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## SUPA - Subsembly Payments

*File formats and interfaces for the exchange of payment transaction data*

### Version 3.2



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# 1 Foreword

SUPA is the name for a family of data formats for the exchange of payment transaction data, such as credit transfer and direct debit orders, account information and account turnover, as well as account details.

When defining the SUPA data formats, care was taken to ensure that they can be generated and processed as easily as possible. In terms of content, the SUPA data formats are based on the SEPA XML data formats and can be converted directly from/to these.

The structure and naming of all SUPA data elements is based on the international standard ISO 20022 (see [https://www.iso20022.org/payments\\_messages.page](https://www.iso20022.org/payments_messages.page)).

## 2 SUPA Data record types

This document specifies the following SUPA data record types.

<b>Acct</b>	Contains the master data of a bank account.
<b>Bal</b>	Adds balance information on the account to the Acct data record type.
<b>Paymt</b>	A general payment, e.g. bank transfer or direct debit.
<b>Ntry</b>	An account turnover item.
<b>Payee</b>	Master data of a payee, a debtor or a SEPA Direct debit mandate.
<b>Inv</b>	For the creation and tracking of a payment for an invoice, so-called Open items, required data.

## 3 SUPA Data schemas

This chapter defines the standard columns to be used for various SUPA data record types. In general, attention is paid to the uniform use of columns so that, for example, a file with account transactions can also be used to import account details.

A single SUPA data record can be serialized as a line in a CSV file or as a JSON object, or stored in a corresponding SQL database table. The exact storage format is irrelevant for the specification of the fields of a SUPA data record.

The data types used in the following sections are described in chapter 4.

In the following tables, an **M** (Mandatory) in the third column indicates a mandatory column and an **O** (Optional) indicates an optional column that can also be omitted. A **C** (Conditional) stands for a partially mandatory field, according to the field description.

### 3.1 Account information (Acct)

A data record with account information. This is used to identify a specific account on the one hand and to communicate existing account information on the other.

Column name	Type		Description
Id	Max35Text	O	Internal ID that uniquely identifies an account within a data store. identified.
AcctCtry	CountryCode	O	Country in which the account is held. Not the country in which the account holder is located.
AcctIBAN	IBANIdentifier	C	IBAN of the account.  Must be specified if the account has an IBAN.
AcctNo	Max35Text	M	Bank-specific, national account number, for example a ten-digit German account number. For credit card accounts, the Credit card number set

Column name	Type		Description
			become.
AcctBIC	BICIdentifier	C	SWIFT BIC of the account.  Must be specified if the account-holding bank defines a BIC for this account.
AcctBankCode	Max35Text	C	National bank code (sort code) of the account.  Must be specified if the bank has a national bank code.
AcctCcy	ISOCurrency	C	Account currency.  May only be omitted for securities accounts. This information is mandatory for all other account types.
AcctNm	Max35Text	O	Account name assigned by the user or an account name specified by the bank Account product designation.
AcctTpCd	Code	O	Account type. The following codes are permitted:  <b>CACC</b> - Current or checking account <b>CASH</b> - Cash, cash register (Cash) <b>PRTF</b> - Securities Portfolio <b>DPST</b> - Fixed-Term Deposit <b>CRDC</b> - Credit Card <b>PPAL</b> - PayPal Account <b>CRYP</b> - Cryptocurrency account  The code GIRO can be used as an alternative to CACC for compatibility with older versions.
OwnrNm	Max70Text	O	Name of the account holder.

In addition to the fields derived from ISO 20022, the following fields can be filled with information on account transactions. See also section 3.4 Account turnover (Ntry).

Column name	Type		Description
LastBookgId	Max35Text	O	Internal ID of the last booking (Ntry) on this account.
LastBookgDt	ISODate	O	Booking date of the last booking (Ntry) on this account.
LastDwnldDt	ISODate	O	Date of the last successful retrieval of the account transactions. If the account transactions have been changed manually since the last retrieval, no Date issued.

## 3.2 Account balance (Bal)

In addition to the account information (see previous section), a data record with account balances also provides information on the current balance of the account. In principle, all the data columns listed in section 3.1 can be included in addition to the account balance.

The following data columns can also be included.

Column name	Type		Description
BalAmt	Amount	M	Amount of the posted account balance.  This account balance corresponds to the balance after the last account transaction with status BookgSts equals <b>BOOK</b> .
BalCdtDbtInd	Code	M	Sign of the posted account balance. The following assignment is permitted:  <b>CRDT</b> - Credit <b>DBIT</b> - Debit
BalDt	ISODate	M	Date of the posted account balance.
CurBalOffice	Amount	O	Amount of the current account balance. This can include amounts already that are not yet

Column name	Type		Description
			were recognized.  If the CurBalAmt field is specified, the following fields CurBalCdtDbtInd and CurBalDt must also be specified.
CurBalCdtDbtInd	Code	C	Sign of the current account balance. (see BalCdtDbtInd)
CurBalDt	ISODate	C	Date of the current account balance.
AvlAmt	Amount	O	Amount available:  The maximum amount that can be disposed of for the customer at the time of the balance confirmation. The determination of the available amount may differ from institution to institution.
CdtLineOffice	Amount	O	Overdraft facility

### 3.3 Payment orders (Paymt)

The format for SUPA payment orders can be used for SEPA credit transfers, SEPA direct debits or for international credit transfers in DTAZV format.

