Balances Import

(Normal Clearing Scheme)

Contents

Chapter 1. Balances Import

The *Balances Import* file contains information about the contract balances. This is an inward file of WAY4.

The data is stored in the ASCII format. The record length is 172 bytes, including 2 bytes of lines delimiter (CRLF). Each line contains only one message. The message types are as follows: the file header, the file footer, the balance message. The first message is the file header, the last one is the file footer.

The file field formats are as follows:

- **n** is a numeric field containing only digits, right aligned, appended with zeros placed on the left to reach the specified length.
- **an** is a character field, may contain any printable characters. Left aligned, appended with zeros placed on the right to reach the specified length.
- **JJJ** is the date, where JJJ – is the serial number of the day in the year (001 … 366).
- **YYMM** is the date, where YY – are the last two digits of the year (00 … 99), MM – is the serial number of the month in the year (01 … 12).
- **YYYYMMDD** is the date, where YYYY – is the year (0000 … 9999), MM – is the serial number of the month in the year (01 … 12), DD – is the serial number of the day in the month (01 … 31).
- **HHMISS** is the time, where HH – is the hour (00 … 23), MI – is the minute (00 … 59), SS – is the second (00 … 59).
- **b** is a binary field, used only for lines delimiters.

The amounts are stored in minimal units (cents, pennies, ...).

The following flags specify if the entry of data in the field is mandatory:

- **M** - the field is mandatory,
- **O** - the field is optional,
- **X** - the data entry depends on other fields.

If the field isn't filled with data then it is filled with spaces.

The file name structure is as follows:

N	Field	Pos	Len	M/O	Format	Comments
1.	File Name Prefix	1	1	M	an	"**B**"
2.	File Sender	2	4	M	an	The sender code: Bank ID in the OpenWay System. Aligned to left, appended on the right with zeros.
3.	Delimiter	6	2	M	an	"__" (two <underline> characters).
4.	File Number	7	1	M	n	The serial number of file in the day.

N	Field	Pos	Len	M/O	Format	Comments
5.	Delimiter	9	1	M	an	“**.**”
6.	File Date	10	3	M	JJJ	File creation date.

The file header structure is as follows:

N	Field	Pos	Len	M/O	Format	Comments
1.	Row Code	1	2	M	an	“FH”
2.	Row Number	3	6	M	n	Line number in the file (000001 – is the header).
3.	File Label	9	10	M	an	“BALANCE”
4.	Version	19	3	M	an	“20 ”
5.	File Sender	22	6	M	an	Sender code: Bank ID in the OpenWay System. Aligned to left, appended on the right with spaces.
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	2	M	n	"00"
9.	File Number	44	2	M	n	Serial number of file in the day.
10.	Financial Institution	46	6	M	an	Financial Institution Branch Code.
11.	Receiver Member ID	52	16	M	an	Receiver Member ID of correctional Payments.
12.	Balances Date	68	8	M	YYYYMMDD	Bank Date of Balance file.
13.	Check Level	76	1	M	an	Error check level: "F" - all the file is rejected, "R" - only one balance message is rejected if the contract is not found or the Short_Name field value doesn’t match that in the DB.
14.	Contract Identification Type	77	1	M	an	Contract identification method: "C" - by OpenWay contract number, "R" - by RBS contract number.
15.	Short Name Checking	78	1	M	an	The client name checking flag: "Y" – the client name should be equal to that stored in the DB, "N" - the client name isn’t checked.
16.	Code Page Type	79	1	M	an	Code page: “D” – MS DOS, “W” – MS Windows.
17.	Reserved	80	90	M	an	To be filled with spaces.

