Operation Manual

UFX Interchange. Operation Manual

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Contents

Way4™ allows UFX (Universal Financial eXchange) documents to be imported and exported. The current system version supports import and export of financial and authorisation documents, including export of financial documents on online payments into third-party billing systems.

When working with this document, it is recommended to use the following resources from the OpenWay documentation series:

- "Documents"
- "Financial Institutions"
- "Standing Payment Orders"
- "Transaction Condition Classifiers".

The following notation can be used in the document:

- Field labels in screen forms are shown in *italics.*
- Key combinations are shown in angular brackets, for example, <Ctrl>+<F3>.
- Names of screen form buttons and tabs are shown in square brackets, for example, [Approve].
- Sequences for selecting user menu items or context menu items are shown using arrows as follows: "Issuing → Contracts Input & Update".
- Sequences for selecting system menu items are shown using arrows as follows: Database => Change password.
- Variables that differ for each local instance, such as directory and file names, as well as file paths are shown in angular brackets, as in <OWS_HOME>.

Warnings and information are marked as follows:

> ⚠ Warnings about potentially hazardous situations or actions.

> ⓘ Messages with information about important features, additional options, or the best use of certain system functions.

1 Documents UFX Format: Overview

The described document interchange technology is based on use of UFX format. For more information about the aggregates that are used, see the section "File Format (Documents UFX Format)".

1.1 Document Types

Way4 supports interchange of documents of various types. Document types are classified by values of the "DocFile/FileHeader/FileLabel" element:

- "PAYMENT" when importing payments
- "RESPONSE" when exporting response files
- "DOCUMENT" when importing/exporting financial documents
- "AUTH" when importing/exporting authorization documents
- "ORDER" when exporting standing payment orders
- "INVOICE" when importing applications to create invoices
- "ONLINE_PAYMENT" when exporting online payments
- "BALANCE" when importing documents to change contract balances

1.2 CBS Transactions Export

Way4 allows users to export card and merchant account transaction data.

> ⓘ Transaction data is exported by the "com.openwaygroup.pipe.ic.documents_export.jar" (IC Documents Export) pipe when the "MODE" parameter is set to "REPORT".

If reversal documents are found in the system for the same date as the original document, data is exported according to the "SKIP_REVERSES" pipe parameter. If this parameter is set to "Y" (Yes), data for the original and reversal document is not exported. If the parameter is set to "N" (No), or if the dates of the original and reversal documents are not the same, data is exported for both documents.

If adjustment documents are found in the system, data is exported according to pipe parameter "SKIP_REVERSES" and "MERGE_ADJUSTMENTS" and document generation dates, as shown in the table:

Conditions	Original and adjustment document dates are the same, and the "SKIP_REVERSES" parameter is set to "Y"	No	Yes

	"MERGE_ADJUSTMENTS" parameter value	N	Y	Y/N
Exported documents	Original	Yes	Yes	No
	Reversal	Yes	No	No
	Adjustment	Yes	No	No
	Partial reversal	No	Yes	No
	Quasi original	No	No	Yes

For example:

The original document for a transaction is for 100 USD and the adjustment is for 40 USD; that is, a transaction for 60 USD, not 100 USD, has been performed.

Depending on original and adjustment document dates and "SKIP_REVERSES" and "MERGE_ADJUSTMENTS" parameter values, three document export options are available:

- The original document, a reversal document, and an adjustment document for 60 USD
- The original document and a partial reversal document for 40 USD
- A quasi original document for 60 USD, that is, a transaction document that only differs from the original document by the transaction amount.

> (i) When SKIP_REVERSES=N, MERGE_ADJUSTMENTS=Y, and DETAIL_DOC=Y (see the section Parameters of the "IC Documents Export" Pipe), different correction documents are not totalled into one.

The table below shows how amounts are displayed in the fields of exported documents:

Field Document	R C	Trans Amount (TA)	Settl. Amount (SA)	Reconc. Amount (RA)	Account Amount (AA)	Fee Amount (FA)	Cust Fee Amount (CFA)
Original	P	Orig TA	Orig SA	Orig RA	Orig AA	Orig FA	Orig CFA
Reversal	R	Orig TA	Orig SA	Orig RA	-Orig AA	-Orig FA	-Orig CFA
Adjustment	P	New TA	New SA	New RA	New AA	New FA	New CFA

Field Document	R C	Trans Amount (TA)	Settl. Amount (SA)	Reconc. Amount (RA)	Account Amount (AA)	Fee Amount (FA)	Cust Fee Amount (CFA)
Partial reversal	J	Rev TA	Rev SA	Rev RA	Rev AA	Rev FA	Rev CFA
Quasi original	P	New TA	New SA	New RA	New AA	New FA	New CFA

The following notation is used in the table:

- "Orig" – original document amount
- "Rev" – reversal amount
- "New" – adjusted amount
- "-Orig" – original document amount with the opposite sign
- "RC" (Request Category) – document's request/advice category; contents of the *RequestCategory* field of the "Doc/TransType/TransCode" aggregate. The field can contain one of the following values:

- "P" (Advice) – advice, including chargeback and representments
- "R" (Reversal) – reversal advice
- "J"(Adjustment) – partial reversal advice

- "Trans. Amount" (TA) – transaction amount; contents of the *Amount* field of the "Doc/Transaction" aggregate
- "Settl. Amount" (SA) – settlement amount; contents of the *Amount* field of the "Doc/Billing" aggregate
- "Reconc. Amount" (RA) – reconciliation amount; contents of the *Amount* field of the "Doc/Reconciliation" aggregate
- "Account Amount" (AA) – amount posted to the account; contents of the *Amount* field of the "Doc/Transaction/Extra" aggregate when the *Type* field of the aggregate contains values "SrcTrn" or "TgtTrn"
- "Fee Amount" (FA) – fee amount; contents of the *Amount* field of the "Doc/Transaction/Extra" aggregate when the *Type* field of the aggregate contains values "SrcFee" or "TgtFee"
- "Custom Fee" (CFA) – additional fee amount; contents of the Amount field of the "Doc/Transaction/ Extra" aggregate when the *Type* field of the aggregate contains values "SrcAddFee" or "TgtAddFee"

1.3   List of Marked Fields

A marked field is a field for which a separate tag in UFX format is not defined. These fields are transmitted in special tags of certain aggregates.

The "Doc/DocRefSet" aggregate may contain the following marked fields in <Parm> tags:

Marked field name (in the <ParmCode> tag)	Marked field value (in the <Value> tag)
DRN	Internal document ID (during export)
OrigDRN	Identifier of the original document in a document chain (during export)
PrevDRN	Identifier of the previous document in a document chain (during export)
SummDRN	Identifier used to link financial documents (during export), e.g. when funds are transferred between accounts.
SRN	Source Registration Number
IRN	Issuer Reference Number
RRN	Retrieval Reference Number
ARN	Acquirer Reference Number
TRN	Document identifier assigned by the payment system
AuthCode	Authorisation Code

The <Parm> tag has the following format:

```
<Parm>
    <ParmType>Type of field being passed (optional tag)</ParmType>
    <ParmCode>Field name</ParmCode>
    <Value>Field value</Value>
</Parm>
```

The "Doc/Transaction(Billing,Reconciliation)/Extra" aggregate may contain the following marked fields in the <Type> and <AddData> tags:

