

**Formats of data import/export  
in the iBank 2 UA system.  
Technical description**

Version 1.0

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## Introduction

This document is intended for bank clients and bank system administrators. It provides information about data exchange in the iBank 2 UA system. Current version of the system provides features as follows:

1. Data exchange in the Internet – and PC – Banking for such clients' categories and appropriate AWP's in the iBank 2 UA:
  - Corporate clients service;
  - Control clients service (Financial Control Centre);
  - Private clients service.
2. Data exchange is implemented for:
  - Documents;
  - User's references;
  - System exchange rates reference;
  - Reports.
3. Import of exchange rates by bank employees for clients currency operations support:
  - NBU exchange rates (#99 files);
  - Bank exchange rates (iBank 2 format files).
4. Support of iBank 2 and Profix formats and NBU #99 files:
  - iBank 2 format import (text format <field>=<value>);
  - iBank 2 format export (CSV format);
  - Profix format export (dbf files, compliant with dBaseIV);
  - Exchange rates import from NBU #99 files.

The main format of data exchange in the current iBank 2 UA version is iBank 2 format. Profix (export of corporate clients statements) and IBIS (import of hryvnia payment order and outgoing payment request; export of corporate clients statements) are additional data exchange formats.

## Chapter 1

# Objects and formats of data exchange

Available formats for import and export of documents, reports and references in clients' AWP are illustrated at [figure 1.1](#).

№	Document/reference/report	Import	Export
1	Hryvnia payment order	iBank 2, IBIS	
2	Outgoing payment request	iBank 2, IBIS	
3	Salary sheet *	iBank 2	
4	Cards validity prolongation order *	iBank 2	
5	Discharge order *	iBank 2	
6	Cards assignment order *	iBank 2	
7	Currency transfer order	iBank 2	
8	Currency sale order	iBank 2	
9	Currency purchase order	iBank 2	
10	Currency conversion order**	iBank 2	
11	Factoring	iBank 2	
12	Correspondents reference	iBank 2	
13	Beneficiaries reference	iBank 2	
14	Employees reference *		iBank 2
15	Corporate clients statements of accounts		iBank 2, Profix, IBIS
16	Private clients statements		iBank 2
17	Current balances		iBank 2
18	Turnover balance sheets		iBank 2
19	Exchange rates		iBank 2

\* Object will be available in AWP if client's bank provides salary project service.

\*\* Object will be available in AWP if client's bank provides work with currency conversion order.

Figure 1.1. Objects and formats of data exchange

The iBank 2 UA system supports such data exchange formats as follows:

- iBank 2;
- Profix;
- IBIS.

Exchange rates files, distributed by NBU, are in standard format. That format will no be considered in this document.

## iBank 2 format description

iBank 2 format is an internal format of import/export in the iBank 2 UA system.

Name and extension of import file of iBank 2 format can be arbitrary. Description of basic elements of the iBank 2 format illustrated at [figure 1.2](#).

№	Element type	Symbols
1	String break	In Windows format - '\r\n', in Unix format - '\n'
2	Service symbol	'.'   ','   ';'   ':'   'space'   ' '   '@'   '#'   '\$'   '%'   '^'   '&'   ' '   '\\'   '<'   '>'   '?'   "'"   ""
3	Space	' '   '\'
4	Digit (Integer)	'0'   '1'   '2'   '3'   '4'   '5'   '6'   '7'   '8'   '9'
5	Character (Char)	'A'   'B'   ...   'Y'   'Z'   'a'   'b'   ...   'y'   'z'   'A'   'B'   ...   'Ю'   'Я'   'а'   'б'   ...   'ю'   'я'
6	Money sum (Decimal)	*[digit]'.' 2-4[digit]
7	Date (Date)	2[digit]'.' 2[digit]'.' 4[digit] - dd.mm.yyyy
8	String (String)	*([character]   [digit]   [service symbol])

Figure 1.2. Basic elements of the import/export in iBank 2 format

There is a check for illegal symbols according to DPS (0 – 31 codes in ASCII table) during import of hryvnia payment order and correspondents reference.

The structure of import and export files in iBank 2 format is *different*.

## Brief survey of Profix format

Current version of the iBank 2 UA system provides corporate clients statements export in **Profix** format. Files of **Profix** format have **.dbf** extension. Files type corresponds to dbf-files dBaseIV. As a result, those files can be viewed using public programs, particularly WinDBFview program (download link: <http://www.gendalf.ru/download/public/winDBFview/wdbfview.zip>). To view export files in **Profix** format you can use Microsoft Excel.

## About IBIS format

Current version of the iBank 2 UA system provides import hryvnia payment orders and payment requests and export corporate clients statements in **IBIS** format. Import and export files of **IBIS** format are text files of special structure (more info about that in [Import files in IBIS format](#) and [The structure and examples of export files in IBIS format](#)). Those files can be viewed and edited using any text editor.

## Chapter 2

# Import

### Import files of iBank 2 format

*Import* files in iBank 2 format are text files containing such elements as follows:

- At the beginning of the file imported document or reference type definition must be specified: pair of values **Content-Type**=<document type> or **Content-Type**=<reference type<sup>1</sup>>.
- File main part consists of pairs of values: <**field name**>=<**field value**>. For each type of document or reference minimum required number of pairs of values <field name>=<field value> must be specified.
- Document type definition and also pairs of values blocks of documents/references fields must be separated by LF symbol, US-ASCII symbol with 10 code (line feed).

**Attention!**

Fields names are standardized, fields values must correspond to the client's parameters (payment essential elements, references data).

Basic elements of import files in iBank 2 format are illustrated at [figure 2.1](#).

№	Element type	Element structure
1	Documents list	[content type] [line feed] *(([document content] [line feed])
2	Content type	"Content-Type" "=" [document type] [line feed]
3	Document content	*([field name] "=" [field value] [line feed])
4	Field name	1*([character]   [figure])
5	Field value	[figure]   [date]   [string]

Figure 2.1. Basic elements of the import files in iBank 2 format

**Attention!**

Import files must contain documents (references) of the same type only. All imported data must be in Cp 1251 coding.

<sup>1</sup>Further term «documents» will be used to refer to both documents and references.

**Note!**

If <field value> contains "\n" symbols, you must substitute those symbols for "\" "n" symbols. If <field value> contains backslash "\" symbols, then each symbol is substituted for double backslash symbols "\\\" \"\".

Types of documents/references and corresponding names of Content-Type field values are illustrated at [figure 2.2](#).

№	Document type	Value of Content-Type field
1	Hryvnia payment order	doc/ua_payment
2	Outgoing payment request	doc/ua_payment_request
3	Salary sheet	doc/pay_sheet
4	Cards validity prolongation order	doc/card_prolongation
5	Discharge order	doc/fire_staff_order
6	Cards assignment order	doc/assign_card_order
7	Currency transfer order	doc/ua_currency_payment
8	Currency sale order	doc/ua_currency_sale
9	Currency purchase order	doc/ua_currency_purchase
10	Currency conversion order	doc/ua_currency_convert
11	Factoring	doc/factoring
12	Correspondents reference	ref/recipient
13	Correspondents reference*	ref/ua_mrecipient
14	Beneficiaries reference	ref/beneficiar
15	Beneficiaries reference**	ref/mbeneficiar

\* - in this case - correspondents reference for Financial control centre.

\*\* - in this case - beneficiaries reference for Financial control centre.

Figure 2.2. Names of the documents/references for import

Import files values (with files examples) are considered at [The structure and examples of import files in iBank 2 format](#).

## Import from client's AWP's in iBank 2 format

Documents and references that can be imported are illustrated at [figure 2.3](#). iBank 2 format.

## The structure and examples of import files in iBank 2 format

### Hryvnia payment order import

The structure of import file of hryvnia payment order in corporate clients AWP's and control clients AWP's (FCC) is the same.

The fields description of the hryvnia payment order import file is illustrated at [figure 2.4](#)

Example of the hryvnia payment order import file:

Content-Type=doc/ua\_payment

Module	Corporate clients service	Private clients service	Control clients (FCC) service
<b>Document (reference)</b>			
Hryvnia payment order	yes	n/a*	yes
Outgoing payment request	yes	n/a	yes
Salary sheet **	yes	n/a	yes
Cards validity prolongation order**	yes	n/a	yes
Discharge order**	yes	n/a	yes
Cards assignment order**	yes	n/a	yes
Currency transfer order	yes	n/a	yes
Currency sale order	yes	n/a	yes
Currency purchase order	yes	n/a	yes
Currency conversion order**	yes	n/a	yes
Factoring	yes	n/a	yes
Correspondents reference	yes	no	yes
Beneficiaries reference	yes	no	yes

\* n/a - This type of document or reference is not available in AWP in the current standard system version.

\*\* This document will be available in AWP if client's bank provides such service.

