Swiss ISO 20022 Payments Standard for Instant Payments		
Message Item	XML Tag	Mult	Mult	Definition	
Search Criteria	SchCrit	1..1	1..1	Search Criteria	
Search Criteria +Opening Date	OpngDt	0..1	0..1	Validity date Can optionally be used to query either the participant identifications of the current or the next clearing day. Note: Information on participant identifications of the next clearing day can only be queried if these have already been prepared by the SIC IP service. Further details on the timing sequence of the clearing day procedure of the SIC IP service can be found in the SIC IP Service Handbook.	
Search Criteria +Opening Date ++Equal Date	EQDt	1..1	1..1	Date of the current or the next clearing day.	
Search Criteria +Party Identification	PtyId	0..1	1..1	Querying Participant Identifies the party submitting the query. Required for authorization checking.	
Search Criteria +Party Identification ++Identification	Id	1..1	1..1	Identification	
Search Criteria +Party Identification ++Identification +++Any BIC	AnyBIC {Or	1..1	1..1	Identification of Querying Participant (BIC) Must not be used.	
Search Criteria +Party Identification ++Identification +++Proprietary Identification	PrtryId Or}	1..1	1..1	Identification of Querying Participant (proprietary) Must be used. Must contain a valid identification of an active participant. Must not be concatenated.	
Search Criteria +Party Identification ++Identification +++Proprietary Identification ++++Identification	Id	1..1	1..1	Member Identification SIC IID (=6n), must be contained in the bank master data, active, and not concatenated.	

ISO 20022 Standard			Swiss ISO 20022 Payments Standard for Instant Payments	
Message Item	XML Tag	Mult	Mult	Definition
Search Criteria +Party Identification ++Identification +++Proprietary Identification ++++Issuer	Issr	1..1	1..1	Clearing System Identification (proprietary) Permitted code value: CHSIC (SIC IID (=6n)).

Table 9: reda.015 – Search Criteria (SchCrit, B-level)

4.2 "Party Report" message (PtyRpt, reda.017)

4.2.1 Message Header (MsgHdr, A-level)

The "Message Header" block (A-level of the message) occurs exactly once in the message and contains the following elements:

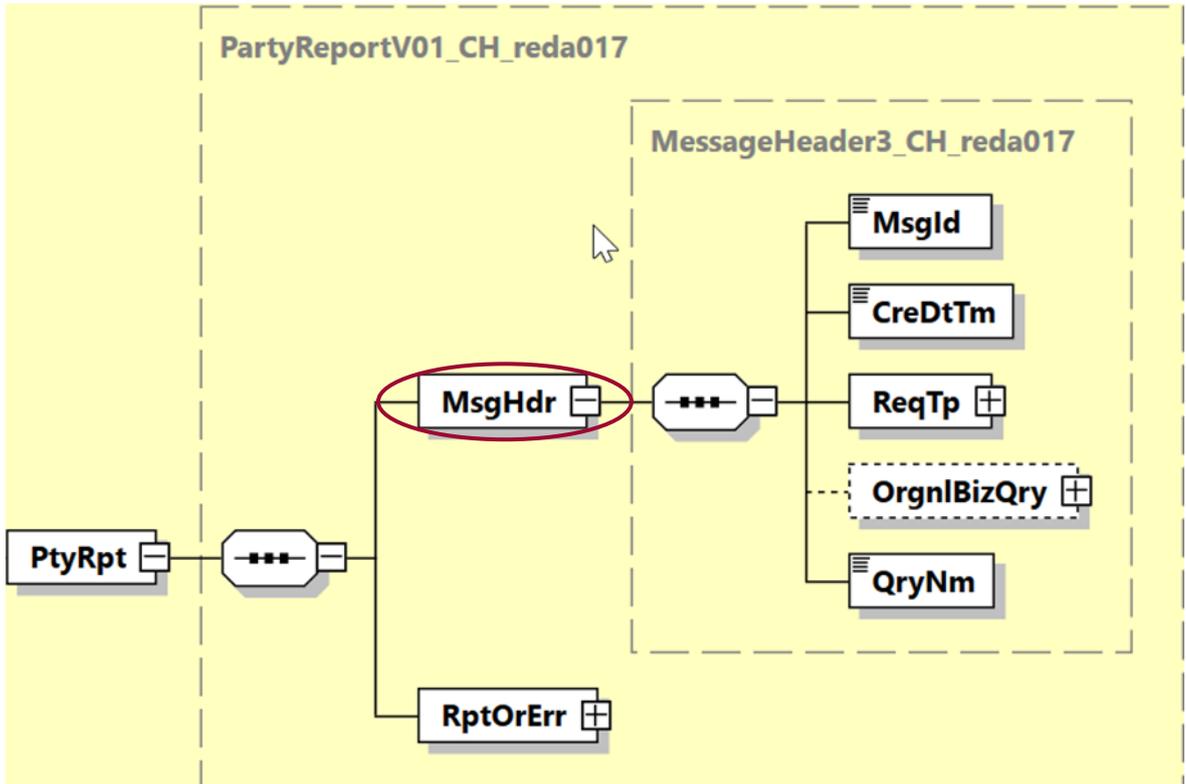


Figure 16: Message Header (MsgHdr) "reda.017"

The following table specifies all the elements of the "Message Header" block in the "reda.017" message that are relevant to the SIC IP service.

4.2.2 Report or Error (RptOrErr, B-level)

The "Report or Error" block (B-level of the message) occurs exactly once in the message and contains the following elements:

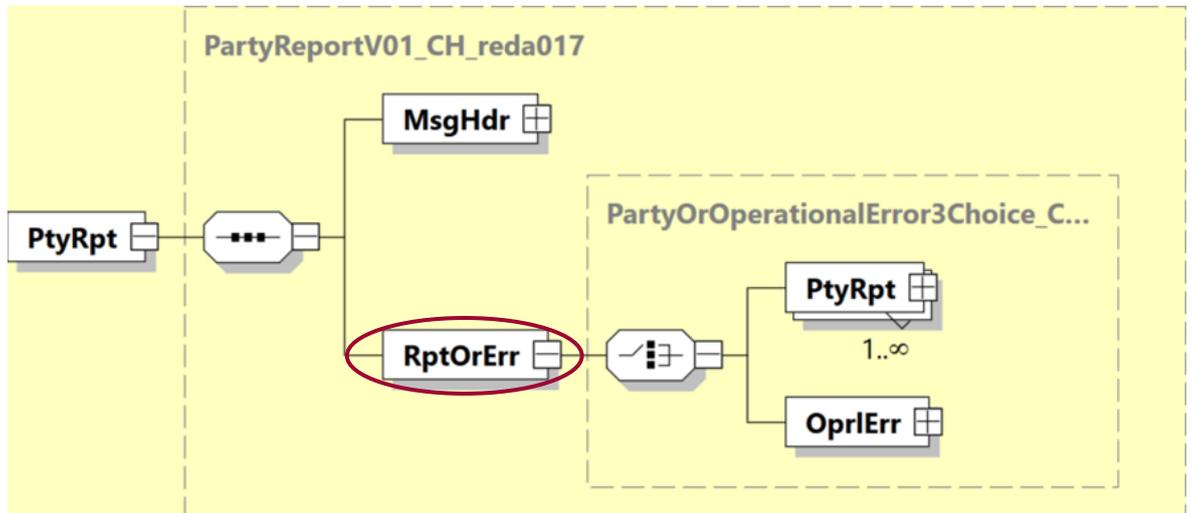


Figure 17: Report or Error (RptOrErr) "reda.017"

The following table specifies all the elements of the "Report or Error" block of the "reda.017" message that are relevant to the SIC IP service.

ISO 20022 Standard			Swiss ISO 20022 Payments Standard for Instant Payments	
Message Item	XML Tag	Mult	Mult	Definition
Report Or Error	RptOrErr	1..1	1..1	Report or Error IPPTQY: Either the <PtyRpt> element returning participant information or one <OprlErr> element containing error information will be delivered. IPPTCM: Element <PtyRpt> with change information is always delivered.