Type of transmitted information (in the <Type> tag)	Value (in the <Parm> tags of the <AddData> aggregate)
AddInfo	Contents of the document's ADD_INFO field (see the example of the ADD_INFO aggregate below).
CustomAddInfo	Additional information about a document, returned by the function CUST_GET_DOC_ADD_DATA.
SrcFee	Fee charged to the source contract (source fee). During export, determined by the value of the FEE_TYPE export pipe parameter (see the section Parameters of the "IC Documents Export" Pipe).
TgtFee	Fee charged to the target contract (target fee). During export, determined by the value of the FEE_TYPE export pipe parameter.
SrcTrn	Posting amount in the source contract currency (source amount), that is, the value of the macrotransaction's S_AMOUNT field.
TgtTrn	Posting amount in the target contract currency (target amount), that is, the value of the macrotransaction's T_AMOUNT field.
Auth	Amount blocked as a result of the authorisation.
ReturnFee	Fee returned to the target contract after chargeback.
MiscFee	Miscellaneous fee charged to the target contract.
SrcAddFee	Additional fee charged to the source contract (custom fee). During exported, determined by the value of the CUSTOM_FEE_CODES parameter of the export pipe.
TgtAddFee	Additional fee charged to the target contract (custom fee). During exported, determined by the value of the CUSTOM_FEE_CODES parameter of the export pipe.

An example of the ADD_INFO aggregate:

```xml
<Extra>
    <Type>AddInfo</Type>
    <AddData>
        <Parm>
            <ParmCode>TAG_1</ParmCode>
            <Value>VAL_1</Value>
        </Parm>
        <Parm>
            <ParmCode>TAG_2</ParmCode>
            <Value>VAL_2</Value>
        </Parm>
        <Parm>
            <ParmCode>TAG_3</ParmCode>
            <Value>VAL_3</Value>
        </Parm>
    </AddData>
</Extra>
```

1.4 Addenda

XML addenda (additional document information) may be presented in any format, but must have their own root element in the "Doc/Addendums/Info" aggregate.

Addenda stored in the Way4 internal format are sent in files in the following format:

```xml
<Buffers>
    <SeqN></SeqN>
    <BufLength></BufLength>
    <Buf1></Buf1>
    <Buf2></Buf2>
    <Buf3></Buf3>
    <Buf4></Buf4>
    <Buf5></Buf5>
    <Buf6></Buf6>
    <Buf7></Buf7>
    <Buf8></Buf8>
    <Buf9></Buf9>
    <Buf10></Buf10>
    <Buf11></Buf11>
    <Buf12></Buf12>
</Buffers>
```

Note that if the ADDENDUM_DOC table buffer is empty, the corresponding field (<BufN>) is absent from the outgoing file.

Addendum types are listed in the table below:

Code	Value	Format	Note
AI / AD	Passenger Transport / Trip Leg	Way4	Information about transactions with railway companies, airlines and travel agencies.
CA	Car Rental	Way4	Information about car rental.
LG	Lodging	Way4	Information about lodging and associated expenses.
FL	Fleet Service	Way4	Information about purchase of petrol and associated goods at filling stations.
PH	Purchasing Header	Way4	Information about the main document in a group of related documents.
PD	Purchasing Detail	Way4	Information about detailing documents in a group of related documents.
CH	Chip	Way4	Data that is read from a plastic card's chip.
DT	Doc Tags (not actual now)	Way4	Information about document tags (not used).
GA / GX	Billing	Way4 / Way4 XML	Information about a transaction for payment of a service invoice.
IS	ISO Message	Way4 / Way4 XML	Message in ISO format.

1.5   Secondary Documents

Note that if the "LocalDt" field is filled in for an imported secondary document, the "ChainDtls/ OrigTransDate" field must also be filled in, and if the "TransType/TransCondition" field is filled in, the "TransType/OrigTransCondition" field must also be filled in.

1.6   Using Tags

UFX documents contain fields that are important for document processing and need to be imported, but do not have corresponding fields in the "DOC" table of the Way4 database.

The import pipe puts the contents of such fields into tags in the *ADD_INFO* field:

UFX element	Tag name
Doc/Destination/CBSCode	R_RBS_MEMBER_ID
Doc/Destination/Client/ClientInfo/ClientNumber	CLIENT_IDT
Doc/Destination/Client/ClientInfo/RegNumber	R_CLI_REG_NUM
Doc/Destination/Client/ClientInfo/ShortName	R_CLI_SHORT_NAME
Doc/Destination/Client/ClientInfo/FirstName	R_CLI_FIRST_NAME
Doc/Destination/Client/ClientInfo/LastName	R_CLI_LAST_NAME
Doc/Destination/Client/ClientInfo/MiddleName	R_CLI_MIDDLE_NAME
Doc/Destination/CBSNumber	R_REQ_RBS_NUMBER
Doc/Originator/CBSNumber	R_SRC_RBS_NUMBER
Doc/Originator/MemberId	OSRC_MEMBER
Doc/Originator/Product/Channel	OSRC_CHANNEL
FileHeader/OriginalFileHeader/FileLabel	R_FILE_LABEL
FileTrailer/LoadingStatus	R_FILE_LOADING_STATUS
DocBatch/BatchTrailer/LoadingStatus	R_BATCH_LOADING_STATUS
Doc/Status/RespCode	R_RESPONSE_CODE
Doc/Status/RespText	R_RESPONSE_TEXT
Doc/Status/RespAppId	R_RESPONSE_APP_ID

In the Way4 database, there are fields that must be exported but for which there are no corresponding fields in UFX documents.

The export pipe places the contents of such fields and tags specified in the *ADD_INFO* field of documents to the "Doc/Transaction/Extra" aggregate. The *Type* field of the aggregate will contain the "AddInfo" value.

Database fields shown in the "Doc/Transaction/Extra" aggregate:

Tag name	Database field
VALUE_DATE	DOC.POSTING_DATE+SERVICE_APPROVED.VALUE_DAYS

1.7   UFX Format Version

The "IC Documents Export" pipe generates files in the UFX format whose version is specified in the <FormatVersion> element. The element can have the following values:

- 2.1 – default version of the format
- 2.2 – if at least one of the following conditions is met:
    - the parameter MESSAGE_CLASS=ORDER
    - the parameter MODE=REPORT
- 2.3.34 – the parameter EXPORT_TAG_TYPE=Y;
- 2.3.70 – the parameter USE_TRANS_TYPE_IDT=Y;
- 2.3.86 – the parameter INVOICE_PARTY_PROCESS=Y.

2   Pipe Parameters

Documents are imported by the "com.openwaygroup.pipe.ic.documents_import.jar" (IC Documents Import) pipe. The pipe supports batch file import. During file import, a record corresponding to the imported file itself is generated in the database documents table. Records corresponding to imported documents or batches (if a batch file is imported) refer to the imported file's record. In batch import, records corresponding to imported documents refer to batch records.

Documents are exported by the "com.openwaygroup.pipe.ic.documents_export.jar" (IC Documents Export) pipe. Batch file export is not supported.

A deferred response file can be generated according to results of document import. Document import reports and document processing error data are exported by the "IC Documents Export" pipe with the RESPONSE_MODE=Y parameter (see the section Parameters of the "IC Documents Export" Pipe).. Batch deferred response file export is supported in this mode.

2.1   Parameters of the "IC Documents Export" Pipe

⚠ If the specification provides two parameters with the same name, the only difference being that one of them has the prefix ONL, the prefixed parameter is used when exporting online payments.

Parameter	Values	Parameter description
ACCEPTED_POSTING_STATUSES	Status codes separated by the "|" character <status>|<status>...	List of *Posting Status* statuses indicating successful document processing. Used when the RESPONSE_MODE parameter value is "Y". The default value is "P|C" ("Posted" and "Closed", see the section "Document Parameters" in the document "Documents").

