

# CBS Analytic Transfers Export

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## Introduction

WAY4™ allows information on analytic transfers to be exported to RBS. Analytic transfers are exported through pipe "RBS. Analytic Transfers Export.dll".

Exported files are stored in the outgoing mail directory of the financial institution.

## Chapter 1. Parameters of Pipe "RBS. Analytic Transfers Export.dll"

Parameter	Value	Parameter Description
FILTER	Condition fragment	Fragment of condition WHERE, added to the SELECT operator.
EXCLUDED_TRANS	<c1>,<c2>,... (list)	List of codes for transaction types whose transfers will not be exported.
EMPTY_FILES	Y/N	Parameter determining whether empty files will be created for financial institutions where there were no transactions executed. Default value is "N".
OEM	Y/N	Parameter determining whether outgoing data will be converted to DOS encoding. Default value is "N" (without converting to DOS encoding).
EXCLUDED_ACCOUNTS	<c1>,<c2>,... (list)	List of codes for account types whose transfers will not be exported.
PRODUCT_CATEGORY	<c1>,<c2>,... (list)	List of product category codes for contracts where transfers will be exported. If the parameter is not shown, then all categories will be included.
CLIENT_CATEGORY	<c1>,<c2>,... (list)	List of client category codes for contracts whose transfers are exported. If the parameter is not defined, all categories are activated.
FI_FROM	MTR/CNTR	This parameter defines which DB table will provide information on the financial institution when exporting transfers: <ul style="list-style-type: none"> <li>• MTR – the GL_TRANSFER table (default value);</li> <li>• CNTR – the contract table.</li> </ul>
HIDE_ACC_SELF_TRANSF	Y/N	When this parameter is set to "Y", transfers where the credit and debit accounts numbers are the same will not be exported. The default value is "N".
REPLACE_TRANSIT_ACCOUNTS	Y/N	When this parameter is set to "Y", when exporting transfers the account numbers from the ACCOUNT table are replaced with numbers from the GL_TRANSFER table if the financial institution from the analytic account template does not correspond with the financial institution shown in the corresponding entry in the GL_TRANSFER table.
VERSION	10/11	File format version. Default value is "11".

Parameter	Value	Parameter Description
INSIDE_TIMEZONE	Y/N	When the value of this parameter is "Y", transfers are exported to and empty files created for only financial institutions located in the same time zone as the current financial institution. The default value of the parameter is "N".
LANGUAGE	Y/N	Code of language used to fill in the Transfer Descriptor field of the exported file's transaction message.
ALWAYS_INCLUDE_GROUP_ID	Y/N	<p>When this parameter is set to "Y", the Group Identifier field (identifier of a group of conversion transfers) is always filled in. When the parameter is set to "N", the field is only filled in if a group contains at least two transfers.</p> <p>The default parameter value is "N".</p>

## Chapter 2. File Formats

### Outgoing File Format for Analytic Transfers

Exporting analytic transfers will create a set of files for each financial institution in each currency. Files are stored in the financial institution's outgoing mail directory.

File data is stored in ASCII format. The entry length is 526 bytes, including two bytes of delimiters (CRLF). Each row in the file contains a message. Types of messages in the file are the file header, the file trailer, and the transaction message. The first file message is the file header. The last file message is the file trailer.

Field formats:

- **n** – numerical field containing only integers, right-justified and padded to the indicated length to the left with zeros.
- **an** – character field that may contain any printable characters, left-justified and padded to the indicated length to the right with spaces.
- **JJJ** – date, where JJJ is the sequential number of the day in the year (001 ... 366).
- **YYMM** – date, where YY are the last two numerals in the year (00 ... 99), MM is the numerical value of the month in the year (01 ... 12).
- **YYYYMMDD** – date, where YYYY is the year (0000 ... 9999), MM is the sequential number of the month in the year (01 ... 12), DD is the sequential number of the day in the month (01 ... 31).
- **HHMISS** – time where HH are hours (00 ... 23), MI are minutes (00 ... 59), SS are seconds (00 ... 59).
- **b** – binary field used only for delimiter symbols.

Money amounts are presented in minimal currency units (cents, pence...)

Usage indicators for data elements are as follows:

- **M** – field is mandatory;
- **O** – field is optional;
- **C** – data entry depends on values in other fields.

