



ISO 20022 Payments

Swiss Implementation Guidelines
for Customer-Bank Messages
Credit Transfer (Payment Transactions)

Customer Credit Transfer Initiation (pain.001)

General note

Any suggestions or questions relating to this document should be addressed to the financial institution in question or to SIX Interbank Clearing Ltd at the following address: pm@six-group.com.

Amendment control

All the amendments carried out on this document are listed in an amendment record table showing the version, the date of the amendment and a brief amendment description.

Change of name from "BC number" (BC No.) to "Institutional identification" (IID)

The concept of the BC number, short for Bank Clearing Number, has been out-of-date since at least 2010, when the Swiss National Bank provided access to the SIC system also to participants without the status of a bank, such as insurance companies. Furthermore, this number is used not only for the clearing of payments, but also for information that goes beyond the various payment traffic infrastructures. One example is the function of the BC number as part of the IBAN, a form of bank account number that can be used for many purposes.

This is why the Swiss Payment Standards will in future use "IID" (institutional identification) instead of "BC no.".

Amendment control

Version	Date	Amendment description
1.0	15.02.2010	First edition (only German version)
1.1	30.04.2010	<p>New "Contact Details" element (1.8) for details of the software used and which version, inserted in the "Customer Credit Transfer Initiation" (pain.001) message.</p> <p>Only characters in the SWIFT dataset are permitted for "Message Identification" (1.1), "Payment Information Identification" (2.1), "Instruction Identification" (2.29) and "End To End Identification" (2.30) in the "Customer Credit Transfer Initiation" (pain.001) message.</p> <p>In the "Group Status" element in the "Customer Payment Status Report" (pain.002) message, status changed from Mandatory to Dependent and the text of the definition amended.</p>
1.2	16.08.2011	General document update
1.3	30.04.2012	Various clarifications and additions, new company logo
1.4	30.06.2013	Various clarifications and additions, taking account of the EPC Definitions that will apply from 1.2.2014.
1.5	10.08.2015	<p>Section 1: New documents of the Swiss Payment Standards and their description added.</p> <p>Section 1.1: Note to download address for most recent version inserted.</p> <p>Section 1.2: New version 8.0 of the EPC Rulebook and the EPC Implementation Guidelines.</p> <p>Section 1.3.2: New documents of the Swiss Payment Standards added.</p> <p>Section 1.5: Note to permitted characters inserted. Status list extended. Reference to EPC submission using an XML schema published by the EPC removed.</p> <p>Section 1.6: Description and example of how to represent a selection inserted.</p> <p>Section 2.2 divided into section 2.2.1 (previous text) and new section 2.2.2 (look ahead to "Payment slip with QR code" with new payment types E1 and E2.</p> <p>Section 2.2.1: Notes to tables 4 and 5 inserted.</p> <p>Section 2.3: Tables updated. New payment types E1 and E2, CH error codes deleted, Changes to definitions for the "Code" element (2.9 and 2.34), "Instruction for Debtor Agent" (2.85), various changes to payment type-specific definitions.</p> <p>Section 2.4.2.2: Note on IPI slip inserted.</p> <p>Section 3.2: Tables updated. Notes to CH error codes deleted.</p> <p>Section 3.2.5: CH error codes deleted. List of error codes updated.</p> <p>Section 3.4: In the example, ISO error code used instead of CH error code.</p> <p>Appendix D: Illustration updated.</p>
1.5.1	23.10.2015	Publication as "Minor" version: Payment type E2 corrected to payment type E1 in "Reference" element (index 2.126) and origin from QR Code Index 7 specified.

Version	Date	Amendment description
1.6	25.07.2016	<p>Title page and colour scheme for tables and illustrations amended to comply with the new Brand Identity Guidelines.</p> <p>Various textual changes/standardisations throughout the document.</p> <p>Rules stated more precisely:</p> <ul style="list-style-type: none"> • Creditor: Recommendation to enter the recipient's address for payment types 5 and 6 ("Risks" in repayments). • Creditor Agent: Application of the "IBAN only rule" for payment type 5: Creditor Agent is no longer required where the IBAN is sent under Creditor Account. • Intermediary Agent: only permitted as AOS by agreement with the financial institution. • Instruction for Debtor Agent: Only permitted for payment types 4 and 6. • Instruction Priority: Rules for application stated more precisely. <p>Explanation of the change from BC no. to IID added to the Foreword.</p> <p>All details of the Customer Payment Status Report (pain.002) removed to separate Implementation Guidelines.</p> <p>Section 1.2: Reference documents updated.</p> <p>Section 1.5: Note on the use of blank elements and the status list described more precisely.</p>
1.6.1	07.11.2016	<p>Publication as "Minor" version: Section 2.2.2 "Payment slip with QR code (with effect from mid-2018)" updated. All references to payment types E1 and E2 deleted in sections 2.3.2 and 2.3.3.</p>
1.7	29.05.2017	<p>Section 1.2: New version of the EPC Rulebook and the EPC Implementation Guidelines. New Swiss Implementation Guidelines QR-bill.</p> <p>Section 2.2.1: "Domestic payment types" table updated.</p> <p>Section 2.2.2 New section (QR-bill).</p> <p>Section 2.3: Various changes to general and payment-type-specific definitions.</p> <p>Section 2.4.1: Reference to EPC document EPC230-15 added.</p> <p>Section 2.4.2.2: New section on "Using the Swiss QR reference" added.</p> <p>Section 3.2: IBAN and BIC in the examples have been changed.</p> <p>Appendix C "Mapping the Swiss QR code in the payment part of the QR-bill in pain.001" added.</p>
1.7.1	07.08.2017	<p>Publication as "Minor" version: Change of the designation «Swiss recommendations» to «Swiss Payment Standards».</p>

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1 Introduction

The Swiss Payment Standards for implementing the message standards for Payments Initiation and Cash Management based on ISO standard 20022 have been produced on the instructions of PaCoS (Payments Committee Switzerland), a committee under the Swiss Payments Council (SPC). This version is based on the ISO Maintenance Release 2009 and the latest EPC recommendations.

The Swiss Payment Standards consist of the following documents:

- Swiss Business Rules
- Swiss Implementation Guidelines
 - for Credit Transfer (pain.001) (this document)
 - for the Swiss direct debit procedure (pain.008)
 - for the SEPA direct debit procedure (pain.008)
 - for Cash Management messages (camt.052, camt.053 and camt.054)
 - for Status Report (pain.002)
- Swiss Usage Guide (use cases and examples)

The first document, the **Business Rules**, describes the requirements of business representatives of users, financial institutions and software providers, from the point of view of processes. It discusses the following subjects:

- Definition and description of specific business transactions, describing the relevant parties and the messages that are used (types of payments, versions of reports)
- Summary of message structures with more detail about certain structural elements
- Description of the main validation rules and ways of handling errors.

The **Implementation Guidelines** serve as manuals for the technical implementation of the standard and provide assistance in producing the various message types. They describe the XML structures and validation rules in detail.

The **Swiss Usage Guide** provides field rules and examples to explain the most frequent use cases (payment types) and explains how ISO 20022 messages (customer-bank or bank-customer) should be structured according to the Swiss Payment Standards, so providing an end-to-end overview of the whole process.

1.1 Amendment control

The Swiss Business Rules and Implementation Guidelines documents are subject to the amendment authority of

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and reflect the regulations of Swiss financial institutions. Any future amendments and additions will be made by SIX Interbank Clearing.

The latest version of this document can be downloaded from the SIX Interbank Clearing website at the following address: www.iso-payments.ch

1.2 Reference documents

Ref	Document	Title	Source
[1]	Payments Maintenance 2009	Message Definition Report, Approved by the Payments SEG on 30 March 2009, Editon September 2009	ISO
[2]	pain.001.001.03	XML Schema Customer Credit Transfer Initiation V03	ISO
[3]	pain.002.001.03	XML Schema Customer Payment Status Report V03	ISO
[4]	EPC125-05	SEPA Credit Transfer Rulebook Version 2017 Version 1.0	EPC
[5]	EPC132-08	SEPA Credit Transfer Implementation Guidelines 2017 Version 1.0	EPC
[6]	Swiss Business Rules	ISO 20022 Payments – Swiss Business Rules for Payments and Cash Management for Customer-Bank Messages	SIX Interbank Clearing
[7]	Swiss Implementation Guidelines QR-bill	Swiss Implementation Guidelines QR-bill – Technical and professional specifications of the payment part with Swiss QR Code, Version 1.0 dated 27.04.2017	SIX Interbank Clearing
[8]	Payments External Code Lists	Inventory of External Payment Code Lists	ISO

Table 1: Reference documents

Organisation	Link
ISO	www.iso20022.org
EPC	www.europeanpaymentscouncil.eu
SIX Interbank Clearing	www.iso-payments.ch www.sepa.ch www.six-interbank-clearing.com

Table 2: Links to the relevant Internet pages

1.3 Summary of message standards

1.3.1 ISO 20022

The ISO 20022 message standard gives details for the following Payment Initiation Messages:

- Customer Credit Transfer Initiation (pain.001) and
- Customer Direct Debit Initiation (pain.008)

Other related messages include, for example:

- Customer Payment Status Report (pain.002)

All these messages are described in the document "ISO 20022 Message Definition Report Payments Standards – Maintenance 2009" [1]. The "pain.007" message is not currently used in Switzerland and is therefore not further discussed here.

The "pain.008" and "pain.002" messages in Switzerland are discussed in separate documents.

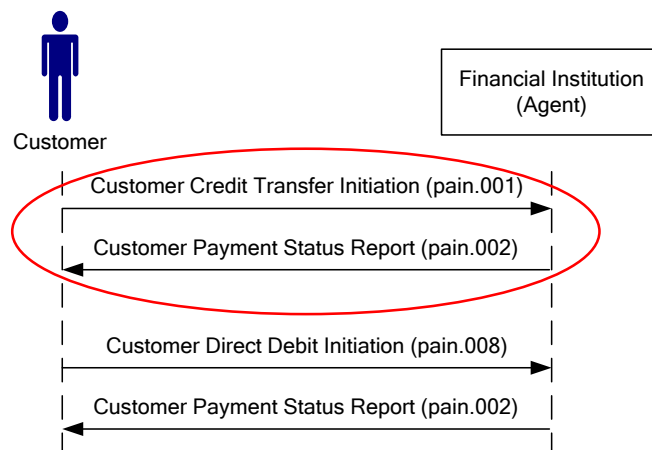


Figure 1: Payment Initiation message flow - summary

The flow of messages is shown in the above Figure 1. The "pain.002" message is sent back to the sender by the recipient of "pain.001" and "pain.008" messages in order to report back the results of validation.

The messages specified in the ISO 20022 standard can be used universally, apply to all currencies and encompass all possible options. The messages are adapted for special areas of use and country-specific circumstances, i.e. not all the options under the standard are used.

1.3.2 Swiss ISO 20022 Payments Standard

The message standard recommended by Swiss financial institutions is based on the ISO 20022 standard. In addition to the SEPA Message Standard as described in the EPC Recommendation, all common payment types in national and cross-border transactions are also supported.

The Swiss ISO 20022 Payments Standard encompasses all the data elements that are defined by the EPC in the SEPA Core Requirements as being essential, but in some cases has different definitions for the optional data elements, in order to meet the needs of Swiss financial institutions.

The Swiss ISO 20022 Payments Standard is specified in the following documents:

- ISO 20022 Payments and Cash Management – Swiss Business Rules
- ISO 20022 Payments Swiss Implementation Guidelines for Credit Transfer (this document)
- ISO 20022 Payments Swiss Implementation Guidelines for the SEPA Direct Debit procedure
- ISO 20022 Payments Swiss Implementation Guidelines for the Swiss Direct Debit procedure
- ISO 20022 Payments Swiss Implementation Guidelines for Cash Management messages
- ISO 20022 Payments: Swiss Implementation Guidelines for Status Report

The Swiss Business Rules describe the requirements of business representatives from the point of view of users, financial institutions and software manufacturers with regard to processes.

The Swiss Implementation Guidelines Credit Transfer – this document – contains technical specifications and instructions for the technical and business implementation of customer-bank messages, including the Payment Status Report (Bank-Customer), in Credit Transfers in accordance with the Swiss ISO 20022 Payments Standard.

Figure 2 below shows the degree of concordance between the Swiss ISO 20022 Payments Standards and ISO 20022 and SEPA.

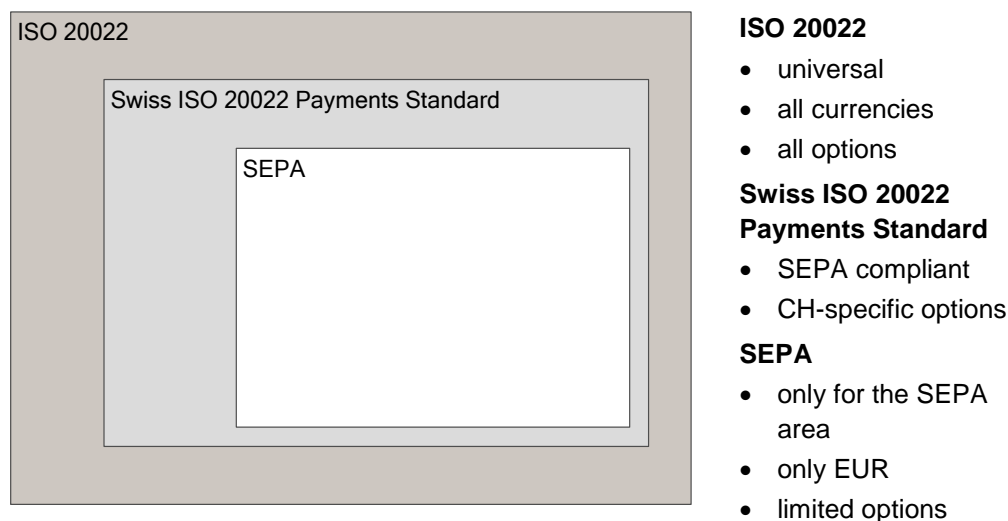


Figure 2: Degree of concordance between the Swiss ISO 20022 Payments Standards and ISO 20022 and SEPA

Note: The colours **clay brown** and **light grey** that are used for the ISO 20022 standard and the Swiss ISO 20022 Payments Standard are also used in the column headings of tables in this document.