Parameter	Values	Parameter description
ADD_SORT_ORDER	Field names joined by the "||" character	Additional condition for sorting documents in a file. The default parameter value is "doc.id". ⚠ It is strongly recommended to use "doc.id" as the first field in the parameter. For example: `ADD_SORT_ORDER=lpad(doc.ID, 18,'0')||lpad(mtr.ID,18,'0');` or `ADD_SORT_ORDER=lpad(doc.ID, 18,'0')||mtr.request_cat;`
ADDENDUM_TYPES*	'\<type>','\<type>', ...	Addendum types (see the section Addenda). Default value - in MODE=H2H: `'CH','GA','GX','MX'` - in other modes: `'GA','GX','MX'`
ADDENDUM_FILTER*	Clause fragment	`WHERE` clause fragment added to the `SELECT` statement to select addenda, e.g. by status.
APPLY_SIGN_TO_EXTRA_AMOUNTS	Y/N	When the parameter's value is "Y", a sign according to the transaction's direction will be added to the amounts that are specified in the "SrcTrn" and "TgtTrn" fields (see the section "List of Marked Fields"). The parameter's default value is "N". In MODE=REPORT mode, the value of the parameter is treated as "Y".

Parameter	Values	Parameter description
BASE_CH_JOIN	Clause fragment	`WHERE` clause fragment added to the `SELECT` statement to select authorisation records from the CREDIT_HISTORY table. This parameter is used in EXPORT_CH_DATA=Y mode. The parameter's default value is "`left outer join credit_history CHI on chi.DOC_ID = doc.ID and chi.acnt_contract_oid = tcn.id and chi.credit_status='A'`". When this value is set, data about authorisations with the "Active" status will be exported, i.e. about authorisations for which a financial document has not yet been found or processed.
CASH_CARD_MAX	card number	Card number that is the upper limit of a card number range. If a card number is within this range, a payment is considered a cash payment. This parameter is used to export online payments.
CASH_CARD_MIN	card number	Card number that is the lower limit of a card number range. If a card number is within this range, a payment is considered a cash payment. This parameter is used to export online payments.
CBS_NUMBER_FROM_MAIN	Y/N	When the parameter is set to "Y", the identifier of the main contract in the banking system (value of the contract's *RBS Number* field) will be exported to the CBSNumber field of the "Doc/Originator" or "Doc/Destination" aggregate. The parameter should be specified when MODE is set to "REPORT". The default parameter value is "N".
CH_FIELD_TYPE	Field names joined by the "||" character SQL query	Determines which code should be used for blocked amounts. The code will be exported in the "SubType" field of the "Doc/Reconciliation/Extra" aggregate. The default value is "credit_history.CREDIT_TYPE". This parameter should be used when the EXPORT_CH_DATA parameter is set to "Y".

Parameter	Values	Parameter description
CH_FILTER	Clause fragment	WHERE clause fragment added to the SELECT statement for selecting CREDIT_HISTORY table records that comprise a blocked amount. This parameter should be used if the value of EXPORT_CH_DATA is "Y" or if the MODE parameter's value is "REPORT". The default value when MODE=REPORT is "credit_status = 'A' and credit_type = 'P'".
CHANGE_CURR	<currency code><currency code>	Used to convert a numeric currency code in exported documents. The parameter's length is six characters (two three-digit numeric currency codes). The code that is being replaced is specified first. For example, when the code "810" must be replaced with "643", specify the value "810643".
CHANGE_OUTWARD_STATUS	Y/N	When this parameter is set to "Y", the "To be sent" document outward status will be changed to "Sent". ⚠ Use the "Y" value only if the Outward Status = "To be sent" select condition is used in the FILTER pipe parameter. The default value is "N".
CHANGE_SERVICE_STATUS	Y/N	Parameter determining whether the service status in the ADD_SERVICE table must be changed after export or not. The parameter's default value is "Y". This parameter is used to export online payments.
COMMIT_INTERVAL*	Numeric	Number of applications that will be processed before executing the "commit" SQL statement. The default value is "1000".

Parameter	Values	Parameter description
CONV_FEE_COLLECTION_CODE	Y/N	When the value of the parameter is set to "Y", for "Fee Collection" or "Funds Disbursement" documents, the fourth character of the message code will be replaced with "-". The parameter's default value is "N". It is recommended to specify the "Y" value in Host-to-Host mode.
CREATE_EMPTY_FILES	Y/N	Parameter determining whether empty files will be created if no data has been exported for certain groups. The parameter is only used when the GROUP_LIST parameter is specified. The parameter's default value is "N" (that is, empty files are not created).
CREATE_FIN_DOC	Y/N	Parameter determining whether it is necessary to create a financial document that totals payments included in the file. If the parameter value is "Y", the CHANGE_OUTWARD_STATUS parameter must be set to "Y". The parameter's default value is "N". This parameter is used to export online payments.
CREATE_ORIGINAL_DOC*	Y/N	When this parameter is set to "Y", exported messages will also be written to the ORIGINAL_DOC table. FileHeader information is always written to this table. The parameter's default value is "N".
CUSTOM_FEE_CODES	'<code1>', '<code2>',…	List of custom fee codes taken into consideration when values for the fields SrcAddFee and TgtAddFee of the "Doc/ Billing/Extra" aggregate are defined. The parameter should be specified when MODE is set to "REPORT".

Parameter	Values	Parameter description
DEFAULT_AID		Default value of the "Originator/InstInfo/Institution" field of exported file records. This value is used if addendum field 32 is absent. This parameter is used to export online payments.
DESTINATION_MEMBER_ID	Field names joined by the "||" character Constant	The "MemberId" value obtained using this parameter is used to fill in the "Destination/MemberId" element for On Us transactions. The default value is "doc.REC_MEMBER_ID".

DETAIL_DOC	Y/N	When the value of this parameter is "Y", a financial document is exported with a list of documents that are linked with the main document by the "doc.DOC__SUMM__ID" field, in the form of a batch:
		
		`<DocBatch>`
		`    <BatchHeader>Financial document</BatchHeader>`
		`    <DocList>List of linked documents</DocList>`
		`    ...`
		`</DocBatch>`
		
		The parameter's default value is "N".
		
		⚠ This parameter may only be used or changed with the approval of OpenWay representatives.

Parameter	Values	Parameter description
DETAIL_ORDER	Y/N	When the value of this parameter is "Y", a payment order for merchant reimbursement is exported, with details per transaction, in the form of a batch:

```
<DocBatch>
    <BatchHeader>Payment order</
BatchHeader>
    <DocList>List of financial
documents for retail transactions</
DocList>
    ...
</DocBatch>
```

This parameter is only used:

- when the MESSAGE_CLASS parameter's value is "ORDER"
- for merchant contracts with a Main/Sub hierarchy.

The default value is "N".

Parameter	Values	Parameter description
DETAILED_TRANS_CODE*	Y/N	When this parameter's value is set to "Y", the "Doc/TransType/TransCode" aggregate will contain the "FinCategory", "RequestCategory", "ServiceClass", and "TransTypeCode" elements, as well as the "TransTypeIDT" element if the parameter USE_TRANS_TYPE_IDT=Y.

Otherwise, the "Doc/TransType/TransCode" aggregate will only contain the "MsgCode" element.

In the mode for communicating with affiliates (MODE=H2H), use the "N" value.

The default value is "N".

