

Operation Manual

Export of Subsidiary GL Entries and GL Entries in UFX Format

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Way4 allows for exporting subsidiary GL entries and GL entries in the UFX format to the bank system.

Subsidiary GL entries and GL entries are exported by the "GL Transfers Export" pipe. It is recommended that the pipe be used instead of the subsidiary GL entry export pipe (RBS. Analytic Transfers Export) and the GL entry export pipe (RBS. Synthetic Transfers Export).

Note that the use of the new pipe is different from the use of the previously used GL entry pipe:

- Entries are no longer grouped into files by currency. They are only grouped by financial institution.
- FX entries can be merged in a single record in a file. Credit and debit currencies can now be different. This is regulated using the NO_FX_MERGE pipe parameter (the value of the NO_FX_MERGE pipe parameter is "N").
- Export of merged FX entries (the value of the NO_FX_MERGE pipe parameter is "N") is only supported when expanded subsidiary ledger accounting is used (when the value of the global parameter USE_ANALYTIC is "Y"). This mode requires a separate license from the Way4 vendor.
- Export of entries in UFX format is supported in basic subsidiary ledger accounting mode (when the value of the global parameter USE_ANALYTIC is "N"). In basic mode, merging of FX entries is not supported (the "N" value of the NO_FX_MERGE pipe parameter is not supported). An FX entry is exported as several entries. **The value of the NO_FX_MERGE parameter should not be set to "N" in basic mode - if it is, entries will not be exported.**
- A single entry merging mode is used. Previously, the MERGE_SIMILAR_TRANSF parameter was used to select a mode. The currently used mode corresponds to the MERGE_SIMILAR_TRANSF="SIMPLE" value. This means that entries of the same financial institution with the same *GL Trans Code*, date and numbers of credited and debited accounts are always merged now. Such entries may appear when the "Daily GL Transactions" procedure is executed several times before export and when the same GL number is used for several account templates.

1 Parameters of the "GL Transfers Export" Pipe

| Parameter | Values | Parameter description |
|------------------|---|---|
| MESSAGE_CLASS | A.TRANSFER S.TRANSFER R.TRANSFER SR.TRANSFER | Export mode: <ul style="list-style-type: none"> • subsidiary GL entries (A.TRANSFER) • GL entries (S.TRANSFER) • Subsidiary GL entries with consideration of transaction corrections through the Reversal Management module (R.TRANSFER) • GL entries including consideration of transaction corrections through the Reversal Management module (SR.TRANSFER) |
| OUTPUT_DIRECTORY | | Directory of outgoing files. The default value is @INTERCHANGE_PATH@WAY4_OUT It is recommended that the value not be changed. |
| SUB_DIR | | Subdirectory of outgoing files. By default, the parameter value is not set. This parameter can be used to configure file export with different menu items in different subdirectories. For example. Menu item1 OUTPUT_DIRECTORY=C:\work\files SUB_DIR=\filter1\ Menu item2 OUTPUT_DIRECTORY=C:\work\files SUB_DIR=\filter2\ |
| SENDER | Sender's code | Sender code, usually a branch code. Part of an outgoing file name (see File name format). |
| RECEIVER | Recipient's code | Recipient code. Part of an outgoing file name (see File name format). |
| LANGUAGE | Three-letter language code | Code of the language used to export a description of entries from the Message Dictionary. |