N	Field	Pos	Len	M/O	Format	Comments
18.	Terminal Symbol	170	1	M	an	“*”
19.	Delimiter	171	2	M	b	0x0D, 0x0A (CRLF)

The file footer structure is as follows:

N	Field	Pos	Len	M/O	Format	Comments
1.	Row Code	1	2	M	an	“FT”
2.	Row Number	3	6	M	n	The line number in the file.
3.	Number of Balances	9	6	M	n	Number of balance messages in the file.
4.	Hash File Total	15	18	M	n	Check sum of the Contract Balance field. The sum is calculated without taking account of the currency type, exponent or sign.
5.	Reserved	33	137	M	an	To be filled with spaces.
6.	Terminal Symbol	170	1	M	an	“*”
7.	Delimiter	171	2	M	b	0x0D, 0x0A (CRLF)

The balance message structure is as follows:

N	Field	Pos	Len	M/O	Format	Comments
1.	Row Code	1	2	M	an	“RD”
2.	Row Number	3	6	M	n	The line number in the file.
3.	Contract Number	9	32	M	an	The contract number.
4.	Cardholder Short Name	41	60	M	an	The contract holder short name.
5.	Currency	101	3	M	n	Digital ISO-code of the contract balance currency.
6.	Contract Balance	104	15	M	n	Contract balance.
7.	Balance Sign	119	1	M	n	Balance sign: " " - space for a zero balance, "C" - positive balance, "D" - negative balance.
8.	Contract Number Specification	120	2	M	an	Account Type of the Contract.
9.	Reserved	122	48	M	an	To be filled with zeros.
10.	Terminal Symbol	170	1	M	an	“*”
11.	Delimiter	171	2	M	b	0x0D, 0x0A (CRLF)

Balances Import - Response

The *Balances Import - Response* file is sent in response to the *Balances Import* file and is used to confirm the file receipt. It is an outward file of the OpenWay System and contains information about errors in the inward file.

The *Balances Import - Response* file is created in the outward directory of the respective Financial Institution. The file is an outward file of WAY4.

The data is stored in the ASCII format. The record length is 207 bytes, including 2 bytes of lines delimiter (CRLF). Each line of the file contains one mess age. The message types are as follows: the file header, the file footer, the information message. The first message is the file header, the last one is the file footer. If no error is found then the file will not contain any information messages.

The file field formats are as follows:

- **n** is a numeric field containing only digits, right aligned, appended with zeros placed on the left to reach the specified length.
- **an** is a character field, may contain any printable characters. Left aligned, appended with zeros placed on the right to reach the specified length.
- **JJJ** is the date, where JJJ – is the serial number of the day in the year (001 … 366).
- **YYMM** is the date, where YY – are the last two digits of the year (00 … 99), MM – is the serial number of the month in the year (01 … 12).
- **YYYYMMDD** is the date, where YYYY – is the year (0000 … 9999), MM – is the serial number of the month in the year (01 … 12), DD – is the serial number of the day in the month (01 … 31).
- **HHMISS** is the time, where HH – is the hour (00 … 23), MI – is the minute (00 … 59), SS – is the second (00 … 59).
- **b** is a binary field, used only for lines delimiters.

The amounts are stored in minimal units (cents, pfennigs, pennies, ...).

The following flags specify if the entry of data in the field is mandatory:

- **M** - the field is mandatory,
- **O** - the field is optional,
- **X** - the data entry depends on other fields.

If the field isn't filled with data then it is filled with spaces.

The file name structure is as follows:

N	Field	Pos	Len	M/O	Format	Comments
1.	File Name Prefix	1	1	M	an	"J"
2.	Inward File Sender	2	4	M	an	The inward file sender code. Aligned to left, appended on the right with zeros. The field value is equal to that specified in the File Sender field of the inward file.

N	Field	Pos	Len	M/O	Format	Comments
3.	Delimiter	6	1	M	an	"_" (the <underline> character).
4.	Inward File Number	7	2	M	n	Serial number of the inward file in the day. The field value is equal to that specified in the File Number field of the inward file.
5.	Delimiter	9	1	M	an	"."
6.	Inward File Date	10	3	M	JJJ	The inward file creation date. The field value is equal to that specified in the File Date field of the inward file.