Parameter	Values	Parameter description
DFLT_SENDER_FOR_RESPONSE*		Default value of the "Sender" field in the "FileHeader" aggregate. Use this parameter if the "Receiver" field is absent from the incoming file header.

Used when the RESPONSE_MODE parameter value is "Y".

Parameter	Values	Parameter description
DOC_SOURCE_HINT or ONLDOC_SOURCE_HINT	SELECT statement parameter	Hint added to a SELECT statement. This parameter is only used when working with the Oracle DBMS. Its use must be approved by OpenWay specialists.
DRN_NEW_FORMAT	Y/N	When the parameter is set to"Y", the marked field "DRN" (see the section "List of Marked Fields") will be generated as "<doc.ID>-<m_transaction.ID>". Otherwise, the marked field "DRN" will be generated as "<doc.ID>", and for macrotransactions without a document, this field will be generated as "<m_transaction.ID>". The default value is "N".
EMPTY_RESPONSE*	Y/N	When the parameter is set to "Y", an empty response file (contains the "FileHeader" and "FileTrailer" elements only) is exported using the pipe. Used when the RESPONSE_MODE parameter value is "Y". The default value is "N".
EXACT_NUMBERING	Y/N	If this parameter's value is "Y", files are numbered within the combination of file type (see the MESSAGE_CLASS parameter), sender and receiver. The default value is "N".

Parameter	Values	Parameter description
EXCLUDE_FEE_CODES	,FEECODE$_1$,FEECODE$_2$,...,FEECODE$_N$, FEECODE$_i$ can be an empty string (exclude fee_code = null). For example: ,A,B,, means exclude fees meeting the condition: fee_code is equal to 'A','B' or has an empty value (null)	Codes of fees excluded from an exported file. Used when GET_FEE_FROM_GL=Y/N, FEE_TYPE=FULL/BYTYPE..
EXCLUDE_TAGS	Tag names separated by commas: <TagName1>,<TagName2>...	Tags from the document's "ADD_INFO" field that are specified in the list are not exported.
EXPORT_ADDENDUMS*	Y/N	When this parameter is set to "Y", document addenda from the ADDENDUM_DOC table will be exported. The default value is "N".
EXPORT_ALL_ORDERS	Y/N	When the parameter's value is "Y", a document will be exported even if a standing payment order was not found in the Events log (USAGE_ACTION table). Used when the MESSAGE_CLASS parameter's value is "ORDER". The default value is "N".

Parameter	Values	Parameter description
EXPORT_AUTH_SRN	Y/N	When the parameter's value is "Y", the "SRN" element in the "DocRefSet" aggregate is filled in with the value of the "AUTH_SRN" tag from the document's "ADD_INFO" field. If EXPORT_AUTH_SRN=N or the "AUTH_SRN" tag is not set, the "SRN" element is filled in with the value from the document's "SOURCE_REG_NUM" field. The default value is "N".
EXPORT_CH_DATA	Y/N	When the parameter is set to "Y", blocked amounts will be exported from the CREDIT_HISTORY table to the "Amount" field of the "Doc/Reconciliation/Extra" aggregate. The aggregate type will be set to "Auth". The default value is "N". The parameter is used during export of authorisation documents. In MODE=H2H mode (interface with affiliates), the value of the parameter is considered to be "N". When MODE=REPORT (export transaction data), data from the CREDIT_HISTORY table is exported regardless of the EXPORT_CH_DATA parameter's value.
EXPORT_CUST_ADD_INFO	Y/N	When the parameter's value is "Y", a document will be exported together with Custom Add Info, put into the "Doc/Transaction/Extra" element. The default value is "N".

Parameter	Values	Parameter description
EXPORT_MESSAGES*	Y/N	If the parameter is set to "Y" and the RETURN_CODE field of a document contains a non-null value, messages generated in table PROCESS_MESS during document processing will be exported to the RespText element of the Status aggregate. Messages are exported in the order of their registration in the database. The default value is "N". In RESPONSE_MODE=Y mode, it is recommended to use the "Y" value.
EXPORT_MTR_DATA	Y/N	When this parameter is set to "N", data will not be exported from the M_TRANSACTION table and the tables linked to it. This parameter is used to export documents without macrotransactions to improve system performance. The parameter's default value is "Y".
EXPORT_PURE_MTR	Y/N	When the parameter is set to "Y", macrotransactions that do not have links to a document will be exported. Used when EXPORT_MTR_DATA=Y. The parameter's default value is "N".
EXPORT_TAG_TYPE	Y/N	When the parameter is set to "Y", the "ParmType" element of the "Parm" aggregate will contain the following values: • "Flag" – for tags from the document's "ADD_INFO" field that do not contain values ("<TagName>;" tag types). • "Tag" – for tags from the document's "ADD_INFO" field ("<TagName>=<TagValue>;" tag types). The parameter's default value is "N".

Parameter	Values	Parameter description
FEE_TYPE	DOC, MTR, FULL, BYTYPE	This parameter specifies the data source for filling in the SrcFee and TgtFee fields: • "DOC" – DOC table. • "MTR" – M_TRANSACTION table. • "FULL" – ENTRY table (for GET_FEE_FROM_GL=N) or GL_TRACE table (for GET_FEE_FROM_GL=Y). • "BYTYPE" – GL_TRACE table: fees will be exported grouped by the values of the ENTRY_ROLE field. ⓘ The "BYTYPE" value is only used when the value of the GET_FEE_FROM_GL parameter is "Y". The default value is "MTR".
FETCH_SIZE		The parameter affects the export procedure's performance, determining in which portions the JDBC driver extracts records from the database. Default value "300".
FILE_CODING*	Acceptable in XML	File encoding. The default value is UTF-8 (UNICODE v2).
FILE_INFO_FILTER*	Clause fragment	WHERE clause fragment added, if necessary, to a SELECT statement to select imported files by FILE_INFO during response generation. Used when the RESPONSE_MODE parameter value is "Y".
FILE_NAME_EXT or ONL_FILE_NAME_EXT	Field names joined by the "||" character Constant	Value used to add information to file names (see the outgoing file name format). Use this parameter if grouping of records (see the parameters GROUP_FILE_BY, ONL_GROUP_FILE_BY) does not consider their sender/ recipient.

Parameter	Values	Parameter description
FILE_RECEIVER	Field names joined by the "||" character Constant	File receiver ID to be used in the file header and file name. The default value is "doc.TARGET_MEMBER_ID".
FILE_SENDER	Field names joined by the "||" character Constant	File sender ID to be used in the file header and file name. The default value is "doc.SEND_MEMBER_ID".
FILTER orONL_FILTER	Clause fragment	WHERE clause fragment added to a SELECT statement to select documents to be exported. The following aliases may be used for documents not related to online payments: DOC, MTR (M_TRANSACTION), CHI (credit_history); TCN,SCN (target and source acnt_contract); TFI,SFI (target and source f_i). The following aliases may be used for online payments to specify to what tables a field belongs: • DOC– for the DOC table • AD– for the ADDENDUM_DOC table • ST– for the ADD_SERVICE_TYPE table • SR– for the ADD_SERVICE table
FIN_INST_ID	Constant	Only records for the financial institution with this identifier are exported.