Column name	Type		Description
Id	Max35Text	O	Optional internal ID which uniquely identifies a payment within a data store. Is used when Import ignored.
AcctId	Max35Text	O	Internal ID of the account to which this posting item belongs. The AcctId must correspond to the Id field of the corresponding Acct data record in the same correspond to the data memory.
SvcLvl	Code	O	Payment service. The following assignment is authorized:



Column name	Type		Description
			<b>SEPA</b> - SEPA payment <b>AZV</b> - DTAZV payment If no SvcLvl is specified, then <b>SEPA</b> accepted.
PmtMtd	Code	O	Type of payment. The following occupancy is permitted: <b>TRF</b> - Bank transfer <b>DD</b> - Direct debit Only TRF is permitted here for DTAZV payments. If no PmtMtd is specified, <b>TRF</b> is accepted.
ReqdExctnDt	ISODate	C	Desired execution date. If this is not filled, immediate execution is requested. <b>SEPA:</b> Must be filled in with the desired collection date for SEPA direct debits.
Office	Amount	M	Authorized amount. In PAIN format, this corresponds to the Instructed Amount element.
AmtCcy	ISOCurrency	O	Currency of the amount ordered. If this is not specified, <b>EUR</b> is assumed. In PAIN format, this corresponds to the Currency attribute in the Instructed Amount element. <b>SEPA:</b> The only permitted currency for SEPA payments is <b>EUR</b> .
EndToEndId	Max35Text	O	<b>SEPA:</b> End-to-end reference (EREF) for SEPA payments. If this is not documented for SEPA payments, then "NOTPROVIDED" is used.
PmtInfId	Max35Text	O	<b>SEPA:</b> As clear as possible Identification for a SEPA

Column name	Type		Description
			<p>Collective order. All individual orders of a collector have the same PmtInfId.</p> <p>Important: When importing a SUPA file, all orders with the same PmtInfId are automatically combined into a collector. If the PmtInfId is not assigned, the payments are imported as individual payments.</p>
MndtId	Max35Text	C	<p><b>SEPA:</b> Mandate ID for SEPA direct debits.</p> <p>Must be specified for SEPA direct debits.</p>
MndtDtOfSgntr	ISODate	C	<p><b>SEPA:</b> The signing date of the SEPA direct debit mandate for SEPA direct debits.</p> <p>Must be specified for SEPA direct debits.</p>
MndtLclInstrm	Code	C	<p><b>SEPA:</b> Specification of the type of direct debit (basic or company direct debit) for SEPA direct debits. The following assignment is permitted:</p> <p><b>CORE</b> - SEPA Core Direct Debit  <b>B2B</b> - SEPA Business-to-Business Direct Debit</p> <p>Must be specified for SEPA direct debits.</p>
CdtrId	Max35Text	C	<p><b>SEPA:</b> Creditor ID (CRED) or "Creditor Identifier CI for SEPA direct debits.</p> <p>Must be specified for SEPA direct debits.</p>
SeqTp	Code	C	<p><b>SEPA:</b> Information on the direct debit sequence for SEPA direct debits. The following</p>

Column name	Type		Description
			<p>Occupancy is permitted:</p> <p><b>FRST</b> - First direct debit <b>RCUR</b> - Repeated direct debit <b>FNAL</b> - Last direct debit <b>OOFF</b> - One-off direct debit</p> <p>Must be specified for SEPA direct debits.</p>
LclInstrm	Code	O	<p><b>SEPA:</b> Optional Local Instrument Code for SEPA credit transfers. Only the following value is currently permitted:</p> <p><b>INST</b> - Transfer is to be executed as a real-time transfer.</p> <p>If no value is specified, it is a normal transfer.</p>
BtchBookg	Bool	O	<p>Collective booking desired?</p> <p>If this element is not assigned, the bank decides whether the order is booked as a collective booking or all transactions contained in it are booked individually.</p> <p>Even if the element is occupied, this request does not necessarily have to be taken into account by the bank.</p>
RmtInf	Max140Text	O	<p>Intended use. Must not contain line breaks. Characters that are not permitted in the character set of the payment order are automatically replaced or removed.</p>
PurpCd	Code	O	<p><b>SEPA:</b> Four-character purpose code for SEPA payments (but not for SEPA direct debits).</p> <p>Exemplary values are:</p> <p><b>BONU, PENS, SALA</b> - Lohn-, Salary, pension credit (53)</p>

