

TOPAL XML DESCRIPTION

Technical guide

Version: 4.1

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General Information

Topal includes an XML import and export wizard. You may export data from a Topal Database to an XML file, as well as import from an XML file, giving you the choice to:

- Migrate Data from external Database (e.g. another Accounting Software)
- Merge Data (export data from one client and import to another)
- Insert Data from applications developed by third parties

This document describes the Topal XML structure and explains you how to create your own XML document that you can import to Topal. It also includes a description of entities (tables) and some specific information for third party developers.

We are continually improving our software. Some changes may impact the Topal Database with new attributes (fields) and so XML data structure may change, too. These changes will be documented in release notes.

1. Data Structure

In this chapter we describe the Data Structure of Topal, how it is organized and how you can use it.

Although it is not essential to read this chapter, the information here will help you to understand the process of data creation, and as a result, it will help you using Topal Data Migration System.

1.1. Data Organization

Topal uses the relational model as database scheme (the database's structure of how the data is arranged), which represents all information in the form of multiple related tables each consisting of rows and columns. This model represents relationships by the use of values common to more than one table.

That means the Topal Database is organized in tables that are related between each others. Each record within a table is identified by a unique identifier (ID), which means the value of this field (key) in this table cannot be repeated, it is unique. In some cases several fields are used to identify uniquely a record (composed key).

1.1.1. Internal ID rules

As mentioned above each table has a special ID field, or in some cases, several ID fields. We use, additionally to the standard rules for relational Databases, some special conventions for this ID fields (columns):

- As mentioned above all values in ID field should (must) be original, this means must not be repeated for one table.
- Type for ID fields must be int (integer) or Guid (unique identifier).
- We used the following name convention for ID fields; ID field is composed by table name followed by "ID". For example in entity "Account" ID field name is "accountID", in entity "Client" ID field name is "clientID".

- ID type int cannot be less or equal zero, ID type Guid cannot be empty ‘00000000-0000-0000-0000-000000000000’.

1.1.2. Invalid values

All values of data record must not be equal to null (DBNull).

However, this is not critical for end users, as Topal System solves this problem by using defaults (mentioned below).

1.2. Data Relation

As mentioned above Topal System has a relation data structure. That means most tables can be and are linked to others by relations. These relations are defined by linking ID fields of one table with fields of another table. The field or fields in this other record is called Foreign Identifier (FID) or foreign key. Remember, that ID fields identify unambiguously a record.

1.2.1. FID Rules

As for ID fields, there are also some special rules and conventions for foreign ID fields:

- The FID may not be unique because several records can link to same entity.
- As well as ID fields, FID type must be int (integer) or Guid (unique identifier), and of course they must be of the same type the corresponding ID field is
- Again, we use the following name convention for FID fields: Table name plus FID, For example, table “FiscalYear” has a link to table “Client”, so the field name, that contains a link to a record of “Client”, is “clientFID”.
- The FID type should be the same type as the ID type of the linked entity.

1.2.2. Empty FID

Some of the relations are not mandatory; that means the FID field may not contain a link to another record (in this case the field is empty).

For example in the posting record we have FID to “VAT”. The field in “Posting” which contains this link is called as “vatFID”, but some posting do not contain VAT, so this FID would be empty.

It is impossible to set null value to FID (as mentioned in 2.1.2.).

However, it is solved in another way. As mentioned above, FID has the same type as ID (int or GUID) with restriction for values ID. So for empty values in FID fields, these values must be -1. In case of int and '00000000-0000-0000-0000-000000000000' in case of GUID.

1.3. Defaults

As already mentioned, all fields should have a value and must not be null, but it is not necessary to assign all the fields. Some fields are not mandatory and in most of the cases, their value is the same for all the records. For example "Posting" record has a field "freeCode". If no value is assigned then the default value will be used (in current example that would be an empty string).

Essentially, the default value is the value of the field with which field is initialized.

2. Entities Description

This chapter describes the entities (tables), which can be migrated (exported/imported).

In the row over the table header of the description table, you can find the general description of the entity.

The following columns are used in the description table:

- "Pos" - contains number of the field in the entity.
- "Field Name" – name of the field, which is used in XML.
- "Field Description" – description
- "Type" – field type.
- "Req." – shows whether field is optional (opt.), required (req.) or not definable by the user (none). The "opt. /req." value means that field is required in special cases and in other cases optional. For example vatFID is required if it is a VAT posting. In other cases it is an optional field.
- "Min" – contains minimum length for string fields.
- "Max" – contains maximum length for string fields.

- “Default” – Here we describe all available fields. It is not necessary to define them in XML.

2.1. Client

| Accounting Clients list | | | | | | | |
|-------------------------|------------------------|---|----------|------|-----|-----|--------------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | backupTS | Reserved | datetime | opt. | | | 01.01.1753 0:00:00 |
| 2 | buildNumber | Build number on which client was created | string | opt. | 0 | 128 | 0.0.0.0 |
| 3 | city | Client city | string | opt. | 0 | 22 | empty string |
| 4 | clientID | Client unique identifier | int | req. | | | -1 |
| 5 | code | Client code | string | opt. | 0 | 10 | empty string |
| 6 | creationDate | Date of client creation | datetime | opt. | | | current date |
| 7 | isDiscountSwissRounded | Shows will discount be Swiss rounded(true = 1) or not (false = 0) | bit | opt. | | | True |
| 8 | isKCSwissRounded | Shows key currency amounts will be Swiss rounded(true = 1) or not (false = 0) | bit | opt. | | | True |
| 9 | isTemplate | Shows is this client template(true = 1) or not (false = 0) | bit | opt. | | | True |
| 10 | isVATSwissRounded | Shows VAT will be Swiss rounded(true = 1) or not (false = 0) | bit | opt. | | | True |
| 11 | lastTimestamp | Reserved | datetime | opt. | | | 01.01.1753 0:00:00 |
| 12 | modifyDate | Date of last instance modifying | datetime | opt. | | | current date |
| 13 | name | Client name | string | req. | 1 | 35 | empty string |
| 14 | person | Client person | string | opt. | 0 | 22 | empty string |
| 15 | remarks | Remarks to client | string | opt. | 0 | 40 | empty string |
| 16 | street | Client address street | string | opt. | 0 | 35 | empty string |
| 17 | telephone | Client telephone | string | opt. | 0 | 22 | empty string |
| 18 | userFID | Link to user which edit instance last time | int | opt. | | | -1 |
| 19 | vatAgreed | Reserved | bit | opt. | | | True |
| 20 | vatNumber | Client VAT number | string | opt. | 0 | 18 | empty string |
| 21 | vatPaymentBased | Reserved | bit | opt. | | | False |
| 22 | vatRequired | Is VAT required for postings | bit | opt. | | | True |
| 23 | vatSimplified | Is VAT calculations simplified | bit | opt. | | | False |
| 26 | xmlBackupState | Default state when XML backup processed (0 - Do not backup, 1 - Backup when changed, 2 - Backup always) | int | opt. | | | 1 |
| 27 | zip | Zip of client | string | opt. | 0 | 35 | empty string |

2.2. IsDefault

| Default items per client | | | | | | | |
|--------------------------|------------------------|--|-------|------|-----|-----|---------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientConfig | Archived XML Client config (handled by the system) | image | none | | | empty |
| 2 | clientFID | Link to Client | int | req. | | | -1 |
| 3 | currPartyNum | Current Party Number | int | req. | | | 1 |
| 4 | currPurchaseInvoiceNum | Current Purchase Invoice Number | int | req. | | | 1 |

| | | | | | |
|----|-------------------------------|--|----------|------|--------------|
| 5 | currReminderNum | Current Reminder Number | int | req. | 1 |
| 6 | currSalesInvoiceNum | Current Sales Invoice Number | int | req. | 1 |
| 7 | defAccrualAccountFID | Default account which used in accruals recurrent transactions | int | opt. | -1 |
| 8 | defaultID | Default unique identifier | int | opt. | -1 |
| 9 | defAutoDiscountAmount | Default discount amount | double | opt. | 0 |
| 10 | defBankAccountFID | Link to default Client's Internal Bank Account | int | opt. | -1 |
| 11 | defBudgetPeriodFID | Kind of default budget representation (4 = Quarters, 8 = Months) | int | opt. | -1 |
| 12 | defCountryFID | Link to Client's Country | int | req. | -1 |
| 13 | defCreditorAccountFID | Link to default creditor Account (used in Payment(Transaction) Method) | int | opt. | -1 |
| 14 | defCreditorDiscountAccountFID | Link to creditor discount Account | int | opt. | -1 |
| 15 | defCreditorWriteOffAccountFID | Link to creditor write Off Account | int | opt. | -1 |
| 16 | defCreditPaymentTypeFID | Link to default credit payment type | int | req. | -1 |
| 17 | defCurrencyFID | Link to Client's Currency | int | req. | -1 |
| 18 | defDebitPaymentTypeFID | Link to default debit payment type | int | req. | -1 |
| 19 | defDebtorAccountFID | Link to default debtor Account (used in Payment(Transaction) Method) | int | opt. | -1 |
| 20 | defDebtorDiscountAccountFID | Link to debtor discount Account | int | opt. | -1 |
| 21 | defDebtorWriteOffAccountFID | Link to debtor write Off Account | int | opt. | -1 |
| 22 | defDeferralAccountFID | Default account which used in deferrals recurrent transactions | int | opt. | -1 |
| 23 | defFeeAccountFID | Link to default fee Account | int | opt. | -1 |
| 24 | defLanguageFID | Link to Client's Language | int | req. | -1 |
| 25 | defMoneyAccountFID | Link to default money Account | int | opt. | -1 |
| 26 | defNoReminderAmount | Maximum Amount with which invoices do not proposed to reminders | double | opt. | 0 |
| 27 | defPartyCountryFID | Default Country for Party | int | opt. | -1 |
| 28 | defPartyLanguageFID | Default Language for Party | int | opt. | -1 |
| 29 | defPaymentTermFID | Link to default Payment Term | int | req. | -1 |
| 30 | defRecurrentDateFrom | Default begin date of recurrent transaction | datetime | opt. | current date |
| 31 | defRecurrentDateUntil | Default end date of recurrent transaction | datetime | opt. | current date |
| 32 | defRepLanguageFID | Default Report Language | int | opt. | -1 |
| 33 | inclAddressInReport | Whether the client address included to reminder report | bit | opt. | True |
| 34 | isLeftPosition | Position of text in reminder reports | bit | opt. | True |
| 35 | useCreditorFreeInvoiceNum | Wether the free invoice number should be used in payables reporting | bit | opt. | False |
| 36 | useCreditorFreePartyNum | Wether the free party number should be used in payables reporting | bit | opt. | False |

| | | | | | | | |
|----|-------------------------|--|-----|------|--|--|-------|
| 37 | useDebtorFreeInvoiceNum | Wether the free invoice number should be used in receivables reporting | bit | opt. | | | False |
| 38 | useDebtorFreePartyNum | Wether the free party number should be used in receivables reporting | bit | opt. | | | False |