| Parameter | Values | Parameter description |
|----------------------|---|--|
| DATE_FROM | Date in the "YYYY-MM-DD HH:MM:SS" format | Date for which entries are exported (value of the "order_date" field of the GL_TRANSFER table). |
| HIDE_ACC_SELF_TRANSF | Y/N | If the parameter is set to "Y", entries with the same number of credited and debited accounts are ignored. The default parameter value is "N". |
| EXCLUDED_TRANS | First two characters of the transaction code (a list of values can be set, separated by commas) | A transaction has a code that is written to the GL_TRANS_CODE field of the GL_TRANSFER table. If the first two characters of the entry's code are present in the list, this entry is ignored (i.e. the first two characters from the GL_TRANS_CODE field are analysed). |
| INSIDE_TIMEZONE | Y/N | If the parameter is set to "Y", entries of financial institutions whose time zone is different from the time zone of the current financial institution are ignored. The current financial institution is defined by the "FI" pipe parameter. The INSIDE_TIMEZONE parameter remains for backward compatibility. It is recommended to configure export for a time zone using the "T" value of the FI_MODE pipe parameter. |
| PRINCIPALS_ONLY | Y/N | If the parameter is set to "Y", the system only exports entries for independent financial institutions (institutions that do not contain a link to another financial institution in the "posting_in" field of the record in the F_I table). |
| CREATE_EMPTY_FILES | Y/N | If the parameter is set to "Y", a file with an empty list of transactions that contains only a file header and a file trailer is created for each financial institution specified in the FILE_BREAK_LIST parameter and not used during export. |

| Parameter | Values | Parameter description |
|----------------------------|---|---|
| FILE_BREAK_LIST | List of branch codes of financial institutions: <CODE OF INSTITUTION1>;<CODE OF INSTITUTION2>; | List of financial institutions for which entries will presumably be exported. If the CREATE_EMPTY_FILES parameter is set to "Y", a file with an empty list of transactions that contains only a file header and a file trailer will be created for listed financial institutions for which no entries have yet been exported. |
| EXACT_NUMBERING | Y/N | If the parameter is set to "Y", outgoing files are numbered separately for subsidiary GL entries and GL entries and for different senders and recipients. Therefore, when EXACT_NUMBERING is set to "Y", two files with different combinations of parameters <entry type, sender, recipient> may have the same number since they are numbered separately. A file number is specified in its name (see File name format). |
| NUMBER_OF_RECORDS_PER_FILE | Number of records in a file (0 or a whole positive number) | The default value of the parameter is "0". In this case, entries are separated into files only according to financial institutions. When the value of this parameter is a whole positive number, entries will be separated into files according to the number of records, as well. |
| BANK_DOC_TYPE | Y/N | The default value is "N". When the value of this parameter is "Y", the bank document type is exported to the section Extra -> AddData for each entry. |
| XML_INDENTATION | Y/N | The parameter's default value is "Y". If the value of this parameter is "N", an outgoing XML file will not contain indentations, making it possible to slightly speed up the file generation process. |

| Parameter | Values | Parameter description |
|-----------------|--------------------------|--|
| XML_VALIDATION | Y/N | The parameter's default value is "Y". If the value of this parameter is "N", an outgoing XML file will not be checked for correspondence with the XSD schema, making it possible to slightly speed up the file generation process. |
| USE_CB_CODE | Y/N | The default value is "N". If the parameter value is "Y", the value of an outgoing file's <i>Sender</i> field will correspond to the value of the financial institution's <i>CB Code</i> field. |
| FLUSH_INTERVAL | A whole, positive number | The default value of the parameter is "100". This is a period, measured as the number of generated entry records after which generated XML is flushed into a file. |
| FILE_NAME_EXT | Arbitrary value | The value of this parameter is specified at the end of the file name. It is not necessary to set the FILE_NAME_EXT parameter to add the RECEIVER parameter value to a file name. |
| HIDE_BY_GL_TYPE | | When the value is "Y", the parameter makes it possible to export only entries with the "Yes" value of the <i>Show in pipe</i> field of the "GL Types" form. See the section "Configuring the "GL Types" Form" of the document "Way4 Accounting Schemes". Entries from GL Type with the "No" value of the <i>Show in pipe</i> field will not be exported. |

