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Hal E-Bank

Foreign payments – non-resident
(Format of import/export files)

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1. Payment orders

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

No.	Field	Beginning	Length	Mandatory	Comment
1.	Unique order ID	1	16		Disregarded during import
2.	Client`s bank registration number	17	11		Usually empty
3.	Client`s registration number	28	13		Disregarded during import. If entered, is replaced by Hal-Bank user`s registration number
4.	Document type	41	2	*	Fixed text: 70
5.	Payment instrument code	43	1	*	Number in Payment instrument codes list (1 to 8 is used)
6.	Reference of the person in charge	44	10		Usually empty
7.	Reference	54	15		Up to 8 characters allowed (the rest are blanks)
8.	Mode of payment realization	69	20		Fixed text: VP70_NONRES
9.	Mode of payment realization	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 in Country codes list (ISO 3166)
15.	Country code	265	3	*	Country code in Country codes list (ISO 3166)

16.	Name of Beneficiary's bank	268	35	*		
17.	Beneficiary's bank address	303	35			
18.	Beneficiary`s bank city	338	35	*		
19.	Beneficiary's bank country	373	35		Country name in Country codes list (ISO 3166)	
20.	Beneficiary's bank BIC	408	11	*		
21.	Beneficiary's bank country code	419	3	*	Country code in Country codes list (ISO 3166)	
22.	Currency code	422	3		Currency code number in Currency codes list (ISO 4127)	
23.	Currency label	425	3	*	Currency label in Currency codes list (ISO 4127)	
24.	Amount	428	17	*	Left aligned (decimal separator is ",")	
25.	Payment purpose 1	445	35	*	This field (or the next one, two or three field(s)) must be filled. These fields can have up to 16 characters.	
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 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) NU: SHA (Shared) UU: BEN (Beneficiary)
30.	Foreign commission	586	1	*	"N"- Debtor, "U"- Creditor	
31.	Additional instructions for bank:	587			Two options available, 31a and 31b (look below)	
31a.	Instructions for bank	587	70		Additional instructions for bank	
31b.	Label for payment code	587	6	*	Fixed text: /SIFP/	
31b	Payment code	593	2	*	Two-digit payment code without leading number 2, e.g. 21, 53, 89	

NOTE: FROM POSITION 595 TO POSITION 622 LEAVE EMPTY					
31b.	Instructions for bank	622	35		Additional instructions for bank
NOTE: FROM POSITION 657 TO POSITION 1502 LEAVE EMPTY					
32.	Foreign exchange cover currency code	1502	3	*	Mandatory, if foreign exchange cover is in foreign currency. Currency code in Currency codes list (ISO 4127)
33.	Foreign exchange cover currency label	1505	3	*	Mandatory, if foreign exchange cover is in foreign currency. Currency code label in Currency codes list (ISO 4127)
34.	Cover status	1508	1		
35.	Commission amount	1509	17		Left aligned (decimal separator is ","). Default is “0,00”
36.	Name of intermediary bank	1526	70		
37.	BIC of intermediary bank	1596	11		
38.	Account of intermediary bank	1607	35		
39.	Address of intermediary bank	1642	35		
40.	City of intermediary bank	1677	35		
41.	Country code of intermediary bank	1712	3		Country code in Country codes list (ISO 3166)
42.	Country name of intermediary bank	1715	35		Country name in Country codes list (ISO 3166)
43.	Requested date of payment	1750	8		Format: yyyymmdd (year, month, day without delimiters)
44.	Credit reference model	1758	2		2-digit number (usually "97" or "00" or "0 " or " ")
45.	Credit reference	1760	24		
46.	End of line	1784	2	*	Line Feed, Carriage Return

Table 1: Structure record of payment order non-resident

2. 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 2: 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 3: Structure record of the Currency Exchange Rate list Currency row

3. 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:
  - Fields 1 to 5 and 16 to 18 contain information about the beneficiary.
  - Fields 6 and 14 contain information about the account model and the reference number.
  - 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 4: Structure record of address book