Parameter	Values	Parameter description
FORMATTED_AMOUNT	Y/N	When the parameter's value is "Y", every amount field in the exported document is formatted according to the number of decimal places in the amount, which is set in the *Exponent* field for the amount's currency (see the section "Currency Table" in the document"Currency Conversion"): • If the number of decimal places set for the currency is greater than the number of decimal places in the amount, then the fractional part is padded with zeros on the right to the required length. • otherwise the fractional part of the amount is rounded up to the required length. The parameter's default value is "N".
GET_FEE_FROM_GL	Y/N	When the value of this parameter is "Y", fees (the SrcFee and TgtFee fields) will be exported from the GL_TRACE table. The default value is "N".
GL_FEE_FILTER	Clause fragment	WHERE clause fragment added to a SELECT statement to filter fees. Used when GET_FEE_FROM_GL=Y, FEE_TYPE=BYTYPE/FULL. ⚠ Must not be used when MODE=REPORT, MERGE_ADJUSTMENTS=Y. In this case, use INCLUDE_FEE_CODES and EXCLUDE_FEE_CODES.

Parameter	Values	Parameter description
GROUP_FILE_BY or ONL_GROUP_FILE_BY	Field names joined by the "||" character	Parameter used to group exported records into files. Expression (field or concatenation of fields) that determines the rule for grouping payments in a file. Parameter values must not contain characters not allowed in file names. Concatenation of fields is represented with the "||" character (two vertical lines). Examples of the parameter values used for online payments export: "st.CODE"; "st.CODE||d.SOURCE_NUMBER"; "st.CODE||d.TRANS_CURR".

Parameter	Values	Parameter description
GROUP_LIST GROUP_LIST_<TZ>	Format: <GF>:<Sender>,<Receiver>,<subDir>,<fnExt>;...	List of allowed grouping values for creating empty files. Format fields: <GF> – result of calculating the parameter GROUP_FILE_BY or ONL_GROUP_FILE_BY. <Sender> – value of the "Sender" field (in the file header and name) for the specified <GF>. If not specified, value "Empty" is used by default. <Receiver> – value of the "Receiver" field (in the file header and name) for the specified <GF>. <subDir> – subdirectory for placing the file for the specified <GF> (similar to the parameters SUB_DIR and ONL_SUB_DIR). <fnExt> – file name extension for the specified <GF> (similar to the parameters FILE_NAME_EXT and ONL_FILE_NAME_EXT). If the INSIDE_TIMEZONE parameter's value is "Y", the GROUP_LIST_<TZ> parameter will be used instead of GROUP_LIST, where <TZ> is the value for the current financial institution's time zone (see the description of the *Time Zone* field in the section "Changing Basic FI Configurations" of the document "Financial Institutions") ⚠️ Note that empty files are created at the end of pipe operation. If the parameter is specified incorrectly, such files may be not created or created partially. In this case, no additional messages are generated, and it is assumed that the pipe operation has ended normally.

Parameter	Values	Parameter description
INCLUDE_FEE_CODES	,FEECODE$_1$,FEECODE$_2$,...,FEECODE$_N$, FEECODE$_i$ can be an empty string (include fee_code = null). For example: ,A,B,, means include fees meeting the condition: fee_code is equal to 'A','B' or has an empty value (null)	Fee codes included in an exported file. Used when GET_FEE_FROM_GL=Y/N, FEE_TYPE=FULL/BYTYPE..
INCREMENTAL_EXPORT	Y/N	When this parameter is set to "Y", only documents (within a specified select condition) not exported by a specified pipe will be exported. This value is used when documents are selected by a value other than Outward Status. The default value is "N". Note that the value INCREMENTAL_EXPORT=Y is incompatible with the value SKIP_REVERSES=Y and/or MERGE_ADJUSTMENTS=Y. If parameter values are incompatible, an error message will be displayed when the pipe is started.
INSIDE_TIMEZONE	Y/N	When the parameter is set to "Y", documents are only exported for financial institutions from the same time zone as the current financial institution. The parameter should be specified when MODE is set to "REPORT". The parameter's default value is "N".

Parameter	Values	Parameter description
INVOICE_PARTY_FILTER	Clause fragment	WHERE clause fragment added to a SELECT statement to filter data in the INVOICE_PARTY table. This parameter is used when the value of the INVOICE_PARTY_PROCESS parameter is "Y".
INVOICE_PARTY_PROCESS	Y/N	When the parameter is set to "Y", data from the INVOICE_PARTY table will be exported. The parameter's default value is "N".
LINE_ITEM_FILTER	Clause fragment	WHERE clause fragment added to a SELECT statement to export an itemized document. This parameter is used when the parameter's value is "Y". DETAIL_DOC. For example: ```mtr.entry_type in ('B', 'T') and (mtr.request_cat!='R' or doc.request_category='R')```
MARK_BAD_DOCS	Y/N	The parameter is used when exporting standing payment orders (see the document "Standing Payment Orders"). When the parameter is set to "Y" if a document is not exported, its *(Outward Status)* will be "Suspended". The default value is "N".

Parameter	Values	Parameter description
MERGE_ADJUSTMENTS	Y/N	Determines how adjustment documents are exported: "Y" – two transactions are exported: for the original amount and for the adjustment amount. "N" – three transactions are exported: for the original amount, for the original amount reversal, and for a new amount (see the section "Export of Transaction Data"). The parameter should be specified when MODE is set to "REPORT". The default parameter value is "N".
MESSAGE_CLASS	Uppercase Latin letters	Type of documents in the file. The parameter's possible values are listed in the section "Document Types" The default value is "DOCUMENT". When RESPONSE_MODE is "Y", the MESSAGE_CLASS parameter's value is "RESPONSE" (not recommended to set this value manually). ⓘ This parameter may only be used or changed with the approval of OpenWay representatives.

Parameter	Values	Parameter description

MESSAGE_CODE	SQL query
	
	Field names joined by the "||" character
	
	Constant
		This parameter's value is used to populate the element "Doc/TransType/TransCode/MsgCode".
		
		Sample SQL query:
		
		``sql
		(select min(code)
		 from message_type
		 where TRANS_TYPE__OID =
		doc.trans_type and
		        CHANNEL = 'm' and
		        REQUEST_CATEGORY =
		doc.request_category and
		        IS_AUTHORIZATION =
		doc.is_authorization and
		        AMND_STATE = 'A')
		``
		
		The default value is "doc.TARGET_CODE".

MESSAGE_FILTER*	Clause fragment	WHERE clause fragment added to a SELECT statement to select messages exported for a document from the PROCESS_MESS table when the value of the EXPORT_MESSAGES parameter is "Y". Default value "MESSAGE_TYPE in ('E','W')".
MODE		When the value of this parameter is "H2H", the pipe operates in Host-to-Host mode (interface with affiliates). The mode is used to ensure exchange of financial documents between banks directly without an intermediate party. When the "REPORT" value is used, the pipe operates in card and merchant account data export mode.
MTR_FILTER	Clause fragment	WHERE clause fragment added to a SELECT statement to filter data in the M_TRANSACTION table.
NOT_READY_DOCS_FILTER*	Clause fragment	Filtering condition for unprocessed documents when generating a response file. Used when the RESPONSE_MODE parameter value is "Y". The default value is "d.POSTING_STATUS='W' or d.POSTING_STATUS is null".