| Parameter | Values | Parameter description |
|-----------|--|---|
| FI_MODE | "A" "T" "F" | <p>Makes it possible to export entries for specific financial institutions or time zones. Possible values:</p> <p>"A" (default value) – export entries for all financial institutions.</p> <p>"T" – export entries for the current time zone (export entries for financial institutions in the current financial institution's time zone). Entries for financial institutions with a time zone that differs from the current financial institution's time zone are ignored. The current financial institution is defined by the value of the "FI" pipe parameter.</p> <p>"F" – export entries for a specific financial institution. The financial institution is defined using the "FI" pipe parameter.</p> |
| FI | <financial institution identifier (ID field's value of the F_I table)> | <p>The FI parameter is a technical parameter. It is used when the pipe is started manually through DB Manager (and is not used when Scheduler is used to start the pipe) if there is a job to export entries at different times, split by financial institutions. The parameter must be set if the value of the "FI_MODE" parameter is "T" or "F"; that is, when working in "Time Zones" mode.</p> <p>The parameter determines the current financial institution and is set by running the menu item "Time Zone Support → CBS. Outward Processing → Consolidated GL Entries Export" or "OpenWay → Time Zone Support → CBS. Outward Processing → Subsidiary GL Entries Export". The "Time Zones" feature is provided according to a separate agreement with OpenWay.</p> |

| Parameter | Values | Parameter description |
|---|---------------------------------------|--|
| Subsidiary GL entries export mode parameters | | |
| ANALYT_FILTER | Fragment of the sql condition "where" | <p>Filter for selecting entries:</p> <ul style="list-style-type: none"> • When the NO_FX_MERGE parameter value is "Y", filtering is executed from the GL_TRACE table. • When the NO_FX_MERGE parameter value is "N", filtering is executed from the ANALYTIC_TRANSFER view. <p>Aliases may be used. For example, when filtering according to the GL_TRACE table, the following aliases are possible:</p> <ul style="list-style-type: none"> • doc instead of DOC • m_trans instead of M_TRANSACTION • transf instead of gl_transfer • trc instead of GL_TRACE <p>When filtering according to the ANALYTIC_TRANSFER view, the alias trc is used instead of ANALYTIC_TRANSFER.</p> <p>When specifying field references, pay attention to the current value of the NO_FX_MERGE parameter and specify the fields of that table or view according to which filtering is executed.</p> |

| Parameter | Values | Parameter description |
|---------------------|--------------------|--|
| NO_FX_MERGE | Y/N | <p>By default, the parameter value is "Y". In this case, FX entries are not supported during export – a FX entry is exported as several entries executed using special FX accounts. Entries in this case are exported from the GL_TRACE table.</p> <p>When the value of this parameter is set to "N", FX entries are merged into one record. The "N" value can only be used in expanded Subsidiary Ledger accounting mode (when the value of the global parameter USE_ANALYTIC is "Y"). In this case, entries are exported from the GL_DOC table.</p> <p>If the value of this parameter is set to "N" in the basic Subsidiary Ledger accounting mode, entries will not be exported using this pipe (an empty file will be generated)..</p> |
| SHOW_LOCAL_AMOUNT | Y/N | <p>If the parameter is set to "Y", an amount in the local currency will be additionally exported.</p> <p>The default value of the parameter is "N".</p> |
| EXPORT_DOC_TAGS | Y/N/<list of tags> | <p>If the parameter value is equal to "Y" or to "All", document and macrotransaction tags will be exported (the value of the add_info field of the DOC table and the value of the mtr_details field of the M_TRANSACTION table). The default value of the parameter is "N".</p> <p>A list of tags that must be exported from the add_info and mtr_details fields can be specified as the value of this parameter. Tags in the list are comma-delimited.</p> |
| EXPORT_OPERATION_RN | Y/N | <p>When the value is "Y", the parameter makes it possible to export the Macrotransaction ID to the section Extra -> OperationRN.</p> <p>The default value is "N" (by default, the Macrotransaction ID is not exported).</p> |