Column name	Type		Description
			<b>CBFF</b> - Capital-forming benefits (54) <b>GOVT, SSBE, BENE</b> - Transfer of public funds (56) <b>CHAR</b> - Donation (69)
CostBearer	Code	C	<b>AZV</b> : Fee regulation for AZV payments, which states who (payer or payee / debtor or both) bears the costs for the payment order. The following assignment is permitted:  <b>OUR</b> - Client <b>SHA</b> - both <b>BEN</b> - Payee / Payer  Must be documented for immediate dispatch of the order.
OwnrNm	Max70Text	O	Name of the client.
OwnrAcctCtry	CountryCode	O	Country of the client.
OwnrAcctIBAN	IBANIdentifier	O	IBAN of the client account.
OwnrAcctNo	Max35Text	O	Bank specific, national Account number of the client account.
OwnrAcctBIC	BICIdentifier	O	BIC of the bank of the client account.
OwnrAcctBankCode	Max35Text	O	National bank code (bank sort code) of the client account.
RmtdNm	Max70Text	M	Name of the payee or Payer.
RmtdAdrLine1	Max70Text	O	<b>AZV</b> : For AZV payments, the first address line of the payee or payer.
RmtdAdrLine2	Max70Text	O	<b>AZV</b> : For AZV payments, the second address line of the payee or payer.

Column name	Type		Description
RmtdAcctCtry	CountryCode	C	Country of the payee or debtor. Must be entered for AZV-payments must be specified.
RmtdAcctIBAN	IBANIdentifier	C	IBAN of the payee or debtor. <b>SEPA:</b> Mandatory for SEPA payments. <b>AZV:</b> For AZV payments, this field can be left blank if the RmtdAcctNo field is filled with an account number.
RmtdAcctNo	Max35Text	C	<b>AZV:</b> Bank-specific, national account number of the creditor or debtor. This field can be left blank if the RmtdAcctIBAN field is filled with an IBAN is occupied.
RmtdAcctBIC	BICIdentifier	C	BIC of the payee's or debtor's bank. <b>AZV:</b> For AZV payments, this field can be left blank if the RmtdAcctBankCode field is filled with a national bank code.
RmtdAcctBankCode	Max35Text	C	<b>AZV:</b> For AZV payments, the national bank code of the payee or debtor. Can be omitted if the field RmtdAcctBIC is assigned a BIC.
RmtdAcctBankName	Max70Text	C	<b>AZV:</b> Name of the bank of the payee account.  Either RmtdAcctBIC or this field together with the bank address must be entered in the fields RmtdAcctBankAdrLine1 and RmtdAcctBankAdrLine2.

Column name	Type		Description
RmtdAcctBankAdrLine1	Max70Text	C	<b>AZV:</b> For AZV payments, the first address line of the payee's bank or Payer.
RmtdAcctBankAdrLine2	Max70Text	C	<b>AZV:</b> For AZV payments, the second address line of the payee's bank or Payer.
RmtdAcctBankCtry	CountryCode	C	Country of the payee's or debtor's bank. Must be entered for AZV-payments must be specified.

### 3.4 Account turnover (Ntry)

A file with account transactions contains a list of posting items for one or more accounts. If postings for several accounts are exported in a file, an account assignment must be possible via the OwnrAcctXxx fields. If only postings for a single, known account are transferred, these fields can be omitted completely.

The postings must be sorted chronologically for each account according to the posting date and time. If postings from several accounts are transferred, the postings of the accounts can occur alternately. However, the postings of an account must still be sorted chronologically.

An opening balance, closing balance or running balance is not included.

Column name	Type		Description
Id	Max35Text	O	Internal ID which identifies a booking item within a data store clearly identified.
AcctId	Max35Text	O	Internal ID of the account to which this posting item belongs. The AcctId must correspond to the Id field of the corresponding Acct data record in the same correspond to the data memory.

Column name	Type		Description
OwnrAcctCcy	ISOCurrency	O	Account currency of the account to which this entry belongs, if for the purpose of clear Identification required.
OwnrAcctIBAN	IBANIdentifier	O	IBAN of the account to which this booking belongs. To identify the account, either the OwnrAcctIBAN field or the OwnrAcctNo can be assigned.
OwnrAcctNo	Max35Text	O	Bank-specific, national account number of the account to which this booking belongs. To identify the account, either the OwnrAcctIBAN field or the OwnrAcctNo can be assigned.
OwnrAcctBIC	BICIdentifier	O	BIC of the bank of the account to which this booking belongs. To identify the account, either the OwnrAcctBIC field or the OwnrAcctBankCode can be assigned.
OwnrAcctBankCode	Max35Text	O	National bank code (sort code) of the account to which this booking belongs. To identify the account, either the OwnrAcctBIC field or the OwnrAcctBankCode field must be filled. become.
BookgDt	ISODate	C	Booking date. Must be used for bookings with BookgSts BOOK. Is required for bookings with other BookgSts optional.
ValDt	ISODate	C	Value date. Must be documented for bookings with BookgSts BOOK. Is required for bookings with other BookgSts optional.
TxDt	ISODate	O	Date of the customer transaction or voucher date. For example, the date a card payment at a checkout.