If the field is not filled, it should contain spaces.

## File name structure:

#	Field	Pos	Len	Usage	Format	Value
1.	File Name Prefix	1	1	M	An	"N"
2.	File Receiver (Short)	2	4	M	An	Receiver ID. Codes are defined in the Branch Code field in the Financial Institutions table ("Full → Configuration Setup → Main Tables → Financial Institutions"). If the code length in the table is less than four characters, the value is padded to the right with zeros. If the length of a code in the table is 5 characters, the first 4 characters are used; if the code length is 6 characters, characters 2-5 are used.
3.	File Currency (Short)	6	2	M	An	First two characters of the alphabetic currency code of the exported transfer in ISO-4217.
4.	File Number (Short)	8	1	M	N	Sequential file number for the current day.
5.	Delimiter	9	1	M	An	Delimiter character "."
6.	Transfers Date (Short)	10	3	M	JJJ	Date of exported transfer.

## File header structure:

#	Field	Pos	Len	Usage	Format	Value
1.	Row Code	1	2	M	an	"FH"
2.	Row Number	3	6	M	n	Row number in the file ("000001" for the header).
3.	File Label	9	10	M	an	"A.TRANSFER"
4.	Version	19	3	M	an	"11"
5.	File Receiver	22	6	M	an	Receiver ID. Codes are defined in the Branch Code field in the Financial Institutions table ("Full → Configuration Setup → Main Tables → Financial Institutions"). Values are left-justified and if necessary padded to the right with zeros.
6.	File Creation Date	28	8	M	YYYYMMDD	File creation date.
7.	File Creation Time	36	6	M	HHMISS	File creation time.
8.	Reserved	42	3	M	n	"000"
9.	File Number	45	1	M	n	Sequential file number for the current day.

#	Field	Pos	Len	Usage	Format	Value
10.	Transfers Date	46	8	M	YYYYMMDD	Date of exported transfer.
11.	File Currency	54	3	M	an	Numerical currency code of the exported transfer in ISO-4217.
12.	Local Currency	57	3	M	an	Numerical currency code of the exported transfer in ISO-4217.
13.	Filler	60	1	M	an	Space
14.	Transfer Amount Exponent	61	1	M	n	Decimal part of the transfer amount in the transaction currency.
15.	Reserved	62	462	M	an	Filled with spaces. Reserved for use in future versions.
16.	Terminal Symbol	524	1	M	an	Character "*".
17.	Delimiter	525	2	M	b	0x0D, 0x0A (CRLF)

## File trailer structure:

#	Field	Pos	Len	Usage	Format	Value
1.	Row Code	1	2	M	an	"FT"
2.	Row Number	3	6	M	n	Row number in the file.
3.	Number of Transactions	9	6	M	n	Number of transactions in the file.
4.	Total Amount	15	18	M	n	Check sum for the Transfer Amount field of transaction messages.
5.	Reserved	33	491	M	an	Filled with spaces. Reserved for use in future versions.
6.	Terminal Symbol	524	1	M	an	Character "*".
7.	Delimiter	525	2	M	b	0x0D, 0x0A (CRLF)

## Transaction message structure:

#	Field	Pos	Len	Usage	Format	Value
1.	Row Code	1	2	M	an	"RD"
2.	Row Number	3	6	M	n	Row number in the file.
3.	Transfer Number	9	10	M	an	Unique transfer number.
4.	Transfer Code	19	8	M	an	Transfer code set in the GL_TRANS_CODE field of the GL_TRANSFER table.
5.	Debit Account Type	27	1	M	an	Debited account type code. Codes are defined in the table at "Full → Configuration Setup → Accounting Setup → Account Types".