2.3. FiscalYear

| Fiscal year list | | | | | | | |
|------------------|----------------------------------|--|----------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | closedFlag | Shows is FiscalYear closed | bit | opt. | | | False |
| 3 | dateFrom | FiscalYear date from | datetime | req. | | | current date |
| 4 | dateUntil | FiscalYear date until | datetime | req. | | | current date |
| 5 | defBudgetFID | Link to default budget | int | opt. | | | -1 |
| 6 | defCompoundNumRangeFID | Default number range of Compund Transction | int | opt. | | | -1 |
| 7 | defDocumentNumberFID | Link to default Number Range | int | req. | | | -1 |
| 8 | defESRPaymentNumRangeFID | Default number range of ESR Payment | int | opt. | | | -1 |
| 9 | defPurchaseInvoiceNumRangeFID | Default number range of Purchase Invoice | int | opt. | | | -1 |
| 10 | defPurchaseManualNumRangeFID | Default number range of Purchase Manual Payment | int | opt. | | | -1 |
| 11 | defPurchasePaymentRunNumRangeFID | Default number range of Purchase Payment Run | int | opt. | | | -1 |
| 12 | defSalesInvoiceNumRangeFID | Default number range of Sales Invoice | int | opt. | | | -1 |
| 13 | defSalesManualNumRangeFID | Default number range of Sales Manual Payment | int | opt. | | | -1 |
| 14 | defSalesPaymentRunNumRangeFID | Default number range of Sales Payment Run | int | opt. | | | -1 |
| 15 | defSimpleNumRangeFID | Default number range of Simple Transction | int | opt. | | | -1 |
| 16 | defValuationDate | Default valuation date | datetime | opt. | | | current date |
| 17 | docdateFrom | Date from which transactions can be created in FiscalYear | datetime | req. | | | current date |
| 18 | docdateUntil | Date until which transactions can be created in FiscalYear | datetime | req. | | | current date |
| 19 | fiscalYearID | FiscalYear unique identifier | int | req. | | | -1 |
| 20 | modifyDate | Date of last instance modifying | datetime | opt. | | | current date |
| 21 | name | FiscalYear name | string | opt. | 1 | 24 | empty string |
| 22 | resultAccountFID | Link to result Account | int | opt. | | | -1 |
| 23 | userFID | Link to user which edit instance last time | int | opt. | | | -1 |

2.4. NumRange

| Number range for transactions | | | | | | | |
|-------------------------------|---------------|----------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | code | NumRange code | string | req. | 1 | 16 | empty string |
| 2 | currNum | NumRange current number | int | req. | | | 1 |
| 3 | fiscalYearFID | Link to Fiscal Year | int | req. | | | -1 |
| 4 | name | NumRange name | string | opt. | 1 | 48 | empty string |
| 5 | numRangeID | NumRange unique identifier | int | req. | | | -1 |
| 6 | startNum | NumRange start number | int | req. | | | 1 |

2.5. DefaultText

| Default tests for postings of different transaction types | | | | | | | |
|---|---------------|--|------------------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | defaultTextID | DefaultText unique identifier | uniqueidentifier | req. | | | empty guid |
| 3 | jokerTypeFID | Type of joker(Invoice = 1, Payment = 2, PaymentRun = 3, ESR = 4, DTA = 5, EZAG = 6, LSV = 7) | int | req. | | | -1 |
| 4 | text | Default text | string | opt. | 1 | 64 | empty string |
| 5 | textIndex | Contain index of text within current joker type | int | req. | | | -1 |

2.6. ESRDetail

| Settings for parsing ESR files | | | | | | | |
|--------------------------------|-------------------------|--|--------|------|-----|-----|---------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | discountToleranceAmount | Amount used for automatic discount calculation | double | req. | | | 0 |
| 3 | esrDetailID | ESRDetail unique identifier | int | opt. | | | -1 |
| 4 | invoiceNumIndex | Index in ESR file from where invoice num begin | int | req. | | | 0 |
| 5 | invoiceNumLength | Length of invoice number within ESR file | int | req. | | | 0 |
| 6 | partyNumIndex | Index in ESR file from where party num begin | int | req. | | | 0 |
| 7 | partyNumLength | Length of party number within ESR file | int | req. | | | 0 |
| 8 | useInvoiceFreeNumber | Whether the invocie free number used to search invoice | bit | req. | | | False |
| 9 | usePartyFreeNumber | Whether the party free number used to search invoice | bit | req. | | | False |
| 10 | useReferenceNumber | Whether the reference number used to search invoice | bit | req. | | | False |
| 11 | writeOffToleranceAmount | Amount used for automatic write off calculation | double | req. | | | 0 |

2.7. VATPeriod

| Periods of VAT rules | | | | | | | |
|----------------------|-------------|-----------------------------|----------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | dateFrom | Date VAT period starts from | datetime | req. | | | current date |
| 3 | vatPeriodID | VATPeriod unique identifier | int | req. | | | -1 |

2.8. CostCenter

| Cost center list | | | | | | | |
|------------------|--------------|--|----------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | code | CostCenter code | string | req. | 1 | 11 | empty string |
| 3 | comment | Commentary to CostCenter | string | opt. | 0 | 128 | empty string |
| 4 | costcenterID | CostCenter unique identifier | int | req. | | | -1 |
| 5 | endDate | Project end date | datetime | opt. | | | current date |
| 6 | isInactive | Whether BankAccount is inactive | bit | opt. | | | False |
| 7 | isProject | Whether cost center is project | bit | opt. | | | False |
| 8 | modifyDate | Date of last instance modifying | datetime | opt. | | | current date |
| 9 | name | CostCenter name | string | opt. | 1 | 64 | empty string |
| 10 | startDate | Project start date | datetime | opt. | | | current date |
| 11 | userFID | Link to user which edit instance last time | int | opt. | | | -1 |

2.9. CostCenterMethod

| Cost center methods per master cost cente in percents | | | | | | | |
|---|---------------------|-------------------------------------|--------|------|-----|-----|---------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | costCenterChildFID | Link to child CostCenter | int | req. | | | -1 |
| 2 | costCenterMasterFID | Link to master CostCenter | int | req. | | | -1 |
| 3 | costCenterMethodID | CostCenter Method unique identifier | int | opt. | | | -1 |
| 4 | percentage | Method percentage | double | req. | | | 0 |

2.10. Country

| Countries list | | | | | | | |
|----------------|------------|---------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to Client | int | req. | | | -1 |
| 2 | code | Country code | string | req. | 1 | 3 | empty string |
| 3 | countryID | Country unique identifier | int | req. | | | -1 |
| 4 | name | Country name | string | opt. | 1 | 30 | empty string |

2.11. Language

| Language list | | | | | | | |
|---------------|------------|----------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to Client | int | req. | | | -1 |
| 2 | code | Language code | string | req. | 1 | 3 | empty string |
| 3 | languageID | Language unique identifier | int | req. | | | -1 |
| 4 | name | Language name | string | req. | 1 | 35 | empty string |

2.12. Currency

| Currency list | | | | | | | |
|---------------|------------------|-----------------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | currencyID | Currency unique identifier | int | req. | | | -1 |
| 3 | isoCode | Currency ISO code | string | req. | 3 | 3 | empty string |
| 4 | lossAccountFID | Link to loss difference account | int | opt. | | | -1 |
| 5 | name | Currency name | string | opt. | 1 | 50 | empty string |
| 6 | profitAccountFID | Link to profit difference account | int | opt. | | | -1 |
| 7 | rate | Currency rate to client currency | double | req. | | | 1 |
| 8 | symbol | Currency symbol | string | opt. | 0 | 5 | empty string |
| 9 | unit | Currency unit | double | opt. | | | 1 |

2.13. Bank

| Bank list | | | | | | | |
|-----------|-------------|------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | address | Bank address | string | opt. | 0 | 64 | empty string |
| 2 | bankID | Bank unique identifier | int | req. | | | -1 |
| 3 | bankPC | Bank postal code | string | opt. | 0 | 22 | empty string |
| 4 | city | Bank city | string | opt. | 0 | 64 | empty string |
| 5 | clientFID | Link to client | int | req. | | | -1 |
| 6 | code | Bank code | string | req. | 1 | 12 | empty string |
| 7 | countryFID | Link to country | int | opt. | | | -1 |
| 8 | name | Name of bank | string | opt. | 1 | 64 | empty string |
| 9 | postAddress | Bank post address | string | opt. | 0 | 64 | empty string |
| 10 | swift | SWIFT | string | opt. | 0 | 12 | empty string |
| 11 | zipCode | Bank zip code | string | opt. | 0 | 22 | empty string |

2.14. Depreciation

| Depreciation list | | | | | | | |
|-------------------|----------------|--------------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | depreciationID | Depreciation unique identifier | int | req. | | | -1 |
| 3 | name | Depreciation name | string | req. | 1 | 22 | empty string |
| 4 | rate | Depreciation rate | double | req. | | | 0 |

2.15. Partner

| Partner list | | | | | | | |
|--------------|---------------|----------------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to Client | int | req. | | | -1 |
| 2 | description | Partner description | string | opt. | 0 | 50 | empty string |
| 3 | name | Partner name | string | opt. | 1 | 22 | empty string |
| 4 | participation | Partner participation in percent | double | req. | | | 0 |
| 5 | partnerID | Partner unique identifier | int | req. | | | -1 |

2.16. ReminderFee

| Texts for reminder report according to reminder level | | | | | | | |
|---|-------------------|--|------------------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | body | Reminder body | string | opt. | 0 | 0 | empty string |
| 2 | footer | Reminder footer | string | opt. | 0 | 0 | empty string |
| 3 | header | Reminder header | string | opt. | 0 | 0 | empty string |
| 4 | languageFID | Link to language message is written in | int | req. | | | -1 |
| 5 | reminderFeeFID | Link to reminderFee | int | req. | | | -1 |
| 6 | reminderMessageID | ReminderMessage unique identifier | uniqueidentifier | req. | | | empty guid |
| 7 | salutation | Reminder salutation | string | opt. | 0 | 0 | empty string |

2.17. AccountArea

| COA Account areas | | | | | | | |
|-------------------|------------------|---|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accAreaID | Account Area unique identifier | int | req. | | | -1 |
| 2 | balanceOrNominal | Shows Account Area is balance (true = 1) or nominal (false = 0) | bit | req. | | | False |
| 3 | clientFID | Link to client | int | req. | | | -1 |
| 4 | name | Name of Account Area | string | req. | 1 | 30 | empty string |

2.18. Interest

| Interests list | | | | | | | |
|----------------|------------|----------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to Client | int | req. | | | -1 |
| 2 | interestID | Interest unique identifier | int | req. | | | -1 |
| 3 | name | Interest name | string | opt. | 1 | 22 | empty string |

2.19. InterestRate

| Interest details - from date, debit and credit interests | | | | | | | |
|--|----------------|--------------------------------|----------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | creditInterest | Credit Interest Rate | double | opt. | | | 0 |
| 2 | debitInterest | Debit Interest Rate | double | opt. | | | 0 |
| 3 | fromDate | InterestRate date from | datetime | req. | | | current date |
| 4 | interestFID | Link to Interest | int | req. | | | -1 |
| 5 | interestRateID | InterestRate unique identifier | int | opt. | | | -1 |

2.20. PayTerm

| Payment term in days | | | | | | | |
|----------------------|-------------|--|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | code | PayTerm code | string | req. | 1 | 8 | empty string |
| 3 | description | PayTerm description | string | opt. | 0 | 40 | empty string |
| 4 | dueDays | PayTerm Due Days, set due date of invoice by adding this value to invoice date | int | req. | | | 0 |
| 5 | payTermID | PayTerm unique identifier | int | req. | | | -1 |

2.21. PayTermDetail

| Payment term detail - which percent discount is valid within days number | | | | | | | |
|--|-----------------|---|--------|------|-----|-----|---------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | discount | PayTermDetail discount, percentage | double | opt. | | | 0 |
| 2 | payTermDetailID | PayTermDetail unique identifier | int | req. | | | -1 |
| 3 | payTermFID | Link to payTerm | int | req. | | | -1 |
| 4 | withinDays | Number of days within discount is valid | int | req. | | | 0 |