1.3.3

SEPA Message Standard

For payments in the SEPA area (Single Euro Payments Area), the SEPA Message Standard and the Swiss ISO 20022 Payments Standard are of importance (see section 2.2 "Payment types", payment type 5).

In the interests of efficient usage within the SEPA area (EU countries, EEA countries Monaco and Switzerland), some restrictions were applied within the ISO 20022 standard, which were approved by the European Payments Council (EPC), the decision-making body of the European banks and bankers' associations for payment transactions, in October 2009.

The SEPA Message Standard is specified in the following documents published on the website of the European Payments Council (EPC):

- EPC125-05 SEPA Credit Transfer Rulebook [4]
- EPC132-08 SEPA Credit Transfer Implementation Guidelines [5]

1.4 Representation of XML messages

The logic structure of XML messages is a tree structure. This can be represented in various ways: in diagrams, tables or text. Representation in text is very suitable for actual examples of messages, while tables and diagrams are mainly suitable for giving an overview of XML schemas. The illustrations in this document are based on the schema in the Swiss Payment Standards.

XML editors which have the option of graphical representation use symbols which may look slightly different depending on the type of editor (the illustrations in this document were produced using the editor XMLSpy from Altova GmbH). The main symbols are briefly introduced in Appendix B. More detailed information can be found in the user manual or the online help for the XML editor that is being used.

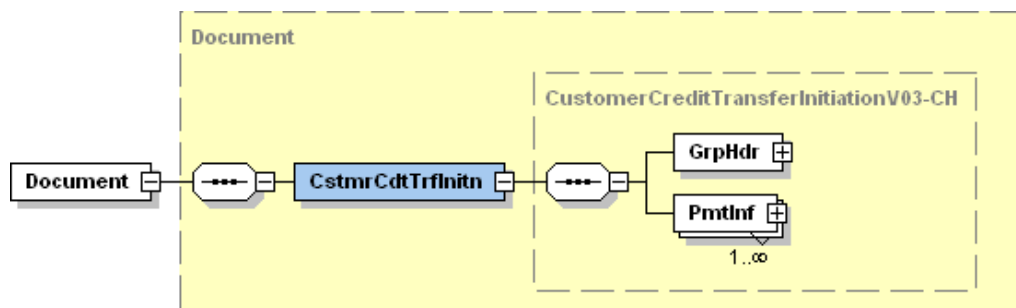


Figure 3: Example of graphical representation of an XML message

1.5 XML message conventions

A basic knowledge of XML is assumed for the purposes of this document, so only certain special points are explained.

Permitted characters

The characters permitted in XML messages according to the Swiss ISO 20022 Payments Standard are listed in section 2.4.1 "Character set".

Note: The use of blank elements is not permitted. Nor is it expected that an element will be sent that contains only one (or more) spaces, i.e. has no content. At most institutions, such an element will lead to the payment order being rejected.

Statuses

The following statuses (information about usage) are permitted for individual XML elements according to the Swiss ISO 20022 Payments Standard:

Status	Designation	Description
M	Mandatory	The element is mandatory. If the element is not used, a Swiss bank will refuse to process the message.
R	Recommended	The use of the element is recommended. If the element is not used, the message will normally still be processed by a Swiss bank.
O	Optional	The element is optional.

Status	Designation	Description
D	Dependent	The use of the element depends on other elements. Depending on the content or presence of another element, this element may be mandatory or optional.
BD	Bilaterally Determined	The element may only be used by agreement with the instructed financial institution.

XML schema validation

The technical validation of the various XML messages is carried out using XML schemas. These define the elements that can be used, their status (mandatory, optional, dependent), the format of their content and the content itself (in certain cases the permitted codes are listed in the XML schema). The names of data types given in the tables of this document correspond to the data types defined in XML schemas.

For the Swiss ISO 20022 Payments Standard, its own XML schemas are published as variants of the ISO 20022 XML schemas, in which, for example, unnecessary elements have been omitted or statuses changed. These XML schemas define all the data that is valid for Switzerland. Data types which have been taken over unchanged from the ISO standard retain the same names. For those data types that have been changed, the names have been given appropriate extensions showing the differences between them and the original ISO data types.

Example 1: ISO data type: FinancialInstitutionIdentification7
Swiss data type: FinancialInstitutionIdentification7-CH_BicOrCId

Example 2: ISO data type: PartyIdentification32
Swiss data type: PartyIdentification32-CH_NameAndId

No comments are inserted in the XML schemas. Information about the various data elements can be found in these Implementation Guidelines. In the source text for XML schema pain.001, XML comments are inserted documenting the differences from the original data type under the ISO standard.

The names of the Swiss ISO 20022 Payments Standard XML schemas and links to the original XSD files are listed in Appendix A.

Indication of schema location and namespace in XML messages

The Schema Location in XML messages indicates the XML schema which should be used to carry out the technical validation and where that schema is to be found. The Schema Location also includes the namespace (xmlns="..."). If a different Schema Location is entered from the one admitted, the whole message is rejected.

Using the Swiss XML schema

The definitions in the Swiss XML schema are the same as the descriptions in these Implementation Guidelines and should primarily be used to validate XML files that have been produced. Submissions can be made either using this Swiss XML schema or the official ISO 20022 XML schema. The XML schema which is to be used must be agreed with the relevant financial institutions.

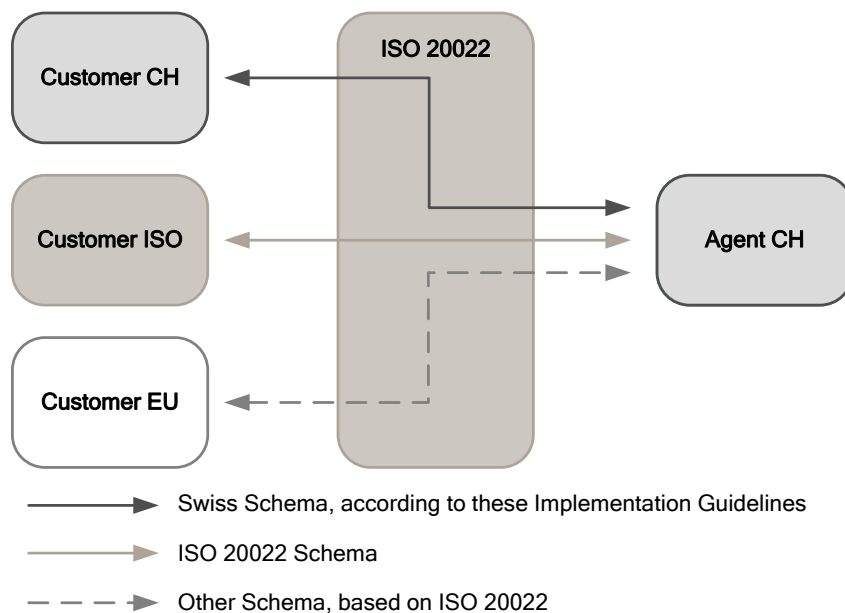


Figure 4: Using the Swiss XML schema

1.6 Conventions for presentation

In this document, the following conventions apply to presentation.

Description of XML elements

In some publications, the names of XML elements are written as a single concept with no spaces, for example CreditTransferTransactionInformation. In the interests of legibility, spaces are generally used in this document.

Data in tables

The tables contain information from ISO 20022 (Index, Multiplicity, Message Item, XML-Tag). The following information for the Swiss ISO 20022 Payments Standard can also be found in the tables:

- Status of the element (as defined in section 1.5 "XML message conventions")
- General definition
- Definitions for specific payment types
- Error code that is sent back if there are any errors in the Customer Payment Status Report (pain.002)

Note: If during schema validation an error is detected in any element, the whole message is always rejected (error code FF01). Since this response generally applies to all elements in the table, a comment to that effect is not entered for every element.

Colours used in the tables

The column headings are marked in **clay brown** for the information about ISO 20022 and **light grey** for information about the Swiss ISO 20022 Payments Standard.

Elements containing at least one sub-element are marked in **light blue** in the ISO 20022 columns.

Representation of the tree structure in the tables

So that it is possible to tell where in the tree structure an element comes, the hierarchy level is indicated by preceding "+" signs in the Message Item. For example, the IBAN in the Payment Information is represented as shown:

```
Payment Information
+Debtor Account
++Identification
+++IBAN
```

Representation of choices

Elements with a choice are marked in the "XML Tag" column as follows:

{Or for start of the choice

Or} for end of the choice

Example:

Payment Information +Debtor Account ++Identification	Id	1..1	M
Payment Information +Debtor Account ++Identification +++IBAN	IBAN {Or	1..1	R
Payment Information +Debtor Account ++Identification +++Other	Othr Or}	1..1	D

1.7

Scope

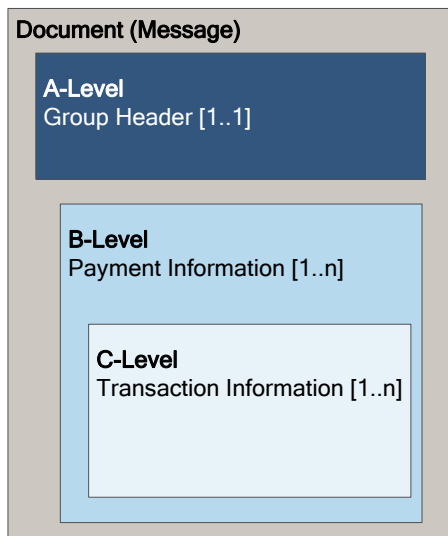
These Implementation Guidelines only give the specifications for the customer-bank messages "Customer Credit Transfer Initiation" and "Customer Payment Status Report" for the Swiss ISO 20022 Payments Standard.

No aspects relating to the communication channels used for the sending of messages between customer and financial institution, and their security features, are discussed in this document. These are entirely the responsibility of the financial institutions involved and their customers.

2 Customer Credit Transfer Initiation (pain.001)

2.1 General

The Customer Credit Transfer Initiation (pain.001) XML message is used for the electronic commissioning of payment orders by customers to the financial institution. It is used on the basis of the ISO 20022 XML schema "pain.001.001.03".



The "pain.001" XML message is essentially structured as follows:

- **A-Level:** message level, Group Header. This block must occur exactly once.
- **B-Level:** debtor side, Payment Information. This block must occur at least once and generally comprises several C-levels.
- **C-Level:** creditor side, Credit Transfer Transaction Information. This block must occur at least once for each B-level. It comprises all the C-levels (transactions) belonging to the B-level (debit).

Figure 5: Basic message structure for the "pain.001" XML message

In the following **technical specifications** for the XML message Customer Credit Transfer Initiation (pain.001), each of these message levels is discussed in a separate sub-section:

- 2.3.1 "Group Header (GrpHdr, A-Level)"
- 2.3.2 "Payment Information (PmtInf, B-Level)"
- 2.3.3 "Credit Transfer Transaction Information (CdtTrfTxInf, C-Level)"

The **business specifications** given in section 2.4 cover the following topics:

- character set
- references
- sender identification
- duplicate checking

2.2 Payment types

The definitions for the following payment types are based on the definitions of transactions given in the Swiss Business Rules [6]. The definition covers all current possible payment types in Switzerland (national, cross-border, SEPA, etc.).

2.2.1 Procedure for the validation by the financial institution

For each pain.001 transaction, the first step is to check the payment type of this transaction (see Swiss Business Rules [6]). In order to identify the payment type, certain key elements are analysed.

Once the payment type has been identified, the data is validated against the specifications for that payment type as given in the Swiss Implementation Guidelines (this document). The response to any discrepancies may vary from one financial institution to another. For example, if an element is filled in which, according to these definitions, should not be there, then one of the financial institutions can reject the transaction. A different financial institution may implement more complex validation procedures and come to the conclusion that it will process the transaction anyway and will disregard the data in the element in question.

Step 1: Assigning the transaction to a payment type (or "Identifying the payment type")

(See also the tables in section 2 "Business transactions" of the Swiss Business Rules [6] where the payment types are numbered.)

