Hal E-Bank

Foreign payments
(Format of export/import files)

Contents

Tables

1. Payment Orders

There can be any number of orders in the file (*.txt). Each row contains data for a single payment order. Rows and fields have fixed character lengths. Data structure for a single payment order (imported in or exported from Hal E-Bank) is described in the following table:

No.	Field	Beginning	Length	Mandatory	Comment
1.	Unique order ID	1	16		Disregarded during import
2.	Client bank's registration number	17	11		Usually empty
3.	Client's registration number	28	13		Disregarded during import
4.	Document type	41	2	*	Fixed text (without quotes): "70"
5.	Payment instrument code	43	1	*	Number from the Payment instrument codes list (1 to 6)
6.	Reference of the person in charge	44	10		Usually empty
7.	Reference	54	15		Up to 10 characters allowed (the rest are blanks)
8.	Mode of payment realisation	69	20		Text (Cheque, Cash, Wage) or any other text
9.	Mode of payment realisation	89	2		Number (0 - Cheque, 1 - Cash, 2 - Wage)
10.	Beneficiary's account	91	34	*	
11.	Beneficiary's name	125	35	*	
12.	Beneficiary's address	160	35	*	
13.	Beneficiary's city	195	35	*	
14.	Beneficiary's country	230	35	*	Country name from the NBS Country codes list (ISO 3166)
15.	Country code	265	3	*	Country code from the NBS Country codes list (ISO 3166)

16.	Beneficiary bank's name	268	35	*	
17.	Beneficiary bank's address	303	35		
18.	Beneficiary bank's city	338	35	*	
19.	Beneficiary bank's country	373	35	*	Country name from the NBS Country codes list (ISO 3166)
20.	Beneficiary bank's BIC	408	11	*	
21.	Beneficiary bank's country code	419	3	*	Country code from the NBS Country codes list (ISO 3166)
22.	Currency code	422	3		Currency code number from the NBS Currency codes list (ISO 4127)
23.	Currency label	425	3	*	Currency label from the NBS Currency codes list (ISO 4127)
24.	Amount	428	17	*	Left aligned (the decimal separator is ",")
25.	Payment purpose 1	445	35	*	The field (or the next one, two or three field(s)) must be filled
26.	Payment purpose 2	480	35		Mandatory only if the previous field (payment purpose 1) is not filled.
27.	Payment purpose 3	515	35		Previous field's sequel
28.	Payment purpose 4	550	35		Previous field' sequel
29.	Domestic commission	585	1	*	N - Debtor U - Creditor	Available commission combinations: NN – OUR (Our)
30.	Foreign commission	586	1	*	N – Debtor U - Creditor	NU – SHA (Shared) UU – BEN (Beneficiary's)
31.	Special instructions 1	587	35		Additional comments
32.	Special instructions 2	622	35		Additional comments
33.	Payment code	657	3		Fixed text (without quotes): "000"
34.	Loan number and loan year	660	11		Format: yyyy-nnnnnn (yyyy – year of the loan, nnnnnn – 1 to 6 characters of the loan number). If the loan year and

					number are not given, the field is filled with 11 blanks.
35.	Loan description	671	70	*	Fixed text (without quotes): "LOAN REG. NUMBER AND LOAN YEAR-X", X being a number 1-7, corresponding to the special sign from the statistical report on the second page. If no special sign is given, the "X" is to be excluded
36.	Amount	741	17		Fixed text (without quotes): "0,00"
37.	Statistics: Payment code 1	758	3	*	Mandatory payment code from the reference codes list, if the amount 1 is not zero
38.	Statistics: Year and number of the (proforma) invoice 1	761	35		Format: yyyy-nnnnnnnnnnnnnnnnnnnnnnnnnnnnnn yyyy – the year of the (proforma) invoice – 4N nnnnnnnnnnnnnnnnnnnnnnnnnnnnnn – the number of the invoice – 30AN If not given, the field is filled with 35 blanks
39.	Statistics: Payment description 1	796	70	*	Mandatory payment description from the reference codes list, if the amount 1 is not zero
40.	Statistics: Amount 1	866	17	*	The amount can be negative
41.	Statistics: Payment code 2	883	3		The same as for Statistics 1 applies for all other statistics. The total value of the statistical items has to equal the value of the field 24, otherwise the input is invalid
42.	Statistics: Year and number of the (proforma) invoice 2	886	35		
43.	Statistics: Payment description 2	921	70		
44.	Statistics: Amount 2	991	17		
45.	Statistics: Payment code 3	1008	3		The same as for Statistics 1 applies for all other statistics. The total value of the statistical items has to equal the value of the field 24, otherwise the input is invalid
46.	Statistics: Year and number of the (proforma) invoice 3	1011	35		
47.	Statistics: Payment description 3	1046	70		