2.22. BankAccount

| Bank Account list | | | | | | | |
|-------------------|--------------------|---|--------|----------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accountFID | Link to account | int | req. | | | -1 |
| 2 | accountNum | Bank account number | string | opt. | 0 | 36 | empty string |
| 3 | bankAccountID | Bank Account unique identifier | int | req. | | | -1 |
| 4 | bankAccountTypeFID | Type of bankAccount (BankAccount = 1, PostalAccount = 2, GLAccount = 3) | int | req. | | | -1 |
| 5 | bankFID | Link to bank | int | opt./req | | | -1 |
| 6 | clientFID | Link to client | int | req. | | | -1 |
| 7 | creditLine | Credit line(limit) of bank account | double | opt. | | | 0 |
| 8 | iban | IBAN | string | opt. | 0 | 22 | empty string |
| 9 | isInactive | Whether BankAccount is inactive | bit | opt. | | | False |
| 10 | name | Name of bank account | string | req. | 1 | 52 | empty string |

2.23. VAT

| VAT list | | | | | | | |
|----------|-------------|--|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accountFID | Link to account | int | req. | | | -1 |
| 2 | clientFID | Link to client | int | req. | | | -1 |
| 3 | code | VAT code | string | req. | 1 | 12 | empty string |
| 4 | description | VAT description | string | opt. | 0 | 80 | empty string |
| 5 | isInclusive | Whether vat amount included = true or excluded = false to posting amount | bit | opt. | | | True |
| 6 | isInputTax | Whether vat is input tax (used in reports) | bit | opt. | | | False |
| 7 | vatID | VAT unique identifier | int | req. | | | -1 |

2.24. VATRate

| VAT details - rate and quote | | | | | | | |
|------------------------------|--------------|---------------------------|--------|------|-----|-----|---------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | quote | VAT quote(percentage) | double | opt. | | | 100 |
| 2 | rate | VAT rate | double | req. | | | 0 |
| 3 | vatFID | Link to VAT | int | req. | | | -1 |
| 4 | vatPeriodFID | Link to VAT period | int | req. | | | -1 |
| 5 | vatRateID | VATRate unique identifier | int | req. | | | -1 |

2.25. VATGroupDetail

| Contains VAT group used for reports | | | | | | | |
|-------------------------------------|------------------|----------------------------------|------|------|-----|-----|---------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | vatFID | Link to VAT | int | req. | | | -1 |
| 3 | vatGroupDetailID | VATGroupDetail unique identifier | int | req. | | | -1 |
| 4 | vatGroupFID | Type of VAT Group | int | req. | | | -1 |

2.26. COA

| Chart of Accounts | | | | | | | |
|-------------------|--------------|---|----------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | clientFID | Link to client | int | req. | | | -1 |
| 2 | coaID | COA unique identifier | int | req. | | | -1 |
| 3 | creationDate | COA creation date | datetime | req. | | | current date |
| 4 | isMaster | Shows is this COA master(true = 1) or not (false = 0) | bit | req. | | | True |
| 5 | name | COA name | string | req. | 1 | 50 | empty string |

2.27. COAView

| Visual representation of chart of accounts | | | | | | | |
|--|------------|----------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | coaViewID | COA View unique identifier | int | req. | | | -1 |
| 2 | coaFID | Link to COA | int | req. | | | -1 |
| 3 | name | COA View name | string | req. | 0 | 50 | empty string |

2.28. COATreeView

| Chart of accounts tree (list of COA items) | | | | | | | |
|--|---------------|--|----------|-----------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accAreaFID | Link to Account Area | int | req. | | | -1 |
| 2 | accountFID | Link to Account | int | opt./req. | | | -1 |
| 3 | coaFID | Link to COA | int | req. | | | -1 |
| 4 | coaTreeViewID | COA TreeView unique identifier | int | req. | | | -1 |
| 5 | code | Code of COA item | string | req. | 2 | 22 | empty string |
| 6 | compareFID | COA TreeView item with which current item will compare balance | int | opt. | | | -1 |
| 7 | groupID | Link to tree group which contains this item | int | req. | | | -1 |
| 8 | isCredit | Sign in report | bit | req. | | | False |
| 9 | isInvisible | Shows is COA item visible in reports (false = 0) | bit | opt. | | | False |
| 10 | linesBefore | Number of empty lines before this item in reports | int | opt. | | | 0 |
| 11 | modifyDate | Date of last instance modifying | datetime | opt. | | | current date |
| 12 | name | Name of COA item | string | req. | 1 | 60 | empty string |
| 13 | name2 | Name2 of COA item | string | opt./req. | 0 | 60 | empty string |
| 14 | name2usage | Shows to use name2 instead name in reports(true = 1) or not (false = 0) | bit | opt. | | | False |
| 15 | noAccBalance | Reserved | bit | opt. | | | False |
| 16 | pageBefore | Shows is page break in reports before this COA item (true = 1) | bit | opt. | | | False |
| 17 | parentID | Link to previous tree item | int | req. | | | -1 |
| 18 | remarks | Remarks for item | string | opt. | 0 | 256 | empty string |
| 19 | type | Type od COA item (Account = 1, AccountGroup = 2, AccountCopy = 3, AccountMirror = 4, Comment = 5, Counter = 6, Result = 7) | tinyint | req. | | | 0 |
| 20 | userFID | Link to user which edit instance last time | int | opt. | | | -1 |

2.29. CounterDetail

| Detail information of counter per COA item | | | | | | | |
|--|----------------|---|------|------|-----|-----|---------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | coaTreeViewFID | Link to COATreeView item which included to counter calculation | int | req. | | | -1 |
| 2 | counterDetID | Counter Detail unique identifier | int | opt. | | | -1 |
| 3 | counterFID | Link to counter(COATreeView item) | int | req. | | | -1 |
| 4 | state | Sign with which item will be added to counter (true or 1 - plus, false or 0 - minus) | bit | req. | | | False |

2.30. Account

| GL Account list | | | | | | | |
|-----------------|-------------------|---|--------|------|-----|-----|---------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accountID | Account unique identifier | int | req. | | | -1 |
| 2 | accTypeFID | Account type (Assets = 1, Liabilities = 2, Revenue = 3 or Cost = 4) | int | req. | | | -1 |
| 3 | coaTreeViewFID | Link to Master COA TreeView | int | req. | | | -1 |
| 4 | costCenterFID | Link to Cost Center which will be used as default | int | opt. | | | -1 |
| 5 | currencyFID | Link to Currency | int | req. | | | -1 |
| 6 | inclInValuation | Include account in FC valuation | bit | opt. | | | True |
| 7 | isCcRequired | Shows whether cost center required for posting with this account(true = 1) or not (false = 0) | bit | opt. | | | False |
| 8 | isInactiv | Shows whether this account selectable for posting | bit | opt. | | | False |
| 9 | isMoneyAcc | Shows whether it's money account(true = 1) or not (false = 0) | bit | opt. | | | False |
| 10 | noAccDetails | Shows whether account details will be shown in account statement report(true = 1) or not (false = 0) | bit | opt. | | | False |
| 11 | noDirectPosting | Shows whether it's possible to make direct posting | bit | opt. | | | False |
| 12 | noZeroPrint | Shows whether zero balance will be printed | bit | opt. | | | False |
| 13 | startingBalance | Starting balance of the account (only for first fiscal year) | double | opt. | | | 0 |
| 14 | startingBalanceFC | Starting balance of the account in foreign currency | double | opt. | | | 0 |
| 15 | vatFID | Link to VAT which will be used as default | int | opt. | | | -1 |

2.31. Budget

| Budget list | | | | | | | |
|-------------|---------------|--------------------------|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | budgetID | Budget unique identifier | int | req. | | | -1 |
| 2 | comment | Commentary to budget | string | opt. | 0 | 64 | empty string |
| 3 | fiscalYearFID | Link to fiscal year | int | req. | | | -1 |
| 4 | name | Name of budget | string | opt. | 1 | 24 | empty string |

2.32. BudgetPeriod

| Budget amount per account and period (month or quarter) | | | | | | | |
|---|----------------|---|----------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accountFID | Link to account | int | req. | | | -1 |
| 2 | amount | Period amount | double | req. | | | 0 |
| 3 | budgetFID | Link to budget which contains this period | int | req. | | | -1 |
| 4 | budgetPeriodID | Budget period unique identifier | int | opt. | | | -1 |
| 5 | periodDate | Period end date (one month) | datetime | req. | | | current date |

2.33. Party

| Party list | | | | | | | |
|------------|--------------|---|----------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | address1 | Party address line 1 | string | opt. | 0 | 36 | empty string |
| 2 | address2 | Party address line 2 | string | opt. | 0 | 36 | empty string |
| 3 | addressBlock | Address block | string | opt. | 0 | 128 | empty string |
| 4 | city | Party city | string | opt. | 0 | 22 | empty string |
| 5 | clientFID | Link to client | int | req. | | | -1 |
| 6 | countryFID | Link to country | int | req. | | | -1 |
| 7 | email | Party email | string | opt. | 0 | 60 | empty string |
| 8 | freePartyNum | Free number - defined by user | string | opt. | 0 | 64 | empty string |
| 9 | isPrivate | Whether is private person or not (f.ex. company) | bit | opt. | | | False |
| 10 | languageFID | Link to language | int | req. | | | -1 |
| 11 | line1 | Name line 1 | string | opt. | 0 | 60 | empty string |
| 12 | line2 | Name line 2 | string | opt. | 0 | 60 | empty string |
| 13 | modifyDate | Date of last instance modifying | datetime | opt. | | | current date |
| 14 | name | Party name | string | req. | 1 | 60 | empty string |
| 15 | partyID | Party unique identifier | int | req. | | | -1 |
| 16 | partyNum | Party number (handled by server) unique within client | int | req. | | | -1 |
| 17 | remarks | Remarks to party | string | opt. | 0 | 50 | empty string |
| 18 | shortName | Party short name | string | req. | 1 | 22 | empty string |
| 19 | telefax | Party telefax | string | opt. | 0 | 24 | empty string |
| 20 | telephone | Party telephone | string | opt. | 0 | 24 | empty string |
| 21 | userFID | Link to user which edit instance last time | int | opt. | | | -1 |
| 22 | web | Party web link | string | opt. | 0 | 60 | empty string |
| 23 | zip | Party zip | string | opt. | 0 | 22 | empty string |

2.34. Person

| Person info per party, debtor and creditor | | | | | | | |
|--|------------|---|--------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | email | Person email | string | opt. | 0 | 60 | empty string |
| 2 | firstName | Person first name | string | opt. | 0 | 24 | empty string |
| 3 | isMale | Shows is person male(true = 1) or female(false = 0) | bit | req. | | | False |
| 4 | jobTitle | Person jobTitle | string | opt. | 0 | 25 | empty string |
| 5 | lastName | Person last name | string | opt. | 0 | 24 | empty string |
| 6 | middleName | Person middle name | string | opt. | 0 | 24 | empty string |
| 7 | mobile | Person mobile number | string | opt. | 0 | 24 | empty string |
| 8 | partyFID | Link to party | int | req. | | | -1 |

| | | | | | | | | |
|----|---------------|---|--------|------|---|-----|--------------|----|
| 9 | personID | Person unique identifier | int | req. | | | | -1 |
| 10 | personRoleFID | Person Role (1 = Party, 2 = Debtor, 3 = Creditor) | int | req. | | | | -1 |
| 11 | salutation | Person Salutation (used in reporting e.g. Reminder) | string | opt. | 0 | 128 | empty string | |
| 12 | telephone | Person telephone | string | opt. | 0 | 24 | empty string | |
| 13 | title | Person title | string | opt. | 0 | 24 | empty string | |
| 14 | titleSuffix | Person titleSuffix(e.g. 'Mr.', 'Herr,' etc) | string | opt. | 0 | 24 | empty string | |