Table 11: *reda.017 – Report or Error (RptOrErr, B-level)*

4.2.3 Party Report / Operational Error (PtyRpt/OprlErr, C-level)

The C-level of the message occurs once and consists of either several instances of the "Party Report" element or one instance of the "Operational Error" element:

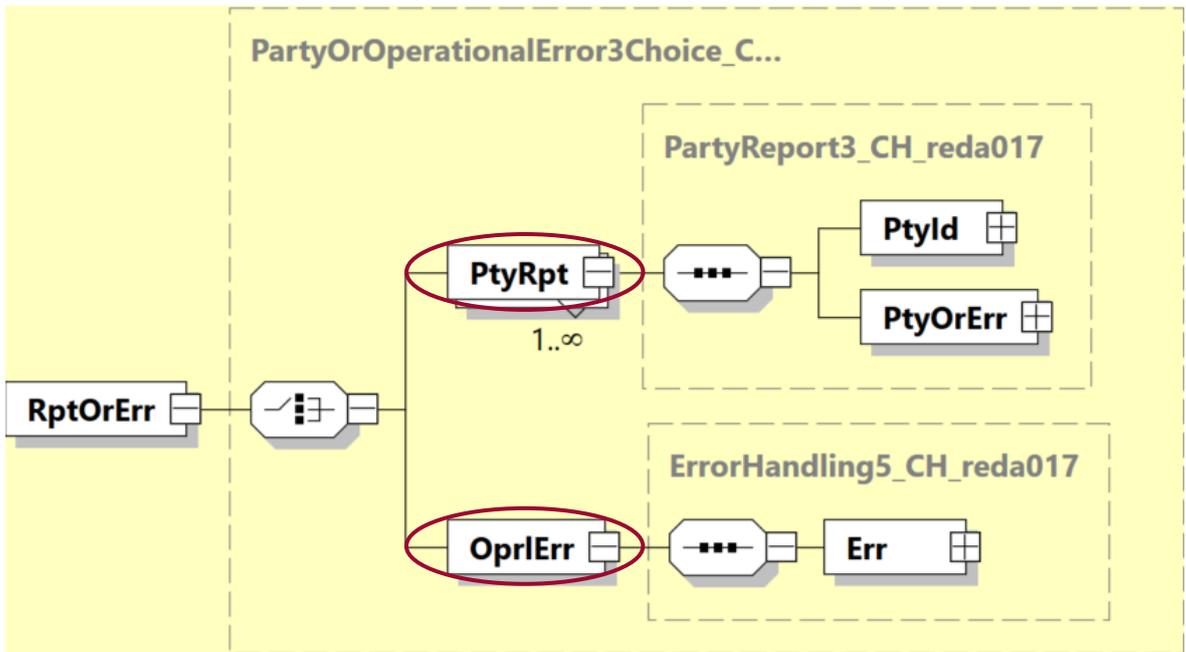


Figure 18: Party Report or Operational Error (PtyRpt or OprlErr) "reda.017"

The following table specifies all the elements of the "Party Report" and "Operational Error" blocks of the "reda.017" message that are relevant to the SIC IP service.

ISO 20022 Standard			Swiss ISO 20022 Payments Standard for Instant Payments		
Message Item	XML Tag	Mult	Mult	Definition	
Party Report	PtyRpt {Or	1..n	1..n	Report Can occur a maximum of 1000 times per message. IPPTQY: Contains IP participant information, always the entire IP short master data is delivered. IPPTCM: Always used. Contains new openings or master data changes of IP participant identifications valid for the next clearing day.	
Party Report +Party Identification	PtyId	1..1	1..1	Identification of Participant	
Party Report +Party Identification ++Identification	Id	1..1	1..1		
Party Report +Party Identification ++Identification +++Identification	Id	1..1	1..1		
Party Report +Party Identification ++Identification +++Identification ++++Any BIC	AnyBIC {Or	1..1	1..1	Identification of the Participant (BIC) Not used.	
Party Report +Party Identification ++Identification +++Identification ++++Proprietary Identification	PrtryId Or}	1..1	1..1	Identification of the Participant (proprietary) Always used.	
Party Report +Party Identification ++Identification +++Identification ++++Proprietary Identification +++++Identification	Id	1..1	1..1	Member Identification SIC IID (=6n)	