Payment types can only be assigned on the basis of the information given in black below. [Fields given in blue do not need to be checked for the purpose of pure assigning to a transaction type.](#)

Domestic

Payment type	1	2.1	2.2	3	4
Title	ISR	IS 1-stage	IS 2-stage	IBAN/postal account and IID/BIC	Foreign currency
Comment		beneficiary's postal account	beneficiary's IBAN or bank account		
Payment Method	TRF/TRA	TRF/TRA	TRF/TRA	TRF/TRA	TRF/TRA
Local Instrument	CH01	CH02	CH03	Must not be delivered	Must not be delivered
Service Level	Must not be SEPA	Must not be SEPA	Must not be SEPA	Must not be SEPA	Must not be SEPA
Creditor Account	ISR participation number	Postal account	IBAN (or bank account) or code line	IBAN (QR-IBAN) ¹ or postal account or bank account	IBAN or postal account or bank account
Creditor Agent	Must not be delivered	Must not be delivered	V1: IID V2: IID and postal account of bank V3: Postal account of bank and name of bank	V1: IID V2: Domestic BIC V3: Creditor Agent can be omitted where the IBAN/QR-IBAN is sent in the Creditor Account.	V1: Domestic BIC V2: IID and name and address FI V3: Name and address domestic FI
Currency	CHF/EUR	CHF/EUR	CHF/EUR	CHF/EUR	All except CHF/EUR ²

Table 3: Domestic payment types

Foreign

Payment type	5	6
Title	Foreign SEPA	Foreign
Comment		
Payment Method	TRF/TRA	TRF/TRA
Local Instrument	Must not be delivered	Must not be delivered
Service Level	SEPA	Must not be SEPA
Creditor Account	IBAN	IBAN or account
Creditor Agent	BIC Creditor Agent is no longer needed where the IBAN is sent under Creditor Account ³	V1: BIC International V2: Bank code (without IID) and name and address of FI V3: Name and address of FI International
Currency	EUR	all ²

Table 4: Foreign payment types

¹ QR-IBAN only effective from 01.01.2019.

² The actual range of currencies that are supported is to be clarified with the respective financial institution.

³ The Creditor Agent does not need to be entered for SEPA payments (payment type 5). Where both the IBAN and the BIC are sent, the execution of the payment to the Creditor Agent will be based on the IBAN.

Payments not involving a financial institution (domestic and foreign)

Payment type	7	8
Title	Domestic postal orders	Bank cheque/Postcash domestic and foreign ⁴
Comment		
Payment Method	CHK	CHK
Local Instrument	CPP	empty
Service Level	Must not be SEPA	Must not be SEPA
Creditor Account	Must not be delivered	Must not be delivered
Creditor Agent	Must not be delivered	Must not be delivered
Currency	CHF	all ²

Table 5: Payment types not involving a financial institution (domestic and foreign)

Step 2: Validation of the transaction by payment type

Once the payment type has been identified, all the other elements are validated according to the Swiss Implementation Guidelines (this document). Example: for payment type 1, checks include whether the "Creditor Account" element contains an ISR reference number and the elements for "Creditor Agent" are non-existent. Depending on the scope of the logic that is implemented, a variation from the definitions in this document may lead to the transaction being rejected or, in some cases with certain institutions, to the elements which are present, but should not be, being ignored and the processing of the transaction continuing.

2.2.2

QR-bill (with effect from 01.01.2019)

Payment part of the QR-bill replaces the currently used inpayment slips

See also the Swiss Implementation Guidelines QR-bill [7].

A bill can be described as a "QR-bill" if it includes a payment part with a Swiss QR code.

The payment part of the QR-bill is in A6 format and contains the information that is necessary to execute a payment in the form of a QR code and also as printed information. The payment part can form part of the QR-bill or can be attached as a separate page.

The Swiss QR code contains the necessary data for executing a payment using ISO 20022 "pain.001", payment type 3. The mapping of the data in the Swiss QR code in a "pain.001" is described in the Appendix C "Mapping the Swiss QR code in the payment part of the QR-bill in pain.001".

The QR IBAN is an account number which must be used to indicate the account to be credited, in the case of payments with a structured reference. In format, the structure of this IBAN complies with the rules under ISO 13616.

The QR reference is a structured reference entered by the biller in the payment part of the QR-bill and corresponds to the former ISR reference number.

⁴ Not all financial institutions support check payments. The range of payment types that is supported should be agreed with the institution concerned.

2.3 Technical specifications

2.3.1 Group Header (GrpHdr, A-Level)

The Group Header (A-Level of the message) contains all the elements that apply to all the transactions in the Customer Credit Transfer Initiation (pain.001) XML message. It occurs exactly once in the message.

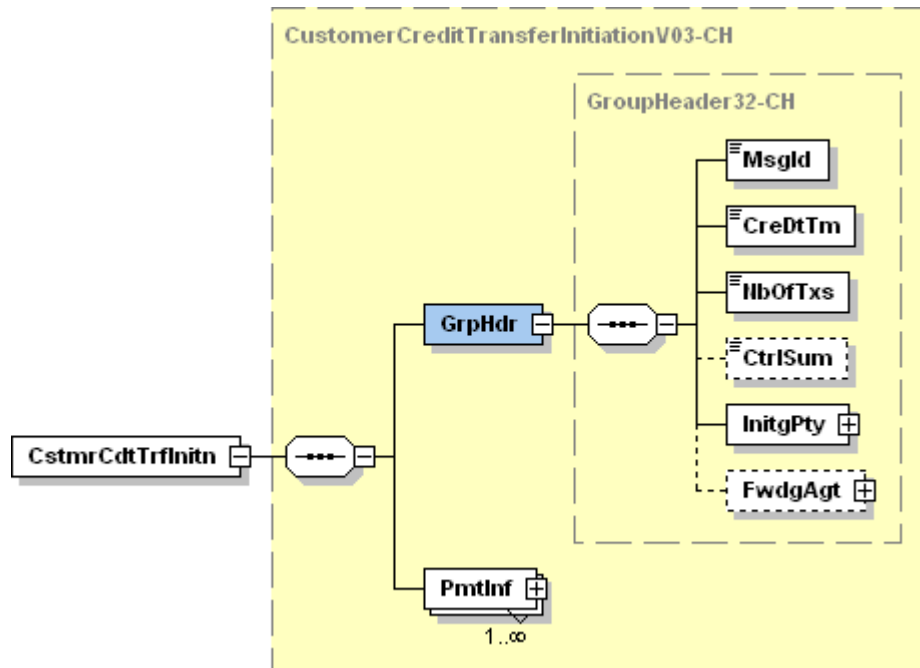


Figure 6: Group Header (GrpHdr)

The following table specifies all the elements of the Group Header that are relevant to the Swiss ISO 20022 Payments Standard.

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
	Document +Customer Credit Transfer Initiation V03	CstmrCdtTrfIntr	1..1	M			
1.0	Group Header	GrpHdr	1..1	M			
1.1	Group Header +Message Identification	MsgId	1..1	M	Checking for duplicates usually takes place at the Swiss financial institutions at document (message) level. This is why the "Message Identification" <MsgId> element must have a unique value. The uniqueness is checked by most of the financial institutions over a period of at least 90 days. It is recommended that the "Message Identification" is generally kept unique for as long as possible. Only the SWIFT character set is permitted for this element (see section 2.4.1).		DU01
1.2	Group Header +Creation Date Time	CreDtTm	1..1	M	Recommendation: Should be the same as the actual date/time of creation.		DT01
1.6	Group Header +Number Of Transactions	NbOfTxs	1..1	M	If there is an error, the whole message is rejected. Recommendation: at present, the customer is recommended not to send any messages (files) to the financial institution exceeding 99,999 payments (C-Level, transactions).		AM18
1.7	Group Header +Control Sum	CtrlSum	0..1	R	Value is the same as the sum of all the "Amount elements" ("Instructed Amount" or "Equivalent Amount") (2.42) Recommendation: the control sum should be sent in this element in Level A. If there is an error, the whole message is rejected.		AM10
1.8	Group Header +Initiating Party	InitgPty	1..1	M	At least one of the two elements "Name" or "Identification" must be sent.		CH21
1.8	Group Header +Initiating Party ++Name	Nm	0..1	R	Name of the message sender, maximum 70 characters.		
1.8	Group Header +Initiating Party ++Identification	Id	0..1	R	Identification of the message sender.		
1.8	Group Header +Initiating Party ++Identification +++Organisation Identification	OrgId {Or	1..1	D	Only "BIC Or BEI" or an element from "Other" permitted. If used, the "Private Identification" must not be present.		CH16, CH17
1.8	Group Header +Initiating Party ++Identification +++Organisation Identification ++++BIC Or BEI	BIC Or BEI	0..1	D	If used, "Other" must not be present.		RC01, CH16

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
1.8	Group Header +Initiating Party ++Identification +++Organisation Identification ++++Other	Othr	0..n	D	If used, "BIC Or BEI" must not be present.		CH17
1.8	Group Header +Initiating Party ++Identification +++Private Identification	PrvtId Or}	1..1	D	Only "Date And Place Of Birth" or an element from "Other" permitted. If used, "Organisation Identification" must not be present.		
1.8	Group Header +Initiating Party ++Contact Details	CtctDtls	0..1	R	Details of the software used and the particular version.		
1.8	Group Header +Initiating Party ++Contact Details +++Name	Nm	0..1	R	Recommendation: Should contain the name of the software used to create this message, maximum 70 characters.		
1.8	Group Header +Initiating Party ++Contact Details +++Other	Othr	0..1	R	Recommendation: Should contain the version of the software used to create this message.		
1.9	Group Header +Forwarding Agent	FwdgAgt	0..1	BD	This element may only be used by agreement with the instructed financial institution.		

Table 6: Group Header (GrpHdr, A-Level)

2.3.2 Payment Information (PmtInf, B-Level)

The Payment Information (B-Level of the message) contains information about the debtor and other key elements such as the payment method or requested execution date which apply to all transactions (C-Levels) for this B-Level.

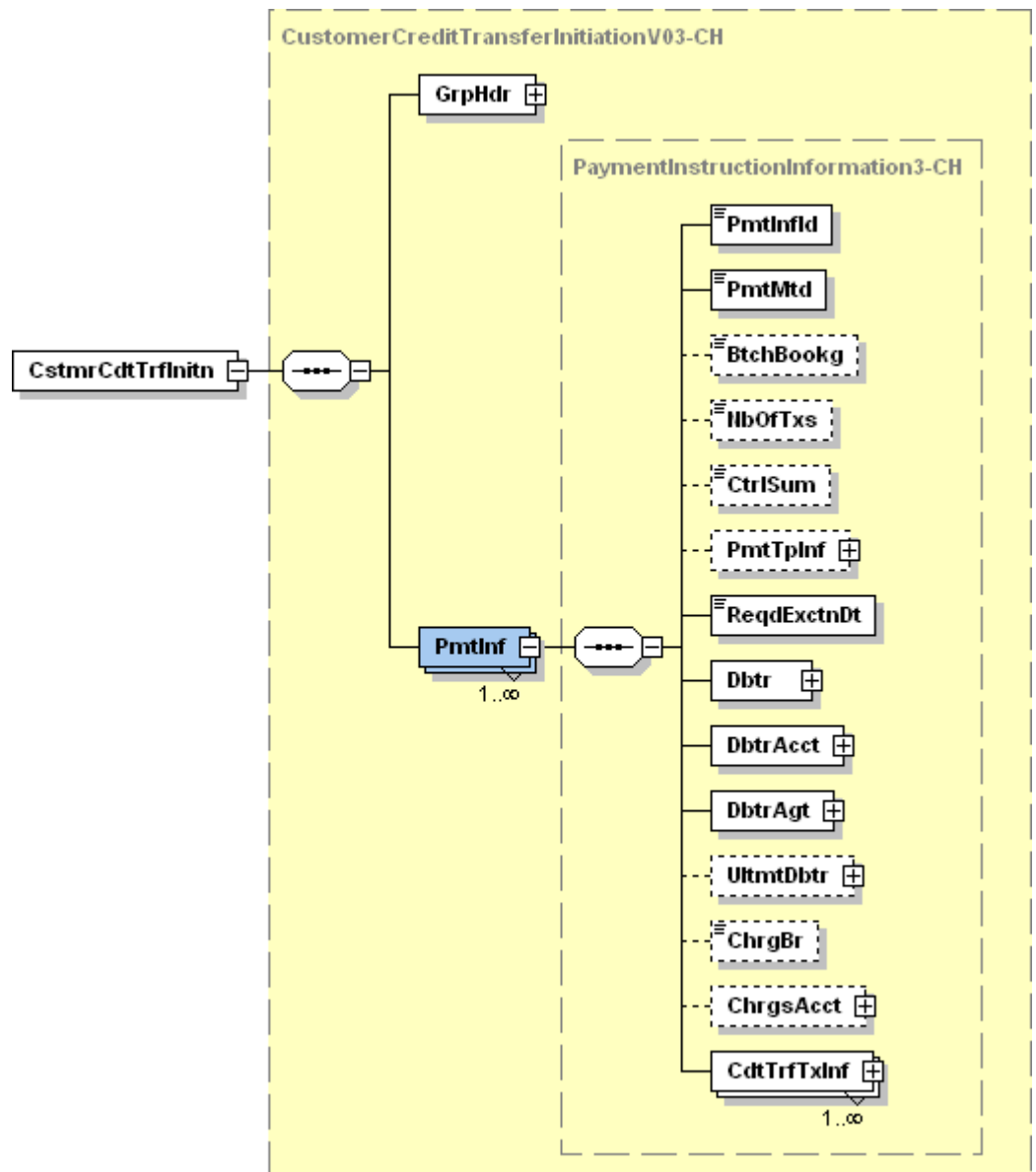


Figure 7: Payment Information (PmtInf)

The following table specifies all the elements of the Payment Information that are relevant to the Swiss ISO 20022 Payments Standard.