2.35. PayMethod

| Payment methods of party | | | | | | | | |
|--------------------------|----------------|--|--------|-----------|-----|-----|--------------|----|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default | |
| 1 | accountFID | Link to account | int | req. | | | | -1 |
| 2 | accountNum | PayMethod accountNum | string | opt. | 0 | 36 | empty string | |
| 3 | bankAccountFID | Link to Bank Account | int | req. | | | | -1 |
| 4 | bankFID | Link to bank | int | opt./req. | | | | -1 |
| 5 | name | PayMethod name | string | opt. | 1 | 52 | empty string | |
| 6 | partyFID | Link to party | int | req. | | | | -1 |
| 7 | payMethodID | PayMethod unique identifier | int | req. | | | | -1 |
| 8 | payslipCode | PayMethod Payslip Code | string | opt. | 0 | 36 | empty string | |
| 9 | payTypeFID | Link to payType | int | req. | | | | -1 |
| 10 | personRole | Shows to which type of party paymentmethod linked (1 = Debtor, 2 = Creditor) | int | req. | | | | -1 |

2.36. Debtor

| Party debtor info | | | | | | | | |
|-------------------|----------------|---|----------|------|-----|-----|--------------|----|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default | |
| 1 | accountFID | Link to account | int | opt. | | | | -1 |
| 2 | creditLine | Debtor Credit Line(limit) | double | opt. | | | | 0 |
| 3 | debtorID | Debtor unique identifier | int | opt. | | | | -1 |
| 4 | freeCode | Debtor Free Code user defined | string | opt. | 0 | 13 | empty string | |
| 5 | isInactiv | Whether Debtor will appear in invoice window (if true then will not appear) | bit | opt. | | | False | |
| 6 | modifyDate | Date of last instance modifying | datetime | opt. | | | current date | |
| 7 | noReminders | Default flag which is set for invoice | bit | opt. | | | False | |
| 8 | noRemindersFee | Reserved | bit | opt. | | | False | |
| 9 | partyFID | Link to party | int | req. | | | | -1 |
| 10 | payMethodFID | Link to default debtor payment method | int | req. | | | | -1 |
| 11 | payTermFID | Link to Payment Term | int | req. | | | | -1 |
| 12 | userFID | Link to user which edit instance last time | int | opt. | | | | -1 |

2.37. Creditor

| Party creditor info | | | | | | | |
|----------------------------|-------------------|---|-------------|-------------|------------|------------|----------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accountFID | Link to account | int | opt. | | | -1 |
| 2 | creditLine | Creditor credit line (limit) | double | opt. | | | 0 |
| 3 | creditorID | Creditor unique identifier | int | req. | | | -1 |
| 4 | freeCode | Creditor freeCode | string | opt. | 0 | 13 | empty string |
| 5 | isInactiv | Whether Creditor will appear in invoice window (if true then will not appear) | bit | opt. | | | False |
| 6 | modifyDate | Date of last instance modifying | datetime | opt. | | | current date |
| 7 | ourCustomerNum | Creditor ourCustomerNum | string | opt. | 0 | 20 | empty string |
| 8 | partyFID | Link to party | int | req. | | | -1 |
| 9 | payMethodFID | Link to default payment method of Creditor which proposed in invoice | int | req. | | | -1 |
| 10 | payTermFID | Link to payTerm | int | req. | | | -1 |
| 11 | userFID | Link to user which edit instance last time | int | opt. | | | -1 |
| 12 | vatNumber | Creditor VAT number | string | opt. | 0 | 18 | empty string |

2.38. Transaction

| Transaction list | | | | | | | |
|------------------|--------------------|---|------------------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | docDate | Date of transaction | datetime | req. | | | current date |
| 2 | docNum | Transaction document number | int | req. | | | -1 |
| 3 | docType | Transaction Document Type | string | opt. | 0 | 2 | empty string |
| 4 | fiscalYearFID | Link to fiscal year | int | req. | | | -1 |
| 5 | isConfirmed | Shows is transaction confirmed (true = 1) Used for Payment Run | bit | opt. | | | True |
| 6 | modifyDate | Date of last transaction modifying | datetime | opt. | | | current date |
| 7 | transactionID | Transaction unique identifier | uniqueidentifier | req. | | | empty guid |
| 8 | transactionTypeFID | Type of transaction(Simple = 1, Compound = 2, Invoice = 3, Payment = 4) | int | req. | | | 0 |
| 9 | userFID | Link to user which edit transaction last time | int | opt. | | | -1 |

2.39. Posting

| Transaction postings list | | | | | | | |
|---------------------------|------------------|--|------------------|-----------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accountFID | Link to account | int | req. | | | -1 |
| 2 | amount | Amount of posting | double | req. | | | 0 |
| 3 | contraAccountFID | Link to contra account if = -1 then 'Div.' | int | opt./req. | | | -1 |
| 4 | costCenterFID | Link to cost center | int | opt./req. | | | -1 |
| 5 | exchangeRate | Exchange rate of posting (If posting in foreign currency) | double | opt./req. | | | 1 |
| 6 | fcAmount | Amount of posting in foreign currency | double | req. | | | 0 |
| 7 | freeCode | Free code of posting | string | opt. | 0 | 13 | empty string |
| 8 | invoiceFID | Link to invoice(for invoice and payment transaction) | uniqueidentifier | opt./req. | | | empty guid |
| 9 | isDebit | Shows is posting debit (true = 1) or credit (false = 0) | bit | req. | | | False |
| 10 | isInclusive | Is VAT amount included or not | bit | opt. | | | False |
| 11 | isInvisible | Whether posting invisible used for recurrent transaction | bit | opt. | | | False |
| 12 | postingID | Posting unique identifier | uniqueidentifier | opt. | | | empty guid |
| 13 | postingIndex | Index of posting within transaction | int | opt./req. | | | 0 |
| 14 | postingTypeFID | Type of posting(Compound = 1, Invoice = 2, Payment = 3, WriteOff = 4, Discount = 5, Fee = 6, Difference = 7) | int | req. | | | -1 |
| 15 | text | Posting text | string | opt. | 0 | 64 | empty string |
| 16 | transactionFID | Link to transaction | uniqueidentifier | req. | | | empty guid |
| 17 | vatAccountFID | Link to VAT account | int | opt./req. | | | -1 |
| 18 | vatAmount | VAT amount of posting | double | opt./req. | | | 0 |
| 19 | vatFcAmount | VAT amount of posting in foreign currency | double | opt./req. | | | 0 |

| | | | | | | | |
|----|------------|-------------|--------|-----------|--|--|-----|
| 20 | vatFID | Link to vat | int | opt./req. | | | -1 |
| 21 | vatPercent | VAT percent | double | opt./req. | | | 0 |
| 22 | vatQuote | VAT Quote | double | opt./req. | | | 100 |

2.40. Invoice

| Invoice list | | | | | | | |
|--------------|----------------|--|------------------|-----------|-----|-----|--------------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | authorizerFID | Link to user authorizer | int | opt. | | | -1 |
| 2 | barCode | Invoice barcode | string | opt. | 0 | 64 | empty string |
| 3 | clientFID | Link to Client | int | req. | | | -1 |
| 4 | dueDate | Date due when invoice has to be paid | datetime | req. | | | 01.01.1753 0:00:00 |
| 5 | exchangeRate | Invoice exchange rate, if invoice in foreign currency else = 1 | double | opt./req. | | | 1 |
| 6 | freeInvoiceNum | Free Invoice number defined by user | string | opt. | 0 | 64 | empty string |
| 7 | invoiceDate | Date of invoice creation | datetime | req. | | | current date |
| 8 | invoiceID | Invoice unique identifier (same as transaction if exists) | uniqueidentifier | req. | | | empty guid |
| 9 | invoiceNum | Invoice number (handled by server), unique within client and invoice type(person role) | int | req. | | | -1 |
| 10 | isAuthorized | Shows is invoice authorized(true = 1) | bit | opt. | | | True |
| 11 | modifyDate | Date when invoice was modified last time | datetime | opt. | | | current date |
| 12 | noReminders | If set to true, invoice will not be proposed to reminders | bit | opt. | | | False |
| 13 | partyFID | Link to Party | int | req. | | | -1 |
| 14 | payMethodFID | Link to payMethod | int | req. | | | -1 |
| 15 | payslipCode | Invoice Payslip Code | string | opt. | 0 | 64 | empty string |
| 16 | payTermFID | Link to payTerm | int | req. | | | -1 |
| 17 | personRoleFID | Show type of invoice (2 = Debtor (Sales), 3 = Creditor (Purchase)) | int | req. | | | -1 |
| 18 | reminderLevel | Reminder level with which invoice created (start level) | int | opt. | | | 0 |
| 19 | text | Invoice text | string | opt. | 0 | 64 | empty string |
| 20 | totalAmount | Invoice amount | double | req. | | | 0 |
| 21 | totalAmountFC | Invoice amount in foreign currency | double | req. | | | 0 |
| 22 | userFID | Link to user which edit invoice last time | int | opt. | | | -1 |
| 23 | vatFID | Link to VAT | int | opt. | | | -1 |

2.41. Payment

| Payment list | | | | | | | |
|--------------|---------------------------|--|------------------|-----------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | accountFID | Link to account | int | req. | | | -1 |
| 2 | amount | Payment amount | double | req. | | | 0 |
| 3 | fcAmount | Payment amount in foreign currency | double | req. | | | 0 |
| 4 | partyFID | Link to party, in case of payment run = -1 | int | opt./req. | | | -1 |
| 5 | paymentID | Payment unique identifier (same as transaction) | uniqueidentifier | req. | | | empty guid |
| 6 | paymentRate | Payment exchange rate | double | opt./req. | | | 1 |
| 7 | paymentTransactionTypeFID | Type of payment (1 = Manual, 2 = ESR, 2 = Payment Run) | int | req. | | | -1 |
| 8 | personRoleFID | Show type of payment (1 = Debtor (Sales), 2 = Creditor (Purchase)) | int | req. | | | -1 |
| 9 | text | Payment text | string | opt. | 0 | 64 | empty string |

2.42. PaymentRun

| Payment run list | | | | | | | |
|------------------|----------------|---|------------------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | bankAccountFID | Link to internal Bank Account | int | req. | | | -1 |
| 2 | isPrinted | Shows was Payment Run printed(true = 1) | bit | opt. | | | False |
| 3 | isSent | Shows whether Payment Run was sent (true = 1) | bit | opt. | | | False |
| 4 | paymentRunID | PaymentRun unique identifier(same as payment and transaction) | uniqueidentifier | req. | | | empty guid |
| 5 | valueDate | Date, on which Payment Run was proposed | datetime | req. | | | current date |

2.43. Reminder

| Reminder per party about not paid invoices | | | | | | | |
|--|----------------|--|------------------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | consideredDate | Payment considered until | datetime | req. | | | current date |
| 2 | currencyFID | Link to currency | int | req. | | | -1 |
| 3 | isPrinted | Shows was reminder printed (true = 1) | bit | opt. | | | False |
| 4 | modifyDate | Date of last reminder modifying | datetime | opt. | | | current date |
| 5 | partyFID | Link to party | int | req. | | | -1 |
| 6 | reminderDate | Date of reminder | datetime | req. | | | current date |
| 7 | reminderID | Reminder unique identifier | uniqueidentifier | req. | | | empty guid |
| 8 | reminderLevel | Reminder level | int | req. | | | 0 |
| 9 | userFID | Link to user which edit reminder last time | int | opt. | | | -1 |
| 10 | valueDate | Date due when reminder was proposed | datetime | req. | | | current date |