Parameter	Values	Parameter description
NUM_DOCS_PER_FILE	Numeric	Maximum number of documents in a file.
ON_CLOSED_DAY	Y/N	It is recommended that this parameter be used in time zone mode. When the parameter is set to "Y", documents are only exported if they are processed during a closed banking day. The parameter should be specified when MODE is set to "REPORT". The parameter's default value is "N".
ONL_SOURCE_MSG_CODE		Sender message code. Encoding is set in the "Full → Configuration Setup → Transaction Types → Transactions – All → [Msg Types]" dictionary. This parameter must be used if CREATE_FIN_DOC=Y. The parameter is used to export online payments.
ONL_SOURCE_NUMBER		Source contract number for the final financial document. This parameter must be used if CREATE_FIN_DOC=Y. The parameter is used to export online payments.
ONL_TARGET_NUMBER		Target contract number for the final financial document. This parameter must be used if CREATE_FIN_DOC=Y. The parameter is used to export online payments.
ORIGINATOR_MEMBER_ID	Field names joined by the "||" character Constant	Used to populate the "Originator/MemberId" element when exporting On Us transactions. The default value is "doc.SEND_MEMBER_ID".
OUTPUT_DIRECTORY*		Directory for outgoing files. @INTERCHANGE_PATH@/WAY4_OUT – for exported documents files @INTERCHANGE_PATH@/WAY4_RESP – for response files It is not recommended to change these values.

Parameter	Values	Parameter description
OUTWARD_WO_CHIP	Y/N	If this parameter's value is "Y", documents whose *Condition Details* field indicates use of a chip (TRANS_COND_ATTR) will be exported even if there is no "CH" addendum (see the section Addenda).. Otherwise, these documents will not be exported and will get the *(Outward Status)* "Suspended". Used when MODE is "H2H". The parametersMARK_BAD_DOCS, CHANGE_OUTWARD_STATUS and EXPORT_ADDENDUMS do not affect this parameter. The parameter's default value is "N".
PAN_FOR_TOKEN_ONUS	Y/N	If this parameter's value is "Y", when exporting information about On-Us transactions, the card number (PAN) will be exported in the ContractNumber element, not the token number with PayPass (MasterCard) or PayWave (Visa) technology. The parameter's default value is "N".
PAN_MASK	<template>	Card number mask template in <N1><S><N2> format, where N1 is the number of digits shown at the beginning of a number, N2 is the number of digits shown at the end of a number, and S is the character replacing the remaining digits. Example: template "1*4" will display card numbers in the following form: 9***********9999, where 9 is the corresponding card number digit. This parameter is used to export online payments.
PER_DAY_NUMBERING	Y/N	When this parameter is set to "Y", files being exported will be numbered by the counter with consideration of the current date; when this parameter is set to "N", continuous numbering will be used. The parameter's default value is "Y".

Parameter	Values	Parameter description
RAW_ADD_INFO*	Y/N	When this parameter's value is "Y", the content of a document's "ADD_INFO" field will be exported without formatting. Otherwise, it will be exported as an xml parameter array (tag-value). It is recommended that the default parameter ("N") be used.
RESPONSE_MODE*	Y/N	When the parameter is set to "Y", the pipe operates in response export mode. The parameter's default value is "N".
SERVICE_TYPES	'<code1>', '<code2>'…	List of codes for payments being exported. Codes from the "Additional Online Services" dictionary (Full → Configuration Setup → Merchant Device Setup → Additional Online Services) are used. This parameter is used to export online payments.
SKIP_DOCUMENTS	<Y/N><Y/N><Y/N>	Determines types of exported documents. First character: when "Y" is specified, documents for which entries have not been generated will not be exported. Second character: when "Y" is specified, transactions processed through dispute accounts will not be exported. Third character: when "Y" is specified, adjustment documents for which no original document has been found will not be exported. The parameter should be specified when MODE is set to "REPORT". The parameter's default value is "NNY".

Parameter	Values	Parameter description
SKIP_ERRORS	Y/N	When this parameter is set to "Y", errors caused by specific exported documents do not interrupt the pipe's operation. If an error occurs, invalid documents are skipped and other documents continue to export. Used when the MODE parameter value is "REPORT". The parameter's default value is "N".
SKIP_REVERSES	Y/N	When this parameter is set to "Y", reversed documents will be filtered during export: an original document and a reversal document will not be exported if they are registered on the same date. When MODE=REPORT, the default value of the parameter is "Y"; when MODE=H2H, the parameter is not supported.
SOURCE_CHANNEL	Field name Constant	Used to specify the UFX document sender's channel. The default value is "doc.SOURCE_CHANNEL". ⓘ To substitute a value, use the DECODE PL/SQL function.
SUB_DIR or ONL_SUB_DIR	Field names joined by the "||" character Constant	If this parameter is used, files will be exported to the specified subdirectory in the directory specified by the OUTPUT_DIRECTORY parameter.
TAG_FILTER	Tag names separated by commas: <TagName1>,<TagName2>...	Only those tags are exported from the document's "ADD_INFO" field that are specified in the list. If this parameter is not set, all tags are exported except those specified in the value of the EXCLUDE_TAGS parameter. If this parameter contains the name of a tag that is also specified in the EXCLUDE_TAGS, parameter's value, this tag will not be exported.

Parameter	Values	Parameter description
TARGET_CHANNEL	Field name Constant	Used to specify the UFX document recipient's channel. The default value is "doc.TARGET_CHANNEL". ⓘ To substitute a value, use the DECODE PL/SQL function.
TAGS_IN_SOURCE_DTLS	Y/N	When the parameter's value is "Y", data from the document tags "TRANS_LOCATION", "MC_ASSIGNED_ID", "MERCH_URL" and "POSTAL_CODE" are exported, respectively to the fields "Location", "AssignedID", "WEBSite" and "PostalCode" of the "Doc/SourceDtls" aggregate. When the value is "N", these tags are exported to "AddInfo" fields of the "Doc/Transaction/Extra" aggregate (for rules on populating, see the section "List of Marked Fields"). The parameter's default value is "Y".
TO_TRANSIT	Y/N	When the parameter value is "Y", data contained in the TARGET_MEMBER_ID field of the DOC table are exported to the Destination/TransitId field; otherwise, to the Destination/MemberId field. The parameter's default value is "N".
USE_EXT_FILE_COUNTER	Y/N	When this parameter is set to "Y", the mechanism for numbering files being exported changes to rule out the possibility of duplicating file numbers when the pipe is run in parallel. The parameter's default value is "N". Not recommended when running the pipe in parallel. The first time this parameter is set to "Y", file numbering starts from the beginning.

Parameter	Values	Parameter description
USE_MERCHANT_NAME	Y/N	When the parameter value is "Y", data in the "TRANS_DETAILS" field of the DOC table are exported to the "Doc/SourceDtls/MerchantName" field; when the value is "N", data are exported to the Doc/Description field. The parameter's default value is "Y".
USE_REVERSAL_CODE	Y/N	If this parameter's value is "Y", for reversal documents in the "Doc/TransType/TransCode/TransTypeCode" element, the value of the "TRANS_TYPE.REVERSAL_CODE" field will be specified. Used when "Y" is specified for DETAILED_TRANS_CODE The parameter's default value is "N".
USE_TRANS_TYPE_IDT	Y/N	When this parameter is set to "Y" and DETAILED_TRANS_CODE=Y, the TransTypeIDT element will be exported in the "Doc/TransType/TransCode" aggregate. The parameter's default value is "N".
XML_INDENTATION	Y/N	If this parameter is set to "N", exported XML files will be generated without indents. This can accelerate export and reduce file size but will make visual perception of the files content more difficult. The parameter's default value is "Y".
XML_VALIDATION	Y/N	If this parameter is set to "N", exported XML files will not be checked for compliance with the XSD schema. This can accelerate export but generated files may contain documents with errors. The parameter's default value is "Y".

ⓘ In RESPONSE_MODE=Y, only pipe parameters marked with the "*" character are used.