Figure 2.3. Import using iBank 2 UA AWP

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
AMOUNT	DECIMAL(12,2)	Yes	Payment amount
CLN_NAME	STRING(40)	Yes	Payer's name
CLN_OKPO	STRING(10)	Yes	Payer's EGRPOU
CLN_ACCOUNT	STRING(14)	Yes	Payer's account
CLN_BANK_NAME	STRING(45)	No	Payer's bank name
CLN_BANK_MFO	STRING(6)	Yes	Payer's bank MFO
CLN_COUNTRY_CODE	STRING(3)	No	Payer's country code
RCPT_NAME	STRING(40)	Yes	Recipient's name
RCPT_OKPO	STRING(10)	Yes	Recipient's EGRPOU
RCPT_ACCOUNT	STRING(14)	Yes	Recipient's account
RCPT_BANK_NAME	STRING(45)	No	Recipient's bank name
RCPT_BANK_MFO	STRING(6)	Yes	Recipient's bank MFO
RCPT_COUNTRY_CODE	STRING(3)	No	Recipient's country code
PAYMENT_DETAILS	STRING(160)	Yes	Payment details
VALUE_DATE	DATE	No	Value date

Figure 2.4. Fields description of the hryvnia payment order import file

DATE\_DOC=11.01.2007  
 NUM\_DOC=146  
 AMOUNT=200.00  
 CLN\_NAME= "БІФІТ"  
 CLN\_OKPO=3434545443  
 CLN\_ACCOUNT=26002465400864

```

CLN_BANK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ
CLN_BANK_MFO=300335
RCPT_NAME=ТОВ "Альфа"
RCPT_OKPO=2054484712
RCPT_ACCOUNT=26009453150541
RCPT_BANK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ
RCPT_BANK_MFO=300335
PAYMENT_DETAILS= Перевод денег согласно договору АВ1654
VALUE_DATE=11.01.2007

```

### Outgoing payment request import

The structure of outgoing payment request import file is the *same* for corporate and control clients AWP.

The fields description of the outgoing payment request import file is illustrated at [figure 2.5](#).

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
AMOUNT	DECIMAL(12,2)	Yes	Payment amount
PAYER_NAME	STRING(40)	Yes	Payer's name
PAYER_OKPO	STRING(10)	Yes	Payer's EGRPOU
PAYER_ACCOUNT	STRING(14)	Yes	Payer's account
PAYER_BANK_NAME	STRING(45)	No	Payer's bank name
PAYER_BANK_MFO	STRING(6)	Yes	Payer's bank MFO
PAYER_COUNTRY_CODE	STRING(3)	No	Payer's country code
CLN_NAME	STRING(40)	Yes	Recipient's name
CLN_OKPO	STRING(10)	Yes	Recipient's EGRPOU
CLN_ACCOUNT	STRING(14)	Yes	Recipient's account
CLN_BANK_NAME	STRING(45)	No	Recipient's bank name
CLN_BANK_MFO	STRING(6)	Yes	Recipient's bank MFO
CLN_COUNTRY_CODE	STRING(3)	No	Recipient's country code
PAYMENT_DETAILS	STRING(160)	Yes	Payment details

Figure 2.5. Fields description of the outgoing payment request import file

Example of outgoing payment request import file:

Content-Type=doc/ua\_payment\_request

```

DATE_DOC=11.01.2007
NUM_DOC=346
AMOUNT=200.00
PAYER_NAME=ТОВ "Альфа"
PAYER_OKPO=2054484712
PAYER_ACCOUNT=26009453150541
PAYER_BANK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ

```

```

PAYER_BANK_MFO=300335
CLN_NAME=ТОВ "БІФІТ"
CLN_OKPO=3434545443
CLN_ACCOUNT=26002465400846
CLN_BANK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ
CLN_BANK_MFO=300335
PAYMENT_DETAILS=Перевод денег согласно договору АВ1657

```

### Salary sheet import

The structure of salary sheet import file is the *same* for corporate and control clients (FCC) AWPс.

Fields description is illustrated at [figure 2.6](#). Example of salary sheet import file is given below. Draw attention that autonumbering of fields—lists CARD\_HOLDERS. begins with *zero*.

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_NAME	STRING(40)	No	Payer's name
PAYER_BANK_MFO	STRING(6)	Yes	Payer's bank MFO
PAYER_BANK_NAME	STRING(45)	No	Payer's bank name
PAYER_ACCOUNT	STRING(14)	Yes	Debit account
ONFLOW_TYPE	STRING(65)	No	Type of entry
AMOUNT	DECIMAL(12,2)	Yes	Amount of entry
PAYER_BANK_ACCOUNT	STRING(14)	Yes	Payer's bank account
COMMISSION_PERCENT	DECIMAL(3,2)	Yes	Percent for cash settlement services
VALUE_DATE	DATE	No	Value date
CLN_OKPO	STRING(10)	No	Payer's EGRPOU
CARD_HOLDERS.N.CARD_NUM	STRING(14)	Yes	Card account number
CARD_HOLDERS.N.CARD HOLDER	STRING(80)	Yes	Card holder's full name
CARD_HOLDERS.N.CARD HOLDER INN	STRING(14)	Yes	Card holder's INN
CARD_HOLDERS.N.AMOUNT	DECIMAL(12,2)	Yes	Entry amount
CARD_HOLDERS.N.STAFF_ID	STRING(16)	No	Employee's ID
CARD_HOLDERS.N.RESIDENT_FLAG	STRING(1)	No	Resident sign
CARD_HOLDERS.N.CARD HOLDER TABN	STRING(20)	No	Card holder tab. N
CARD_HOLDERS.N.STATUS	INTEGER(5)	No	Result of entry

where N - employee number

Figure 2.6. Fields description of the salary sheet import file

Example of salary sheet import file for charging funds to two employees:

Content-Type=doc/pay\_sheet

DATE\_DOC=11.01.2007

```
NUM_DOC=435
CLN_NAME=ТОВ "БІФІТ"
PAYER_BANK_MFO=300335
PAYER_BANK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ
PAYER_ACCOUNT=26002780518831
CARD_HOLDERS.0.CARD_NUM=2625164854881
CARD_HOLDERS.0.CARD HOLDER=Долженко Марина Андреевна
CARD_HOLDERS.0.CARD HOLDER_INN=1234567891
CARD_HOLDERS.0.AMOUNT=1600.00
CARD_HOLDERS.0.STAFF_ID=2625164854881
CARD_HOLDERS.0.RESIDENT_FLAG=1
CARD_HOLDERS.0.STATUS=0
CARD_HOLDERS.1.CARD_NUM=2625164854882
CARD_HOLDERS.1.CARD HOLDER=Коропенко Леонид Михайлович
CARD_HOLDERS.1.CARD HOLDER_INN=1234567892
CARD_HOLDERS.1.AMOUNT=1600.00
CARD_HOLDERS.1.STAFF_ID=2625164854882
CARD_HOLDERS.1.RESIDENT_FLAG=1
CARD_HOLDERS.1.STATUS=0
ONFLOW_TYPE=Безготівкове поповнення карткових рахунків
AMOUNT=3200.00
PAYER_BANK_ACCOUNT=29091648452218
COMMISSION_PERCENT=1.0
```

### Cards validity prolongation order import

The structure of cards validity prolongation order import file is the *same* for corporate and control clients (FCC) AWP. Fields description is illustrated at [figure 2.7](#).

Example of cards validity prolongation order import file:

Content-Type=doc/card\_prolongation

```
DATE_DOC=10.01.2007
NUM_DOC=125
CLN_NAME=ТОВ "БІФІТ"
PAYER_BANK_MFO=300335
PAYER_BANK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ
PROLONGATION_DATE=10.02.2007
CARD_HOLDERS.0.CARD_NUM=121171191181183
CARD_HOLDERS.0.CARD HOLDER=Колодачна Андрей Владимирович
CARD_HOLDERS.0.CARD HOLDER_INN=1234567894
CARD_HOLDERS.0.SKS_NUMBER=2625164854884
CARD_HOLDERS.0.CARD_CURRENCY=UAH
CARD_HOLDERS.0.CARD HOLDER_ENG_NAME=Kolodachna Andrey Vladimirovich
CARD_HOLDERS.0.CARD_EXPIRY_DATE=01.01.2007
CARD_HOLDERS.0.STAFF_ID=2625164854884
CARD_HOLDERS.0.STATUS=0
```

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_NAME	STRING(40)	Yes	Client's name
PAYER_BANK_MFO	STRING(6)	Yes	Client's bank MFO
PAYER_BANK_NAME	STRING(45)	Yes	Client's bank name
PROLONGATION_DATE	DATE	No	Cards validity prolongation date
CARD_NUM	STRING(16)	Yes	Card account number
CARD_HOLDER	STRING(80)	Yes	Card holder's full name
CARD_HOLDER_INN	STRING(14)	Yes	Card holder's INN
SKS_NUMBER	STRING(14)	Yes	SCA number
CARD_CURRENCY	STRING(3)	Yes	Card currency
CARD_HOLDER_ENG_NAME	STRING(80)	Yes	Name on card
CARD_EXPIRY_DATE	DATE	Yes	Card expiry date
STAFF_ID	STRING(16)	No	Employee's ID
STATUS	STRING(5)	No	Status
DESCRIPTION	STRING(255)	No	Commentary

Figure 2.7. Fields description of the cards validity prolongation order import file

### Discharge order import

The structure of discharge order import file is the *same* for corporate and control clients (FCC) AWP. Fields description is illustrated at [figure 2.8](#).