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.0	Payment Information	PmtInf	1..n	M			
2.1	Payment Information +Payment Information Identification	PmtInfId	1..1	M	Value must be unique within the whole message (is used as reference in the Status Report "pain.002"). Only the SWIFT character set is permitted for this element (see section 2.4.1).		DU02
2.2	Payment Information +Payment Method	PmtMtd	1..1	M	"TRA" and "TRF": same meaning, no effect on the way the debit advices are controlled. In Switzerland the "TRA" value is processed in the same way as the "TRF" value, it has no special function. Furthermore, for check payments and payment instructions (postal mandates), the "CHK" value is permitted.	Type 1, 2.1, 2.2, 3, 4, 5, 6: May only contain "TRA" or "TRF". Type 7, 8: May only contain "CHK".	
2.3	Payment Information +Batch Booking	BtchBookg	0..1	O	The option "true" is recommended. "true": Wherever possible, one batch booking is made per "Payment Information" (B). A separate B-level must be created for each currency being transferred. Mixed B-levels may only be used as AOS by agreement with the financial institution, grouped according to currency and sometimes other criteria (e.g. charging options). The booking is identified using the Payment Information Identification (B). "false": One booking should be made for each "Credit Transfer Transaction Information" (C). Bookings are usually identified by the "Payment Identification" (C). Alternatively, the financial institution can also identify the booking using, for example, the "Payment Information Identification" (B) element. If this element is not sent, then the booking proceeds as for "true".		
2.4	Payment Information +Number Of Transactions	NbOfTxs	0..1	O	Not generally checked by Swiss institutions. Checking uses the corresponding element at A-Level.		
2.5	Payment Information +Control Sum	CtrlSum	0..1	O	Not generally checked by Swiss institutions. Checking uses the corresponding element at A-Level.		
2.6	Payment Information +Payment Type Information	PmtTpInf	0..1	O	Can be used at B-Level or C-Level, but generally not in both at the same time. Some institutions permit it to be sent at both levels but not the same sub-element at both levels.	Type 5, 7: Use at B-Level is recommended. Type 1, 2.1, 2.2: Use at C-Level is recommended.	CH07

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.7	Payment Information +Payment Type Information ++Instruction Priority	InstrPrtY	0..1	BD	The service that is initiated must first be agreed with the financial institution in question. For normal handling, the element can be omitted. The value "NORM" equates to execution with the value date as the next banking business day (depending on the currency). The value "HIGH" equates to the current Express processing, i.e. execution on the same value date, provided delivery is within the time for acceptance specified by the financial institution in question (depending on the currency). This kind of execution may result in additional charges. Any details about the Express processing should be sent at B-Level, because values at C-Level are ignored.		
2.8	Payment Information +Payment Type Information ++Service Level	SvcLvl	0..1	O	Service Level affects the way payment is made at the financial institution. The focus is on achieving the fastest possible credit for the creditor.	Type 5: Must be used.	
2.9	Payment Information +Payment Type Information ++Service Level +++Code	Cd {Or	1..1	D	Codes according "Payments External Code Lists" [7]. The following values will be accepted by the financial institutions: • SEPA (Single Euro Payments Area) • PRPT (EBA Priority Service) • SDVA (Same Day Value) • URGP (Urgent Payment) These values SEPA, PRPT, SDVA, URGP are taken into account if the financial institution offers the service in question, otherwise they are ignored. If used, then "Proprietary" must not be present.	Type 5: Must be used if "Service Level" is used, only "SEPA" permitted.	CH16
2.10	Payment Information +Payment Type Information ++Service Level +++Proprietary	Prtry Or}	1..1	BD	Is currently ignored by financial institutions. If used, then "Code" must not be present.	Type 5: Must not be used.	CH17
2.11	Payment Information +Payment Type Information ++Local Instrument	LclInstrm	0..1	D		Type 1, 2.1, 2.2, 7: Must be used.	CH21
2.12	Payment Information +Payment Type Information ++Local Instrument +++Code	Cd {Or	1..1	D	If used, then "Proprietary" must not be present.	Type 7: "CPP" must be used in combination with "PmtMtd" = "CHK".	CH16, CH17
2.13	Payment Information +Payment Type Information ++Local Instrument +++Proprietary	Prtry Or}	1..1	D	If used, then "Code" must not be present.	Type 1: "CH01" must be used. Type 2.1: "CH02" must be used. Type 2.2: "CH03" must be used. Each in combination with "PmtMtd" = "TRF"/"TRA".	CH16, CH17

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.14	Payment Information +Payment Type Information ++Category Purpose	CtgyPurp	0..1	O	Gives information about the purpose of the payment order.		
2.15	Payment Information +Payment Type Information ++Category Purpose +++Code	Cd	1..1	M	Codes according "Payments External Code Lists" [7]. If required, the code "SALA" or "PENS" must always be sent at B-Level. Must be used if "Category Purpose" is used.		CH16
2.17	Payment Information +Requested Execution Date	ReqdExctnDt	1..1	M	Contains the required date of execution. Where appropriate, the value data is automatically modified to the next possible banking/Post Office business day.		DT01, CH03, CH04, DT06
2.19	Payment Information +Debtor	Dbtr	1..1	M	The debtor is only identified by the "Debtor Account" element. Information in the "Debtor" field will be ignored. What is required is the master data for the financial institution for this debtor.		
2.19	Payment Information +Debtor ++Name	Nm	0..1	R	Recommendation: Use, maximum 70 characters.		
2.19	Payment Information +Debtor ++Postal Address	PstlAdr	0..1	O	Recommendation: Do not use.		
2.19	Payment Information +Debtor ++Identification	Id	0..1	O	Is currently ignored by financial institutions.		
2.19	Payment Information +Debtor ++Identification +++Organisation Identification	Orgld {Or	1..1	D	Only "BIC Or BEI" or an element from "Other" permitted. If used, the "Private Identification" must not be present.		CH16, CH17
2.19	Payment Information +Debtor ++Identification +++Private Identification	Prvtld Or}	1..1	D	Only "Date And Place Of Birth" or an element from "Other" permitted. If used, "Organisation Identification" must not be present.		
2.20	Payment Information +Debtor Account	DbtrAcct	1..1	M	Recommendation: IBAN should be used. . However, "Other" is currently also still permitted by some financial institutions for the proprietary account number. The "Type/Proprietary" element can also be used to define the way the debit advice is controlled.		
2.20	Payment Information +Debtor Account ++Identification	Id	1..1	M			

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.20	Payment Information +Debtor Account ++Identification +++IBAN	IBAN	{Or} 1..1	R	Recommendation: Use. If used, "Other" must not be present.		BE09, CH16, AC01
2.20	Payment Information +Debtor Account ++Identification +++Other	Othr	{Or} 1..1	D	If used, then "IBAN" must not be present.		CH17
2.20	Payment Information +Debtor Account ++Identification +++Other ++++Identification	Id	1..1	M	Proprietary bank or postal account number. Must be used if "Other" is used.		CH16, CH17, AC01
2.20	Payment Information +Debtor Account ++Type	Tp	0..1	O			
2.20	Payment Information +Debtor Account ++Type +++Code	Cd	{Or} 1..1	BD	Is currently ignored by financial institutions. If used, then "Proprietary" must not be present.		
2.20	Payment Information +Debtor Account ++Type +++Proprietary	Prtry	{Or} 1..1	D	Can be used to control the debit advice. The following options are available: • NOA No Advice • SIA Single Advice • CND Collective Advice No Details • CWD Collective Advice With Details If used, then "Code" must not be present.		CH16
2.20	Payment Information +Debtor Account ++Currency	Ccy	0..1	O	Is currently ignored by financial institutions.		
2.21	Payment Information +Debtor Agent	DbtrAgt	1..1	M	The Swiss financial institutions recommend entering the BIC or IID (institutional identification) in this element.		
2.21	Payment Information +Debtor Agent ++Financial Institution Identification	FinInstnId	1..1	M			
2.21	Payment Information +Debtor Agent ++Financial Institution Identification +++BIC	BIC	0..1	D	BIC of the Debtor Bank. If used, then "Clearing System Member Identification" must not be present.		RC01, AGNT

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.21	Payment Information +Debtor Agent ++Financial Institution Identification +++Clearing System Member Identification	ClrSysMmbld	0..1	D	If used, then "BIC" must not be present.		
2.21	Payment Information +Debtor Agent ++Financial Institution Identification +++Clearing System Member Identification ++++Clearing System Identification	ClrSysId	0..1	O			
2.21	Payment Information +Debtor Agent ++Financial Institution Identification +++Clearing System Member Identification ++++Clearing System Identification +++++Code	Cd {Or	1..1	D	Codes according "Payments External Code Lists" [7]. Only "CHBCC" is permitted in Switzerland. If used, then "Proprietary" must not be present.		CH16
2.21	Payment Information +Debtor Agent ++Financial Institution Identification +++Clearing System Member Identification ++++Clearing System Identification +++++Proprietary	Prtry Or}	1..1	N	Recommendation: Do not use. If used, then "Code" must not be present.		CH16
2.21	Payment Information +Debtor Agent ++Financial Institution Identification +++Clearing System Member Identification ++++Member Identification	Mmbld	1..1	M	IID of the Debtor Agent Must be used if "Clearing System Member Identification" is used.		RC01, AGNT
2.23	Payment Information +Ultimate Debtor	UltmtDbtr	0..1	O	Can be used at B-Level or C-Level but not at both at the same time.		
2.23	Payment Information +Ultimate Debtor ++Name	Nm	0..1	O	Maximum 70 characters		
2.23	Payment Information +Ultimate Debtor ++Postal Address	PstlAdr	0..1	O	This information is structured and defined in the same way as the definitions for the Creditor (Index 2.79).	Type 5: Is not forwarded in interbank traffic.	
2.23	Payment Information +Ultimate Debtor ++Identification	Id	0..1	O			
2.23	Payment Information +Ultimate Debtor ++Identification +++Organisation Identification	OrgId {Or	1..1	D	Only "BIC Or BEI" or an element from "Other" permitted. If used, the "Private Identification" must not be present.		CH17

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.23	Payment Information +Ultimate Debtor ++Identification +++Private Identification	PrvtId Or}	1..1	D	Only "Date And Place Of Birth" or an element from "Other" permitted. If used, "Organisation Identification" must not be present.		
2.24	Payment Information +Charge Bearer	ChrgBr	0..1	D	Can be used at B-Level or C-Level but not at both at the same time. Permitted codes are: • DEBT Borne by Debtor (ex OUR) • CRED Borne by Creditor (ex BEN) • SHAR Shared (ex. SHA) • SLEV Service Level	Type 5: If used, then "SLEV" must be used.	CH16
2.25	Payment Information +Charges Account	ChrgsAcct	0..1	O	Not normally used, in this case any charges are made to the "Debtor Account".		
2.25	Payment Information +Charges Account ++Identification	Id	1..1	M	Must be used if "Charges Account" is used.		
2.25	Payment Information +Charges Account ++Identification +++IBAN	IBAN {Or	1..1	R	Use of "IBAN" recommended. If used, "Other" must not be present.		AC01
2.25	Payment Information +Charges Account ++Identification +++Other	Othr Or}	1..1	D	If used, then "IBAN" must not be present.		
2.25	Payment Information +Charges Account ++Identification +++Other ++++Identification	Id	1..1	M	Proprietary bank or postal account number. Must be used if "Other" is used.		AC01
2.25	Payment Information +Charges Account ++Currency	Ccy	0..1	O	Is currently ignored by financial institutions.		

Table 7: Payment Information (PmtInf, B-Level)

2.3.3 Credit Transfer Transaction Information (CdtTrfTxInf, C-Level)

The Credit Transfer Transaction Information (C-Level of the message) contains all the information about the beneficiary and further information about the transaction (transmission information, purpose of payment etc.).

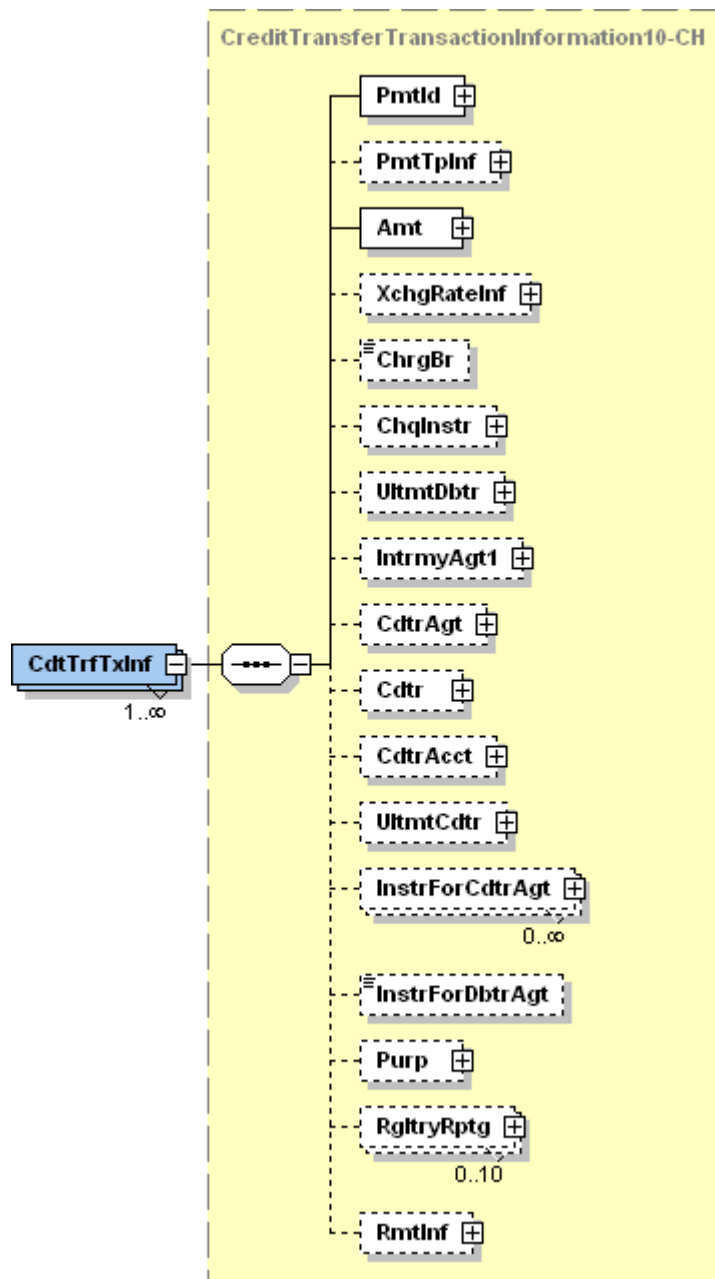


Figure 8: Credit Transfer Transaction Information (CdtTrfTxInf)

The following table specifies all the elements of the Credit Transfer Transaction Information that are relevant to the Swiss ISO 20022 Payments Standard.