The file header structure is as follows:

N	Field	Pos	Len	M/O	Format	Comments
1.	Row Code	1	2	M	an	"FH"
2.	Row Number	3	6	M	n	The line number in the file (000001 – is the header).
3.	Filler	9	1	M	an	A space.
4.	File Label	10	10	M	an	"BAL-RESP"
5.	Filler	20	1	M	an	A space.
6.	Version	21	3	M	an	The version number.
7.	Filler	24	1	M	an	A space.
8.	Inward File Sender	25	6	M	an	The inward file sender code. Aligned to left, appended on the right with spaces. The field value is equal to that specified in the File Sender field of the input file. This field may be empty if errors are found in the file header of the imported file.
9.	Filler	31	1	M	an	A space.
10.	Inward File Date	32	10	M	YYYY/MM/DD	The inward file creation date. The field value is equal to that specified in the File Date field of the inward file. This field may be empty if errors are found in the file header of the imported file.
11.	Filler	42	1	M	an	A space.
12.	Inward File Time	43	8	M	HH:MI:SS	The inward file creation date. The field value is equal to that specified in the File Time field of the inward file. This field may be empty if errors are found in the file header of the imported file.
13.	Filler	51	1	M	an	A space.
14.	Reserved	52	2	M	n	To be filled with spaces.

N	Field	Pos	Len	M/O	Format	Comments
15.	Inward File Number	54	2	M	n	Serial number of the inward file in the day. The field value is equal to that specified in the File Number field of the inward file. This field may be empty if errors are found in the file header of the imported file.
16.	Filler	56	1	M	an	A space.
17.	File Date	57	10	M	YYYY/MM/DD	The response-file creation date.
18.	Filler	67	1	M	an	A space.
19.	File Time	68	8	M	HH:MI:SS	The response-file creation time.
20.	Reserved	76	129	M	an	To be filled with spaces.
21.	Terminal Symbol	205	1	M	an	“*”
22.	Delimiter	206	2	M	b	0x0D, 0x0A (CRLF)

The file footer structure is as follows:

N	Field	Pos	Len	M/O	Format	Comments
1.	Row Code	1	2	M	an	“FT”
2.	Row Number	3	6	M	n	Number of the line in the file.
3.	Filler	9	1	M	an	A space.
4.	Number of Messages	10	6	M	n	Number of information messages in the file.
5.	Filler	16	1	M	an	A space.
6.	File Response Flag	17	23	M	an	File response flag: "FILE REJECTED" - file was rejected, "FILE ACCEPTED" - file was accepted, "FILE ACCEPTED PARTIALLY" - file was partially accepted, some balance messages were rejected.
7.	Filler	40	1	M	an	A space.
8.	Number of Accepted Balances	41	6	M	n	Number of accepted balance messages.
9.	Filler	47	1	M	an	A space.
10.	Number of Rejected Balances	48	6	M	n	Number of rejected balance messages..
11.	Reserved	54	151	M	an	To be filled with spaces.
12.	Terminal Symbol	205	1	M	an	“*”

N	Field	Pos	Len	M/O	Format	Comments
13.	Delimiter	206	2	M	b	**0x0D**, **0x0A** (CRLF)

The information message structure is as follows:

N	Field	Pos	Len	M/O	Format	Comments
1.	Row Code	1	2	M	an	“RD”
2.	Row Number	3	6	M	n	The line number in the file.
3.	Filler	9	1	M	an	A space.
4.	Inward Row Number	10	6	X	n	The line number in the inward file.
5.	Filler	16	1	M	an	A space.
6.	Inward Contract Number	17	32	X	an	The contract number in the inward file. Used if the contract number was successfully read.
7.	Filler	49	1	M	an	A space.
8.	Message	50	100	M	an	Error description.
9.	Filler	150	1	M	an	A space.
10.	Error Code	151	4	M	an	Error code.
11.	Reserved	155	50	M	an	To be filled with spaces.
12.	Terminal Symbol	205	1	M	an	“*”
13.	Delimiter	206	2	M	b	0x0D, 0x0A (CRLF)