2.44. ReminderDetail

| Detail of reminder per invoice | | | | | | | |
|--------------------------------|------------------|----------------------------------|------------------|------|-----|-----|------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | invoiceFID | Link to invoice | uniqueidentifier | req. | | | empty guid |
| 2 | reminderDetailID | ReminderDetail unique identifier | uniqueidentifier | req. | | | empty guid |
| 3 | reminderFID | Link to reminder | uniqueidentifier | req. | | | empty guid |

2.45. ReminderMessage

| Texts for reminder report according to reminder level | | | | | | | |
|---|-------------------|--|------------------|------|-----|-----|--------------|
| Pos | Field Name | Description | Type | Req. | Min | Max | Default |
| 1 | reminderMessageID | ReminderMessage unique identifier | uniqueidentifier | req. | | | empty guid |
| 2 | languageFID | Link to language message is written in | int | req. | | | -1 |
| 3 | reminderFeeFID | Link to reminderFee | int | req. | | | -1 |
| 4 | header | Reminder header | string | opt. | 0 | 0 | empty string |
| 5 | body | Reminder body | string | opt. | 0 | 0 | empty string |
| 6 | footer | Reminder footer | string | opt. | 0 | 0 | empty string |
| 7 | salutation | Reminder salutation | string | opt. | 0 | 0 | empty string |
| 8 | isLeftPosition | Position of text in reminder reports | bit | opt. | | | True |

3. XML Structure

3.1. General XML Description

The **Extensible Markup Language (XML)** is a [W3C](#)-recommended general-purpose [markup language](#) that supports a wide variety of applications. XML languages or 'dialects' are easy to design and to process. They are also reasonably human legible, and to this end, terseness was not considered essential in its structure. XML is a simplified subset of [Standard Generalized Markup Language \(SGML\)](#). Its primary purpose is to facilitate the sharing of data across different information systems, particularly systems connected via the [Internet](#)

Topal System uses the XML format as intermediate source for Data Migration.

For example, when you export data from Topal, Topal System creates the XML representation of exported data. Then this XML can be used as source for data importing.

In the same way solved import migration process from other systems (e.g. SAGE Sesam). XML is an intermediate source between parsing from Sesam and importing into Topal.

The XML is also used for Mandalink interface.

You can read more about XML by using link - <http://www.w3.org/XML/>.

3.2. XML Schemes

XML Schemas express shared vocabularies and allow machines to carry out rules made by people. They provide a means for defining the structure, content and semantics of XML document in more detail.

It is not necessary to define schema in for import XML, but it's recommended. The schemas defining help to prevent error in XML document.

Anyway, Topal System will "understand" XML even without schema but of course all other description should be correct.

You can read more about XML schemas by using link - <http://www.w3.org/XML/Schema>

3.3. Topal Entities XML Representation

If you use .NET then you have comfortable classes for creation or parsing Topal Import XML file. With ADO.NET objects, you have very powerful tools.

There are tools existing in most languages, which make your work with XML much simpler than do it manually.

You will find XML Schema description below.

Therefore, we can start to create Import XML Source.

It is recommended to add XML Description tag:

```
<?xml version="1.0" standalone="yes"?>
```

Then you have to define XML root element, but be aware that only one root element can be defined within XML document. For example:

```
<NewDataSet>
```

```
</NewDataSet>
```

You see that tag has to be closed (</>).

Within root element, you can add Topal instances in XML representation.

For example the following XML describe client.

```
<?xml version="1.0" standalone="yes"?>
```

```
<NewDataSet>
```

```
<Client>
```

```
<clientID>2</clientID>
```

```
<code>1 </code>
```

```
<name>My First Client </name>
```

```
<street>Morgenstrasse 129 </street>
```

```
<zip>3018 </zip>
```

```
<city>Bern </city>
```

```
<telephone>031 355 55 55 </telephone>
```

```
<person xml:space="preserve"> </person>
```

```
<remarks xml:space="preserve">                                </remarks>
<vatNumber>123 456      </vatNumber>
<vatRequired>>true</vatRequired>
<vatSimplified>>false</vatSimplified>
<vatAgreed>>true</vatAgreed>
<vatPaymentBased>>false</vatPaymentBased>
<isTemplate>>false</isTemplate>
<backupTS>2006-05-15T14:03:15.283+03:00</backupTS>
<lastTimestamp>2006-05-15T14:03:15.283+03:00</lastTimestamp>
<isKCSwissRounded>>true</isKCSwissRounded>
<isVATSwissRounded>>true</isVATSwissRounded>
<isDiscountSwissRounded>>true</isDiscountSwissRounded>
</Client>
</NewDataSet>
```

When importing this XML you will create new client. This client will be empty – without Master Data, Fiscal Years, VAT and COA. It happens because we define only client instance.

As mentioned above it is not necessary to define all the fields, some fields are optional, the following XML will be correct too:

```
<?xml version="1.0" standalone="yes"?>
<NewDataSet>
  <Client>
    <clientID>2</clientID>
    <code>2    </code>
    <name>My Second Client</name>
  </Client>
</NewDataSet>
```

As you see there, we define only few attributes, all other client properties will be set as default.

4. Using Topal Data Migration

The current chapter contains a help for using Topal Data Migration System.

4.1. Export

The best way to see correct Topal XML is using Topal Export. You can create Export client, save it in local file, and then look how Topal create XML.

First, you have to run Topal Client. Now you can set current client.

Only current client will be exported to XML.

Open Export window from main menu “File → Export”

There are several kinds of export available in the Export window. The most important is the “Full Client” and “Fiscal Year”.

The full client export includes current client to the XML and all fiscal years of current client.

The fiscal year option means exporting of current client but only current fiscal year will be exported. All data, which is fiscal year dependent (e.g. transactions, postings, invoice, payment etc.) will be exported only with current fiscal year. For example, only transactions of current fiscal year will be exported.

In addition, the “Custom” option is available. By using this option, you can select tables from XML, which you want to export.

4.2. Import

When you create XML source for Topal you can import it in the Topal System.

Open window from main menu “File → Import”.

The similar options as in Export are available here. You can see “Client”, “Fiscal Year” and “Custom” import there.

As exporting the “Client” import always, means creation of new client. Therefore, you have to define client instance in you XML source.

If you select “Fiscal Year” import, the Topal System will not create new client. Even if you include client instance to your XML the Topal System will use this instance for updating current client, but will not create new one.

By using “Custom” import, you can select items from XML source, which you want to import into Topal. It is the most flexible kind of importing which needs more or less deep understanding of Topal Migration process.

5. Example of Topal XML Source

In current chapter, you will find the simple example of XML creation process.

Let's try to create source, which define client with fiscal year and some master data.

As mentioned in the chapter 3.3 we create general description and root element:

```
<?xml version="1.0" standalone="yes"?>
```

```
<NewDataSet>
```

```
</NewDataSet>
```

We will create client with one fiscal year, few country (with client default country), currency (with client currency) and language (with client language).

We will not include all tables and all fields in the tables.

First, we can define schema. Our XML will look like:

```
<?xml version="1.0" standalone="yes"?>
<NewDataSet>
  <xs:schema id="NewDataSet" xmlns="" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
    <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:UseCurrentLocale="true">
      <xs:complexType>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element name="Client">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="clientID" type="xs:int" minOccurs="0" />
                <xs:element name="code" type="xs:string" minOccurs="0" />
                <xs:element name="name" type="xs:string" minOccurs="0" />
                <xs:element name="street" type="xs:string" minOccurs="0" />
                <xs:element name="zip" type="xs:string" minOccurs="0" />
                <xs:element name="city" type="xs:string" minOccurs="0" />
                <xs:element name="telephone" type="xs:string" minOccurs="0" />
                <xs:element name="person" type="xs:string" minOccurs="0" />
                <xs:element name="remarks" type="xs:string" minOccurs="0" />
                <xs:element name="vatNumber" type="xs:string" minOccurs="0" />
                <xs:element name="vatRequired" type="xs:boolean" minOccurs="0" />
                <xs:element name="vatSimplified" type="xs:boolean" minOccurs="0" />
                <xs:element name="vatAgreed" type="xs:boolean" minOccurs="0" />
                <xs:element name="vatPaymentBased" type="xs:boolean" minOccurs="0" />
                <xs:element name="isTemplate" type="xs:boolean" minOccurs="0" />
                <xs:element name="backupTS" type="xs:dateTime" minOccurs="0" />
                <xs:element name="lastTimestamp" type="xs:dateTime" minOccurs="0" />
                <xs:element name="isKCSwissRounded" type="xs:boolean" minOccurs="0" />
                <xs:element name="isVATSwissRounded" type="xs:boolean" minOccurs="0" />
                <xs:element name="isDiscountSwissRounded" type="xs:boolean" minOccurs="0" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:choice>
      </xs:complexType>
    </xs:element>
  </NewDataSet>
```



```
<xs:element name="IsDefault">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="defaultID" type="xs:int" minOccurs="0" />
      <xs:element name="clientFID" type="xs:int" minOccurs="0" />
      <xs:element name="defCountryFID" type="xs:int" minOccurs="0" />
      <xs:element name="defCurrencyFID" type="xs:int" minOccurs="0" />
      <xs:element name="defLanguageFID" type="xs:int" minOccurs="0" />
      <xs:element name="defBankAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defDebitPaymentTypeFID" type="xs:int" minOccurs="0" />
      <xs:element name="defCreditPaymentTypeFID" type="xs:int" minOccurs="0" />
      <xs:element name="defPaymentTermFID" type="xs:int" minOccurs="0" />
      <xs:element name="defDebtorDiscountAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defCreditorDiscountAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defDebtorWriteOffAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defCreditorWriteOffAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defFeeAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defDebtorAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defCreditorAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defMoneyAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="defBudgetPeriodFID" type="xs:int" minOccurs="0" />
      <xs:element name="defAutoDiscountAmount" type="xs:decimal" minOccurs="0" />
      <xs:element name="defNoReminderAmount" type="xs:decimal" minOccurs="0" />
      <xs:element name="currPartyNum" type="xs:int" minOccurs="0" />
      <xs:element name="currPurchaseInvoiceNum" type="xs:int" minOccurs="0" />
      <xs:element name="currSalesInvoiceNum" type="xs:int" minOccurs="0" />
      <xs:element name="currReminderNum" type="xs:int" minOccurs="0" />
      <xs:element name="clientConfig" type="xs:base64Binary" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="FiscalYear">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="fiscalYearID" type="xs:int" minOccurs="0" />
      <xs:element name="clientFID" type="xs:int" minOccurs="0" />
      <xs:element name="defDocumentNumberFID" type="xs:int" minOccurs="0" />
      <xs:element name="defBudgetFID" type="xs:int" minOccurs="0" />
      <xs:element name="resultAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="name" type="xs:string" minOccurs="0" />
      <xs:element name="dateFrom" type="xs:dateTime" minOccurs="0" />
      <xs:element name="dateUntil" type="xs:dateTime" minOccurs="0" />
      <xs:element name="docdateFrom" type="xs:dateTime" minOccurs="0" />
      <xs:element name="docdateUntil" type="xs:dateTime" minOccurs="0" />
      <xs:element name="closedFlag" type="xs:boolean" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Country">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="countryID" type="xs:int" minOccurs="0" />
      <xs:element name="clientFID" type="xs:int" minOccurs="0" />
      <xs:element name="code" type="xs:string" minOccurs="0" />
      <xs:element name="name" type="xs:string" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Language">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="languageID" type="xs:int" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element name="clientFID" type="xs:int" minOccurs="0" />
    <xs:element name="code" type="xs:string" minOccurs="0" />
    <xs:element name="name" type="xs:string" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Currency">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="currencyID" type="xs:int" minOccurs="0" />
      <xs:element name="clientFID" type="xs:int" minOccurs="0" />
      <xs:element name="accountFID" type="xs:int" minOccurs="0" />
      <xs:element name="isoCode" type="xs:string" minOccurs="0" />
      <xs:element name="symbol" type="xs:string" minOccurs="0" />
      <xs:element name="name" type="xs:string" minOccurs="0" />
      <xs:element name="rate" type="xs:decimal" minOccurs="0" />
      <xs:element name="unit" type="xs:decimal" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:schema>
</NewDataSet>

```

Now we can insert client item:

```

<Client>
  <clientID>1</clientID>
  <code xml:space="preserve">    </code>
  <name>My Client    </name>
  <vatRequired>true</vatRequired>
  <vatSimplified>>false</vatSimplified>
  <isTemplate>true</isTemplate>
  <isKCSwissRounded>true</isKCSwissRounded>
  <isVATSwissRounded>true</isVATSwissRounded>
  <isDiscountSwissRounded>true</isDiscountSwissRounded>
</Client>

```

Now you see here that we define clientID, the IDs within XML it is not a real ID from DB. The main requirement is – ID of different instances of the same entity should be original.