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.27	Credit Transfer Transaction Information	CdtTrfTxInf	1..n	M			
2.28	Credit Transfer Transaction Information +Payment Identification	PmtId	1..1	M			
2.29	Credit Transfer Transaction Information +Payment Identification ++Instruction Identification	InstId	0..1	R	Recommendation: Should be used and be unique within the B-Level. Only the SWIFT character set is permitted for this element (see section 2.4.1).		DU05, CH21
2.30	Credit Transfer Transaction Information +Payment Identification ++End To End Identification	EndToEndId	1..1	M	Customer reference, normally forwarded as far as the beneficiary. Only the SWIFT character set is permitted for this element (see section 2.4.1).		
2.31	Credit Transfer Transaction Information +Payment Type Information	PmtTpInf	0..1	D	Can be used at B-Level or C-Level, but normally not in both at the same time. Some institutions permit it to be sent at both levels but not the same sub-element at both levels.	Type 5, 7: Use at B-Level is recommended. Type 1, 2.1, 2.2: Use at C-Level is recommended.	CH21
2.32	Credit Transfer Transaction Information +Payment Type Information ++Instruction Priority	InstPrty	0..1	O	Any information about the Express processing should be sent at B-Level, values in this element are ignored.	Type 5: Must not be used.	
2.33	Credit Transfer Transaction Information +Payment Type Information ++Service Level	SvcLvl	0..1	O	Service Level affects the way payment is made at the financial institution. The focus is on achieving the fastest possible credit for the creditor.	Type 5: Use is recommended.	
2.34	Credit Transfer Transaction Information +Payment Type Information ++Service Level +++Code	Cd {Or	1..1	D	Codes according "Payments External Code Lists" [7]. The following values will be accepted by the financial institutions: • SEPA (Single Euro Payments Area) • PRPT (EBA Priority Service) • SDVA (Same Day Value) • URGP (Urgent Payment) Other values from the external code list only to be used by agreement with the financial institution. If used, then "Proprietary" must not be present.	Type 5: Must be used if "Service Level" is used, only "SEPA" permitted.	CH16
2.35	Credit Transfer Transaction Information +Payment Type Information ++Service Level +++Proprietary	Prtry Or}	1..1	BD	Is currently ignored by financial institutions. If used, then "Code" must not be present.	Type 5: Must not be used.	CH17
2.36	Credit Transfer Transaction Information +Payment Type Information ++Local Instrument	LclInstm	0..1	D		Type 1, 2.1, 2.2, 7: Must be used.	CH21
2.37	Credit Transfer Transaction Information +Payment Type Information ++Local Instrument +++Code	Cd {Or	1..1	D	Codes according "Payments External Code Lists" [7]. If used, then "Proprietary" must not be present.	Type 7: "CPP" must be used in combination with "PmtMtd" = "CHK".	CH16, CH17

ISO 20022 Standard				Swiss ISO 20022 Payments Standard				
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error	
2.38	Credit Transfer Transaction Information +Payment Type Information ++Local Instrument +++Proprietary	Prtry	Or}	1..1	D	If used, then "Code" must not be present.	Type 1: "CH01" must be used. Type 2.1: "CH02" must be used. Type 2.2: "CH03" must be used. Each in combination with "PmtMtd" = "TRF"/"TRA".	CH16, CH17
2.39	Credit Transfer Transaction Information +Payment Type Information ++Category Purpose	CtgyPurp		0..1	O	Any information about the purpose of the payment order should be sent at B-Level, values in this element are ignored.		
2.42	Credit Transfer Transaction Information +Amount	Amt		1..1	M	Either as "Instructed Amount" or "Equivalent Amount". It is recommended to create one B-Level for each currency transferred.		
2.43	Credit Transfer Transaction Information +Amount ++Instructed Amount	InstdAmt	{Or	1..1	D	Amount must be 0.01 or more and 999999999.99 or less. If used, then "Equivalent Amount" must not be present.	Type 1, 2.1, 2.2, 3: Must contain "CHF" or "EUR". Type 4: All currencies except "CHF" and "EUR" permitted. Type 5: Must contain "EUR". Type 7: Must contain "CHF".	AM01, AM02, CURR, AM03, CH20
2.44	Credit Transfer Transaction Information +Amount ++Equivalent Amount	EqvtAmt	Or}	1..1	BD	This element may only be used by agreement with the instructed financial institution. If used, then "Instructed Amount" must not be present.	Type 1, 2.1, 2.2: Must not be used.	CH17
2.45	Credit Transfer Transaction Information +Amount ++Equivalent Amount +++Amount	Amt		1..1	M	Amount must be 0.01 or more and 999999999.99 or less. Must be used if "Equivalent Amount" is used.		AM01, AM02, CURR, AM03, CH20
2.46	Credit Transfer Transaction Information +Amount ++Equivalent Amount +++Currency Of Transfer	CcyOfTrf		1..1	M	Must be used if "Equivalent Amount" is used.		CURR, AM03
2.47	Credit Transfer Transaction Information +Exchange Rate Information	XchgRateInf		0..1	BD	Exchange rate Exchange rate in a currency unit of 1 (e.g. £, \$, EUR). For currencies where the currency unit = 100 (e.g. YEN, DKK, SEK) the exchange rate must be reduced to the unit of 1. This element may only be used by agreement with the instructed financial institution.		CH17
2.51	Credit Transfer Transaction Information +Charge Bearer	ChrgBr		0..1	O	Can be used at B-Level or C-Level but not at both at the same time. Zulässige Codes sind: • DEBT Borne by Debtor (ex OUR) • CRED Borne by Creditor (ex BEN) • SHAR Shared (ex. SHA) • SLEV Service Level	Type 5: If used then "SLEV" must be used.	CH07, CH16
2.52	Credit Transfer Transaction Information +Cheque Instruction	ChqInstr		0..1	D	May only be used in combination with "PmtMtd" = "CHK".	Type 1, 2.1, 2.2, 3, 4, 5, 6: Must not be used.	CH17

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.53	Credit Transfer Transaction Information +Cheque Instruction ++Cheque Type	ChqTp	0..1	O			
2.58	Credit Transfer Transaction Information +Cheque Instruction ++Delivery Method	DlvryMtd	0..1	O			
2.59	Credit Transfer Transaction Information +Cheque Instruction ++Delivery Method +++Code	Cd {Or	1..1	D	If used, then "Proprietary" must not be present.		
2.60	Credit Transfer Transaction Information +Cheque Instruction ++Delivery Method +++Proprietary	Prtry Or}	1..1	D	If used, then "Code" must not be present.		
2.70	Credit Transfer Transaction Information +Ultimate Debtor	UltmtDbtr	0..1	O	Usually not used. Can be used at B-Level or C-Level but not at both at the same time.		CH07
2.70	Credit Transfer Transaction Information +Ultimate Debtor ++Name	Nm	0..1	O	Maximum 70 characters		
2.70	Credit Transfer Transaction Information +Ultimate Debtor ++Postal Address	PstlAdr	0..1	O	Simultaneous use of the structured elements <StrtNm> / <BldgNb> / <PstCd> / <TwnNm> and the unstructured element <AdrLine> is not permitted.	Type 5: Is not forwarded in interbank traffic.	
2.70	Credit Transfer Transaction Information +Ultimate Debtor ++Identification	Id	0..1	O			
2.70	Credit Transfer Transaction Information +Ultimate Debtor ++Identification +++Organisation Identification	Orgld {Or	1..1	D	Only "BIC Or BEI" or an element from "Other" permitted. If used, the "Private Identification" must not be present.		CH17
2.70	Credit Transfer Transaction Information +Ultimate Debtor ++Identification +++Private Identification	Prvtld Or}	1..1	D	Only "Date And Place Of Birth" or an element from "Other" permitted. If used, "Organisation Identification" must not be present.		
2.71	Credit Transfer Transaction Information +Intermediary Agent 1	IntrmyAgt1	0..1	BD	This element may only be used by agreement with the instructed financial institution. If used, generally with BIC.	Type 4 and 6: May be present. Other types: Must not be sent.	RC01

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.77	Credit Transfer Transaction Information +Creditor Agent	CdtrAgt	0..1	D		Type 1, 2.1, 7, 8: Must not be used. Type 3: Creditor Agent can be omitted where IBAN/QR-IBAN is sent in the Creditor Account. Type 5: The Creditor Agent does not need to be entered for SEPA payments (payment type 5). If both the IBAN and the BIC are sent, the Creditor Agent will be worked out from the IBAN when the payment is executed. For all other payment types, the "Creditor Agent" must be present.	CH17, CH21
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification	FinInstnId	1..1	M	Must be used if "Creditor Agent" is used.	Type 2.2: • V1: IID • V2: IID and postal account of the bank • V3: Postal account of the bank and name of the bank Type 3: • V1: IID • V2: BIC Domestic (CH/LI) • V3: Type 4: • V1: BIC Domestic (CH/LI) • V2: IID and Name and address of financial institution • V3: Name and address of financial institution Type 5: BIC Type 6: Recommendation: Use BIC. • V1: "BIC International" • V2: Bank code (without IID) and name and address of financial institution • V3: Name and address of financial institution	
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++BIC	BIC	0..1	D	If used, then "Clearing System Member Identification" must not be present.	Type 3(V2), 4(V1): May be present. Type 5: May be present. With payment type 5, the Creditor Agent is always worked out from the IBAN for execution of the payment. Type 6: Must contain "BIC International".	AGNT
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Clearing System Member Identification	ClrSysMmbld	0..1	D	If used, then "BIC" must not be present.	Type 2.2(V1, V2), 3(V1), 4(V2), 6: May be present. Type 5: Must not be used.	CH17

ISO 20022 Standard				Swiss ISO 20022 Payments Standard				
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error	
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Clearing System Member Identification ++++Clearing System Identification	ClrSysId	0..1	D		Type 6: May be used. Other types: Must be used if "Clearing System Member Identification" is used.		
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Clearing System Member Identification ++++Clearing System Identification +++++Code	Cd 						

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Postal Address ++++Sub Department	SubDept	0..1	O	Is currently ignored by financial institutions.		
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Postal Address ++++Street Name	StrtNm	0..1	R	Recommendation: Use.		
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Postal Address ++++Building Number	BldgNb	0..1	R	Recommendation: Use.		
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Postal Address ++++Post Code	PstCd	0..1	R	Recommendation: Use.		
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Postal Address ++++Town Name	TwnNm	0..1	R	Recommendation: Use.		
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Postal Address ++++Country Sub Division	CtrySubDvsn	0..1	O	Is currently ignored by financial institutions.		
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Postal Address ++++Country	Ctry	0..1	R	Recommendation: Use.		AG06
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Postal Address ++++Address Line	AdrLine	0..7	O	Maximum two lines permitted.		