⚠️ When the PER_DAY_NUMBERING parameter's value is "Y", the counter can only be reset ("Full → Core Banking Interface → CBS. File Management → UFX Reset Outward File Counter" menu item) before the pipe is run for the first time in a calendar day; otherwise file numbering will be restarted, which may cause numeration conflicts. When the PER_DAY_NUMBERING parameter's value is "N", counter reset is not allowed.

2.2 Parameters of the "IC Documents Import" Pipe

Parameter	Values	Parameter description
APPROVE_BATCHES	Y/N	Determines whether imported batches must be approved. The default parameter value is "Y" (batches are approved).
CHANGE_CURR	\<currency code>\<currency code>	Used to convert a numeric currency code in imported documents. The parameter's length is six characters (two three-digit numeric currency codes). The code that is being replaced is specified first. For example, when the code "810" must be replaced with "643", specify the value "810643".

Parameter	Values	Parameter description
CHECK_ADD_INFO_TAGS	Y/N/T/V	Depending on the parameter value, during import, a check is made for the presence of the "=" and ";" characters in the "ADD_INFO" field's tags of the document that are transmitted in the "Parm" elements of the "Extra/AddData" aggregate with the "AddInfo" type. If the "=" and ";" characters are found, the file will not be imported. Possible values: • "Y" – "Parm/ParmCode" names and "Parm/Value" values of tags are checked. • "T" – only "Parm/ParmCode" names of tags are checked. • "V" – only "Parm/Value" values of tags are checked. • "N" – no check is made. The parameter's default value is "Y".
COMMIT_INTERVAL	Numeric	Number of applications that will be processed before executing the "commit" SQL statement. The default value is "100".
CONV_FEE_COLLECTION_CODE	Y/N	When the value of the parameter is set to "Y", for "Fee Collection" or "Funds Disbursement" documents, the fourth character of the message code will be replaced with "I" if its value is "-". The parameter's default value is "N". It is recommended to specify the "Y" value in Host-to-Host mode.
CREATE_ORIGINAL_DOC	Y/N	When the value of this parameter is "Y", information on imported documents is also written to the ORIGINAL_DOC table. File header information is always written to this table. The parameter's default value is "N".

Parameter	Values	Parameter description
DETAIL_DOC	Y/N	When this parameter's value is "Y", batches on import are converted to financial documents with details. The parameter's default value is "N". ⚠ This parameter may only be used or changed with the approval of OpenWay representatives.
ERROR_DIR		Directory for incoming files in which errors were found during import. It is not recommended to change the default value @INTERCHANGE_PATH@/WAY4_ERR.
EXCLUDE_TAGS	Tag names separated by commas: <TagName1>,<TagName2>...	Tags from the list are not imported to a document's "ADD_INFO" field. Tags are transmitted in the "Parm" elements of the "Extra/AddData" aggregate with the "AddInfo" type.

Parameter	Values	Parameter description
FF_CODES_MAP	\<Scheme\>/N	Scheme for converting message codes. This parameter is only used if MODE is "H2H" and only for fast funds messages (see the description of the FF_SRC_CH_LIST parameter). The parameter's value contains a scheme with variants for converting message codes in the following format: \<OldMessageCode\>:\<NewMessageCode\>,\<RequestCategory\>; Conversion variants separated by semicolons are written in a string. \<OldMessageCode\> for one of the conversion variants in the scheme, it will be replaced with the same variant's \<NewMessageCode\>, and \<RequestCategory\> is specified as the value of the "REQUEST_CAT" tag in the document's ADD_INFO field. When the value of this parameter is "N", conversion is not performed. The default value is "DpP––2X–:NpP––2S–,P;DpR––2X–:NpP––2S–,R;". ⚠️ It is recommended to use this parameter only for converting financial messages about fast funds into notifications.

Parameter	Values	Parameter description
FF_SRC_CH_LIST	<CH1,CH2,...,CHn> ALL NONE	List of channels from which fast funds messages may be received. This parameter is only used when the MODE parameter's value is "H2H". When messages are received from channels in the list, these messages must be checked and converted according to the value of the FF_CODES_MAP parameter. Channel codes separated by commas can be specified as the parameter's value (see the section "Message Channels" Dictionary" of the document "Way4 Dictionaries"). When the parameter's value is "ALL", messages from all channels will be checked and converted according to the value of the FF_CODES_MAP parameter. When the parameter's value is "NONE", conversion is not performed. The default value is "W,V".
FILE_CODING	Acceptable in XML	File encoding. The default value is UTF-8 (UNICODE v2).
FILE_MASK		Mask for selecting imported files. The default value is "*.xml".
FROM_TRANSIT	Y/N	If "Y" is set (default value), "doc.SOURCE_MEMBER_ID" is filled in from the Originator/TransitId field; otherwise from the "Originator/MemberId" field.

Parameter	Values	Parameter description
FX_SETTL_DATE	NULL/DOC/FILE/ BANK Date in "YYYY-MM-DD" format	An imported document's "doc.FX_SETTL_DATE" field value depends on this parameter's value: • "NULL" – the "doc.FX_SETTL_DATE" field is not filled in. • "DOC" – date from the "Reconciliation/ PhaseDate" element is specified. • "FILE" – date from the "FileHeader/ CreationDate" element is specified. • "BANK" – current banking date is specified. • date in "YYYY-MM-DD" format – date from the parameter value is specified. This parameter is only used when the MODE parameter's value is "H2H". The default value is "NULL".
IC_CHANNEL	Character (channel code)/SRC/ALL	An imported document's "doc.SOURCE_CHANNEL" and "doc.TARGET_CHANNEL" field values depend on this parameter's value: • if a character is used, it is specified as the "doc.SOURCE_CHANNEL" field's value • if "SRC" is specified, the value from the "Originator/Product/Channel" element is specified in the "doc.SOURCE_CHANNEL" field • if "ALL" is specified, the value from the "Originator/Product/Channel" element is specified in the "doc.SOURCE_CHANNEL" field, and the value from the "Destination/Product/ Channel" element is specified in the "doc.TARGET_CHANNEL"field. The default value is "m".

Parameter	Values	Parameter description
IMPORT_ADDENDUMS	Y, N, C	This parameter specifies whether additional document parameters (addendums) can be imported into the ADDENDUM_DOC table: • "N" – addendums are not imported. • "Y" – addendums will be imported and the record in the ADDENDUM_DOC table will have the "Waiting" status. • "C" – addendums will be imported and the record in the ADDENDUM_DOC table will have the "Closed" status. The default value is "N".
INVOICE_PARTY_PROCESS	Y/N	If the parameter's value is "Y", data from an imported file will be added to the INVOICE_PARTY table. The parameter's default value is "N".
MODE		When the value of this parameter is "H2H", the pipe operates in Host-to-Host mode (interface with affiliates). The mode is used to ensure exchange of financial documents between banks directly without an intermediate party.
OUTPUT_DIRECTORY		Directory for outgoing files. Mandatory parameter. Response files with the results of importing incoming files are exported to this directory.

| Parameter	Values	Parameter description
POSTING_DATE	NULL/DOC/FILE/ BANK Date in "YYYY-MM-DD" format	An imported document's "doc.POSTING_DATE" field's value depends on this parameter's value: • "NULL" – the "doc.POSTING_DATE" field is not filled in. • "DOC" – date from the "Billing/PhaseDate" element is specified. • "FILE" – date from the "FileHeader/ CreationDate" element is specified. • "BANK" – current banking date is specified. • date in "YYYY-MM-DD" format – date from the parameter value is specified. This parameter is only used when the MODE parameter is set to "H2H". The default value is "NULL".
PROCESSED_DIR		Directory for incoming imported files. It is not recommended to change the default value @INTERCHANGE_PATH@/WAY4_ARCH.
PROCESSING_SUSPENDED	Y/N	When this parameter's value is "Y", documents corresponding to imported files and batches are assigned the "Suspended" status after import. The parameter's default value is "N".
RESP_FOR_DUPL_FILES	Y/N	If this parameter is set to "Y", when an attempt is made to import a file that has already been imported, a response file with a message that the file has been already imported will be generated. The imported file will be put into the error directory. Otherwise, when an attempt is made to import a file that has already been imported: • a response file is not generated • an error message is generated • the file that is being imported remains in the directory with incoming files. The parameter's default value is "N".