#	Field	Pos	Len	Usage	Format	Value
6.	Debit Product Category	28	1	M	an	Debited contract's product category: "C" – Issuing, "M" – Acquiring, "A" – Accounting, "B" – Bank Accounting.
7.	Analytic Debit Account	29	32	M	an	Number of analytic debit account.
8.	Synthetic Debit Account	61	32	M	an	Number of synthetic debit account.
9.	Credit Account Type	93	1	M	an	Credit account type code. Codes are defined in the table at "Full → Configuration Setup → Accounting Setup → Account Types".
10.	Credit Product Category	94	1	M	an	Credit contract's product category: "C" – Issuing, "M" – Acquiring, "A" – Accounting, "B" – Bank Accounting.
11.	Analytic Credit Account	95	32	M	an	Analytic credit account number.
12.	Synthetic Credit Account	127	32	M	an	Synthetic credit account number.
13.	Transfer Amount	159	15	M	n	Transfer amount.
14.	Reserved	174	15	M	an	Filled with spaces. Reserved for use in future versions.
15.	Transaction Date	189	8	M	YYYYMMDD	Date transaction for the transfer was executed.
16.	Transaction Time	197	6	M	HHMMSS	Time transaction for the transfer was executed.
17.	Transaction Currency	203	3	M	an	Numerical transaction currency code in ISO-4217.
18.	Transaction Amount	206	15	M	n	Amount of transaction.
19.	Transaction Details	221	30	O	an	Additional transaction information.
20.	Transfer Descriptor	251	100	M	an	Transaction description
21.	Group Identifier	351	9	C	n	ID for the group of conversion transfers. Used to search for transfer pairs.
22.	Debit Contract Number	360	32	M	an	Debit contract number.
23.	Credit Contract Number	392	32	M	an	Credit contract number.

#	Field	Pos	Len	Usage	Format	Value
24.	Full Debit Account Type	424	32	M	an	Debited account type code. Codes are defined in the table at "Full → Configuration Setup → Accounting Setup → Account Types".
25.	Full Credit Account Type	456	32	M	an	Credit account type code. Codes are defined in the table at "Full → Configuration Setup → Accounting Setup → Account Types".
26.	Reserved	488	36	M	an	Filled with spaces. Reserved for use in future versions.
27.	Terminal Symbol	524	1	M	an	Character "*".
28.	Delimiter	525	2	M	b	0x0D, 0x0A (CRLF)

## Incoming Response File Format

Incoming response files must be stored in the incoming mail directory of the corresponding financial institution.

File data is stored in ASCII format. The entry length is 120 bytes, including two bytes of delimiters (CRLF). Each row in the file contains a message. Types of messages in the file are the file header, the file trailer, and the information message. The first file message is the file header. The last file message is the file trailer. If there are no errors, the file will not contain an information message.

Field formats:

- **n** – numerical field containing only integers, right-justified and padded to the indicated length to the left with zeros.
- **an** – character field that may contain any printable characters, left-justified and padded to the indicated length to the right with spaces.
- **JJJ** – date, where JJJ is the sequential number of the day in the year (001 ... 366).
- **YYMM** – date, where YY are the last two numerals in the year (00 ... 99), MM is the numerical value of the month in the year (01 ... 12).
- **YYYYMMDD** – date, where YYYY is the year (0000 ... 9999), MM is the sequential number of the month in the year (01 ... 12), DD is the sequential number of the day in the month (01 ... 31).
- **HHMISS** – time where HH are hours (00 ... 23), MI are minutes (00 ... 59), SS are seconds (00 ... 59).
- **b** – binary field used only for delimiter symbols.

Usage indicators for data elements are as follows:

- **M** – field is mandatory;
- **O** – field is optional;
- **C** – data entry depends on values in other fields.

If the field is not filled, it should contain spaces.

File name structure:

#	Field	Pos	Len	Usage	Format	Value
1.	File Name Prefix	1	1	M	an	"Z"
2.	Outward File Receiver (Short)	2	4	M	an	Outgoing file receiver code. Value is left-justified and padded to the right with zeros. Corresponds with the value of the File Receiver (Short) field of the outgoing file.

#	Field	Pos	Len	Usage	Format	Value
3.	Outward File Currency (Short)	6	2	M	an	First two characters of the alphabetical transfer currency code, sent in the outgoing file in ISO-4217. Corresponds with the File Currency field of the outgoing file.
4.	Outward File Number (Short)	8	1	M	n	Sequential number of the outgoing file for the current day.
5.	Delimiter	9	1	M	an	Delimiter character “.”
6.	Outward Transfers Date (Short)	10	3	M	JJJ	Date of transfer sent in the outgoing file. Corresponds to the value of the Transfers Date (Short) field of the outgoing file.