Let's insert the fiscal year:

```

<FiscalYear>
  <fiscalYearID>1</fiscalYearID>
  <clientFID>1</clientFID>
  <defDocumentNumberFID>1</defDocumentNumberFID>
  <defBudgetFID>-1</defBudgetFID>
  <resultAccountFID>-1</resultAccountFID>
  <name>2006    </name>

```

```
<dateFrom>2006-01-01T00:00:00+02:00</dateFrom>
<dateUntil>2006-12-31T00:00:00+02:00</dateUntil>
<docdateFrom>2006-01-01T00:00:00+02:00</docdateFrom>
<docdateUntil>2006-12-31T00:00:00+02:00</docdateUntil>
<closedFlag>>false</closedFlag>
</FiscalYear>
```

With next step, we can insert master data instances:

```
<Country>
  <countryID>1</countryID>
  <clientFID>1</clientFID>
  <code>CH </code>
  <name>CH </name>
</Country>
<Country>
  <countryID>2</countryID>
  <clientFID>1</clientFID>
  <code>US </code>
  <name>US </name>
</Country>
<Language>
  <languageID>1</languageID>
  <clientFID>1</clientFID>
  <code>DE </code>
  <name>Deutsch </name>
</Language>
<Language>
  <languageID>2</languageID>
  <clientFID>1</clientFID>
  <code>EN </code>
  <name>English </name>
</Language>
<Language>
  <languageID>3</languageID>
  <clientFID>1</clientFID>
  <code>FR </code>
  <name>Français </name>
</Language>
<Language>
  <languageID>4</languageID>
  <clientFID>1</clientFID>
  <code>IT </code>
```

```
<name>Italiano </name>
</Language>
<Currency>
  <currencyID>30</currencyID>
  <clientFID>1</clientFID>
  <accountFID>-1</accountFID>
  <isoCode>CHF</isoCode>
  <symbol>CHF </symbol>
  <name>CHF </name>
  <rate>1.0000</rate>
  <unit>1.0000</unit>
</Currency>
<Currency>
  <currencyID>160</currencyID>
  <clientFID>1</clientFID>
  <accountFID>-1</accountFID>
  <isoCode>USD</isoCode>
  <symbol>USD </symbol>
  <name>USD </name>
  <rate>1.2500</rate>
  <unit>1.0000</unit>
</Currency>
```

As you can see, here we add several instances of same entities – two currencies, two countries and several languages. Look to the country with code “CH” and language with code “DE”, the IDs of these instances are the same but it doesn’t matter because the entities are different.

Now we can insert “IsDefault” instance, which contains default values of the client.

We do not need all defaults:

```
<IsDefault>
  <defaultID>1</defaultID>
  <clientFID>1</clientFID>
  <defCountryFID>1</defCountryFID>
  <defCurrencyFID>30</defCurrencyFID>
  <defLanguageFID>1</defLanguageFID>
</IsDefault>
```

As you see, we set default country with ID 1, default currency with ID 30 and default language with ID 1.

It means the client, which we will import, would have currency “CHF”, live in the Switzerland (country code “CH”) and his native language is German (language code “DE”).

Now you can import this XML with “Client” kind of import and check it.

The final XML file will look like:

```
<?xml version="1.0" standalone="yes"?>
<NewDataSet>
  <xs:schema id="NewDataSet" xmlns="" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
  <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:UseCurrentLocale="true">
  <xs:complexType>
  <xs:choice minOccurs="0" maxOccurs="unbounded">
  <xs:element name="Client">
  <xs:complexType>
  <xs:sequence>
    <xs:element name="clientID" type="xs:int" minOccurs="0" />
    <xs:element name="code" type="xs:string" minOccurs="0" />
    <xs:element name="name" type="xs:string" minOccurs="0" />
    <xs:element name="street" type="xs:string" minOccurs="0" />
    <xs:element name="zip" type="xs:string" minOccurs="0" />
    <xs:element name="city" type="xs:string" minOccurs="0" />
    <xs:element name="telephone" type="xs:string" minOccurs="0" />
    <xs:element name="person" type="xs:string" minOccurs="0" />
    <xs:element name="remarks" type="xs:string" minOccurs="0" />
    <xs:element name="vatNumber" type="xs:string" minOccurs="0" />
    <xs:element name="vatRequired" type="xs:boolean" minOccurs="0" />
    <xs:element name="vatSimplified" type="xs:boolean" minOccurs="0" />
    <xs:element name="vatAgreed" type="xs:boolean" minOccurs="0" />
    <xs:element name="vatPaymentBased" type="xs:boolean" minOccurs="0" />
    <xs:element name="isTemplate" type="xs:boolean" minOccurs="0" />
    <xs:element name="backupTS" type="xs:dateTime" minOccurs="0" />
    <xs:element name="lastTimestamp" type="xs:dateTime" minOccurs="0" />
    <xs:element name="isKCSwissRounded" type="xs:boolean" minOccurs="0" />
    <xs:element name="isVATSwissRounded" type="xs:boolean" minOccurs="0" />
    <xs:element name="isDiscountSwissRounded" type="xs:boolean" minOccurs="0" />
  </xs:sequence>
  </xs:complexType>
  </xs:element>
  <xs:element name="IsDefault">
```

```
<xs:complexType>
  <xs:sequence>
    <xs:element name="defaultID" type="xs:int" minOccurs="0" />
    <xs:element name="clientFID" type="xs:int" minOccurs="0" />
    <xs:element name="defCountryFID" type="xs:int" minOccurs="0" />
    <xs:element name="defCurrencyFID" type="xs:int" minOccurs="0" />
    <xs:element name="defLanguageFID" type="xs:int" minOccurs="0" />
    <xs:element name="defBankAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defDebitPaymentTypeFID" type="xs:int" minOccurs="0" />
    <xs:element name="defCreditPaymentTypeFID" type="xs:int" minOccurs="0" />
    <xs:element name="defPaymentTermFID" type="xs:int" minOccurs="0" />
    <xs:element name="defDebtorDiscountAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defCreditorDiscountAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defDebtorWriteOffAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defCreditorWriteOffAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defFeeAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defDebtorAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defCreditorAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defMoneyAccountFID" type="xs:int" minOccurs="0" />
    <xs:element name="defBudgetPeriodFID" type="xs:int" minOccurs="0" />
    <xs:element name="defAutoDiscountAmount" type="xs:decimal" minOccurs="0" />
    <xs:element name="defNoReminderAmount" type="xs:decimal" minOccurs="0" />
    <xs:element name="currPartyNum" type="xs:int" minOccurs="0" />
    <xs:element name="currPurchaseInvoiceNum" type="xs:int" minOccurs="0" />
    <xs:element name="currSalesInvoiceNum" type="xs:int" minOccurs="0" />
    <xs:element name="currReminderNum" type="xs:int" minOccurs="0" />
    <xs:element name="clientConfig" type="xs:base64Binary" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="FiscalYear">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="fiscalYearID" type="xs:int" minOccurs="0" />
      <xs:element name="clientFID" type="xs:int" minOccurs="0" />
      <xs:element name="defDocumentNumberFID" type="xs:int" minOccurs="0" />
      <xs:element name="defBudgetFID" type="xs:int" minOccurs="0" />
      <xs:element name="resultAccountFID" type="xs:int" minOccurs="0" />
      <xs:element name="name" type="xs:string" minOccurs="0" />
      <xs:element name="dateFrom" type="xs:dateTime" minOccurs="0" />
      <xs:element name="dateUntil" type="xs:dateTime" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
<xs:element name="docdateFrom" type="xs:dateTime" minOccurs="0" />
<xs:element name="docdateUntil" type="xs:dateTime" minOccurs="0" />
<xs:element name="closedFlag" type="xs:boolean" minOccurs="0" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Country">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="countryID" type="xs:int" minOccurs="0" />
      <xs:element name="clientFID" type="xs:int" minOccurs="0" />
      <xs:element name="code" type="xs:string" minOccurs="0" />
      <xs:element name="name" type="xs:string" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Language">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="languageID" type="xs:int" minOccurs="0" />
      <xs:element name="clientFID" type="xs:int" minOccurs="0" />
      <xs:element name="code" type="xs:string" minOccurs="0" />
      <xs:element name="name" type="xs:string" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Currency">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="currencyID" type="xs:int" minOccurs="0" />
      <xs:element name="clientFID" type="xs:int" minOccurs="0" />
      <xs:element name="accountFID" type="xs:int" minOccurs="0" />
      <xs:element name="isoCode" type="xs:string" minOccurs="0" />
      <xs:element name="symbol" type="xs:string" minOccurs="0" />
      <xs:element name="name" type="xs:string" minOccurs="0" />
      <xs:element name="rate" type="xs:decimal" minOccurs="0" />
      <xs:element name="unit" type="xs:decimal" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:choice>
```

```
</xs:complexType>
</xs:element>
</xs:schema>
<Client>
  <clientID>1</clientID>
  <code xml:space="preserve">    </code>
  <name>My Client    </name>
  <vatRequired>true</vatRequired>
  <vatSimplified>false</vatSimplified>
  <isTemplate>true</isTemplate>
  <isKCSwissRounded>true</isKCSwissRounded>
  <isVATSwissRounded>true</isVATSwissRounded>
  <isDiscountSwissRounded>true</isDiscountSwissRounded>
</Client>
<IsDefault>
  <defaultID>1</defaultID>
  <clientFID>1</clientFID>
  <defCountryFID>1</defCountryFID>
  <defCurrencyFID>30</defCurrencyFID>
  <defLanguageFID>1</defLanguageFID>
</IsDefault>
<FiscalYear>
  <fiscalYearID>1</fiscalYearID>
  <clientFID>1</clientFID>
  <defDocumentNumberFID>1</defDocumentNumberFID>
  <defBudgetFID>-1</defBudgetFID>
  <resultAccountFID>-1</resultAccountFID>
  <name>2006    </name>
  <dateFrom>2006-01-01T00:00:00+02:00</dateFrom>
  <dateUntil>2006-12-31T00:00:00+02:00</dateUntil>
  <docdateFrom>2006-01-01T00:00:00+02:00</docdateFrom>
  <docdateUntil>2006-12-31T00:00:00+02:00</docdateUntil>
  <closedFlag>>false</closedFlag>
</FiscalYear>
<Country>
  <countryID>1</countryID>
  <clientFID>1</clientFID>
  <code>CH </code>
  <name>CH    </name>
</Country>
<Country>
```



```
<countryID>2</countryID>
<clientFID>1</clientFID>
<code>US </code>
<name>US </name>
</Country>
<Language>
  <languageID>1</languageID>
  <clientFID>1</clientFID>
  <code>DE </code>
  <name>Deutsch </name>
</Language>
<Language>
  <languageID>2</languageID>
  <clientFID>1</clientFID>
  <code>EN </code>
  <name>English </name>
</Language>
<Language>
  <languageID>3</languageID>
  <clientFID>1</clientFID>
  <code>FR </code>
  <name>Français </name>
</Language>
<Language>
  <languageID>4</languageID>
  <clientFID>1</clientFID>
  <code>IT </code>
  <name>Italiano </name>
</Language>
<Currency>
  <currencyID>30</currencyID>
  <clientFID>1</clientFID>
  <accountFID>-1</accountFID>
  <isoCode>CHF</isoCode>
  <symbol>CHF </symbol>
  <name>CHF </name>
  <rate>1.0000</rate>
  <unit>1.0000</unit>
</Currency>
<Currency>
  <currencyID>160</currencyID>
```

```
<clientFID>1</clientFID>  
<accountFID>-1</accountFID>  
<isoCode>USD</isoCode>  
<symbol>USD </symbol>  
<name>USD </name>  
<rate>1.2500</rate>  
<unit>1.0000</unit>  
</Currency>  
</NewDataSet>
```