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_NAME	STRING(40)	Yes	Client's name
PAYER_BANK_MFO	STRING(6)	Yes	Client's bank MFO
PAYER_BANK_NAME	STRING(45)	Yes	Client's bank name
CARD_NUM	STRING(16)	No	Card account number
CARD_HOLDER	STRING(80)	Yes	Card holder's full name
CARD_HOLDER_INN	STRING(14)	Yes	Card holder's INN
SKS_NUMBER	STRING(14)	Yes	SCA number
CARD_HOLDER_ENG_NAME	STRING(80)	No	Name on card
STAFF_ID	STRING(16)	No	Employee's ID
STATUS	STRING(5)	No	Status
DESCRIPTION	STRING(255)	No	Commentary

Figure 2.8. Fields description of the discharge order import file

Example of discharge order import file (discharge two employees):

Content-Type=doc/fire\_staff\_order

```

DATE_DOC=10.01.2007
NUM_DOC=133
CLN_NAME=ТОВ "БІФІТ"
PAYER_BANK_MFO=300335
PAYER_BANK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ
CARD_HOLDERS.0.CARD_NUM=121171191181183
CARD_HOLDERS.0.CARD HOLDER=Колодачна Андрей Владимирович
CARD_HOLDERS.0.CARD HOLDER INN=1234567894
CARD_HOLDERS.0.SKS_NUMBER=2625164854884
CARD_HOLDERS.0.CARD HOLDER ENG NAME=Kolodachna Andrey Vladimirovich
CARD_HOLDERS.0.STAFF_ID=2625164854884
CARD_HOLDERS.0.STATUS=0
CARD_HOLDERS.1.CARD_NUM=121171191181182
CARD_HOLDERS.1.CARD HOLDER=Демишев Константин Викторович
CARD_HOLDERS.1.CARD HOLDER INN=1234567893
CARD_HOLDERS.1.SKS_NUMBER=2625164854883
CARD_HOLDERS.1.CARD HOLDER ENG NAME=Demishev Konstantin Viktorovich
CARD_HOLDERS.1.STAFF_ID=2625164854883
CARD_HOLDERS.1.STATUS=0

```

### Cards assignment order import

The structure of cards assignment order import file is the *same* for corporate and control clients (FCC) AWP. Fields description is illustrated at [figure 2.9](#).

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_NAME	STRING(40)	Yes	Client's name
PAYER_BANK_MFO	STRING(6)	Yes	Client's bank MFO
PAYER_BANK_NAME	STRING(45)	Yes	Client's bank name
CARD_NUM	STRING(16)	No	Card account number
CARD HOLDER	STRING(80)	Yes	Card holder's full name
CARD HOLDER INN	STRING(14)	Yes	Card holder's INN
SKS_NUMBER	STRING(14)	No	SCA number
CARD HOLDER ENG NAME	STRING(80)	Yes	Name on card
STATUS	STRING(5)	No	Status
DESCRIPTION	STRING(255)	No	Commentary

Figure 2.9. Fields description of the cards assignment order import file

Example of cards assignment order import file (cards assignment for two employees):

Content-Type=doc/assign\_card\_order

```
DATE_DOC=10.01.2007
NUM_DOC=236
CLN_NAME=ТОВ "БІФІТ"
PAYER_BANK_MFO=300335
PAYER_BANK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ
CARD_HOLDERS.0.CARD HOLDER=Колодачна Андрей Владимирович
CARD_HOLDERS.0.CARD HOLDER INN=1234567894
CARD_HOLDERS.0.CARD_NUM=121171191181183
CARD_HOLDERS.0.SKS_NUMBER=2625164854884
CARD_HOLDERS.0.CARD HOLDER ENG_NAME=Kolodachna Andrey Vladimirovich
CARD_HOLDERS.0.STATUS=0
CARD_HOLDERS.1.CARD HOLDER=Демішев Константин Викторович
CARD_HOLDERS.1.CARD HOLDER INN=1234567893
CARD_HOLDERS.1.CARD_NUM=121171191181182
CARD_HOLDERS.1.SKS_NUMBER=2625164854883
CARD_HOLDERS.1.CARD HOLDER ENG_NAME=Demishev Konstantin Viktorovich
CARD_HOLDERS.1.STATUS=0
```

### Currency transfer order import

The structure of currency transfer order import file is the *same* for corporate and control clients (FCC) AWP. Fields description is illustrated at [figure 2.10](#).

Example of currency transfer order import file:

Content-Type=doc/ua\_currency\_payment

```
DATE_DOC=11.01.2007
NUM_DOC=316
CLN_BNK_NAME=JOINT-STOCK POST PENSION BANK AVAL
CLN_BNK_BIC_TYPE=SWIFT
CLN_BNK_BIC=AVALUAKXXX
CLN_BNK_COUNTRY=UKRAINE
CLN_BNK_CITY=KIEV
CLN_BNK_ADDR=01011 KIEV LESKOV STREET 9 FLOOR 5
CLN_NAME=LTD "BIFIT"
CLN_COUNTRY=UKRAINE
CLN_ADDR=Dnepropetrovsk, Voroncova 73/414
CLN_EMPLOYEE_FIO=Приходько Н.А.
CLN_EMPLOYEE_PHONE=26-56-79
CLN_ACCOUNT=26008234279034
AMOUNT=863.0000
AMOUNT_CURRENCY=RUB
AMOUNT_CURRENCY_CODE=643
INTERMED_BNK_BIC_TYPE=SWIFT
RCPT_BNK_NAME=VOLZHSKY UNIVERSALNY BANK
RCPT_BNK_BIC_TYPE=SWIFT
RCPT_BNK_BIC=VUNIRU31XXX
RCPT_BNK_COUNTRY=RUSSIAN FEDERATION
```

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_BNK_NAME	STRING(140)	Yes	Payer's bank name
CLN_BNK_BIC_TYPE	STRING(8)	No	Type of payer's bank ID code
CLN_BNK_BIC	STRING(15)	No	Payer's bank ID code
CLN_BNK_COUNTRY	STRING(70)	Yes	Payer's bank country
CLN_BNK_CITY	STRING(70)	Yes	Payer's bank city
CLN_BNK_ADDR	STRING(140)	No	Payer's bank address
CLN_NAME	STRING(40)	Yes	Payer's name
CLN_COUNTRY	STRING(70)	Yes	Payer's country
CLN_CITY	STRING(70)	No	Payer's city
CLN_ADDR	STRING(80)	Yes	Payer's address
CLN_EMPLOYEE_FIO	STRING(40)	No	Full name of payer's responsible employee
CLN_EMPLOYEE_PHONE	STRING(20)	No	Contact phone number of payer's responsible employee
CLN_ACCOUNT	STRING(14)	Yes	Payer's currency account
AMOUNT	DECIMAL(14,4)	Yes	Payment amount
AMOUNT_CURRENCY	STRING(3)	Yes	Payment currency
AMOUNT_CURRENCY_CODE	STRING(3)	Yes	Digital code of payment currency
CURRENCY_DATE	DATE	No	Value date
INTERMED_BNK_NAME	STRING(140)	No	Intermediary bank name
INTERMED_BNK_BIC_TYPE	STRING(8)	No	Type of intermediary bank ID code
INTERMED_BNK_BIC	STRING(15)	No	Intermediary bank ID code
INTERMED_BNK_COUNTRY	STRING(70)	No	Intermediary bank country
INTERMED_BNK_CITY	STRING(70)	No	Intermediary bank city
INTERMED_BNK_ADDR	STRING(140)	No	Intermediary bank address
RCPT_BNK_NAME	STRING(140)	Yes	Beneficiary's bank name
RCPT_BNK_BIC_TYPE	STRING(8)	No	Type of beneficiary's bank ID code
RCPT_BNK_BIC	STRING(15)	No	Beneficiary's bank ID code
RCPT_BNK_ACCOUNT	STRING(50)	No	Beneficiary's bank account number
RCPT_BNK_COUNTRY	STRING(70)	Yes	Beneficiary's bank country
RCPT_BNK_CITY	STRING(70)	Yes	Beneficiary's bank city
RCPT_BNK_ADDR	STRING(140)	Yes	Beneficiary's bank address
RCPT_NAME	STRING(140)	Yes	Beneficiary's name
RCPT_ACCOUNT	STRING(50)	No	Beneficiary's account number
RCPT_COUNTRY	STRING(70)	Yes	Beneficiary's country
RCPT_CITY	STRING(70)	Yes	Beneficiary's city
RCPT_ADDR	STRING(140)	Yes	Beneficiary's address
PAYMENT_DETAILS	STRING(220)	Yes	Payment details
EXPENSE_TYPE	STRING(80)	Yes	Payment charges and commission
EXPENSE_ACCOUNT	STRING(14)	No	Account for charging the commission
PAYMENT_SPEED	STRING(13)	Yes	Payment urgency
PAYMENT_ADDED_INFO	STRING(140)	No	Additional information
CLN_OKPO	STRING(10)	No	Payer's EGRPOU
RCPT_BNK_IBAN	STRING(35)	No	Beneficiary's bank IBAN-code
INTERMED_BNK_COUNTRY_CODE	STRING(3)	No	Intermediary bank country code
RCPT_BNK_COUNTRY_CODE	STRING(3)	Yes	Beneficiary's bank country code
RCPT_COUNTRY_CODE	STRING(3)	Yes	Beneficiary's country code
INTERMED_BNK_ACCOUNT	STRING(50)	No	Intermediary bank account number
CLN_BNK_MFO	STRING(6)	No	Payer's bank MFO
OPCODE	STRING(4)	No	Transaction code
CLN_RESIDENT	STRING(1)	No	Client's resident sign
RCPT_RESIDENT	STRING(1)	No	Beneficiary's resident sign

Figure 2.10. Fields description of the currency transfer order import file

RCPT\_BNK\_CITY=SAMARA  
RCPT\_BNK\_ADDR=443034 SAMARA 56, PROSPEKT METALLURGOV  
RCPT\_NAME=ОАО "РУСПРОМ"  
RCPT\_ACCOUNT=42302978354534540056  
RCPT\_COUNTRY=РОССИЯ  
RCPT\_CITY=Самара  
RCPT\_ADDR=г. Самара, ул. Буденного, д. 58, к.458  
PAYMENT\_DETAILS=Оплата за услуги в соответствии договору № 488 от 20.11.2006 г.  
EXPENSE\_TYPE=за рахунок платника і бенефіціара  
EXPENSE\_ACCOUNT=26002465400648  
PAYMENT\_SPEED=Терміновий  
PAYMENT\_ADDED\_INFO=Дополнительная информация  
CLN\_OKPO=3434545443  
RCPT\_BNK\_COUNTRY\_CODE=643  
RCPT\_COUNTRY\_CODE=643  
CLN\_BNK\_MFO=300335

### Currency sale order import

The structure of currency sale order import file is the *same* for corporate and control clients (FCC) AWP. Fields description is illustrated at [figure 2.11](#).