ISO 2022 Standard				Swiss ISO 2022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Other	Othr	0..1	D		Type 2.2(V2, V3): Must be present. Other types: Must not be present.	CH17, CH21
2.77	Credit Transfer Transaction Information +Creditor Agent ++Financial Institution Identification +++Other ++++Identification	Id	1..1	M	Must be used if "Other" is used.	Type 2.2(V2, V3): Must contain postal account of bank (example: "80-2-2" or "800000022").	AGNT, RC01
2.79	Credit Transfer Transaction Information +Creditor	Cdtr	0..1	D		Type 1: May be present. Other types: Must be present.	CH21
2.79	Credit Transfer Transaction Information +Creditor ++Name	Nm	0..1	M	Must be used if "Creditor" is used, maximum 70 characters.		CH21
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address	PstlAdr	0..1	O	If possible structured. Simultaneous use of the structured elements <StrtNm>/<BldgNb>/<PstCd>/<TwnNm> and the unstructured element <AdrLine> is not permitted.	Type 5, 6: It is recommended to use the <Ctry> and <AdrLine> elements. If information is missing, it can lead to rejections. Type 7: Must be structured.	CH16
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Address Type	AdrTp	0..1	O	Is currently ignored by financial institutions.		CH17
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Department	Dept	0..1	O	Is currently ignored by financial institutions.		CH17
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Sub Department	SubDept	0..1	O	Is currently ignored by financial institutions.		CH17
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Street Name	StrtNm	0..1	R	Recommendation: Use.	Type 5: Recommendation: Do not use.	CH17
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Building Number	BldgNb	0..1	R	Recommendation: Use.	Type 5: Recommendation: Do not use.	CH17

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Post Code	PstCd	0..1	D	Recommendation: Use.	Type 5: Recommendation: Do not use. Type 7, 8: Must be present.	CH17, CH21
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Town Name	TwnNm	0..1	D	Recommendation: Use.	Type 5: Recommendation: Do not use. Type 7, 8: Must be present.	CH17, CH21
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Country Sub Division	CtrySubDvsn	0..1	O	Is currently ignored by financial institutions.		CH17
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Country	Ctry	0..1	D	It is recommended to supply this element, especially in the case of foreign payments.	Type 7, 8: Must be present. Type 7: Must contain CH or LI.	CH21, BE09
2.79	Credit Transfer Transaction Information +Creditor ++Postal Address +++Address Line	AdrLine	0..7	D	Maximum two lines permitted. It is recommended to supply this element in the case of foreign payments.	Type 7: Must not be used.	CH17
2.79	Credit Transfer Transaction Information +Creditor ++Identification	Id	0..1	D		Type 1, 2.1, 2.2, 7, 8: Must not be used.	CH17
2.79	Credit Transfer Transaction Information +Creditor ++Identification +++Organisation Identification	OrgId {Or	1..1	D	Either the "BIC Or BEI" element or an element from "Other" may be used. If used, the "Private Identification" must not be present.		
2.79	Credit Transfer Transaction Information +Creditor ++Identification +++Private Identification	PrvtId Or}	1..1	D	Either the "Date And Place Of Birth" element or an element from "Other" may be used. If used, "Organisation Identification" must not be present.		
2.80	Credit Transfer Transaction Information +Creditor Account	CdtrAcct	0..1	D	Must not be used in combination with "PmtMtd" = "CHK".	Type 1, 2.1, 2.2, 3, 4, 5, 6: Must be present. Type 2.2: Must not contain a postal account number. Type 7, 8: Must not be used.	CH17, CH21
2.80	Credit Transfer Transaction Information +Creditor Account ++Identification	Id	1..1	M	Recommendation: Whenever possible the IBAN should be used. Must be used if "Creditor Account" is used.		

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.80	Credit Transfer Transaction Information +Creditor Account ++Identification +++IBAN	IBAN	1..1	D	If used, "Other" must not be present.	Type 1, 2.1: Must not be used. Type 2.2, 4, 6: Use is recommended. Type 3: If used, an IBAN or QR-IBAN must be present. Type 5: Must be present.	AC01, CH21, BE09, CH16
2.80	Credit Transfer Transaction Information +Creditor Account ++Identification +++Other	Othr	1..1	D	If used, then "IBAN" must not be present.	Type 1, 2.1: Must be present. Type 2.2, 3, 4, 6: May be present. Type 5: Must not be used.	CH17, CH21
2.80	Credit Transfer Transaction Information +Creditor Account ++Identification +++Other ++++Identification	Id	1..1	M	Must be used if "Other" is used.	Type 1: Must contain an ISR participant number: • 9-character with hyphens: VV-XXXXXX-P («X» = serial number right-aligned, no zeros on the left) • without hyphensVVXXXXXXP («X» = serial number right-aligned, zeros on the left) Type 2.1: Must contain a postal account number (e.g. "70-4152-8" or "700041528").	AC01
2.81	Credit Transfer Transaction Information +Ultimate Creditor	UltmtCdtr	0..1	D	Ultimate creditor In this element, the creditor and/or the debtor can further specify the ultimate creditor, for their own purposes. The data is simply forwarded by the financial institutions (where technically possible).	Type 1, 2.1, 2.2: Must not be used.	CH17
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Name	Nm	0..1	M	Must be used if "Ultimate Creditor" is used, maximum 70 characters.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address	PstlAdr	0..1	D	If possible structured. Simultaneous use of the structured elements <StrtNm>/<BldgNb>/<PstCd>/<TwnNm> and the unstructured element <AdrLine> is not permitted.	Type 5: Is not forwarded in interbank traffic.	CH17
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Address Type	AdrTp	0..1	O	Is currently ignored by financial institutions.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Department	Dept	0..1	O	Is currently ignored by financial institutions.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Sub Department	SubDept	0..1	O	Is currently ignored by financial institutions.		

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Street Name	StrtNm	0..1	R	Recommendation: Use.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Building Number	BldgNb	0..1	R	Recommendation: Use.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Post Code	PstCd	0..1	R	Recommendation: Use.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Town Name	TwnNm	0..1	R	Recommendation: Use.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Country Sub Division	CtrySubDvsn	0..1	O	Is currently ignored by financial institutions.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Country	Ctry	0..1	R	Recommendation: Use.		BE09
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Postal Address +++Address Line	AdrLine	0..7	O	Maximum two lines permitted.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Identification	Id	0..1	D		Type 7, 8: Must not be used.	CH17
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Identification +++Organisation Identification	OrgId {Or	1..1	D	Either the "BIC Or BEI" element or an element from "Other" may be used. If used, the "Private Identification" must not be present.		
2.81	Credit Transfer Transaction Information +Ultimate Creditor ++Identification +++Private Identification	PrvtId Or}	1..1	D	Either the "Date And Place Of Birth" element or an element from "Other" may be used. If used, "Organisation Identification" may not be present.		

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.82	Credit Transfer Transaction Information +Instruction For Creditor Agent	InstrForCdtAgt	0..n	BD	This element may only be used by agreement with the instructed financial institution. This element may, depending on the financial institution, contain different forms and instructions.	Type 1, 2.1, 2.2, 3, 5, 7, 8: Must not be used.	CH16, CH17
2.83	Credit Transfer Transaction Information +Instruction For Creditor Agent ++Code	Cd	0..1	D			
2.84	Credit Transfer Transaction Information +Instruction For Creditor Agent ++Instruction Information	InstrInf	0..1	D			CH16
2.85	Credit Transfer Transaction Information +Instruction For Debtor Agent	InstrForDbtrAgt	0..1	BD	This element may only be used by agreement with the instructed financial institution as AOS. May be used, for example, to indicate payment products specific to the financial institution. This element may, depending on the financial institution, contain different forms and instructions.	Type 7: Must not be used.	CH16
2.86	Credit Transfer Transaction Information +Purpose	Purp	0..1	O		Type 1: Element is not forwarded.	CH17
2.87	Credit Transfer Transaction Information +Purpose ++Code	Cd	1..1	M	Codes according "Payments External Code Lists" [7]. Must be used if "Purpose" is used.		
2.98	Credit Transfer Transaction Information +Remittance Information	RmtInf	0..1	O	Either structured or unstructured.		
2.99	Credit Transfer Transaction Information +Remittance Information ++Unstructured	Ustrd	0..n	D	Only one occurrence is allowed, maximum 140 characters.	Type 1: Must not be used.	CH17
2.100	Credit Transfer Transaction Information +Remittance Information ++Structured	Strd	0..n	D	Only one occurrence is allowed.	Type 1: Must be used. Type 2.1, 2.2: Must not be used. Type 3: May be used. Element must be used in association with QR-IBAN. Type 4, 5, 6, 7, 8: May only contain maximum 140 characters including XML tags.	CH17, CH15, CH21
2.101	Credit Transfer Transaction Information +Remittance Information ++Structured +++Referred Document Information	RfrdDocInf	0..n	D	Is currently ignored by financial institutions.	Type 5: Must not be used.	CH17
2.109	Credit Transfer Transaction Information +Remittance Information ++Structured +++Referred Document Amount	RfrdDocAmt	0..1	D	Is currently ignored by financial institutions.	Type 5: Must not be used.	CH17

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.120	Credit Transfer Transaction Information +Remittance Information ++Structured +++Creditor Reference Information	CdtrRefInf	0..1	D		Type 1: Must be used. Type 5: May be used.	CH21, CH16
2.121	Credit Transfer Transaction Information +Remittance Information ++Structured +++Creditor Reference Information ++++Type	Tp	0..1	D		Type 3, 4, 6: May be used. Type 5: Must be used if "Creditor Reference Information" is used.	CH21
2.122	Credit Transfer Transaction Information +Remittance Information ++Structured +++Creditor Reference Information ++++Type +++++Code Or Proprietary	CdOrPrtry	1..1	M	Must be used if "Type" is used.		
2.123	Credit Transfer Transaction Information +Remittance Information ++Structured +++Creditor Reference Information ++++Type +++++Code Or Proprietary +++++Code	Cd {Or	1..1	D	If used, then "Proprietary" must not be present.	Type 5: Must be used if "Creditor Reference Information" is used. Only the code "SCOR" is permitted. Other types: Must be used when "ISO Creditor Reference" is used according to ISO 11649. Only the code "SCOR" is permitted.	CH21, CH16
2.124	Credit Transfer Transaction Information +Remittance Information ++Structured +++Creditor Reference Information ++++Type +++++Code Or Proprietary +++++Proprietary	Prtry Or}	1..1	D	If used, then "Code" must not be present.	Type 5: Must not be used. Type 3: Can contain "QRR" to give the structured reference (QR reference) from the QR-bill. Type 3, 4, 6: Can contain "IPI" to give the structured reference according to "IPI". Note: the IPI slip is due be withdrawn from circulation by 31.03.2020 at the latest.	CH17
2.125	Credit Transfer Transaction Information +Remittance Information ++Structured +++Creditor Reference Information ++++Type +++++Issuer	Issr	0..1	O			

ISO 20022 Standard				Swiss ISO 20022 Payments Standard			
Index	Message Item	XML Tag	Mult.	St.	General Definition	Payment Type-specific Definition	Error
2.126	Credit Transfer Transaction Information +Remittance Information ++Structured +++Creditor Reference Information ++++Reference	Ref	0..1	D		Type 1: Must contain an ISR reference number. Type 5: Must be used if "Creditor Reference Information" is used, may contain "Creditor Reference" according to ISO 11649. Other types: Structured references, for example ISO reference (ISO 11649) or QR reference or IPI reference. Note: the IPI slip is due be withdrawn from circulation by 31.03.2020 at the latest.	CH16, CH21
2.127	Credit Transfer Transaction Information +Remittance Information ++Structured +++Invoicer	Invcr	0..1	D	Is currently ignored by financial institutions.	Type 5: Must not be used.	CH17
2.128	Credit Transfer Transaction Information +Remittance Information ++Structured +++Invoicee	Invcee	0..1	D	Is currently ignored by financial institutions.	Type 5: Must not be used.	CH17
2.129	Credit Transfer Transaction Information +Remittance Information ++Structured +++Additional Remittance Information	AddtlRmtInf	0..3	O		Type 1: The element may only be used by agreement with the instructed financial institution. Type 2.1, 2.2, 4, 5, 6, 7, 8: Must not be used. Type 3: May occur once.	CH17

Table 8: Credit Transfer Transaction Information (CdtTrfTxInf, C-Level)

2.4 Business specifications

2.4.1 Character set

In ISO 20022 XML messages, characters from the Unicode character set UTF-8 (8-Bit Unicode Transformation Format) must always be used (message has to be UTF-8 encoded). In XML messages under the Swiss ISO 20022 Payments Standard, only the "Latin Character Set" from this is permitted.

Characters without conversion (SWIFT character set)

The following characters, corresponding to the SWIFT character set, are accepted without conversion, as in the EPC Guidelines:

a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z

A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

. (full stop)

, (comma)

: (colon)

' (apostrophe, also accepted as escaped character ')

+ (plus)

- (minus)

/ (slash)

((open round bracket)

) (closed round bracket)

? (question mark)

space

In addition, certain other characters are also permitted in Switzerland (specified in Appendix D). These characters can be converted if necessary for subsequent further processing. If characters are sent that are not specified in Appendix D, the message is rejected.

Character set for references

For certain references, only characters from the SWIFT character set are permitted:

- Message Identification (A-Level)
- Payment Information Identification (B-Level)
- Instruction Identification (C-Level)
- End To End Identification (C-Level)

Furthermore, these references must not begin with "/" and must not contain "//".

It is recommended to avoid the use of spaces in the "Message Identification" and "Payment Information Identification" references.

Note: In general, the specifications produced by the EPC apply, as given in the document «EPC230-15 EPC Clarification Paper on the Use of Slashes in References, Identifications and Identifiers».

Formatting conventions for fields showing amounts

In the XML context, different formats are permitted in fields showing amounts. To ensure that the payment is processed without problem, the following formatting is recommended:

- Do not use leading or final filler characters (space, white space, zero, plus signs).
- Always use a decimal point.
- Even where the amount is a whole number, always send decimal places (the number of decimal places depends on the currency).

Certain financial institutions may define further restrictions if required.

Regardless of the format that is used, financial institutions are allowed to convert all fields showing amounts into a standard format for further processing.

2.4.2

References

For every credit transfer, various references and identifiers ensure that the transaction can always be uniquely identified at all stages.

A distinction is made between end-to-end references, which are valid for the whole transmission route from the debtor to the creditor and point-to-point references, which are only used between the individual agents (financial institutions) (Transaction Reference and Instruction Identification).