| Parameter | Values | Parameter description |
|--|--------|---|
| CLOSE_GL | Y/N | <p>By default, when the "GL Transfers Export" pipe is started, the procedure is started for preparing GL entries for export (GL entries are taken from the posting process and closed). If this pipe is used, for both export of subsidiary GL entries and GL entries (export is executed sequentially), the procedure must be called once for closing GL entries. This is regulated by the CLOSE_GL parameter. If the value of the CLOSE_GL parameter is "N", when the pipe is started, GL entries will not be closed.</p> <p>The default value of the parameter is "Y".</p> |
| GL entry export mode parameters | | |
| NO_FX_MERGE | Y/N | <p>By default, the parameter value is "Y". In this case, FX entries are not supported during export – a FX entry is exported as several entries executed using special FX accounts. For the "Y" value, entries are exported from the GL_TRANSFER table.</p> <p>When the value of this parameter is set to "N", entries are exported from the SYNTHETIC_TRANSFER view, in which FX entries are merged, and entries for single credited and debited GL accounts from the GL_TRANSFER table</p> |

| Parameter | Values | Parameter description |
|-----------------|---------------------------------------|--|
| SYNTH_FILTER | Fragment of the sql condition "where" | <p>Filter for selecting entries:</p> <ul style="list-style-type: none"> When the NO_FX_MERGE parameter value is "Y", filtering is executed from the GL_TRANSFER table. When the NO_FX_MERGE parameter value is "N", filtering is executed from the SYNTHETIC_TRANSFER view. <p>Aliases can be used. For example, when filtering according to the GL_TRANSFER table, the following aliases can be used</p> <ul style="list-style-type: none"> transf instead of gl_transfer cr_tmpl instead of ACC_TEMPL dr_tmpl instead of ACC_TEMPL fi instead of F_I <p>When filtering according to the SYNTHETIC_TRANSFER view, the alias transf is used instead of SYNTHETIC_TRANSFER.</p> <p>When specifying field references, pay attention to the current value of the NO_FX_MERGE parameter and specify the fields of that table or view according to which filtering is executed.</p> |
| CLOSE_TRANSFERS | Y/N | <p>If this parameter value is "Y", GL entries exported earlier in the day will not be exported if the pipe is started again. The default value of the parameter is "N".</p> |

| Parameter | Values | Parameter description |
|-----------|--------|---|
| CLOSE_GL | Y/N | <p>By default, when the "GL Transfers Export" pipe is started, the procedure is started for preparing GL entries for export (GL entries are taken from the posting process and closed). If this pipe is used, for both export of subsidiary GL entries and GL entries (export is executed sequentially), the procedure must be called once for closing GL entries. This is regulated by the CLOSE_GL parameter. If the value of the CLOSE_GL parameter is "N", when the pipe is started, GL entries will not be closed.</p> <p>The default value of the parameter is "Y".</p> |

2 File Format (UFX Format of Subsidiary GL Entries and GL Entries)

Files are generated in the XML format. All aggregates and simple fields are XML elements. The top element must be named "AccountingTransactionFile".

The file format is described using a graphic representation of XSD schema.

Fig. 1 shows an example of this representation.