Example of currency sale order import file:

Content-Type=doc/ua\_currency\_sale

DATE\_DOC=11.01.2007  
NUM\_DOC=302  
CLN\_NAME=ТОВ "БІФІТ"  
CLN\_ADDR=Дніпропетровськ м. Дніпропетровськ, пр.Воронцова, д. 73/414  
CLN\_PHONES=23-23-14  
CLN\_EMPLOYEE\_FIO=Круть Павло Павлович  
CLN\_EMPLOYEE\_PHONE=12-34-56  
BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
BNK\_MFO=300335  
SALE\_SUM=55.0500  
SALE\_CURRENCY=USD  
SALE\_ACCOUNT=29009865038380  
SALE\_KIND=1  
SALE\_BNK\_ACCOUNT=29001458215549  
SALE\_RATE\_KIND=за курсом уповноваженого банку  
PURCHASE\_ACCOUNT=26002465400648  
PURCHASE\_BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
PURCHASE\_BNK\_MFO=300335  
COMMISSION=3.03  
RETURN\_ACCOUNT=29009865038380

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_NAME	STRING(40)	Yes	Client's name
CLN_ADDR	STRING(80)	Yes	Client's address
CLN_PHONES	STRING(20)	Yes	Client's contact phone number
CLN_EMPLOYEE_FIO	STRING(40)	No	Full name of client's responsible employee
CLN_EMPLOYEE_PHONE	STRING(20)	No	Contact phone number of client's responsible employee
BNK_NAME	STRING(45)	Yes	Authorized bank name
BNK_MFO	STRING(6)	Yes	Authorized bank MFO
SALE_SUM	DECIMAL(14,4)	No	Amount of sold foreign currency
SALE_CURRENCY	STRING(3)	Yes	Code of sold foreign currency
SALE_ACCOUNT	STRING(14)	Yes	Account for charging-off currency
SALE_KIND	STRING(1)	No	Flag of the transfer to bank account for foreign currency sale
SALE_BNK_ACCOUNT	STRING(14)	No	Bank account for foreign currency sale
SALE_RATE_KIND	STRING(30)	Yes	Choice of foreign currency sale rate
SALE_RATE	DECIMAL(8,4)	No	Foreign currency sale rate
PURCHASE_SUM	DECIMAL(12,2)	No	Amount in hryvnias to enter
PURCHASE_ACCOUNT	STRING(14)	Yes	Client's account to enter hryvnias
PURCHASE_BNK_NAME	STRING(45)	Yes	Bank name where client's account to enter hryvnias is opened
PURCHASE_BNK_MFO	STRING(6)	Yes	Bank MFO where client's account to enter hryvnias is opened
COMMISSION	DECIMAL(7,2)	No	Authorized bank commission
RETURN_ACCOUNT	STRING(14)	Yes	Client's account for foreign currency repayment
EXPERIENCE_DATE	DATE	No	Order period of validity
CURRENCY_DATE	DATE	No	Value date

Figure 2.11. Fields description of the currency sale order import file

### Currency purchase order import

The structure of currency purchase order import file is the *same* for corporate and control clients (FCC) AWP. Fields description is illustrated at [figure 2.12](#).

Example of currency purchase order import file:

Content-Type=doc/ua\_currency\_purchase

```
DATE_DOC=11.01.2007
NUM_DOC=334
CLN_NAME=ТОВ "БІФІТ"
CLN_ADDR=Дніпропетровськ м. Дніпропетровськ, пр.Воронцова, д. 73/414
CLN_PHONES=23-23-14
CLN_EMPLOYEE_FIO=Приходько Н.В.
CLN_EMPLOYEE_PHONE=44-55-66
PURCHASE_REASON=Договір № 1598/63 від 12.11.2003 р.
BNK_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ
```

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_NAME	STRING(40)	Yes	Client's name
CLN_ADDR	STRING(80)	Yes	Client's address
CLN_PHONES	STRING(20)	Yes	Client's contact phone number
CLN_EMPLOYEE_FIO	STRING(40)	No	Full name of client's responsible employee
CLN_EMPLOYEE_PHONE	STRING(20)	No	Contact phone number of client's responsible employee
PURCHASE_REASON	STRING(255)	Yes	Reason for foreign currency purchase
BNK_NAME	STRING(45)	Yes	Authorized bank name
BNK_MFO	STRING(6)	Yes	Authorized bank MFO
BNK_ADDR	STRING(80)	Yes	Authorized bank address
SALE_SUM	DECIMAL(12,2)	Yes	Amount in hryvnia for foreign currency purchase
SALE_ACCOUNT	STRING(14)	Yes	Bank transit account
SALE_BNK_NAME	STRING(45)	Yes	Bank name where client's transit account is opened
SALE_BNK_MFO	STRING(6)	Yes	Bank MFO where client's transit account is opened
PURCHASE_SUM	DECIMAL(14,4)	No	Amount of purchased currency
PURCHASE_CURRENCY	STRING(3)	Yes	Code of purchased foreign currency
PURCHASE_RATE_KIND	STRING(30)	Yes	Choice of foreign currency purchase rate
PURCHASE_RATE	DECIMAL(8,4)	No	Foreign currency purchase rate
PURCHASE_ACCOUNT	STRING(14)	Yes	Client's account to enter purchased currency
PURCHASE_BNK_NAME	STRING(45)	Yes	Bank name where client's account to enter purchased currency is opened
PURCHASE_BNK_MFO	STRING(6)	Yes	Bank MFO where client's account to enter purchased currency is opened
COMMISSION	DECIMAL(7,2)	No	Authorized bank commission
RETURN_ACCOUNT	STRING(14)	Да	Client's account for hryvnias repayment
RETURN_BNK_NAME	STRING(45)	Yes	Bank name where client's account for hryvnias repayment is opened
RETURN_BNK_MFO	STRING(6)	Yes	Bank MFO where client's account for hryvnias repayment is opened
PENSOIN_TAX_KIND	STRING(80)	Yes	Choice of payment for fee for compulsory State Pension Insurance
PENSOIN_CLN_NUMBER	STRING(11)	No	Client's registration number at state pension fund
FUND_NAME	STRING(40)	No	Name of pension fund department
FUND_EDRPOU	STRING(8)	No	EGRPOU code of pension fund department
FUND_ACCOUNT	STRING(14)	No	Settlement account of pension fund department
FUND_BNK_NAME	STRING(45)	No	Bank name of pension fund department
FUND_BNK_MFO	STRING(6)	No	Bank MFO of pension fund department
EXPERIENCE_DATE	DATE	No	Order term of validity
CURRENCY_DATE	DATE	No	Value date
PENSION_TAX	DECIMAL(7,2)	No	Percent of Pension Insurance collection

Figure 2.12. Fields description of the currency purchase order import file

BNK\_MFO=300335  
 BNK\_ADDR=М.КІЇВ, вул. О. Гончара 12  
 SALE\_SUM=53845.14  
 SALE\_ACCOUNT=26002780518831  
 SALE\_BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КІЇВ  
 SALE\_BNK\_MFO=300335  
 PURCHASE\_SUM=53312.02  
 PURCHASE\_CURRENCY=EUR

PURCHASE\_RATE\_KIND=по курсу уполномоченного банка  
PURCHASE\_ACCOUNT=29001458215549  
PURCHASE\_BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
PURCHASE\_BNK\_MFO=300335  
COMMISSION=0.05  
RETURN\_ACCOUNT=26002465400846  
RETURN\_BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
RETURN\_BNK\_MFO=300335  
PENSOIN\_TAX\_KIND=обязуюсь перечислить самостоятельно  
EXPERIENCE\_DATE=12.01.2007

### Currency conversion order import

The structure of currency conversion order import file is the *same* for corporate and control clients (FCC) AWP. Fields description is illustrated at [figure 2.13](#).