## File header structure:

#	Field	Pos	Len	Usage	Format	Value
1.	Row Code	1	2	M	an	“FH”
2.	Row Number	3	6	M	n	Row number in the file ("000001" for the header).
3.	Filler	9	1	M	an	Space character.
4.	File Label	10	10	M	an	“A.TRF-RESP”
5.	Filler	20	1	M	an	Space character.
6.	Version	21	3	M	an	“10”
7.	Filler	24	1	M	an	Space character.
8.	Outward File Receiver	25	6	M	an	Receiver code of the outgoing file. The value is left justified and is padded to the right with spaces. This is the same as the File Receiver field of the outgoing file.
9.	Filler	31	1	M	an	Space character.
10.	Outward File Creation Date	32	10	M	YYYY/MM/DD	Outgoing file creation date. This is the same as the File Date field of the outgoing file.
11.	Filler	42	1	M	an	Space character.
12.	Outward File Creation Time	43	8	M	HH:MM:SS	Outgoing file creation time. This is the same as the File Time field of the outgoing file.
13.	Filler	51	1	M	an	Space character.
14.	Reserved	52	3	M	n	"000"
15.	Outward File Number	55	1	M	n	Sequential outgoing file number for the current day.
16.	Filler	56	1	M	an	Space character.

#	Field	Pos	Len	Usage	Format	Value
17.	Outward Transfers Date	57	10	M	YYYY/MM/DD	Date of transfer sent in the outgoing file. Corresponds with the value of the Transfers Date field of the outgoing file.
18.	Filler	67	1	M	an	Space character.
19.	Outward File Currency	68	3	M	an	Numerical currency code of the exported transfer in ISO-4217. Corresponds to the value of the File Currency field of the outgoing file.
20.	Filler	71	1	M	an	Space character.
21.	File Creation Date	72	10	M	YYYY/MM/DD	Response file creation date.
22.	Filler	82	1	M	an	Space character.
23.	File Creation Time	83	8	M	HH:MM:SS	Response file creation time.
24.	Reserved	91	27	M	an	Filled with spaces. Reserved for use in future versions.
25.	Terminal Symbol	118	1	M	an	Character "***".
26.	Delimiter	119	2	M	b	0x0D, 0x0A (CRLF)

## File trailer structure:

#	Field	Pos	Len	Usage	Format	Value
1.	Row Code	1	2	M	an	"FT"
2.	Row Number	3	6	M	n	Row number in the file.
3.	Filler	9	1	M	an	Space character.
4.	Number of Messages	10	6	M	n	Number of informational messages in the file.
5.	Filler	16	1	M	an	Space character.
6.	File Response Flag	17	23	M	an	File response flag: "FILE REJECTED" – File is rejected, "FILE ACCEPTED" – File is accepted.
7.	Reserved	40	78	M	an	Filled with spaces. Reserved for use in future versions.
8.	Terminal Symbol	118	1	M	an	Character "***".
9.	Delimiter	119	2	M	b	0x0D, 0x0A (CRLF)

## Information message structure:

#	Field	Pos	Len	Usage	Format	Value
1.	Row Code	1	2	M	an	"RD"
2.	Row Number	3	6	M	n	Row number in the response file.
3.	Filler	9	1	M	an	Space character.
4.	Outward Row Number	10	6	M	n	Row number in the outgoing file.
5.	Filler	16	1	M	an	Space character.
6.	Outward Transaction Number	17	10	C	an	Transaction number in the outgoing file. This field is filled for transaction messages, if the transaction number was read when loading the outgoing file.
7.	Filler	27	1	M	an	Space character.
8.	Error Message	28	35	M	an	Error description (see the following table "Error message").
9.	Filler	63	1	M	an	Space character.
10.	Error Code	64	4	M	an	Error code.
11.	Reserved	68	50	M	an	Filled with spaces. Reserved for use in future versions.
12.	Terminal Symbol	118	1	M	an	Character "*".
13.	Delimiter	119	2	M	B	0x0D, 0x0A (CRLF)

## Error message:

Error Code	Error Message	Error
1101	Format Error	Format error.
1102	Total Error	Total value does not correspond to file contents.
2201	Unknown Account	Unknown account.
2202	Unknown Currency	Unknown currency.
1000	Error	Other errors.