Column name	Type		Description
			This element is mainly used for credit card transactions.
Office	Amount	M	Amount posted to the account.  Corresponds to the TxDtIs/Amt element in CAMT format.
AmtCcy	ISOCurrency	M	Currency of the posted amount. This currency must always correspond to the account currency at the time of posting.  Corresponds to the Ccy attribute in the element TxDtIs/Amt in CAMT format.
CdtDbtInd	Code	M	Debit/credit indicator. The following assignment is permitted:  <b>CRDT</b> - Credit <b>DBIT</b> - Debit
InstdAmt	Amount	O	Amount originally ordered. Only to be filled in if this differs from the amount booked. If this field is filled, the InstdAmtCcy field must also be filled. The debit/credit indicator is given by the CdtDbtInd field.  Corresponds to the element TxDtIs/AmtDtIs/InstdAmt in CAMT format.
InstdAmtCcy	ISOCurrency	C	Currency of the commissioned amount. Must be entered if the InstdAmt field has also been filled. Must not be filled otherwise.  Corresponds to the Ccy attribute in the TxDtIs/AmtDtIs/InstdAmt element in CAMT format.
TtlChrgsAndTaxAmt	Amount	O	Total amount of charges incl. taxes. Occupancy is not permissible if the individual charges



Column name	Type		Description
			denominated in different currencies. Corresponds to the element TxDtls/Chrgs/TtlChrgsAndTaxAmt in CAMT format.
TtlChrgsAndTaxAmtCcy	ISOCurrency	C	Currency of the total amount of charges in TtlChrgsAndTaxAmt. Must be entered if the TtlChrgsAndTaxAmt field has also been filled. Must not be filled otherwise.  Corresponds to the Ccy attribute in the TxDtls/Chrgs/ TtlChrgsAndTaxAmt element in CAMT format.
EndToEndId	Max35Text	O	End-to-end reference (EREF) for SEPA payments, customer number for DTA payments.  The customer number from the DTA field C6b is taken from the SWIFT MT-940 field 61 "Bank reference".
PmtInflId	Max35Text	O	Customer reference (KREF) for SEPA payments, reference number of the submitter for DTA payments.  For SEPA payments, the customer reference is taken from the PmtInflId field, which uniquely identifies a collector within a SEPA file.  The reference number of the submitter from the DTA field A10 is taken from the SWIFT MT-940 field 61 "Reference".  The customer reference for SEPA payments is taken from the SWIFT MT-940 field 86 subfield KREF for structured payments.
MndtId	Max35Text	O	Mandate ID (MREF) for SEPA-

Column name	Type		Description
			Direct debits.
CdtrId	Max35Text	O	Creditor ID (CRED) or "Creditor Identifier" CI for SEPA direct debits.
RmtInf	Max140Text	O	<p>Intended use. Must not contain line breaks. An original multi-line purpose is merged into a single line by concatenation.</p> <p>The maximum length only applies to SEPA payments. An application may export up to 378 characters here. When importing, the data field may be Cut off.</p>
PurpCd	Code	O	<p>Four character purpose code. Example values are:</p> <p><b>BONU, PENS, SALA</b> - Lohn-, Salary, pension credit (53)</p> <p><b>CBFF</b> - Capital-forming benefits (54)</p> <p><b>GOVT, SSBE, BENE</b> - Transfer of public funds (56)</p> <p><b>CHAR</b> - Donation (69)</p>
BookgTxt	Max35Text	O	<p>Posting text. The booking text describes the type of payment, e.g. "TRANSFER".</p> <p>From the SWIFT MT-940 field 86, subfield 00, or from the AddtINtryInf.</p>
PrimaNotaNo	Max35Text	O	<p>Primanota.</p> <p>From the SWIFT MT-940 field 86, subfield 10.</p>
BankRef	Max35Text	O	<p>Bank reference.</p> <p>From the SWIFT MT-940 field 61 subfield 8 (Account Servicing Institution's Reference). A few banks</p>