Example of currency conversion order import file:

Content-Type=doc/ua\_currency\_convert

DATE\_DOC=24.11.2006  
NUM\_DOC=132  
CLN\_NAME=ТОВ "БІФІТ"  
CLN\_PHONES=23-23-14  
CLN\_ADDR=Дніпрпетровськ м. Дніпропетровськ, пр.Воронцова, д. 73/414  
CLN\_EMPLOYEE\_FIO=Бак Игорь Андреевич  
CLN\_EMPLOYEE\_PHONE=12-34-56  
PURCHASE\_REASON=средства для оплаты контрактов  
BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
BNK\_MFO=300335  
BNK\_ADDR=м. Київ, вул. Лескова, буд 45  
PURCHASE\_CURRENCY=UAH  
PURCHASE\_ACCOUNT=26002780518831  
PURCHASE\_BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
PURCHASE\_BNK\_MFO=300335  
SALE\_SUM=444.4400  
SALE\_CURRENCY=USD  
SALE\_ACCOUNT=29001458215549  
SALE\_BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
SALE\_BNK\_MFO=300335  
COMMISSION=4.00  
EXPERIENCE\_DATE=25.11.2006  
PURCHASE\_RATE\_KIND=за курсом уповноваженого банку  
TRANSIT\_ACCOUNT=29096485410548  
TRANSIT\_BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
TRANSIT\_BNK\_MFO=300335  
COMMISSION\_BNK\_NAME=АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ  
COMMISSION\_BNK\_MFO=300335  
COMMISSION\_ACCOUNT=26002465400940

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_NAME	STRING(40)	Yes	Client's name
CLN_ADDR	STRING(80)	Yes	Client's address
CLN_PHONES	STRING(20)	Yes	Client's contact phone number
CLN_EMPLOYEE_FIO	STRING(40)	No	Responsible employee's full name
CLN_EMPLOYEE_PHONE	STRING(20)	No	Responsible employee's contact phone number
PURCHASE_REASON	STRING(255)	Yes	Reason to purchase foreign currency
BNK_NAME	STRING(45)	Yes	Client's authorized bank name
BNK_MFO	STRING(6)	Yes	Authorized bank MFO
BNK_ADDR	STRING(80)	Yes	Authorized bank address
PURCHASE_SUM	DECIMAL(14,4)	No	Amount of purchased foreign currency
PURCHASE_CURRENCY	STRING(3)	Yes	Letter code of purchased foreign currency
PURCHASE_RATE	DECIMAL(8,4)	No	Foreign currency purchase rate
PURCHASE_ACCOUNT	STRING(14)	Yes	Client's account to enter purchased foreign currency
PURCHASE_BNK_NAME	STRING(45)	Yes	Bank name where client's account to enter purchased foreign currency is opened
PURCHASE_BNK_MFO	STRING(6)	Yes	Bank MFO where client's account to enter purchased foreign currency is opened
SALE_SUM	DECIMAL(14,4)	No	Amount of sold foreign currency
SALE_CURRENCY	STRING(3)	Yes	Letter code of sold foreign currency
SALE_ACCOUNT	STRING(14)	Yes	Client's account for charging-off sold foreign currency
SALE_BNK_NAME	STRING(45)	Yes	Bank name where client's account for charging-off sold foreign currency is opened
SALE_BNK_MFO	STRING(6)	Yes	Bank MFO where client's account for charging-off sold foreign currency is opened
COMMISSION	DECIMAL(7,2)	No	Percent of deducted commission
EXPERIENCE_DATE	DATE	No	Order term of validity
CURRENCY_DATE	DATE	No	Value date
PURCHASE_RATE_KIND	STRING(30)	Yes	Choice of foreign currency purchase rate
TRANSIT_ACCOUNT	STRING(14)	Yes	Transit account for transfer amount required for purchase
TRANSIT_BNK_NAME	STRING(45)	Yes	Bank name where transit account for transfer amount required for purchase is opened
TRANSIT_BNK_MFO	STRING(6)	Yes	Bank MFO where transit account for transfer amount required for purchase is opened
COMMISSION_BNK_NAME	STRING(45)	Yes	Bank name where hryvnia account for charging-off commission is opened
COMMISSION_BNK_MFO	STRING(6)	Yes	Bank MFO where hryvnia account for charging-off commission is opened
COMMISSION_ACCOUNT	STRING(14)	Yes	Hryvnia account for charging-off commission
TRANSIT_BNK_ADDR	STRING(80)	Yes	Address of bank with transit account
COMMISSION_BNK_ADDR	STRING(80)	Yes	Address of bank with commission account
TRANSIT_KIND	STRING(70)	Yes	Method of transfer amount for purchase

Figure 2.13. Fields description of the currency conversion order import file

TRANSIT\_BNK\_ADDR=м. Київ, вул. Лескова, буд 45  
 COMMISSION\_BNK\_ADDR=м. Київ, вул. Лескова, буд 45  
 TRANSIT\_KIND=Зобов'язуємося перерахувати

### Factoring import

The structure of factoring import file is the *same* for corporate and control clients (FCC) AWP. Fields description is illustrated at [figure 2.14](#).

Fields			
Name	Type	Required	Description
DATE_DOC	DATE	Yes	Document date
NUM_DOC	STRING(10)	Yes	Document number
CLN_NAME	STRING(40)	Yes	Supplier's name
CLN_OKPO	STRING(10)	Yes	Supplier's EGRPOU
RCPT_NAME	STRING(40)	Yes	Customer's name
RCPT_OKPO	STRING(10)	Yes	Customer's EGRPOU
CONTACT_ESSENTIAL_ELEMENTS	STRING(40)	Yes	Essential elements of purchase contract
DATE_DELIVERY	DATE	Yes	Delivery date
TOTAL_COST_DELIVERY	DECIMAL(15,2)	Yes	Total cost of delivery
BUYERS_NOTES_PAYABLE	DECIMAL(12,2)	Yes	Customer's receivables
GOODS_NAME	STRING(40)	Yes	Goods name
GOODS_QUANTITY	INTEGER(7)	Yes	Goods quantity
GOODS_COST	DECIMAL(12,2)	Yes	Goods cost

Figure 2.14. Fields description of the factoring import file

Example of factoring import file (for two sort of goods):

Content-Type=doc/factoring

```
DATE_DOC=11.01.2007
NUM_DOC=357
CLN_NAME=ТОВ "БІФІТ"
CLN_OKPO=3434545443
RCPT_NAME=ЧП "Агросервіс"
RCPT_OKPO=7596325314
CONTACT_ESSENTIAL_ELEMENTS=Договор №2135 от 15.09.2006
GOODS_LIST.0.GOODS_NAME=стол
GOODS_LIST.0.GOODS_QUANTITY=2
GOODS_LIST.0.GOODS_COST=13.34
GOODS_LIST.1.GOODS_NAME=стул
GOODS_LIST.1.GOODS_QUANTITY=111
GOODS_LIST.1.GOODS_COST=10.11
TOTAL_COST_DELIVERY=1148.89
DATE_DELIVERY=15.01.2007
BUYERS_NOTES_PAYABLE=5.00
```

### Correspondents reference records import

The structure of import file of correspondents reference is the *same* for corporate and control clients (FCC) AWP, but reference type value (Content-Type field value): for corporate clients is *ref/recipient* and for control clients is *ref/ua\_mrecipient*.

Fields description is illustrated at [figure 2.15](#).

Example of import file of correspondents reference<sup>1</sup>:

Content-Type=ref/recipient

<sup>1</sup>For one correspondent.

Fields			
Name	Type	Required	Description
RCPT_INN	STRING(14)	Yes	Correspondent's EGRPOU
RCPT_NAME	STRING(40)	Yes	Correspondent's name
RCPT_ACCOUNT	STRING(14)	Yes	Correspondent's account
RCPT_BANK_BIC	STRING(6)	Yes	Correspondent's bank MFO
PAYMENT_DETAILS	STRING(220)	No	Payment details
NOTE	STRING(210)	No	Note

Figure 2.15. Fields description of the correspondents reference records import file

RCPT\_INN=96566442

RCPT\_NAME=000 "Финансы"

RCPT\_ACCOUNT=26005858001549

RCPT\_BANK\_BIC=399119

PAYMENT\_DETAILS=Оказание посреднических услуг по договору №556/788 от 12.03.2006

NOTE=Обновлённые реквизиты 000 "Финансы".

### Beneficiaries reference records import

The structure of import file of beneficiaries reference is the *same* for corporate and control clients (FCC) AWP, but reference type value (Content-Type field value): for corporate clients is `ref/beneficiar` and for control clients is `ref/mbeneficiar`.

Fields description is illustrated at [figure 2.16](#).

Fields			
Name	Type	Required	Description
RCPT_NAME	STRING(160)	Yes	Beneficiary's name
RCPT_ACCOUNT	STRING(50)	Yes	Beneficiary's account number
INTERMED_BNK_NAME	STRING(140)	No	Intermediary bank name
INTERMED_BNK_BIC	STRING(15)	No	Intermediary bank ID code
INTERMED_BNK_BIC_TYPE	STRING(8)	No	Type of intermediary bank ID code
INTERMED_BNK_COUNTRY_CODE	CHAR(3)	No	Intermediary bank country code
INTERMED_BNK_COUNTRY	STRING(40)	No	Intermediary bank country
INTERMED_BNK_CITY	STRING(60)	No	Intermediary bank city
INTERMED_BNK_ADDR	STRING(255)	Нет	Intermediary bank address
RCPT_BNK_NAME	STRING(140)	Yes	Beneficiary's bank name
RCPT_BNK_ACCOUNT	STRING(50)	No	Beneficiary's bank account number
RCPT_BNK_BIC	STRING(15)	No	Beneficiary's bank ID code
RCPT_BNK_BIC_TYPE	STRING(8)	No	Type of beneficiary's bank ID code
RCPT_BNK_COUNTRY_CODE	CHAR(3)	Yes	Beneficiary's bank country code
RCPT_BNK_COUNTRY	STRING(40)	Yes	Beneficiary's bank country
RCPT_BNK_CITY	STRING(60)	Yes	Beneficiary's bank city
RCPT_BNK_ADDR	STRING(255)	No	Beneficiary's bank address
RCPT_COUNTRY_CODE	CHAR(3)	Yes	Beneficiary's country code
RCPT_COUNTRY	STRING(40)	Yes	Beneficiary's country
RCPT_CITY	STRING(60)	Yes	Beneficiary's city
RCPT_ADDR	STRING(255)	Yes	Beneficiary's address

Figure 2.16. Fields description of the beneficiaries reference records import file

Example of import file of beneficiaries reference<sup>1</sup>:

Content-Type=ref/beneficiar

```

INTERMED_BNK_NAME=TORONTO DOMINION INVESTMENTS LTD
INTERMED_BNK_BIC=TODNGB21XXX
INTERMED_BNK_BIC_TYPE=SWIFT
INTERMED_BNK_COUNTRY_CODE=826
INTERMED_BNK_COUNTRY=UNITED KINGDOM
INTERMED_BNK_CITY=LONDON
INTERMED_BNK_ADDR=LONDON EC2M 1DB TRITON COURT 14-18 FINSBURY SQUARE
RCPT_BNK_NAME=BANCA POPOLARE COMMERCIO E INDUSTRIA SPA
RCPT_BNK_ACCOUNT=100327501
RCPT_BNK_BIC=POCIITM1028
RCPT_BNK_BIC_TYPE=SWIFT
RCPT_BNK_COUNTRY_CODE=380
RCPT_BNK_COUNTRY=ITALY
RCPT_BNK_CITY=MILANO
RCPT_BNK_ADDR=20135 MILANO VIA SPARTACO, 12
RCPT_NAME=Valio Investments
RCPT_ACCOUNT=5800267964
RCPT_COUNTRY_CODE=440
RCPT_COUNTRY=LITHUANIA
RCPT_CITY=VILNIUS
RCPT_ADDR=VILNIUS DIDZIOJI STREET 18/2

```

### Exchange rates import

To provide bank clients with exchange rates information, to create some currency documents there are some tools to import those data to the system. Exchange rates are imported to the iBank 2 UA DB from files in special formats. Current version of the iBank 2 UA system supports import of exchange rates distributed by NBU and own bank exchange rates also.

Issues considered below in the section are:

- File example with NBU exchange rates;
- The structure of import files of sale and purchase currency bank rates;
- Procedure of exchange rates (NBU and bank) import to the iBank 2 UA system.

#### **Attention!**

Availability of imported NBU exchange rates is required for exchange rates displaying in client's AWP's. If bank exchange rates were imported without NBU exchange rates, client's AWP's will not display bank exchange rates.

### File example with NBU exchange rates

Part of file #990h0bu.v01 containing NBU exchange rates:

```

26=01122004=01122004=01122004=30112004=1711=300001=02=000000033=#990H0BU.V01=      =
A=1=036=AUD=100=411.4185
A=1=826=GBP=100=1012.7179
A=1=031=AZM=10000=10.8246

```

<sup>1</sup>For one beneficiar.

A=1=974=BYR=10=0.0244  
 A=1=208=DKK=100=94.9640  
 A=1=840=USD=100=530.6200  
 A=1=233=EEK=100=45.0871

### Exchange rates import in iBank 2 format

Exchange rates import format is considered in this section. Bank exchange rates are imported in iBank 2 format. Fields description of bank exchange rates import file is illustrated at [figure 2.17](#).

Fields			
Name	Type	Required	Description
CURRENCY_DATE	DATE	Yes	Date of rate ("dd.mm.yyyy" format)
CODE	CHAR(3)	Yes	Currency letter code
SALE_RATE	DECIMAL(12,6)	No	Currency sale rate
BUY_RATE	DECIMAL(12,6)	No	Currency purchase rate

Figure 2.17. Fields of the bank exchange rates import file

In the given example there are two currencies imported: USD for two dates and EUR for one date.

Content-Type=ref/bank\_currency\_rates

CURRENCY\_DATE=10.08.2006  
 CODE=USD  
 SALE\_RATE=5.11  
 BUY\_RATE=5.15

CURRENCY\_DATE=10.08.2006  
 CODE=EUR  
 SALE\_RATE=6.72  
 BUY\_RATE=6.75

CURRENCY\_DATE=09.08.2006  
 CODE=USD  
 SALE\_RATE=5.12  
 BUY\_RATE=5.16

### Procedure of exchange rates import

Import procedure is performed by bank employee that has access to the folder of installed iBank 2 UA Application Server. System utility `load_rates` is used for NBU and bank exchange rates import. Utility `load_rates` seeks for NBU and bank exchange rates in a source folder. When finding any files containing exchange rates utility processes them and put into DB. If there are no any files in correct format utility finishes its work with an error.

Generally, procedure of exchange rates import into the iBank 2 UA system is similar for all OS. In this section will be considered procedure of import under Unix family OS (as the most used OS in banks).

Before import of exchange rates reference do the following:

1. Copy exchange rates files to the folder `/usr/local/iBank2UA/refs/rates/in`;
2. In batch file `/usr/local/iBank2UA/bin/load_rates.sh` specify path to the folder containing exchange rates files by editing string `RATES_DIR=${IBANK_HOME}/refs/rates/in`;

- Specify path to the folder of processed files archive as needed, by editing string  
ARCH\_RATES\_DIR=\$IBANK\_HOME/refs/rates/arch.

To start import of the exchange rates reference run batch file `/usr/local/iBank2UA/bin/load_rates.sh`. File `/usr/local/iBank2UA/log/rates.log`, containing procedure logs, will be formed. All processed files will be moved to the folder of processed files archive. If there is no need to save processed files in archive, comment out string `ARCH_RATES_DIR=$IBANK_HOME/refs/rates/arch` in batch file `load_rates.sh`.

Additional information about the iBank 2 UA system utilities and Application Server file structure you can find in **Файловая структура Сервера Приложения iBank 2 UA** document.

## Import files in IBIS format

Import files in IBIS format are text files formed by the following concept:

- file name is specified in `rddhmmN.NNN` format, where:
  - `r` — always Latin "r";
  - `dd` — two symbols to specify date (day) of file creation;
  - `hhmm` — four symbols to specify time<sup>1</sup> — hours and minutes of file creation;
  - `NNNN` — code of bank client (specified by bank administrator in **Внешний ID** (External ID) field).
- file contains set of strings that presents settlement documents;
- string consists of the fields, bounded with "." symbol;
- string is ended by symbols "carriage return" CR and "line feed" LF ('\n').

**Fields list** of the import files in IBIS format is given in table below:

Field number	Value type	Required	Field content
0	Integer (1)	No	Service field, value is always 0
1	Integer (2)	Yes	Payment document type: 1, 11
2	Integer (10)	Yes	Payment document number
3	Integer (8)	Yes	Payment document date in YYYYMMDD format
4	Integer (6)	Yes	Payer's bank MFO
5	Integer (6)	Yes	Recipient's bank MFO
6	Integer (14)	Yes	Payer's current account number
7	Integer (14)	Yes	Recipient's current account number
8	Integer (12)	Yes	Payment amount in kopecks
9	Integer (1)	No	Cash operation symbol (always 0)
10	String (40)	Yes	Recipient's name
12	String (160)	Yes	Payment details
13	Integer (8)	No	Date of rendering of service in DDMMYYYY format
14	Integer (1)	No	Acceptance type code: 1, 2, 3
15	Integer (3)	No	Payment code
16	Integer (1)	No	Transfer sign
17	Integer (14)	Yes	Funds recipient's EGRPOU
18	Integer (3)	No	Currency code

<sup>1</sup>Meaning of hours and minutes is defined by user, but don't forget that different files must have different names.

Payment document types:

Number	Name	Type	Payment code
1	Outgoing payment request	Credit	11
2	Payment order	Credit	01

## Import in client's AWP's in IBIS format

Current standard version of the iBank 2 UA system provides corporate clients with import in IBIS format of following documents:

- Hryvnia payment order;
- Outgoing payment request.

## The structure and examples of import files in IBIS format

### Hryvnia payment order import

Example of the import file (two hryvnia payment orders). File name r1403071.111.

0 · 1 · 610 · 20070213 · 300335 · 300335 · 26002780518831 · 26009453150541 · 34000 · 0 · ТОВ Альфа · →

Перевод денег согласно договору АК 513 · . . . . 2054484712 · .

0 · 1 · 611 · 20070213 · 300335 · 300335 · 26002780518831 · 26001234567890 · →

11570 · 0 · ПП Мамоза · Оплата услуг · . . . . 2234124298 · .

### Outgoing payment request import

Example of the import file (two outgoing payment requests) is given below. File name r1302071.111.

0 · 11 · 615 · 20070213 · 300335 · 300335 · 26002780518831 · 26009453150541 · 8400 · 0 · ТОВ Альфа · →

Оплата согласно договору АК 346 · . . . . 2054484712 · .

0 · 11 · 614 · 20070213 · 300335 · 300335 · 26002780518831 · 26001234567890 · →

64520 · 0 · ПП Мамоза · Оплата транспортных услуг · . . . . 2054484713 · .

## Chapter 3

# Export

### Export in iBank 2 format from client's AWP's

Reports and references available for export from the iBank 2 UA system are illustrated at [figure 3.1](#).

Module	Corporate clients service	Private clients service	Control clients service (FCC)
<b>Report (reference)</b>			
Employees reference *	yes	n/a**	yes
Statements	yes	yes***	yes
Current balances	n/a	n/a	yes
Turnover balance sheets	yes	n/a	yes
Exchange rates	yes	yes	yes

\* *Employees reference* export is available when client's bank supports salary project service.

\*\* n/a - This report or reference is not available in the current standard system version.

\*\*\* Statement of account is available; statement of card is not available.

Figure 3.1. Export from client's AWP's of the iBank 2 UA system

### Files of export in iBank 2 format

Files of export in iBank 2 format are files formed on the base of standard CSV format (Comma Separated Values). Files in CSV format are files formed as a table with fields names and values. There are two methods of fields values separation in CSV format:

- Using special separator-symbol: point (comma), semicolon, tabulation (symbol), space or another symbol;
- Using fields of fixed length.