6. Topal XML Validation

Topal Data Migration System support several import sources. It could be for example XML, CVS, and TAFF.

There are no common rules for data organization for all software. Topal [Data Structure](#) created with ID approach, it is useful because you can be sure that any entity has its own unique identify (ID) at least within table and will not be mixed with other. As mentioned, Topal System creates special field in the entity record to use it as ID, but it is possible to link several entities within XML by using special *validation* fields.

Using ID is not always user friendly and obvious way to link instances within XML document.

It is possible to make instance identification from one or several field to use alternate way for instance identifying by using validation fields.

6.1. ID approach problem

Even already existing client sometimes needs an additional data importing – updating of Master Data or COA elements, migration of new transaction, etc. Such kind of migration called as *partly importing*.

Topal [Data Structure](#) it a most right way to make correct import source because that's exactly an immediate representation of data between external source and internal DB. XML document created in that way allows defining all importable Topal entities and most appropriate to import whole client. But in case of *partly* importing this approach could be less suitable.

Each entity imported correctly should have completely filled fields and links to other entities (FID). If you describe in XML document an instance which is already exists in DB it could be corrupted if some fields have wrong values.

When you want to import one transaction you have to describe posting for it. The posting has a link to account(s), and since IDs in XML are not same as DB IDs you have to define account in XML source before giving their FID to posting instance. But account has also FID to other instances like COATreeView and since COATreeView

has a treelike structure, to describe at least one COA item the neighborhood items which has its own neighborhoods should be described, so all tree items will be described. Its only simple example but in the real life one transaction needs most of Master Data describing in the XML source.

For solving this problem the *validation* approach was created.

Instead of FID you can use special validation fields which define a link to other entities. Hence, validation it's an alternate way to define relations.

When you create transaction and describe the posting you have to define link to the posting's account. For that you can use "accountCode" field instead of "accountFID", and "vatCode" instead of "vatFID". And if there is an account with this code exists in the Topal database you don't have to describe account in the XML. The import with validation accept data source created in such way.

6.2. Validation process

The main function of validation process it's a recognizing FIDs by the special validation fields. Most of entities have special validation fields which will help to find according instance and link it.

For example we have posting record with field accountCode value "1000". First, the validation module looks to the import XML to find account record with code "1000" there. If it is not present there then such account will be searched in the database. If there is no such account in the DB, then new account record will be created based on validation values and other fields will be default. If account will be found then it will linked to the posting.

So, the first step of instance validation (recognizing FIDs by validation fields) it's a searching of appropriate linked instances within source XML. But as mentioned in case of partly importing it's not always possible. In this case linked instance searched in the DB. In case of partly importing XML source should be imported to the current client, it means only instance of current client could be found in DB during validation.

In our example we have posting with "accountCode" equal "1000". This field's value could help to find accountFID. There is no such **Account** instance in the XML. If

current client (in which XML source imported to) do not have such account, the new account instance will be created. All the properties of this instance will be default, except “code” which will be equal “1000”. But this posting will not be imported, because account is not valid. There is no information about account area and account type into which new account should be placed.

If you make XML with Bank instance, where you define all necessary information, with “countryCode” attribute equal “CH” but there is no such country in the database, country with code “CH” will be created and imported, because it is enough to know only code of country that it will be importable. After this bank record will be imported too.

6.3. Example of import with validation

Let’s try to import one transaction.

In the source XML we will define not IDs but validation fields.

Please create new client based on the template client, we will use it for testing. The next step creates following XML:

```
<?xml version="1.0" standalone="yes"?>
<NewDataSet>

  <Transaction>
    <transactionTypeFID>2</transactionTypeFID>
    <docNum>2</docNum>
    <docDate>2006-10-24</docDate>
  </Transaction>

  <Posting>
    <docNum>2</docNum>
    <accountCode>1000</accountCode>
    <vatCode>UStn</vatCode>
    <vatAccountCode>2000</vatAccountCode>
    <amount>743.5000</amount>
    <fcAmount>743.4900</fcAmount>
    <exchangeRate>1.0000</exchangeRate>
    <vatAmount>56.5000</vatAmount>
    <vatFcAmount>56.5000</vatFcAmount>
    <vatPercent>7.6000</vatPercent>
    <vatQuote>100.0000</vatQuote>
    <text>Posting 1</text>
    <isDebit>false</isDebit>
    <isInclusive>true</isInclusive>
    <postingIndex>1</postingIndex>
  </Posting>

  <Posting>
    <docNum>2</docNum>
```

```
<accountCode>3200</accountCode>
<amount>800.0000</amount>
<fcAmount>800.0000</fcAmount>
<exchangeRate>1.0000</exchangeRate>
<text>Posting 2</text>
<isDebit>true</isDebit>
<postingIndex>2</postingIndex>
</Posting>
</NewDataSet>
```

As you see here we have only one transaction with two postings.

Have a look to the first posting. There is a tag <docNum>, it's a validation field. Instead of **transactionFID** we use **docNum** field to link posting to transaction. We set **accountCode** field with value "1000", but do not define this account in the XML, it means that such account should be found in the DB (same for second posting with **accountCode** equal "3200"). First posting has a VAT amount and it means it has VAT link. We use **vatCode** property to make link instead of **vatFID** and **vatAccountCode** field instead of **vatAccountFID**.

So, to import this XML accounts with code 1000, 2000 and 3200 should be presented in our test client, also VAT with code UStn should exist.

Open import window, select XML import, and choose "Custom" import option. But it is not enough to switch on pre validation of source XML. Please check the "With Data source validation" option. After this validation procedure will be executed before importing start.

If you made all correct then you will see in transaction grid the document with number 2 in the 2006 fiscal year.

Now we will make similar XML but with one difference – there will be the posting with links to accounts which is not presented in database.

The XML is following:

```
<?xml version="1.0" standalone="yes"?>
<NewDataSet>

  <Account>
    <code>1000.1</code>
    <name>Test assets account</name>
    <accTypeFID>1</accTypeFID>
    <currencyCode>CHF</currencyCode>
    <accAreaName>TestBilanz</accAreaName>
  </Account>
```

```
<Account>
  <code>2000.1</code>
  <name>Test liability account</name>
  <accTypeFID>2</accTypeFID>
  <currencyCode>CHF</currencyCode>
  <accAreaName>TestBilanz</accAreaName>
</Account>

<Transaction>
  <transactionTypeFID>2</transactionTypeFID>
  <docNum>3</docNum>
  <docDate>2006-10-24</docDate>
</Transaction>

<Posting>
  <docNum>3</docNum>
  <accountCode>1000.1</accountCode>
  <vatCode>UStn</vatCode>
  <vatAccountCode>2000.1</vatAccountCode>
  <amount>743.5000</amount>
  <fcAmount>743.4900</fcAmount>
  <exchangeRate>1.0000</exchangeRate>
  <vatAmount>56.5000</vatAmount>
  <vatFcAmount>56.5000</vatFcAmount>
  <vatPercent>7.6000</vatPercent>
  <vatQuote>100.0000</vatQuote>
  <text>Posting 1</text>
  <isDebit>false</isDebit>
  <isInclusive>true</isInclusive>
  <postingIndex>1</postingIndex>
</Posting>

<Posting>
  <docNum>3</docNum>
  <accountCode>3200</accountCode>
  <amount>800.0000</amount>
  <fcAmount>800.0000</fcAmount>
  <exchangeRate>1.0000</exchangeRate>
  <text>Posting 2</text>
  <isDebit>true</isDebit>
  <postingIndex>2</postingIndex>
</Posting>
</NewDataSet>
```

As you see the first posting linked to account with code “1000.1”, there is no such account in our test client, that why we define this **Account** instance in our source XML. The account with code “2000.1” was defined also, because of link in the first posting through the vatAccountCode (the real field which contain link value it a **vatAccountFID** which will be recognized during validation of vatAccountCode field). Each account should have a link to the currency we set **currencyCode** equal “CHF”, this currency exists in test client. Since accounts “1000.1” and has a type 1 (Assets) and account “2000.1” has a type 2 (Liabilities) we can put them into the same balance

account area. The **accAreaName** field of both accounts has same value – “TestBilanz”. There is no such account area in our test client, so it should be created.

Now as before we open Import window and select XML custom import, select XML source and check “With data source validation” box, and then starts importing.

After successful import new transaction with number 3 should appear in 2006 fiscal year (if you create client with another fiscal year dates range, then please change transaction date (**docDate** field) to the according value).

Now please enter to COA mode and have a look to the account areas. As you see the new one was created – “Test Bilanz”, go to this tab. At the beginning of the tree the new account items appeared with code “1000.1” and “1000.2”. This was happened because we defined new **Account** instances in the source XML document. It is possible to import new account by defining only few attributes of this entity and validation fields (links to entities). Accounts have much more properties, but they with default values and we can to do not define them in XML.

When account records was validating it was linked to Account Area. “TestBilanz” area was not exists in DB. That’s why new one was created. After account area was created, we can get ID of new record and make link in the account record. Really there is no physical link from account to account area. But during accounts validation new **COATreeView** items was created and then linked to account area through the **accAreaFID** field.

To insert new account the CoaTreeView item should be created, because all accounts presented in COA tree view, and hence has a link to CoaTreeView item. During validation was found that there are no appropriate tree items in existing COA, and new items were created. After this mew items should also be validated. Codes of new items are same as accounts code. It is possible to recognize in which account area new COA items should be placed, from the **accAreaName** attribute of the accounts we define in XML. Now COA items has an **accAreaName** attribute filled. The **accAreaName** attribute of **COATreeView** it is also validation field and therefore could be used for recognizing of **accAreaFID** field of **COATreeView** entity. As mentioned

there is no “TestBilanz” account area in the DB, that’s why new **AccountArea** instance was created. After validation of new **AccountArea** instance we can link COA item to it. After this validation of **COATreeView** was finished and new **Accounts** was linked to **COATreeView** instances. After inserting of new accounts they were used for linking to the posting of defined transaction.