Column name	Type		Description
			<p>enter a unique booking ID in SWIFT field 61 which is ideal for duplicate checking. Unfortunately, only very few banks do this, usually this field simply remains empty.</p> <p>In CAMT format, this corresponds to the AcctSvcrRef element.</p> <p>When importing/exporting PayPal transactions, the PayPal transaction ID should be set in this field.</p>
BkTxCd	Code	O	<p>Booking key.</p> <p>From the SWIFT MT-940 field 61 including the constant letter "N". Examples:</p> <p><b>NMSC</b> - Miscellaneous <b>NTRF</b> - Bank Transfer <b>NDDT</b> - Direct Debit <b>NCLR</b> - Cash out/deposit (cash letter) <b>NCHK</b> - Check <b>NSTO</b> - Standing order <b>NRTI</b> - Cancellation (Returned Item)</p> <p>The complete list can be found in the "Specification of data formats" of the German Banking Industry in chapter MT 940 Account statement data section "Posting key (field 61)".</p>
RmtdNm	Max70Text	O	Name of the payee or Payer (account holder).
RmtdUltmtNm	Max70Text	O	Name of the payee or Payer (informational).
RmtdAcctCtry	CountryCode	O	Country of the payee or Payer.
RmtdAcctIBAN	IBANIdentifier	O	IBAN of the payee or

Column name	Type		Description
			Payer.
RmtdAcctNo	Max35Text	O	Bank-specific, national account number of the payee or payer.
RmtdAcctBIC	BICIdentifier	O	BIC of the payee's bank or payer.
RmtdAcctBankCode	Max35Text	O	National bank code (bank sort code) of the payee or Payer.
BookgSts	Code	O	<p>Booking status of this entry. If this is not specified, "BOOK" is implicitly assumed as the status.</p> <p>The following codes are possible:</p> <p><b>BOOK</b> - Booked: Booked turnover <b>INFO</b> - Information: This entry is for information purposes only. No turnover has been booked for the account.</p> <p><b>PDNG</b> - Pending: The associated booking is not yet final. This status can be used in the case of notified sales occur.</p>
GVC	Code	O	<p>The business transaction code according to the "Specification of Data Formats" of the German Banking Industry in chapter MT 940 Account Statement Data section "Business Transaction Codes".</p> <p>The assignment of this field is required for correct conversion to MT-940.</p> <p>Three digits (with leading zeros if necessary)</p>
GVCExtension	Code	O	<p>The text key supplement in accordance with the "Specification of data formats" of the German Banking Industry in chapter MT 940 Account statement data section</p> <p>"Conversion of SEPA codes in field 86</p>

Column name	Type		Description
			(subfield 34)".  The assignment of this field is required for correct conversion to MT-940.  Three digits (with leading zeros if necessary)
RtrInfRsnCd	Code	O	In the case of an R transaction (return), the code (ExternalReturnReason1Code) for the  Return reason can be set.

In addition to the fields derived from ISO 20022, the following fields with user-defined content can be used.

Column name	Type		Description
BtchBookg	Bool	O	Indicates whether this is a collective posting or a partial posting of a collective posting. The value true indicates that this is a collective posting. The value false indicates that this is a partial posting of a collective posting. If this is a normal individual posting, this field should not be filled. If the partial postings contained in a collective posting file are also exported, the collective posting must always be placed immediately before the partial postings it contains.  If partial postings are exported, all partial postings of a collective posting must always be exported. The total amount of the partial postings must equal the total amount of the higher-level collective posting.

Column name	Type		Description
BtchId	Max35Text	O	<p>This field may only be used for partial postings of a collective posting. In this case, the field BtchBookg must be set to false in order to mark the data record as a partial posting.</p> <p>When used, the field must be filled with the internal ID (Id) of the superordinate collective posting for this partial posting. It is permitted that only partial postings are exported without the higher-level collective posting. In this case, the field BtchBookg contains the value false and the field BtchId is omitted or empty.</p>
Category	Max140Text	O	<p>Application-specific category assigned to this booking. A colon is used as a separator to separate a to create a hierarchy of categories.</p>
CategoryDt	ISODate	O	<p>The date selected by the user for an evaluation of the booking according to the selected category.</p>
Notes	Max140Text	O	<p>Notes freely assigned by the user for this booking.</p>
ReadStatus	Bool	O	<p>Indicates whether this booking has already been read by the user. The value is true if this booking was read.</p>
Flag	Code	O	<p>An indicator selected by the user for this booking. The following codes are possible:</p> <p><b>None</b> - No special license plate has been assigned.</p> <p><b>OK</b> - The booking was made by the user</p>

Column name	Type		Description
			marked as "Done". <b>Red</b> - The booking was marked with the corresponding color by the user. <b>Blue</b> - ditto <b>Yellow</b> - ditto <b>Green</b> - ditto <b>Gray</b> - ditto <b>Purple</b> - ditto
VatAmt	Amount	O	The VAT amount contained in the booking amount. With 19% VAT and a booking amount of EUR 100.00, the amount saved here would be Value added tax share EUR 84.03.