More information about that format (with example files) you can find at <http://www.microsoft.com/Rus/Education/ClassServer/Admin/AppendixD.msp>

Files of export in iBank 2 format are available for viewing in Microsoft Excel or in any other text editor. Typical content of those files corresponds values, formatted as a table. Values order: each value in the column is separated by semicolon from value in the next column; new row begins at new string.

The structure of export files and example files are considered at [The structure and examples of export files in iBank 2 format](#) section.

## Features of export of fields containing ';' symbol and double quotes

During export of fields containing separator-symbol «;» (semicolon) and double quotes, system performs:

1. Fields containing symbol that is used in CSV format as separator are bounded with double quotes on either side.
2. Fields containing double quotes are bounded with double quotes on either side. At that target double quotes are bounded with double quotes on either side too.

There are some examples at [figure 3.2](#).

Special symbols	Field in screen form	Field in file of export
Field doesn't contain special symbols	Заборгованість по коду 884	Заборгованість по коду 884
Field contains a couple of double quotes	Заборгованість по коду "884"	"Заборгованість по коду ""884""
Field contains separator-symbol ";"	Заборгованість по коду; 884	"Заборгованість по коду; 884"
Field contains a couple of double quotes and ";"	Заборгованість по коду; "884"	"Заборгованість по коду; ""884""

Figure 3.2. Examples of the fields of export files containing special symbols

## The structure and examples of export files in iBank 2 format

### Export of corporate clients' statements

File containing exported corporate clients' statements ([figure 3.3](#)) contains more fields (some of them have different names) than file with private client's exported statements. **Statements** report functional allows to get statements of one or several accounts from the same MFO simultaneously. Accounts can be in different currencies at that.

Internal structure of the file containing exported statements in corporate and control clients (FCC) AWP is the *same*. File containing two exported statements is illustrated at [figure 3.3](#) (string is divided into two strings for viewing convenience).

EGRPOU	MFO	Account	Currency	Transaction date	Transaction code	Bank MFO	Bank name	Correspondent's account
76345670	300335	26007460475147	UAH	08.06.2005 10:54		300335	"АКЦ.ПОШТОВО-ПЕНС. БАНК ""АВАЛЬ"" М.КИЇВ"	26007647985609
76345670	300335	26007460475147	UAH	09.06.2005 12:00		300335	"АКЦ.ПОШТОВО-ПЕНС. БАНК ""АВАЛЬ"" М.КИЇВ"	26007647985609

  

Correspondent's EGRPOU	Correspondent	Document number	Document date	Debit	Credit	Payment details	Hryvnia cover
76655689	"ЧП ""Агросервис""	11	08.06.2005	200.20		"Оплата за заборгованість по коду ""884""	0.00
76655689	"ЧП ""Агросервис""	12	09.06.2005		500.56	Оплата за услуги по договору №56	0.00

Figure 3.3. Example of the hryvnia statement exported to the file

Fields names list of exported file:

- Client's EGRPOU (EGRPOU);
- Client's bank MFO (MFO);

- Client's account (**Account**);
- Account currency (**Currency**);
- Transaction date;
- Transaction code;
- Correspondent's bank MFO (**Bank MFO**);
- Correspondent's bank name (**Bank name**);
- Correspondent's account (**Correspondent's account**);
- Correspondent's EGRPOU (**Correspondent's EGRPOU**);
- Correspondent's name (**Correspondent**);
- Document number;
- Document date;
- Amount of the debit in terms of account currency (**Debit**). The value is zero if the field is blank;
- Amount of the credit in terms of account currency (**Credit**). The value is zero if the field is blank;
- Payment details;
- Transaction amount in terms of hryvnias (**Hryvnia cover**).

### Turnover balance sheets export

The structure of files containing exported turnover balance sheets is different for corporate clients AWP and control clients AWP. In Internet — and PC — Banking for corporate clients turnover balance sheet corresponds detailed sheet of several accounts. In Financial control centre turnover balance sheet corresponds consolidated statement of all accounts of ancillary organizations.

### Export of turnover balance sheets in corporate clients AWP

Turnover balance sheets can be received and exported for one or several accounts<sup>1</sup> simultaneously. Accounts can be of the different currencies at that.

File of export containing turnover balance sheets for two dates is illustrated at [figure 3.4](#).

Overturn date	Account	Currency	Incoming balance	Hryvnia cover	Debit overturn	Hryvnia cover	Credit overturn	Hryvnia cover	Outgoing balance	Hryvnia cover
08.06.2005 00:00	26007460475147	UAH	6554.35	0.00	200.20	0.00	0.00	0.00	6354.15	0.00
09.06.2005 00:00	26007460475147	UAH	6354.15	0.00	0.00	0.00	500.56	0.00	6854.71	0.00

Figure 3.4. Example of exported hryvnia turnover balance sheets

Fields names list:

- Turnover date (**Overturn date**);
- Turnover account (**Account**);
- Account currency (**Currency**);
- Incoming balance in terms of account currency on specified date (**Incoming balance**);
- Amount of incoming balance in terms of hryvnias (**Hryvnia cover**);

<sup>1</sup>Of the same MFO.

- Total turnover of debit per diem in account currency (Debit overturn);
- Total turnover of debit per diem in terms of hryvnias (Hryvnia cover);
- Total turnover of credit per diem in account currency (Credit overturn);
- Total turnover of credit per diem in terms of hryvnias (Hryvnia cover);
- Outgoing balance in account currency on specified date (Outgoing balance);
- Amount of outgoing balance in terms of hryvnias (Hryvnia cover).

### Turnovers export in FCC AWP

Content of turnovers export file from FCC AWP is illustrated at [figure 3.5](#). File contains information about those accounts of two ancillary organizations that were involved in funds transfer in specified period. **Turnover balance sheet** report provides clients with information about both currency and hryvnia accounts.

Client	Bank	Account	Currency	Incoming balance	Debit overturn	Credit overturn	Outgoing balance
"ТОВ ""Демонстраційний клієнт""	300335	26004535000354	UAH	10.00	20.22	40.44	30.22
"ТОВ ""Демонстраційний клієнт""	300335	26005675548441	USD	20.00	40.44	20.22	-0.22
"ТОВ ""БІФІТ""	300335	26008650383807	USD	635.32	100.00	400.00	935.32
"ТОВ ""БІФІТ""	300335	26002465400005	UAH	6554.35	200.20	500.56	6854.71

Figure 3.5. Content of turnovers export file

Fields description:

- Corporate client's name (Client);
- Bank MFO where account is opened (Bank);
- Client's account (Account);
- Account currency (Currency);
- Incoming balance in account currency on the period beginning (Incoming balance);
- Total debit turnover in account currency over period of time (Debit overturn);
- Total credit turnover in account currency over period of time (Credit overturn);
- Outgoing balance in account currency on the period ending (Outgoing balance).

### Employees reference export (employees SCA reference)

Employees reference is exported from corporate and control clients from electronic form of salary sheet. More information about working with salary project you can find in the documentation ***Зарплатний проект. Руководство пользователя.***

Exported employees reference contains following fields:

- Employees card account (Card account);
- Employees full name (Name in full);
- Employees ID code (INN).

Content of typical exported employees reference<sup>1</sup> in iBank 2 format is illustrated at [figure 3.6](#).

<sup>1</sup>SCA for 10 employees in this example.

Card account	Name in full	INN
2625164854889	Шлопоченко Мария Васильевна	1234567899
2625164854888	Воливач Евгений Петрович	1234567898
2625164854887	Шегедина Анна Витальевна	1234567897
2625164854886	Жадан Роман Викторович	1234567896
2625164854885	Колодачна Андрей Владимирович	1234567895
2625164854884	Зерний Ольга Андреевна	1234567894
2625164854883	Якушев Яков Петрович	1234567893
2625164854882	Коромин Егор Сергеевич	1234567892
2625164854810	Скоров Андрей Андреевич	1234567880
2625164854881	Белас Евгений Игоревич	1234567891

Figure 3.6. Content of exported employees reference in iBank 2 format

### Exchange rates export

The structure of exported exchange rates file in private and corporate clients AWP is the *same*. Exported file of exchange rates over several dates is illustrated at [figure 3.7](#).

Date	Currency	Code	NBU Rate	Buy	Sell
10.06.2007	Доллар США	USD	532.123400/100	532.100000	532.200000
10.06.2007	Євро	EUR	632.123400/100	632.500000	632.800000
10.06.2007	Російський карбованець	RUB	18.342100/100	18.340000	18.400000
11.06.2007	Євро	EUR	631.123400/100	632.550000	632.780000
11.06.2007	Російський карбованець	RUB	17.342100/100	18.380000	18.470000
14.06.2007	Євро	EUR	630.123400/100	631.550000	631.780000

Figure 3.7. Example of exported exchange rates

Fields names:

- Date of exchange rates (Date);
- Currency name (Currency);
- International currency code in 3 symbols (Code);
- Official NBU rate (NBU rate);
- Intrabank purchase rate of currency unit (Buy);
- Intrabank sale rate of currency unit (Sell).

### Current balances export

Information about accounts of two ancillary organizations is illustrated at [figure 3.8](#). **Current balances** report in FCC AWP provides control clients with consolidated information about all accounts of all ancillary organizations, even if there were no any funds transfers.