Since we do not define **COATreeView** items they were inserted with default position of the COA tree – at the beginning.

7. Entities Validation Fields Description

In current chapter you can find the description of validation fields of all entities which has them.

The following columns are used in the description table:

- “Field Name” – name of the validation field, which is used in XML.
- “Field Description” – description
- “Validation Field” – field which could be validated with validation field.
- “Reference Field” – the field which value used for searching entity.
- “Default” – The default value of the validation field

7.1. Account

| Field Name | Description | Validation Field | Reference Field | Default |
|----------------|--|------------------|-------------------------------|--------------|
| currencyCode | Code of linked currency | currencyFID | [Currency].isoCode | empty string |
| vatCode | Code of linked VAT | vatFID | [VAT].code | empty string |
| costCenterCode | Code of linked cost center | costCenterFID | [CostCenter].code | empty string |
| accAreaName | Name of account area in which linked COA element presented | coaTreeViewFID | [COATreeViewAccountArea].name | empty string |
| accAreaFID | Link to Account area through the COA element | coaTreeViewFID | [COATreeView].accAreaFID | -1 |
| name | Name of linked COA element | coaTreeViewFID | [COATreeView].name | empty string |
| Code | Code of linked COA element | coaTreeViewFID | [COATreeView].code | empty string |

7.2. Bank

| Field Name | Description | Validation Field | Reference Field | Default |
|-------------|------------------------|------------------|-----------------|--------------|
| countryCode | Code of linked country | countryFID | [Country].code | empty string |

7.3. BankAccount

| Field Name | Description | Validation Field | Reference Field | Default |
|-------------|-------------------------|------------------|---------------------------|--------------|
| accountCode | Code of linked account | accountFID | [AccountCOATreeView].code | empty string |
| bankName | Name of linked currency | bankFID | [Bank].name | empty string |
| bankCode | Code of linked bank | bankFID | [Bank].code | empty string |

7.4. BudgetPeriod

| Field Name | Description | Validation Field | Reference Field | Default |
|----------------|---|------------------|---------------------------|--------------|
| accountCode | Code of linked account | accountFID | [AccountCOATreeView].code | empty string |
| fiscalYearName | Name of fiscal year in which budget period presents | budgetFID | [BudgetFiscalYear].name | empty string |
| budgetName | Name of budget | budgetFID | [Budget].name | empty string |

7.5. COATreeView

| Field Name | Description | Validation Field | Reference Field | Default |
|------------------|---|------------------|--------------------------------|--------------|
| coaName | Name of COA to which item linked | coaFID | [COA].name | empty string |
| isMaster | isMaster property of COA to which item linked | coaFID | [COA].isMaster | True |
| accAreaName | Name of account area in which element presents | accAreaFID | [AccountArea].name | empty string |
| balanceOrNominal | Whether element linked to balance or nominal account area | accAreaFID | [AccountArea].balanceOrNominal | False |
| userName | Name of linked user | userFID | [UserAccount].name | empty string |

7.6. Creditor

| Field Name | Description | Validation Field | Reference Field | Default |
|----------------------|--|------------------|------------------------------------|--------------|
| freePartyNum | Free number of party to which creditor is linked | partyFID | [Party].freePartyNum | empty string |
| partyNum | Number of party to which creditor is linked | partyFID | [Party].partyNum | -1 |
| contraAccountCode | Code of linked account | accountFID | [AccountCOATreeView].code | empty string |
| payTermCode | Code of linked payterm | payTermFID | [PayTerm].code | empty string |
| payMethodAccountNum | Account number of linked default paymethod | payMethodFID | [PayMethod].accountNum | empty string |
| payMethodBankCode | Bank code of linked default paymethod | payMethodFID | [PayMethodBank].code | empty string |
| payMethodAccountCode | Account code of linked default paymethod | payMethodFID | [PayMethodAccountCOATreeView].code | empty string |
| payMethodName | Name of linked default paymethod | payMethodFID | [PayMethod].name | empty string |
| userName | Name of linked user | userFID | [UserAccount].name | empty string |

7.7. Currency

| Field Name | Description | Validation Field | Reference Field | Default |
|-------------------|-------------------------------|------------------|---------------------------|--------------|
| profitAccountCode | Code of linked profit account | profitAccountFID | [AccountCOATreeView].code | empty string |
| lossAccountCode | Code of linked loss account | lossAccountFID | [AccountCOATreeView].code | empty string |

7.8. Debtor

| Field Name | Description | Validation Field | Reference Field | Default |
|----------------------|--|------------------|------------------------------------|--------------|
| freePartyNum | Free number of party to which creditor is linked | partyFID | [Party].freePartyNum | empty string |
| partyNum | Number of party to which creditor is linked | partyFID | [Party].partyNum | -1 |
| contraAccountCode | Code of linked account | accountFID | [AccountCOATreeView].code | empty string |
| payTermCode | Code of linked payterm | payTermFID | [PayTerm].code | empty string |
| payMethodBankCode | Bank code of linked default paymethod | payMethodFID | [PayMethodBank].code | empty string |
| payMethodAccountCode | Account code of linked default paymethod | payMethodFID | [PayMethodAccountCOATreeView].code | empty string |
| payMethodName | Name of linked default paymethod | payMethodFID | [PayMethod].name | empty string |
| userName | Name of linked user | userFID | [UserAccount].name | empty string |

7.9. Fiscal Year

| Field Name | Description | Validation Field | Reference Field | Default |
|-------------|-------------------------------|------------------|---------------------------|--------------|
| accountCode | Code of linked result account | resultAccountFID | [AccountCOATreeView].code | empty string |
| userName | Name of linked user | userFID | [UserAccount].name | empty string |

7.10. InterestRate

| Field Name | Description | Validation Field | Reference Field | Default |
|------------|---|------------------|-----------------|--------------|
| name | Name of interest to which interest rate is linked | interestFID | [Interest].name | empty string |

7.11. Invoice

| Field Name | Description | Validation Field | Reference Field | Default |
|-----------------------|---|------------------|------------------------------------|--------------|
| docNum | Number of transaction to which invoice linked | invoiceID | [Transaction].docNum | -1 |
| freePartyNum | Free Number of party to which invoice is linked | partyFID | [Party].freePartyNum | empty string |
| partyNum | Number of party to which invoice is linked | partyFID | [Party].partyNum | -1 |
| payTermCode | Code of linked payterm | payTermFID | [PayTerm].code | empty string |
| payMethodCurrencyUnit | Unit of currency of account of linked paymethod | payMethodFID | [PayMethodAccountCurrency].unit | 1 |
| payMethodFreePartyNum | FreePartyNum of linked paymethod | payMethodFID | [PayMethodParty].freePartyNum | empty string |
| payMethodAccountCode | Account Code of linked paymethod | payMethodFID | [PayMethodAccountCOATreeView].code | empty string |
| payMethodName | Name of linked paymethod | payMethodFID | [PayMethod].name | empty string |
| authorizerName | Name of authorizer | authorizerFID | [UserAccount].name | empty string |
| userName | Name of linked user | userFID | [UserAccount].name | empty string |

7.12. NumRange

| Field Name | Description | Validation Field | Reference Field | Default |
|----------------|---|------------------|-------------------|--------------|
| fiscalYearName | Name of fiscal year in which range presents | fiscalYearFID | [FiscalYear].name | empty string |

7.13. Payment

| Field Name | Description | Validation Field | Reference Field | Default |
|-----------------|------------------------------|------------------|----------------------------------|--------------|
| paymentNum | Number of linked transaction | paymentID | [Transaction].docNum | -1 |
| bankAccountName | Name of linked bank account | paymentID | [PaymentRunBankAccount].name | empty string |
| bankName | Name of linked bank | paymentID | [PaymentRunBankAccountBank].name | empty string |
| accountCode | Code of linked account | accountFID | [AccountCOATreeView].code | empty string |
| partyNum | Number of linked party | partyFID | [Party].partyNum | -1 |

7.14. PaymentRun

| Field Name | Description | Validation Field | Reference Field | Default |
|-----------------|------------------------------|------------------|------------------------|--------------|
| paymentNum | Number of linked transaction | paymentRunID | [Transaction].docNum | -1 |
| bankAccountName | Name of linked bank account | bankAccountFID | [BankAccount].name | empty string |
| bankName | Name of linked bank | bankAccountFID | [BankAccountBank].name | empty string |

7.15. PayMethod

| Field Name | Description | Validation Field | Reference Field | Default |
|-----------------|--|------------------|---------------------------|--------------|
| freePartyNum | Free number of party to which paymethod linked though the debtor or creditor | partyFID | [Party].freePartyNum | empty string |
| partyNum | Number of party to which paymethod linked though the debtor or creditor | partyFID | [Party].partyNum | -1 |
| accountCode | Code of linked account | accountFID | [AccountCOATreeView].code | empty string |
| bankCode | Code of linked bank | bankFID | [Bank].code | empty string |
| bankAccountName | Name of linked bank account | bankAccountFID | [BankAccount].name | empty string |

7.16. PayTermDetail

| Field Name | Description | Validation Field | Reference Field | Default |
|------------|---|------------------|-----------------|--------------|
| code | Code of payterm to which detail is linked | payTermFID | [PayTerm].code | empty string |

7.17. Posting

| Field Name | Description | Validation Field | Reference Field | Default |
|-------------------|-----------------------------------|------------------|-------------------------------|--------------|
| userName | Name of linked user | transactionFID | [TransactionUserAccount].name | empty string |
| docNum | Number of linked transaction | transactionFID | [Transaction].docNum | -1 |
| freeInvoiceNum | Free number of linked transaction | invoiceFID | [Invoice].freeInvoiceNum | empty string |
| freePartyNum | Free Number of linked party | invoiceFID | [InvoiceParty].freePartyNum | empty string |
| partyNum | Number of linked party | invoiceFID | [InvoiceParty].partyNum | -1 |
| invoiceNum | Number of linked invoice | invoiceFID | [Invoice].invoiceNum | -1 |
| accountCode | Code of linked account | accountFID | [AccountCOATreeView].code | empty string |
| realVatAccountFID | AccountFID of linked VAT | vatFID | [VAT].accountFID | -1 |
| vatCode | Code of linked VAT | vatFID | [VAT].code | empty string |
| vatAccountCode | Code of linked VAT account | vatAccountFID | [AccountCOATreeView].code | empty string |

7.18. Reminder

| Field Name | Description | Validation Field | Reference Field | Default |
|--------------|-------------------------|------------------|--------------------|--------------|
| partyNum | Number of linked party | partyFID | [Party].partyNum | -1 |
| currencyCode | Code of linked currency | currencyFID | [Currency].isoCode | empty string |
| userName | Name of linked user | userFID | [UserAccount].name | empty string |

7.19. Transaction

| Field Name | Description | Validation Field | Reference Field | Default |
|------------|---------------------|------------------|--------------------|--------------|
| userName | Name of linked user | userFID | [UserAccount].name | empty string |

7.20. VAT

| Field Name | Description | Validation Field | Reference Field | Default |
|-------------|------------------------|------------------|---------------------------|--------------|
| quote | VAT quote | vatID | [VATRate].quote | 100 |
| rate | VAT rate | vatID | [VATRate].rate | 0 |
| accountCode | Code of linked account | accountFID | [AccountCOATreeView].code | empty string |

7.21. VATRate

| Field Name | Description | Validation Field | Reference Field | Default |
|------------|---|------------------|-----------------|--------------|
| code | Code of the VAT to which rate is linked | vatFID | [VAT].code | empty string |