ISO 20022 Standard			Swiss ISO 20022 Payments Standard for Instant Payments		
Message Item	XML Tag	Mult	Mult	Definition	
Party Report +Party Identification ++Identification +++Identification ++++Proprietary Identification +++++Issuer	Issr	1..1	1..1	Clearing System Identification (proprietary) Permitted code value: CHSIC (SIC IID (=6n)).	
Party Report +Party Identification ++Identification +++Identification ++++Proprietary Identification +++++Scheme Name	SchmeNm	0..1	1..1	Status Code (proprietary) Status of the identification of the participant The following codes are defined: ACTV = active CONC = concatenated DELT = deleted IPPTQY: Only the ACTV and CONC codes are used.	
Party Report +Party Or Error	PtyOrErr	1..1	1..1	Additional Participant Information	
Party Report +Party Or Error ++System Party	SysPty	1..1	1..1		
Party Report +Party Or Error ++System Party +++Party Identification	PtyId	0..1	0..1	New Identification of Participant (Concatenation Destination) Only used for concatenated identification. Contains the newly assigned identification of the participant. IPPTQY: Only used if with status code CONC. IPPTCM: Only used if with status code CONC or DELT (= deletion of a concatenated identification).	
Party Report +Party Or Error ++System Party +++Party Identification ++++Identification	Id	1..1	1..1		

ISO 20022 Standard			Swiss ISO 20022 Payments Standard for Instant Payments	
Message Item	XML Tag	Mult	Mult	Definition
Party Report +Party Or Error ++System Party +++Party Identification ++++Identification +++++Identification	Id	1..1	1..1	
Party Report +Party Or Error ++System Party +++Party Identification ++++Identification +++++Identification ++++++Any BIC	AnyBIC {Or	1..1	1..1	Identification of the Participant (BIC) Not used.
Party Report +Party Or Error ++System Party +++Party Identification ++++Identification +++++Identification ++++++Proprietary Identification	PrtryId Or}	1..1	1..1	Identification of the Participant (proprietary)
Party Report +Party Or Error ++System Party +++Party Identification ++++Identification +++++Identification ++++++Proprietary Identification +++++++Identification	Id	1..1	1..1	Member Identification SIC IID (=6n)

ISO 20022 Standard			Swiss ISO 20022 Payments Standard for Instant Payments		
Message Item	XML Tag	Mult	Mult	Definition	
Party Report +Party Or Error ++System Party +++Party Identification ++++Identification +++++Identification ++++++Proprietary Identification +++++++Issuer	Issr	1..1	1..1	Clearing System Identification (proprietary) Permitted code value: CHSIC (SIC IID (=6n)).	
Party Report +Party Or Error ++System Party +++Opening Date	OpngDt	0..1	0..1	Valid From Date Used for active or concatenated identification (= codes ACTV/CONC in the element PtyRpt/PtyId/Id/Id/PrtryId/SchmeNm). Contains either the current or next clearing day by which the specified participant identification information is valid. IPPTQY: Always used. IPPTCM: Is always in the future, contains date of the next clearing day.	
Party Report +Party Or Error ++System Party +++Closing Date	ClsgDt	0..1	0..1	Valid To Date Only used for deleted identification (= code DELT in the element PtyRpt/PtyId/Id/Id/PrtryId/SchmeNm). Contains the deletion date of the IP participant identification. IPPTQY: Not used.	
Operational Error	OprlErr Or}	1..n	1..1	Error IPPTQY: If the query can not be performed for any reason, an error will be returned. IPPTCM: Not used.	
Operational Error +Error	Err	1..1	1..1		
Operational Error +Error ++Proprietary	Prtry	1..1	1..1	Error Code (proprietary) The reason for the error is specified by a proprietary error code. The following error codes are defined: NRSLT: No data matching the query criteria was found NAUTH: Query is not permitted QYINV: Invalid query criteria	

Table 12: *reda.017 – Response level (PtyRpt or OprlErr, C-level)*