### 3.5 Account details (Payee)

A file with account details contains a list of customer data, payment recipients and direct debit mandates.

Column name	Type		Description
Id	Max35Text	O	Internal ID which contains an account connection within a data store clearly identified.
RmtdNm	Max70Text	M	Name of the payee or Payer.
RmtdNmMemo	Max70Text	O	Additional memo text for the name of the payee or Payer. This is not used in orders, but is only used to differentiate between account details with the same name. RmtdNm.
RmtdAdrLine1	Max70Text	O	The first address line of the

Column name	Type		Description
			payee or Payer.
RmtdAdrLine2	Max70Text	O	The second address line of the payee or Payer.
RmtdAcctCtry	CountryCode	O	Country of the payee or Payer.
RmtdAcctIBAN	IBANIdentifier	O	IBAN of the payee or Payer.
RmtdAcctNo	Max35Text	O	Bank-specific, national account number of the payee or payer.
RmtdAcctBIC	BICIdentifier	O	BIC of the payee's bank or payer.
RmtdAcctBankCode	Max35Text	O	National bank code (bank sort code) of the payee or Payer.
RmtdAcctBankName	Max70Text	O	Name of the payee's bank or payer.
RmtdAcctBankAdrLine1	Max70Text	O	The first address line of the payee's bank or Payer.
RmtdAcctBankAdrLine2	Max70Text	O	The second address line of the payee's bank or Payer.
RmtdAcctBankCtry	CountryCode	O	Country of the payee's bank or payer.
RmtInf	Max35Text	O	Customer number or customer reference which is normally used for payments is to be transmitted.
MndtId	Max35Text	O	The mandate reference of the SEPA direct debit mandate of this Payer.
MndtDtOfSgntr	ISODate	O	The signature date of the SEPA Direct debit mandate



Column name	Type		Description
MndtLclInstrm	Code	C	Information on the type of SEPA direct debit. The following assignment is permitted:  <b>CORE</b> - SEPA Core Direct Debit <b>B2B</b> - SEPA Business-to-Business Direct Debit

In addition to the fields derived from ISO 20022, the following fields with user-defined content can be used.

Column name	Type		Description
Category	Max140Text	O	Application-specific category assigned to this recipient/mandate. A colon is used as a separator to create a hierarchy of categories.

### 3.6 Open item (Invc)

An open items file contains a list of outstanding receivables or payables. Currently, only open items in the sense of outstanding receivables are supported.

Column name	Type		Description
Id	Max35Text	O	Internal ID which identifies an open item within a data store clearly identified.
InvcTp	Code	O	Type of the open item. If this is not specified, the type is assumed to be <b>ARO</b> .  <b>ARO</b> - Open receivable (AccountsReceivableOpenItem) <b>APO</b> - Open payable (AccountsPayableOpenItem)
InvcSts	Code	O	Status of payment of the outstanding item. If this is not specified

Column name	Type		Description
			is assumed to have the status <b>OPEN</b> . <b>OPEN</b> - Open <b>PAID</b> - Paid <b>RVSD</b> - Canceled <b>UNCO</b> - Irrecoverable
<a href="#">InvcNm</a>	Max70Text	M	Name of the invoice recipient.
CustNb	Max70Text	O	Customer number
InvcNb	Max70Text	M	Invoice number
InvcDt	ISODate	M	Invoice date
Office	Amount	M	Invoice amount
AmtCcy	ISOCurrency	O	Currency of the invoice amount. If this is not specified, <b>EUR</b> accepted.
DueDt	ISODate	O	Due date of the invoice
AmtPd	Amount	O	Amount already paid.
DunningDt	ISODate	O	Date of the last sent Reminder for this open item.
DunningLvl	Code	O	Reminder level of the last reminder sent for this open item. <b>D0</b> - Request for payment <b>D1</b> - First reminder <b>D2</b> - Second reminder <b>DL</b> - Last reminder <b>DX</b> - Judicial dunning procedure
DunningChrg	Amount	O	Reminder fees.
DunningIntrst	Amount	O	Applied default interest in percent.

In addition to the fields derived from ISO 20022, the following fields with user-defined content can be used.

Column name	Type		Description
Category	Max140Text	O	Application-specific category for this open item has been assigned. A colon

Column name	Type		Description
			is used as a separator to to create a hierarchy of categories.

### 3.7 Meta information on account statements

A file with meta information on account statements contains a list of available electronic account statements, but without the actual document data. The account statement document (PDF) must be made available by other means.

The data fields were modeled based on the CAMT 053 data format.