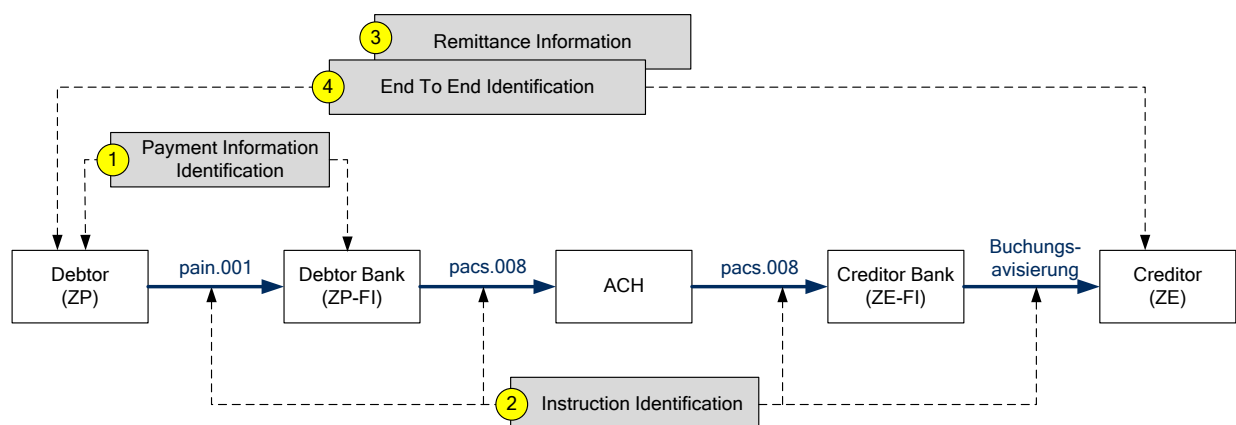


Figure 9: References

2.4.2.1 References in the processing chain

Payment Information Identification ①

This reference is assigned by the software of the debtor and sent in the pain.001 (in the B-Level). It acts as a reference for a payment group (group of individual transactions with the same account to be debited, required execution date etc.).

Instruction Identification ②

This reference is unique within the sending and receiving parties (serial number). It can be newly assigned by either party (in the pain.001 at C-Level).

2.4.2.2 Customer References

In addition to the references mentioned above in the processing chain, a Customer Reference (creditor reference) can also be sent in the Remittance Information, in structured or unstructured form.

Structured Customer Reference as Remittance Information ③

The following three types of structured reference can be sent in the "CdtrRefInf/Ref" element:

Using the Swiss QR reference

In Switzerland, the QR reference enables the creditor automatically to compare their bills and the incoming payments. In format, the QR reference corresponds to the current ISR reference: 26 numerical positions (freely assignable by the customer), plus a check digit.

Using the Swiss ISR reference

In Switzerland the ISR reference enables the creditor to make automatic comparisons between his bills and the incoming payments.

Using the ISO Creditor Reference

The ISO Creditor Reference (ISO 11649) enables the creditor to make automatic comparisons between his bills and the incoming payments.

Use of the "Purpose of the payment" (IPI reference)

The same procedure applies to the IPI reference as to the ISR reference.

Note: The IPI should be taken no later than 31 March 2020 from circulation.

Unstructured Customer Reference as Remittance Information ③

Beside of the structured reference, this can also be sent in unstructured form, maximum length 140 characters.

End To End Identification 4

End To End Identification is used for the unique identification of a transaction and is assigned by the debtor. Unlike the Instruction Identification, the End To End Identification (e.g. the order number) is passed unchanged along the complete processing chain.

2.4.3 Debtor identification

The debtor is identified by the "Initiating Party" element. In principle, it is up to the debtor whether to use a name or a corresponding identification number within the sub-elements prescribed within the scheme.

2.4.4 Duplicate checking

The way duplicates are checked in pain.001 messages that are submitted may vary from one financial institution to another. Checks may be carried out on individual content elements or at the level of the delivery channel.

At Swiss financial institutions, duplicate checking is carried out at least at Document (Message) level. For that reason, the "Message Identification" (<MsgId>) element must contain a unique entry, so that it can serve as the criterion for preventing duplicate processing of files that have been accidentally submitted twice. Most financial institutions check that it is unique over a period of at least 90 days.

It is recommended that the "Message Identification" is normally kept unique for as long as possible, to simplify subsequent searches over a long period.

2.4.5 Use of address information

The addresses of the parties involved, such as the Creditor, can be entered in the "Name" and "Postal Address" elements, either in structured form (recommended sub-elements are: "Street Name", "Building Number", "Post Code", "Town Name", and "Country") or unstructured (sub-element "Address Line"). In the case of SEPA payments, it is recommended that the "Country" and "Address Line" elements are used. In the case of QR-bills, only structured addresses are allowed for in the QR code.

It should be noted that most of today's systems and standards allow a range of 4*35 positions for the address. It should therefore be assumed at least in a parallel phase that the address information sent in the "pain.001" will have to be converted to a range of 4*35 positions during the processing chain.

For that reason it is recommended that addresses are sent in one of the following two versions in the "pain.001":

"Structured" version:

- "Name" up to 70 positions
- "Street Name", "Building Number" together max. 35 positions
- "Post Code", "Town Name" together max. 35 positions
- "Country": It is recommended that this sub-element is also sent in the elements "Creditor Agent" and "Creditor", especially in the case of foreign payments

In the "pain.001" this would appear as follows, for example:

```
<Cdtr>
<Nm>MUSTER AG</Nm>
  <PstlAdr>
    <StrtNm>Musterstrasse</StrtNm>
    <BldgNb>24</BldgNb>
    <PstCd>3000</PstCd>
    <TwnNm>Bern</TwnNm>
    <Ctry>CH</Ctry>
  </PstlAdr>
</Cdtr>
```

"Unstructured" version:

- "Name" up to 70 positions
- "Country": It is recommended that this sub-element is also sent in the elements "Creditor Agent" and "Creditor", especially in the case of foreign payments.
- First occurrence of "Address Line": max. 35 positions, giving the street and house number
- Second occurrence of "Address Line": max. 35 positions, giving the postcode and town

In the "pain.001" this would appear as follows, for example:

```
<Cdtr>
<Nm>MUSTER AG</Nm>
  <PstlAdr>
    <Ctry>CH</Ctry>
    <AdrLine>Musterstrasse 24</AdrLine>
    <AdrLine>3000 Bern</AdrLine>
  </PstlAdr>
</Cdtr>
```

3 Example of a payment order as "pain.001" message

3.1 The business situation in the example

For the details of the example in XML, the following assumptions were made:

The debtor "Muster AG, Seldwyla, CH" creates a "pain.001" message dated 15.02.2010 with two payment groups. Payment group 1 contains a single ISR transaction on 22.02.2010. Payment Group 2 contains two transactions for 18.02.2010, one IS payment and one SEPA bank payment using IBAN and BIC.

For XML versions of the example, see Appendix A.

3.2 Data in the example

Payment group 1 with one ISR transaction

Data for payment group 1:

Field designation	Content
Identifier for the group	PMTINF-01
Requested execution date	22.02.2010
Name/address of the debtor	MUSTER AG, SELDWYLA, CH
IBAN of the debtor	CH72 8000 5000 0888 7776 6
BIC of the debtor's financial institution	RAIFCH22005

Data for the transaction:

Field designation	Content
Identifier for the transaction	INSTRID-01-01
End To End Identification	ENDTOENDID-001
Currency/Amount	CHF 3949.75
ISR participation number	01-52142-5
ISR reference number	21 00000 00003 13947 14300 09017

Payment group 2 with one IS payment and one IBAN bank payment

Data for payment group 2:

Field designation	Content
Identifier for the group	PMTINF-02
Requested execution date	18.02.2010
Name/address of the debtor	MUSTER AG, SELDWYLA, CH
IBAN of the debtor	CH72 8000 5000 0888 7776 6
BIC of the debtor's financial institution	RAIFCH22005

Data for the first transaction in this payment group:

Field designation	Content
Identifier for the transaction	INSTRID-02-01
End To End Identification	ENDTOENDID-002
Currency/Amount	CHF 8'479.25
Name/address of the creditor	Robert Scheider SA Rue de la gare 24 2501 Biel
Postal account number	25-9034-2
Purpose (unstructured)	Rechnung Nr. 408

Data for the second transaction in this payment group:

Field designation	Content
Identifier for the transaction	INSTRID-02-02
End To End Identification	ENDTOENDID-003
Currency/Amount	EUR 3'421.00
Name/address of the creditor	Peter Haller Rosenauweg 4 D-80036 München
IBAN of the creditor	DE62 0076 2011 0623 8529 57
Purpose (structured)	RF712348231
BIC of the creditor's financial institution	UBSWDEFF

Appendix A: XML schema and example

XML-Schema

The original XML schema

- ***pain.001.001.03.ch.02.xsd***

is published on the www.iso-payments.ch website.

It should preferably be opened using specific XML software.

Example

On the www.iso-payments.ch website, the example described in this document is published as XML file:

- ***pain_001_Beispiel_1.xml*** (Example from section 3)

Appendix B: Symbols for graphical XML representation

Expand and collapse symbols

Wherever parts of the tree structure can be expanded or collapsed, expand and collapse symbols are added to the symbols in the graphical representation. These consist of a small square containing either a plus sign or a minus sign.

- ⊞ Expand symbol: if you click on the plus sign the tree structure is expanded so subsequent symbols (attributes or child elements) are displayed. The expand symbol then changes to a collapse symbol.
- ⊞ Collapse symbol: if you click on the minus sign, the tree structure is collapsed again, i.e. the subsequent symbols disappear again. The collapse symbol then changes to an open symbol again.

Elements

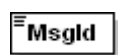
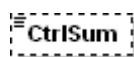
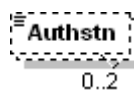




Elements are shown as rectangles containing the name of the element. For mandatory elements, the rectangle is shown with a continuous line, for optional elements the line is dotted.

For complex elements, which, unlike simple elements could contain attributes or other elements (so-called child elements), the rectangle has an expand or collapse symbol on the right.

Three little lines in the top left corner of the rectangle indicate that the element contains data (otherwise the element contains child elements).

Elements which are allowed to occur more than once are shown as 2 superimposed rectangles. Bottom right, you can see the minimum and maximum number of occurrences.

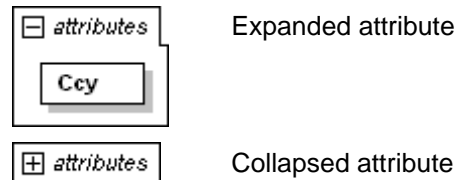
Examples:

	Mandatory simple element
	Optional simple element
	Optional simple element which can occur a maximum of twice
	Mandatory complex element (with child elements) with collapsed tree structure
	Mandatory complex element (with child elements) with expanded tree structure
	Mandatory complex element (with child elements) which can occur any number of times
	Mandatory complex element (with attributes)

Attributes

Attributes are also shown as rectangles, containing the name of the attribute. They are surrounded by a box containing the word "attributes" and an expand or collapse symbol. For mandatory attributes, the rectangle is drawn with a continuous line, for optional attributes the line is dotted.

Example:



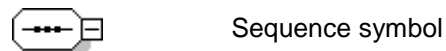
Choice

To the right of a choice symbol, the connecting lines branch off to the possible elements, of which only one can be present in the XML message.



Sequence

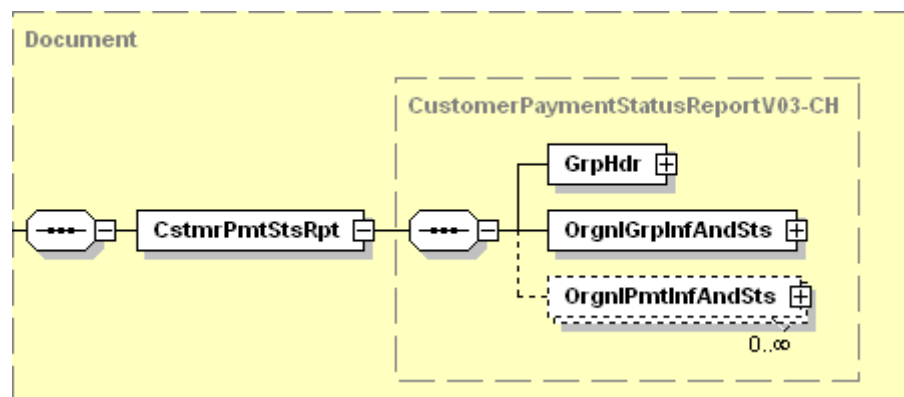
To the right of a sequence symbol, the connecting lines branch off to the elements which are to be used in the XML message in the order shown (optional elements and attributes can of course also be omitted).



Frame

For increased clarity, all the child elements, attributes and other information belonging to a complex element are surrounded by a dotted frame with a yellow shaded background.