48.	Statistics: Amount 3	1116	17		
49.	Statistics: Payment code 4	1133	3		The same as for Statistics 1 applies for all other statistics. The total value of the statistical items has to equal the value of the field 24, otherwise the input is invalid
50.	Statistics: Year and number of the (proforma) invoice 4	1136	35		
51.	Statistics: Payment description 4	1171	70		
52.	Statistics: Amount 4	1241	17		
53.	Statistics: Payment code 5	1258	3		The same as for Statistics 1 applies for all other statistics. The total value of the statistical items has to equal the value of the field 24, otherwise the input is invalid
54.	Statistics: Year and number of the (proforma) invoice 5	1261	35		
55.	Statistics: Payment description 5	1296	70		
56.	Statistics: Amount 5	1366	17		
57.	Statistics: Payment code 6	1383	3		The same as for Statistics 1 applies for all other statistics. The total value of the statistical items has to equal the value of the field 24, otherwise the input is invalid
58.	Statistics: Year and number of the (proforma) invoice 6	1386	35		
59.	Statistics: Payment description 6	1421	70		
60.	Statistics: Amount 6	1491	17		
61.	Statistics: Payment code 7	1508	3		The same as for Statistics 1 applies for all other statistics. The total value of the statistical items has to equal the value of the field 24, otherwise the input is invalid
62.	Statistics: Year and number of the (proforma) invoice 7	1511	35		
63.	Statistics: Payment description 7	1546	70		

64.	Statistics: Amount 7	1616	17		
65.	Covering YUM account	1633	10		Not used
66.	Covering YUM amount	1643	17		
67.	Foreign exchange cover account	1660	10		
68.	Foreign exchange cover currency code	1670	3	*	Mandatory, if the foreign exchange cover is in foreign currency. Currency code from the NBS Currency codes list (ISO 4127)
69.	Foreign exchange cover currency label	1673	3	*	Currency code label from the NBS Currency codes list (ISO 4127)
70.	Cover status	1676	1		
71.	Commission amount	1677	17		Left aligned (the decimal separator is ","). Default: "0,00"
72.	Name of the intermediary bank	1694	70		
73.	BIC of the intermediary bank	1764	11		
74.	Account of the intermediary bank	1775	35		
75.	Address of the intermediary bank	1810	35		
76.	City of the intermediary bank	1845	35		
77.	Country code of the intermediary bank	1880	3		Country code from the NBS Country codes list (ISO 3166)
78.	Country name of the intermediary bank	1883	35		Country name from the NBS Country codes list (ISO 3166)
79.	Requested date of payment	1918	8		Format: yyyymmdd (year, month, day - without delimiters)
80.	End of line	1926	2	*	Carriage Return, Line Feed

Table 1: Structure record of the VP 70 payment order

2. Payment Orders Using Sub-Accounts

Some banks support the entry of a sub-account cover for payment orders. In such case, the data on the sub-account cover are ignored when importing/exporting. There can be any number of orders in the file (*.txt). Each row contains data for a single payment order with a sub- account cover. The record structure is the same as for a payment order without a sub-account (see Table 1 – without the field 80), with the expansion of additional fields per following specification:

No.	Field	Beginning	Length	Mandatory	Comment
80.	Subaccount: Account number 1	1926	10	*	
81.	Subaccount: Account currency label 1	1936	3	*	Currency code label from the NBS Currency codes list (ISO 4127)
82.	Subaccount: Client type 1	1939	3		Not used
83.	Subaccount: Account value 1	1942	17	*	Left aligned (the decimal separator is ","). Default: "0,00"
84.	Subaccount: Account number 2	1959	10		If existent, it's the same as for the Subaccount number 1
85.	Subaccount: Account currency label 2	1969	3		
86.	Subaccount: Client type 2	1972	3		
87.	Subaccount: Account value 2	1975	17		
88.	Subaccount: Account number 3	1992	10		If existent, it's the same as for the Subaccount number 1
89.	Subaccount: Account currency label 3	2002	3		
90.	Subaccount: Client type 3	2005	3		
91.	Subaccount: Account value 3	2008	17		
92.	Subaccount: Account number 4	2025	10		

93.	Subaccount: Account currency label 4	2035	3		If existent, it's the same as for the Subaccount number 1
94.	Subaccount: Client type 4	2038	3		
95.	Subaccount: Account value 4	2041	17		
96.	Subaccount: Account number 5	2058	10		If existent, it's the same as for the Subaccount number 1
97.	Subaccount: Account currency label 5	2068	3		
98.	Subaccount: Client type 5	2071	3		
99.	Subaccount: Account value 5	2074	17		
100.	Subaccount: Account number 6	2091	10		If existent, it's the same as for the Subaccount number 1
101.	Subaccount: Account currency label 6	2101	3		
102.	Subaccount: Client type 6	2104	3		
103.	Subaccount: Account value 6	2107	17		
104.	Subaccount: Account number 7	2124	10		If existent, it's the same as for the Subaccount number 1
105.	Subaccount: Account currency label 7	2134	3		
106.	Subaccount: Client type 7	2137	3		
107.	Subaccount: Account value 7	2140	17		
108.	Subaccount: Account number 8	2157	10		If existent, it's the same as for the Subaccount number 1
109.	Subaccount: Account currency label 8	2167	3		
110.	Subaccount: Client type 8	2170	3		
111.	Subaccount: Account value 8	2173	17		
112.	Subaccount: Account number 9	2190	10		If existent, it's the same as for the Subaccount number 1

113.	Subaccount: Account currency label 9	2200	3		
114.	Subaccount: Client type 9	2203	3		
115.	Subaccount: Account value 9	2206	17		
116.	Subaccount: Account number 10	2223	10		If existent, it's the same as for the Subaccount number 1
117.	Subaccount: Account currency label 10	2233	3		
118.	Subaccount: Client type 10	2236	3		
119.	Subaccount: Account value 10	2239	17		
120.	End of line	2256	2	*	Carriage Return, Line Feed

Table 2: Structure record of the VP 70 payment order with sub-accounts

3. Inflows

Information on inflows can only be exported from the Hal E-Bank system. Each inflow creates one row in an exported file.
All rows and fields have fixed lengths. The structure record of an exported inflow is shown in following table:

No.	Field	Beginning	Length	Comment
1.	Bank reference	1	12	
2.	Code of the sender's country	13	3	Country code from the NBS Country codes list (ISO 3166)
3.	BIC of the sender's bank	16	11	
4.	Name of the sender's bank	27	35	
5.	Name of the sender	62	35	
6.	Purpose of inflow 1	97	35	
7.	Purpose 2	132	35	
8.	Currency label	167	3	Currency code label from the NBS Currency codes list (ISO 4127)
9.	Amount	170	15	Left aligned (the decimal separator is ","). Default: "0,00"
10.	Date of inflow	185	8	yyyymmdd (for example 20000115)
11.	Original inflow amount	193	35	
12.	End of line	228	2	Carriage Return, Line Feed

Table 3: Structure record of an inflow

4. Currency Exchange Rate Lists

Currency exchange rate lists can only be exported from the Hal E -Bank system. The export file has the following rows:

- The first row is a record containing the currency exchange rate list header.
- The subsequent rows are records containing the currency exchange rates; a separate row for each currency.