Column name	Type		Description
Id	Max35Text	O	Internal ID which contains this data record within a data store clearly identified.
AcctId	Max35Text	O	Internal ID of the account to which this posting item belongs. The AcctId must correspond to the Id field of the corresponding Acct data record in the same correspond to the data memory.
OwnrAcctCcy	ISOCurrency	O	Account currency of the account to which this account statement belongs, if the clear identification is required.
OwnrAcctIBAN	IBANIdentifier	O	IBAN of the account to which this account statement belongs. To identify the account, either the OwnrAcctIBAN field or the the OwnrAcctNo field must be filled.
OwnrAcctNo	Max35Text	O	Bank-specific, national account number of the account to which this account statement belongs. To identify the account, either the OwnrAcctIBAN field or the the OwnrAcctNo field must be filled.
OwnrAcctBIC	BICIdentifier	O	BIC of the bank of the account to which this

Column name	Type		Description
			Account statement belongs. To identify the account, either the OwnrAcctBIC field or the OwnrAcctBankCode field must be filled. become.
OwnrAcctBankCode	Max35Text	O	National bank code (sort code) of the account to which this account statement belongs. To identify the account, either the OwnrAcctBIC field or the OwnrAcctBankCode can be assigned.
CreDt	ISODate	M	Creation date of the account statement.
FrDt	ISODate	O	Start date.
ToDt	ISODate	O	End date.
ElctrncStmntYr	Number	O	Account statement year (1 - 9999).
ElctrncSeqNb	Number	O	Bank statement number (1 - 99999).
ElctrncStmntId	Max35Text	C	Unique ID of the account statement. If the values ElctrncStmntYr and ElctrncSeqNb do not uniquely identify an account statement, then a unique ID be specified
AddtlInf	Max8192Text	O	Additional plain text information on the Bank statement.
Ackd	Bool	O	If present, this element indicates whether the download of the account statement was confirmed online or not. If this element is not present, no statement can be made about it. become.
FileTp	Code	M	Type of the original account statement file. The following codes are possible: <b>SPDF</b> - PDF file <b>SISO</b> - ISO 8583 (currently not used)

Column name	Type		Description
			<b>S940</b> - SWIFT MT-940 <b>USER</b> - File set by the user whose file format is unknown.
FileTtl	Max140Text	0	Title text.
FileNm	Max140Text	0	File name.

## 4 D atypes

The content is generally formatted according to the ISO 20022 XML formats. This means that dates must be specified in ISO format, for example "2009-02-19" or "2008-05-11T09:30:47.000Z"; amounts with a single point as a decimal separator, for example "6543.14".

Name	JSON	Description
Max35Text Max70Text Max140Text	string	Text with the maximum length contained in the name.
Amount	string	Unsigned amount with an optional single point as decimal separator. Spaces and thousand separators are not permitted. Examples:  0.00 123456.78 0.1 123
ISODate	string	ISO date in the format YYYY-MM-DD. Only real dates are permitted, i.e. a date such as February 30 is not permitted. Examples:  2009-02-20 9999-12-31 0000-01-01
CountryCode	string	ISO country code consisting of two capital letters. For example, "DE" for Germany.
IBANIdentifier	string	International bank account number IBAN.
BICIdentifier	string	SWIFT BIC.
ISOCurrency	string	ISO currency code consisting of three Capital letters. For example, "EUR" for Euro.
Code	string	A code word consisting of a few letters without spaces. The permitted codes are specified for the respective column.
Number	string	An integer number in a value range specified in the description. Spaces and thousands Separators are not permitted.
Bool	bool	A binary value with the possible values true or false.



## 5 SUPA Formats

### 5.1 SUPA TSV- Format

This was originally the only SUPA data format.

SUPA TSV files are simple text files with **tab-separated** content (**tab-separated values**), such as those that can be loaded and saved by calculation programs such as Microsoft Excel. This file type is officially registered and specified as a MIME type. The specification can be [found at http://www.iana.org/assignments/media-types/text/tab-separated-values](http://www.iana.org/assignments/media-types/text/tab-separated-values).

The tab character has the code 0x09. A line is terminated by a CR-LF sequence (codes 0x0D 0x0A) or a simple LF (code 0x0A).

In contrast to the basic character set restricted in SEPA payment transactions, all characters of the Western European Latin-1 character set (see ISO 8859-1 [http://de.wikipedia.org/wiki/ISO\\_8859-1](http://de.wikipedia.org/wiki/ISO_8859-1)) can be used in SUPA files. Please note that the euro symbol is not included in the Latin-1 character set.

The non-printable characters have a special meaning and must not occur within data fields. Therefore, these and other problematic characters must be replaced by escape sequences with a leading backslash. The following sequences can be used:

<b>\0</b>	Simple NUL character, code 0x00
<b>\t</b>	Tab character, code 0x09
<b>\r</b>	CR - Carriage Return, Code 0x0D
<b>\n</b>	LF - Line Feed, Code 0x0A
<b>\uhhhh</b>	Unicode characters; must always be followed by four hexadecimal digits hhhh. Example:\u20AC for the euro symbol U+20AC "€"
<b>\\</b>	A single backslash.
<b>\x</b>	Any other character introduced by a leading backslash is replaced by replaces the individual character itself.