Example:



Appendix C: Mapping the Swiss QR code in the payment part of the QR-bill in pain.001

QR element	Element name	St.	General definition	Element pain.001
QRCH +Header ++QRType	QRType	M	QR type Definitive indicator for the QR code. Fixed value "SPC" (Swiss Payments Code)	N/A
QRCH +Header ++Version	Version	M	Version Contains the version of the specification (IG) that was in force when the QR code was generated. The first two positions indicate the main version, and the following two positions the sub-version. Fixed value "0100" for Version 1.0	N/A
QRCH +Header ++Coding	Coding	M	Coding type Character set code. Fixed value 1 (indicates Latin Character Set)	N/A
QRCH +CdtrlInf ++IBAN	IBAN	M	IBAN <i>Account</i> IBAN or QR-IBAN of the beneficiary.	2.80 - Creditor Account – IBAN
QRCH +CdtrlInf ++Cdtr +++Name	Name	M	Name Name or company name of the creditor according to the account name Note: always the same as the account-holder	2.79 Creditor – Name
QRCH +CdtrlInf ++Cdtr +++StrtNm	StrtNm	O	Street Street name/PO Box from the creditor's address	2.79 Creditor - Street Name
QRCH +CdtrlInf ++Cdtr +++BldgNb	BldgNb	O	Building number Building number from the creditor's address	2.79 Creditor - Building Number
QRCH +CdtrlInf ++Cdtr +++PstCd	PstCd	M	Post code Post code from the creditor's address	2.79 Creditor - Post Code
QRCH +CdtrlInf ++Cdtr +++TwnNm	TwnNm	M	Town Town from the creditor's address	2.79 Creditor - Town Name
QRCH +CdtrlInf ++Cdtr +++Ctry	Ctry	M	Country Country from the creditor's address	2.79 Creditor - Country
QRCH +UltmtCdtr ++Name	Name	D	Name Name or company name of the ultimate creditor	2.81 Ultimate Creditor – Name
QRCH +UltmtCdtr ++StrtNm	StrtNm	O	Street Street name/PO Box from the ultimate creditor's address	2.81 Ultimate Creditor - Street Name
QRCH +UltmtCdtr ++BldgNb	BldgNb	O	Building number Building number from the ultimate creditor's address	2.81 Ultimate Creditor - Building Number
QRCH +UltmtCdtr ++PstCd	PstCd	D	Post code Post code from the ultimate creditor's address	2.81 Ultimate Creditor - Post Code
QRCH +UltmtCdtr ++TwnNm	TwnNm	D	Town Town from the ultimate creditor's address	2.81 Ultimate Creditor - Town Name
QRCH +UltmtCdtr ++Ctry	Ctry	D	Country Country from the ultimate creditor's address	2.81 Ultimate Creditor - Country

QR element	Element name	St.	General definition	Element pain.001
QRCH +CcyAmtDate ++Amt	Amt	O	Amount Payment amount	2.43 Instructed Amount
QRCH +CcyAmtDate ++Ccy	Ccy	M	Currency Payment currency, 3-character alphabetical currency code according to ISO 4217	2.43 Instructed Amount
QRCH +CcyAmtDate ++ReqdExctnDt	ReqdExctnDt	O	Date <i>Payable by</i> Due date by which the biller requires the payment to be made, at the latest (according to their terms of payment)	N/A
QRCH +UltmtDbtr ++Name	Name	D	Name Name or company name of the ultimate debtor	2.70 Ultimate Debtor – Name
QRCH +UltmtDbtr ++StrtNm	StrtNm	O	Street Street name/PO Box from the ultimate debtor's address	2.70 Ultimate Debtor – Street Name
QRCH +UltmtDbtr ++BldgNb	BldgNb	O	Building number Building number from the ultimate debtor's address	2.70 Ultimate Debtor – Building Number
QRCH +UltmtDbtr ++PstCd	PstCd	D	Post code Post code from the ultimate debtor's address	2.70 Ultimate Debtor – Post Code
QRCH +UltmtDbtr ++TwnNm	TwnNm	D	Town Town from the ultimate debtor's address	2.70 Ultimate Debtor – Town Name
QRCH +UltmtDbtr ++Ctry	Ctry	D	Country Country from the ultimate debtor's address	2.70 Ultimate Debtor – Country
QRCH +RmtInf ++Tp	Tp	M	Reference type Reference type (QR, ISO) The following codes are permitted: QRR – QR reference ISO – ISO Creditor Reference NON – No reference	2.98 Credit Transfer Transaction Information +Remittance Information See the following detailed description about Remittance Information.
QRCH +RmtInf ++Ref	Ref	O	Reference <i>Reference number</i> Structured payment reference Note: the reference is either a QR reference or the ISO Creditor Reference (ISO 11649)	2.126 Remittance Information – Reference See the following detailed description about Remittance Information.
QRCH +RmtInf ++Ustrd	Ustrd	O	Unstructured message <i>Additional information</i> The additional information element can be used in the procedure with notification and in the procedure with structured reference to send additional information to the biller. For the structured additional information to be sent to the debtor, the requirements described in the chapter on "Structured information from the biller" must be complied with.	Procedure with notification: 2.99 Remittance Information – unstructured Procedure with structured reference for additional information: 2.129 AddtlRmtInf
QRCH +AltPmtInf ++AltPmt	AltPmt	A	Alternative procedure parameters Parameter character string for the alternative procedure according to the syntax definition in the section on "Alternative procedure"	N/A

Table 9: Mapping Mapping the Swiss QR code in the payment part of the QR-bill in pain.001pain.001

Detailed description of Remittance Information Structured und Unstructured

QR-Code			pain.001	
QRCH +RmtInf ++Ref	QRCH +RmtInf ++Ustrd	QRCH +RmtInf ++Tp	Remittance Information	Remittance Information/Type
Filled in	Not filled in	SCOR or QRR	2.126 Reference	SCOR: Code «SCOR» element QRR: Prtry «QRR» element
Filled in	Filled in	SCOR or QRR	2.126 Reference	SCOR: Code «SCOR» element QRR: Prtry «QRR» element
			2.129 AddtlRmtInf	N/A
Not filled in	Filled in	NON	2.99 Remittance Information – unstructured	N/A
Not filled in	Not filled in	NON	N/A	N/A

Table 10: Detailed description of Remittance Information Structured und Unstructured

Appendix D: Character conversion table

The characters shown in the following Table 11 are also permitted in Switzerland, as explained in section 2.4.1 "Character set".

The "Conversion to" column shows a possible conversion to other characters.

Character	Designation	Conversion to
!	EXCLAMATION MARK	.
" or "	QUOTATION MARK	.
#	NUMBER SIGN	.
%	PERCENT SIGN	.
& ⁵	AMPERSAND	+
*	ASTERISK	.
;	SEMICOLON	.
< ¹	LESS-THAN SIGN	.
> or >	GREATER-THAN SIGN	.
÷	DIVISION SIGN	.
=	EQUALS SIGN	.
@	COMMERCIAL AT	.
—	LOW LINE	.
\$	DOLLAR SIGN	.
£	POUND SIGN	.
[LEFT SQUARE BRACKET	.
]	RIGHT SQUARE BRACKET	.
{	LEFT CURLY BRACKET	.
}	RIGHT CURLY BRACKET	.
\	REVERSE SOLIDUS	.
`	GRAVE ACCENT	.
'	ACUTE ACCENT	.
~	TILDE	.
à	LATIN SMALL LETTER A WITH GRAVE	a
á	LATIN SMALL LETTER A WITH ACUTE	a
â	LATIN SMALL LETTER A WITH CIRCUMFLEX	a
ä	LATIN SMALL LETTER A WITH DIAERESIS	ae or a
ç	LATIN SMALL LETTER C WITH CEDILLA	c
è	LATIN SMALL LETTER E WITH GRAVE	e
é	LATIN SMALL LETTER E WITH ACUTE	e
ê	LATIN SMALL LETTER E WITH CIRCUMFLEX	e

⁵ The characters & (AMPERSAND) and < (LESS-THAN SIGN) can only be shown in text in XML elements as "escaped".

Character	Designation	Conversion to
ë	LATIN SMALL LETTER E WITH DIAERESIS	e
ì	LATIN SMALL LETTER I WITH GRAVE	i
í	LATIN SMALL LETTER I WITH ACUTE	i
î	LATIN SMALL LETTER I WITH CIRCUMFLEX	i
ï	LATIN SMALL LETTER I WITH DIAERESIS	i
ñ	LATIN SMALL LETTER N WITH TILDE	n
ò	LATIN SMALL LETTER O WITH GRAVE	o
ó	LATIN SMALL LETTER O WITH ACUTE	o
ô	LATIN SMALL LETTER O WITH CIRCUMFLEX	o
ö	LATIN SMALL LETTER O WITH DIAERESIS	oe or o
ù	LATIN SMALL LETTER U WITH GRAVE	u
ú	LATIN SMALL LETTER U WITH ACUTE	u
û	LATIN SMALL LETTER U WITH CIRCUMFLEX	u
ü	LATIN SMALL LETTER U WITH DIAERESIS	ue or u
ý	LATIN SMALL LETTER Y WITH ACUTE	Y
ß	LATIN SMALL LETTER SHARP S	ss or s
À	LATIN CAPITAL LETTER A WITH GRAVE	A
Á	LATIN CAPITAL LETTER A WITH ACUTE	A
Â	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A
Ä	LATIN CAPITAL LETTER A WITH DIAERESIS	AE or A
Ç	LATIN CAPITAL LETTER C WITH CEDILLA	C
È	LATIN CAPITAL LETTER E WITH GRAVE	E
É	LATIN CAPITAL LETTER E WITH ACUTE	E
Ê	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	E
Ë	LATIN CAPITAL LETTER E WITH DIAERESIS	E
Ì	LATIN CAPITAL LETTER I WITH GRAVE	I
Í	LATIN CAPITAL LETTER I WITH ACUTE	I
Î	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	I
Ï	LATIN CAPITAL LETTER I WITH DIAERESIS	I
Ò	LATIN CAPITAL LETTER O WITH GRAVE	O
Ó	LATIN CAPITAL LETTER O WITH ACUTE	O
Ô	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	O
Ö	LATIN CAPITAL LETTER O WITH DIAERESIS	OE or O
Ù	LATIN CAPITAL LETTER U WITH GRAVE	U
Ú	LATIN CAPITAL LETTER U WITH ACUTE	U
Û	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	U
Ü	LATIN CAPITAL LETTER U WITH DIAERESIS	UE or U
Ñ	LATIN CAPITAL LETTER N WITH TILDE	N

Table 11: Character conversion

Appendix E: Basis for the Swiss Payment Standards

The Swiss Payment Standards (Business Rules and these Implementation Guidelines "Customer Credit Transfer") are based on documents from ISO and EPC.

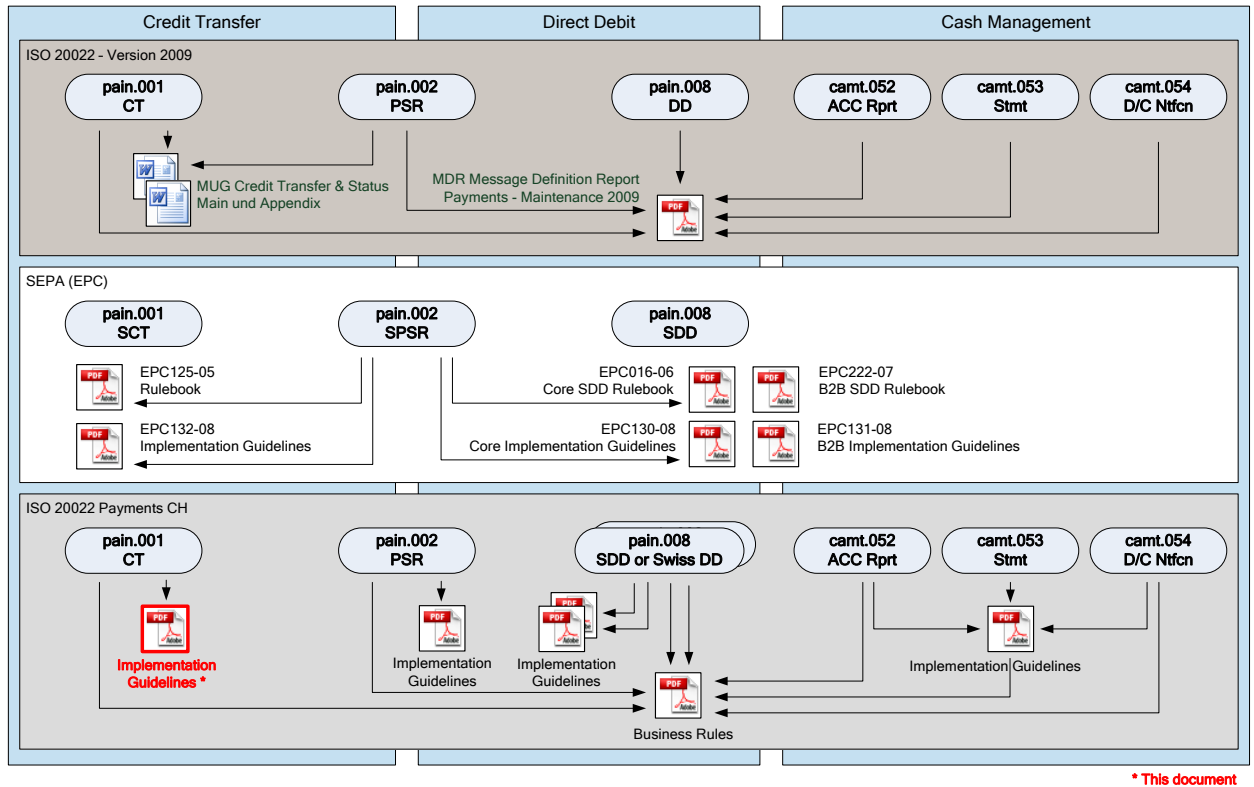


Figure 10: Basis for the Swiss Payment Standards

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