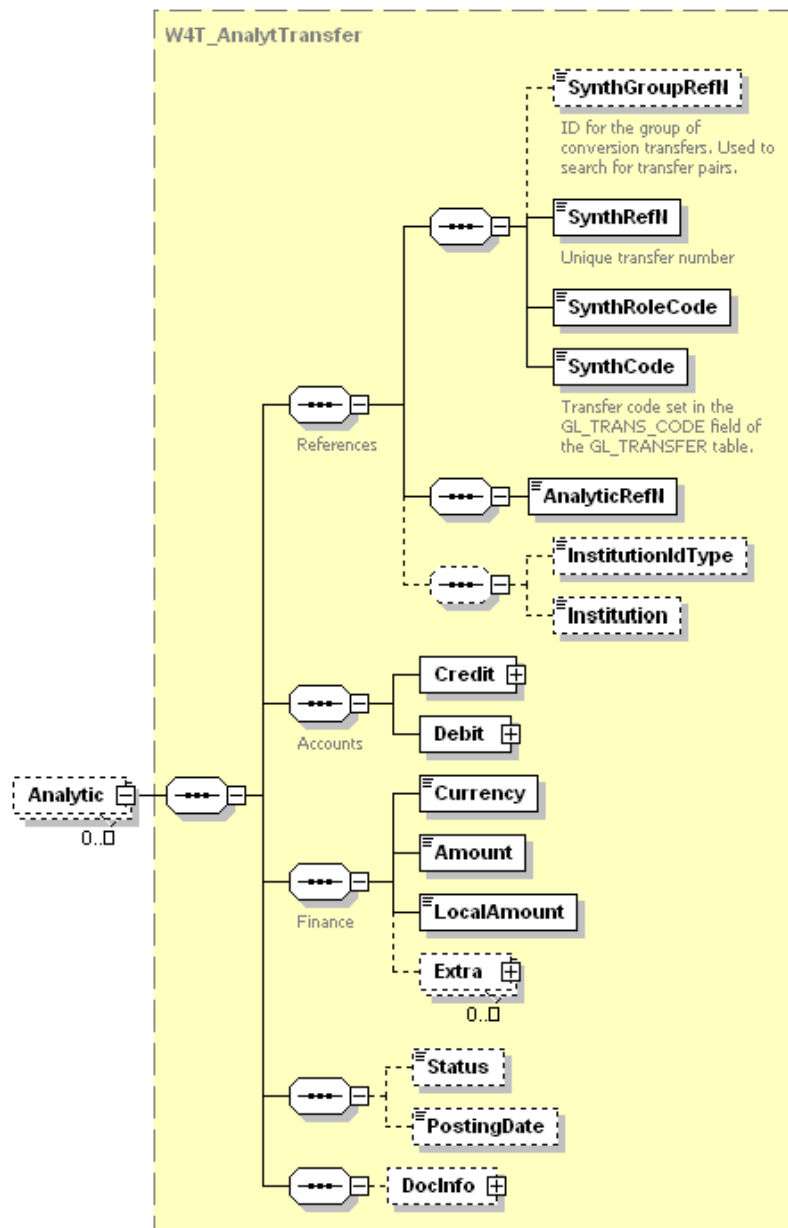
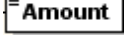
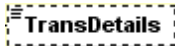
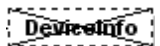




Fig. 1. Graphic representation of the file format

The following conventions are used in the graphic representation:

- Mandatory structure elements are shown as solid line boxes: .
- Optional elements are shown as dashed line boxes: .
- Elements reserved for future use are shown as crossed boxes: .
- The  symbol means that all the elements it connects must be included into the higher-level element in the same order they are shown in the schema.

The  symbol means that the higher-level element contains one of the elements connected with the use of this symbol.

Every element of the schema contains a hyperlink to its description.

Elements of the "Any" type contain an xml structure of an undefined format.

Symbols X...Y next to the symbol of an element mean that it may contain from X to Y subelements, where □ means that the number of subelements is unlimited.

File name format:

| # | Field | Format | Comments |
|----|--------------------|----------|--|
| 1. | File Name Prefix | | "OIC_ATransfers" – during subsidiary GL entry export (A.TRANSFER) "OIC_STransfers" – during GL entry export (S.TRANSFER) "OIC_SRTansfers" – during GL export with consideration of transaction corrections through the Reversal Management module (R.TRANSFER) |
| 2. | Delimiter | | "_" (underline character). |
| 3. | File Sender | | File sender code. |
| 4. | File Receiver | | File recipient code. |
| 5. | File Creation Date | yyyyMMdd | File generation date. |
| 6. | Delimiter | | "_" (underline character). |
| 7. | File Number | | Sequential number of the file unique during the day |
| 8. | Delimiter | | Delimiting character "." |
| 9. | File Extension | | "xml" |

File schema see in the xml_gl_schema.chm file