The first line of a SUPA file is a header line with column names. This specification defines the column names used for the various SUPA files and the semantics and syntax for the associated content.



The order of the columns is generally not prescribed. Likewise, many columns are optional and can also be omitted from a file. In the same way, any additional columns can be added by an application. When importing a SUPA file, the contents of the columns must be assigned exclusively via the associated column headings and not via the column position. Unknown columns may be ignored during import.

To make SUPA TSV files easier to identify, the suffix **.supa** (lower case only) should be used in the file name. The same suffix is used for all SUPA TSV files, regardless of their content.

Chapter 2 specifies the standard columns to be used for the various SUPA files. Chapter 4 defines the syntax of the data types used.

## 5.2 SUPA CSV- format

The SUPA CSV format is a variant of the SUPA file format that uses a comma as a separator instead of a tab character. A SUPA CSV file generally complies with the RFC 4180 specification.

- The separator used is the **comma** (code 0x2C).
- Lines are always terminated with a full **CRLF sequence** (codes 0x0D 0x0A).
- Fields containing quotation marks, a comma or a control character are enclosed in quotation marks. A quotation mark is preceded by another quotation mark.
- The first line is a header line with column names.
- The recommended file suffix is **.csv** (lower case only).
- The mime type is "text/csv" (see <https://www.iana.org/assignments/media-types/text/csv>).
- The character set encoding used is **UTF-8** without byte order mark.

## 5.3 SUPA JSON- Format

A SUPA data set can also be displayed in JSON format as a single JSON object. In the JSON object, the data fields are named according to the SUPA column names.

With the exception of the Bool data type, all values in the JSON are set as a string. Only the Bool data type is set directly as JSON bool.

Example:

```
{
  "BookgDt": "2014-04-04",
  "ValDt": "2014-04-04",
  "Office": "1.45",
  "AmtCcy": "EUR",
  "CdtDbtInd": "CRDT",
  "RmtInf": "Test with Scraper Template"
}
```

Several SUPA JSON objects can be combined to map a complete bank statement, for example:

```
{
  "Bal" :
  {
    "BalAmt": "123.45",
    "BalCdtDbtInd": "CRDT",
    "BalDt": "2014-04-04"
  },
  "Stmt":
  [
    {
      "BookgDt": "2014-04-04",
      "ValDt": "2014-04-04",
      "Office": "1.45",
      "AmtCcy": "EUR",
      "CdtDbtInd": "CRDT",
      "RmtInf": "Test with Scraper Template"
    },
    {
      "BookgDt": "2014-04-05",
      "ValDt": "2014-04-04",
      "Office": "2.78",
      "AmtCcy": "EUR",
      "CdtDbtInd": "DBIT",
      "EndToEndId": "My customer reference",
      "RmtInf": "Test with Scraper Template 2"
    }
  ]
}
```

## 5.4 SUPA URL

A single SUPA data record can also be transferred via URL. In addition to the actual data record, the desired action to be carried out with the transferred data is defined in the URL. Of course, a SUPA URL can also be displayed as a QR code.

A SUPA URL is intended to be processed by an app. Depending on the platform, an app registers itself as a possible execution target for certain SUPA URLs. For example, it is possible to include bank transfer data in the text of an email and transfer it directly from there to a suitable app via the link.

A SUPA URL has the following basic structure:

```
supa://<action>/<SupaType>?<name>=<value>&<name>=<value>...
```

The URL scheme used is **supa**.

The placeholder <action> controls the desired action that the URL recipient should perform. The following values can be used (case-sensitive):

<b>import</b>	The data record should only be imported by the recipient.
<b>remitt</b>	The data record contains the data of a transfer that is to be executed by the recipient app. In this case, the placeholder <SupaTyp> must contain the have value Paymt.

The <SupaTyp> placeholder specifies the type of data record transferred. The value must correspond to the name from chapter 2 SUPA data record types, case-sensitive.

The field values then follow as query parameters. The respective parameter name must correspond exactly to the column name specified in this document. Upper/lower case is to be observed. A plus sign in the parameter value is interpreted as a space. If a plus sign is required in the value, this must be URL-coded as "%2B". The decoded parameter value must be formatted in accordance with the ISO 20022 XML formats.

Examples:

```
supa://import/Inv?InvNm=Kunden+GmbH&InvNb=2021-1234&Amt=100.21&AmtCcy=EUR
supa://import/Payee?RmtdNm=Hans+Muster&RmtdAcctIBAN=DE12123456781234567890
supa://remitt/Paymt?RmtdNm=Hamster&RmtdAcctIBAN=DE1212345678&Amt=100.88&AmtCcy=EUR&RmtInf=Vwz
```