Parameter	Values	Parameter description
SET_TARGET	Y/N	If this parameter's value is "Y", the "Destination/ MemberId" element's value is specified as the "doc.TARGET_MEMBER_ID" field value of the imported document. Otherwise, the "doc.TARGET_MEMBER_ID" field of the imported document is not filled in. Used when the TO_TRANSIT parameter's value is "N". The parameter's default value is "N".
SET_TGT_FEE	Y/N	When the parameter's value is "Y", data from the "Amount" field of the "Doc/Transaction/Extra" aggregate will be imported to the document's *Target Fee Amount* field if "TgtFee" is specified in this aggregate's "Type" field. The default value is "N".
SOURCE_DIR		Directory for incoming files. It is not recommended to change the default value @INTERCHANGE_PATH@/ WAY4_INC.
TA_FROM_ISO	Y/N	When the parameter value is "Y", if an addendum with the "IS" type (see the section Addenda) of an incoming file contains a message in ISO format, transaction attributes (see the document "Transaction Condition Classifiers") are determined on the basis of this message. The default value is "N".
TO_TRANSIT	Y/N	If "Y" is set (default value), "doc.REC_MEMBER_ID" is filled in from the "Destination/MemberId" or "Destination/ TransitId field; otherwise, it is not filled in or filled in from the Originator/MemberId field.

3 File Format (Documents UFX Format)

Files are generated in XML format. All aggregates and simple fields are XML elements. The main file element should be named "DocFile".
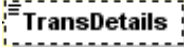
The incoming file format is described using the XSD schema graphic representation.

An example of this representation is shown in the figure.
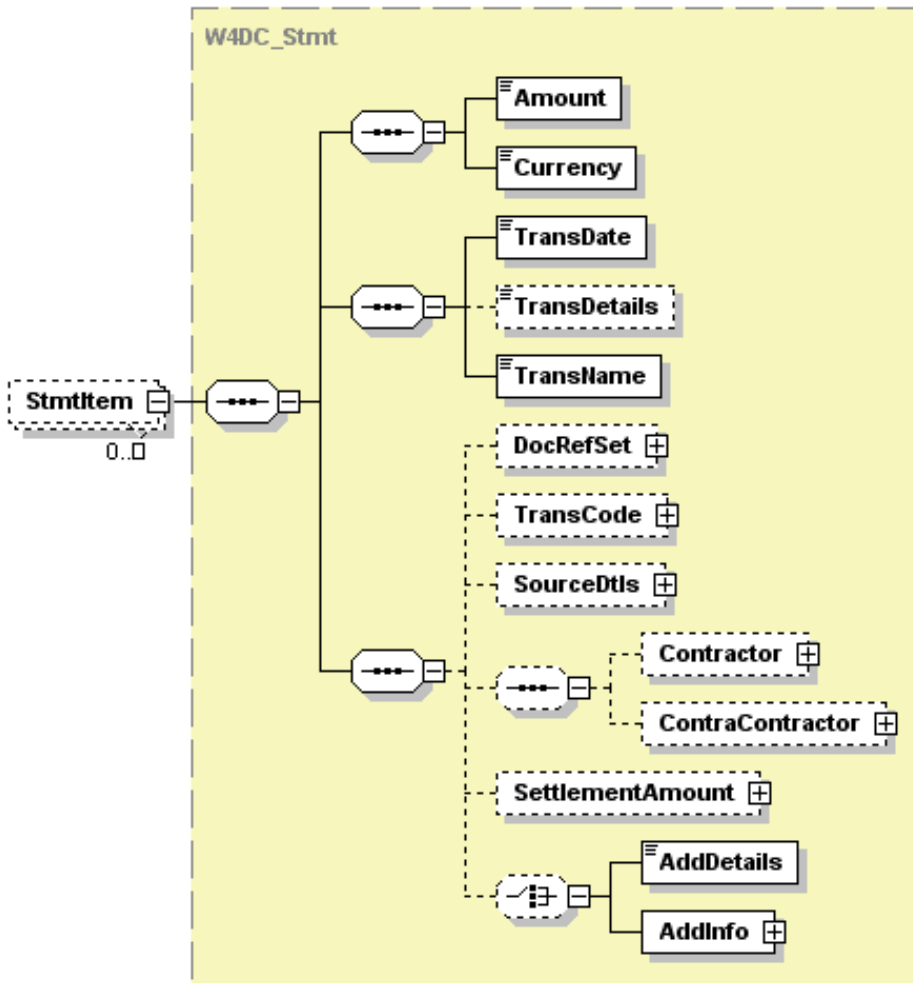
Graphic representation of file format

This graphic representation uses the following notation:

- Mandatory structural elements are shown as solid line rectangles .

- Optional elements are shown as dashed line rectangles .

- Elements reserved for future use are shown as crossed out rectangles .

A indicates that all elements it connects must be included in the parent element in the same order as they are shown in the schema.

A indicates that the parent element contains one of the elements connected with this symbol.

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

An element of the "Any" type contains an XML structure whose format is undefined.

The letters X...Y next to an element mean that it may contain X to Y sub-elements, where "__" means that the number of sub-elements is unlimited.

Recommended structure of an incoming file name:

N	Field	Format	Comments
1.	File Name Prefix		"IIC_Documents"
2.	Delimiter		"_" (underscore)
3.	File Sender		File sender code
4.	File Receiver		File receiver code
5.	File Creation Date	yyyyMMdd	File creation date.
6.	Delimiter		"_" (underscore)
7.	File Number		File serial number. During import, the following file header parameters are used to check files for uniqueness: CreationDate, FileSeqNumber, FileLabel, Sender, Receiver.
8.	File Name Extension		Additional information
9.	Delimiter		Delimiter character "."
10.	File Extension		"xml"

Structure of an outgoing file name:

#	Field	Format	Usage	Comments
1.	File Name Prefix		M	"OIC_Documents"

#	Field	Format	Usage	Comments
2.	Delimiter		M	"_" (underscore)
3.	File Sender		M	Determined by the FILE_SENDER export pipe parameter (see "Parameters of the "IC Documents Export" Pipe").
4.	File Receiver		M	Determined by the FILE_RECEIVER export pipe parameter.
5.	File Creation Date	yyyyMMdd	M	File creation date
6.	Delimiter		M	"_" (underscore)
7.	File Number	Numeric	M	File serial number within the day
8.	File Name Extension		O	Determined by the FILE_NAME_EXT export pipe parameter.
9.	Delimiter		M	Delimiter character "."
10.	File Extension		M	"xml"

Format for a deferred response outgoing filename: R_<name of incoming file>.

The file schema is shown in the xml_doc_schema.chm file.