No.	Field	Beginning	Length	Comment
1.	Ordinal number of the NBS Exchange Rates list	1	3	
2.	Date of the list (from date)	4	8	Format: yyyymmdd (e.g., 20030108)
3.	Date of the list (to date)	12	8	Format: yyyymmdd
4.	End of line	20	2	0x0D, 0x0A (line feed, carriage return)

Table 4: Structure record of the Currency Exchange Rate list Header row

No.	Field	Beginning	Length	Comment
1.	Currency short name	1	3	
2.	Currency code	4	3	
3.	Number of units	7	3	1 or 100
4.	Buying rate of the CB	10	11	Leading zeroes
5.	Middle rate of the CB	21	11	Leading zeroes
6.	Selling rate of the CB	32	11	Leading zeroes
7.	Buying rate of the bank	43	11	Leading zeroes
8.	Selling rate of the bank	54	11	Leading zeroes
9.	End of line	65	2	Line Feed, Carriage Return

Table 5: Structure record of the Currency Exchange Rate list Currency row

5. The Address Book

Each record contains information about business partner and one of his accounts. An example a record for import into personal Address Book is shown in the frame (one complete record is shown in the frame, which, due to its length is divided into multiple rows):

```
"BUSINESS PARTNER NAME","PARTNER ADDRESS","PARTNER CITY","COUNTRY","COMMENT","ACCOUNT NUMBER",
"NAME OF THE BANK WHERE THE ACCOUNT IS HELD","BANK ADDRESS","BANK CITY","BANK COUNTRY","COUNTRY CODE","","BANK BIC CODE",
"MODEL AND REFERENCE NUMBER","BANK ACCOUNT NUMBER AT THE CENTRAL BANK",0, "","PARTNER TAX NUMBER"
```

Record format description:
- Each row contains 18 fields / columns,
- Content of each field is enclosed by quotation marks, except field 16,
- Delimiter between fields is comma,
- Empty fields are represented by double quotation marks (""),
- Fields with key information cannot be empty,
- Each row ends with 0x0D, 0x0A (line feed, carriage return).

Note:
- Double quotation mark within the field is displayed as a single quotation mark. E.g. "THIS IS """ is imported as THIS IS ".
- Information is divided into three groups by their contents:
  o Fields 1 to 5 and 16 to 18 contain information about the beneficiary.
  o Fields 6 and 14 contain information about the account model and the reference number.
  o Fields between 7 and 13, and field 15 contain information about the bank with which the account is held.
- The information about the bank is compared with the Address Book of banks data during importing. In fields 6 and 13, allowed characters are only digits from 0 to 9 and hyphen" –"
- The address book is organized also to include information about beneficiary's account in foreign banks. This additional data Hal E-Bank program does not use for domestic payment operations.

If Field 6 (account number) is empty, only the information about beneficiary is imported into the Address Book. If Field 6 is filled, then fields 7, 9, 10 must be filled as well.

No.	Mandatory	Maximum width (characters)	Field contents
1.	*	35	Business partner name
2.		35	Partner address
3.	*	35	Partner postal code and city
4.	*	35	Partner country
5.		150	Partner comment
6.		35	Partner account number in the form 999-000000000052434
7.		35	Bank name, which holds the account (in field 6)
8.		35	Bank street and street number
9.		35	Bank postal code and city
10.		35	Bank country
11.		2	Country 2-character alpha code in Country codes list (ISO 3166) (e.g. RS – Serbia, DE – Germany…)
12.		150	Account comment
13.		11	Bank BIC address
14.		25	Model (first two characters) and reference number
15.		35	Bank account number in NBS (central bank)
16.	*	1	User type (always is 0). This field is entered without quotes
17.		4098	Serialized record. Not used during import (always empty – "")
18.		35	Partner tax number
19.	*	2	Carriage Return, Line Feed

Table 6: Structure record of address book