File of exported current balances contains following fields:

- Corporate client's name (Client);
- Bank MFO where account is opened (Bank);
- Corporate client's account (Account);

Client	Bank	Account	Currency	Balance	Date
"ТОВ ""БІФІТ""	300335	26007460475147	UAH	6854.71	06.07.2007 12:09
"ТОВ ""БІФІТ""	300335	26004108505855	USD	935.32	07.07.2007 11:49
"ТОВ ""БІФІТ""	300335	26000656775487	UAH	0.00	09.07.2007 15:24
"ТОВ ""БІФІТ""	300335	26008569068996	RUB	535.50	06.07.2007 09:50
"ТОВ ""БІФІТ""	300335	26009757847564	EUR	2345.20	08.07.2007 12:27
"ТОВ ""БІФІТ""	311528	26003886558708	UAH	0.00	06.07.2007 14:52
"ТОВ ""Демоклієнт""	300335	26008800056634	UAH	30.22	06.07.2007 17:40
"ТОВ ""Демоклієнт""	300335	26005665645774	UAH	0.00	08.07.2007 15:05
"ТОВ ""Демоклієнт""	311528	26000006589055	UAH	0.00	06.07.2007 17:01
"ТОВ ""Демоклієнт""	300335	26003690400086	USD	-0.22	07.07.2007 10:45

Figure 3.8. Export of accounts current balances

- Currency account (Currency);
- Account balance (Balance);
- Date and time of the balance (Date).

### Export of private clients' statements of accounts

Exported statements of accounts<sup>1</sup> of the private client is illustrated [figure 3.9](#) (string is divided into two strings for viewing convenience).

Account	Transaction date	Transaction code	Bank MFO	Bank name	Correspondent's INN	Correspondent's account
26008434464354	10.05.2007		300335	"АКЦ.ПОШТОВО-ПЕНС. БАНК ""АВАЛЬ"" М.КИЇВ"	76655689	26000167506747
26008434464354	10.05.2007		312613	"ЗАКАРПАТСЬКА ОБЛАСНА ФАТ ""УФГ""	21085791	26005854848982
26008434464354	12.05.2007		300335	"АКЦ.ПОШТОВО-ПЕНС. БАНК ""АВАЛЬ"" М.КИЇВ"	76655689	26000167506747

  

Correspondent	Document number	Document date	Debit	Credit	Note
Молокозавод №4	12	10.05.2007	410.48		Поставки сметаны по договору от 10.04.2006
"ООО ""Акация""	466	10.05.2007		1005.00	Поставки метанола по договору №152
Молокозавод №4	16	12.05.2007	155.00		Поставки сметаны по договору от 10.04.2006

Figure 3.9. Exported statements of account of the private client

Fields of exported file:

- Used account (Account);
- Transaction date;
- Transaction code;
- Correspondent's bank MFO (Bank MFO);

<sup>1</sup>There are 3 transactions in the given file.

- Correspondent's bank name (Bank name);
- Correspondent's EGRPOU or INN (Correspondent's INN);
- Correspondent's account (Correspondent's account);
- Correspondent's name (Correspondent);
- Document number;
- Document date;
- Amount of the debit (Debit). The value is zero if the field is blank;
- Amount of the credit (Credit). The value is zero if the field is blank;
- Payment details (Note).

Private clients during one operation can receive and export statement of single account only.

## The structure and examples of export files in Profix format

### Features of statements export

- Statements are exported in file named `export.dbf` on default. Client is unable to rename export file. New export rewrites that file;
- Cp-1125 coding is used;
- Hryvnia equivalent of payment amount for currency statements is not exported;
- Informational statements are not exported;
- Fields names are in upper case always;
- The structure of files with exported statements in Profix format is the same in all corporate clients AWP's.

### Corporate clients' statements export

The structure of corporate clients' statements export file in Profix format is illustrated at [figure 3.10](#). Content of exported file is illustrated at [figure 3.11](#).

## The structure and examples of export files in IBIS format

Current version of the iBank 2 UA system supports corporate clients' statements export in IBIS format. Statements are exported in IBIS format with incoming payment requests of the given account over specified time period. There are some distinctions between export files of hryvnia and currency accounts.

The file name is defined by date and time of account transaction. If file contains information about statements over *some* days then name of the file with hryvnia accounts is `vYYMMDD.hmm`, name of the file with currency accounts is `wYYMMDD.hmm`, where:

- `v` — constant prefix of the file containing statements of hryvnia accounts;
- `w` — constant prefix of the file containing statements of currency accounts;
- `YYMMDD` — date of account transaction (YY — year, MM — month, DD — day);
- `h` — hour of account transaction. Symbols 0-9 and A-N can be used, at that A corresponds to 10 hours, B - 11, ..., N - 23;
- `mm` — minutes of account transaction.

Fields		
Name	Type	Description
MFO	VARCHAR(15)	Payer's bank MFO
MFO_NM	VARCHAR(50)	Payer's bank name
KL_NM	VARCHAR(50)	Payer's name
KL_OKP	VARCHAR(15)	Payer's EGRPOU
KL_CHK	VARCHAR(35)	Payer's current account
CUR_ID	NUMERIC(5, 0)	Account currency ID (in letter format "XXX")
MFO_K	VARCHAR(15)	Recipient's bank MFO
MFO_NM_K	VARCHAR(50)	Recipient's bank name
KL_NM_K	VARCHAR(50)	Recipient's name
KL_OKP_K	VARCHAR(15)	Recipient's EGRPOU
CL_CHK_K	VARCHAR(35)	Recipient's current account
ND	VARCHAR(15)	Document number
DK	NUMERIC(1, 0)	Debit or credit payment sign (1 - debit, 2 - credit)
VOB	NUMERIC(5, 0)	Service field (default value 1)
S	NUMERIC(19, 2)	Payment amount
DATA	DATE(8)	Transaction date (in DD/MM/YY format, time is not specified)
DATA_S	DATE(8)	Transaction date (in DD/MM/YY format, time is specified)
TIME_S	VARCHAR(4)	Transaction time (time in OOMM format)
ADATEOPL	DATE(8)	Document date (date in DD/MM/YY format)
N_P	VARCHAR(160)	Payment details

Figure 3.10. Fields of exported corporate clients' statement

MFO	MFO_NM	KL_NM	KL_OKP	KL_CHK	CUR_ID	MFO_K
300335	АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ	ТОВ "БІФІТ"	980300335	26000550441823	840	300335
300335	АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ	ТОВ "БІФІТ"	980300335	26007007143993	980	311528

  

MFO_NM_K	KL_NM_K	KL_OKP_K	KL_CHK_K	ND	DK	VOB
АКЦ.ПОШТОВО-ПЕНС. БАНК "АВАЛЬ" М.КИЇВ	ООО "Альянс"	2536894123	26009277100909	23	1	1
ЖИТОМИРСЬКА ОБЛДИРЕКЦІЯ АППБ "АВАЛЬ"	ЧП "Агросервіс"	7596325310	26005581310003	11	1	1

  

S	DATA	DATA_S	TIME_S	ADATEOPL	N_P
100,00	06.06.2005	06.06.2005	1054	06.06.2005	Оплата за услуги по договору №125
200,20	08.06.2005	08.06.200	1455	08.06.2005	Оплата за заборгованість

Figure 3.11. Part of exported file in Profix format

If file contains statements of hryvnia accounts over single day, then file name is vYYMMDD.ZZZ, for currency accounts — wYYMMDD.ZZZ, where:

- v — constant prefix of the file containing statements of hryvnia accounts;
- w — constant prefix of the file containing statements of currency accounts;
- YYMMDD — date of statements that are in the file (YY — year, MM — month, DD — day);
- ZZZ — constant extension of the file of specified content.

Transaction currency code is specified in **digital** type when currency accounts statements are exported; currency code is not specified in the case of hryvnia accounts statements export.

Export file consists of indefinite number of strings, separated by 0x0D 0x0A symbols, the minimum number of strings is 1.

All strings besides described fields have zero classification field 1 symbol long:

0 — **Turnover balance string** contains information about client's account and amounts of debit or credit;

1 — **Payment string** contains detailed information about account transaction;

2 — **Payment request**. This string will be in the export file if client has incoming payment request over the same date as a formed statement. The string provides client with information about incoming payment request.

**Turnover balance string** consists of the following fields:

Field № in currency statements	Field № in hryvnia statements	Width	Example	Function
1	1	14	26001122334455	Account number. If account number consists of less than 14 symbols, it is left justified and it is filled by spaces to the end of the field
2	—	4	0840	Currency digital code
3	2	8	20060609	Date of described account funds flow
4	3	8	20060608	Date of previous account funds flow
5*	4*	19	336720	Balance in terms of hryvnias at the beginning of the day
6	—	19	63532	Balance in terms of currency at the beginning of the day
7	5	1	+ or -	Balance type: + — passive - — active
8	6	6	1	Number of the documents involved in debit
9*	7*	19	53000	Amount of debit turnovers (documents involved in debit) in terms of hryvnias
10	—	19	10000	Amount of debit turnovers (documents involved in debit) in terms of currency
11	8	6	2	Number of the documents involved in credit
12*	9*	19	0	Amount of credit turnovers (documents involved in credit) in terms of hryvnias
13	—	19	0	Amount of credit turnovers (documents involved in credit) in terms of currency
14*	10*	19	283720	Balance in terms of hryvnias at the end of the day
15	—	19	53532	Balance in terms of currency at the end of the day
16	11	1	+ or -	Balance type: + — passive - — active

File with hryvnia statements consists of 116 symbols; file with currency statements consists of 199 symbols.

\* — all amounts are positive and are specified in copecks without any separators.

**Payment string** consists of the following fields:

Field № in currency statements	Field № in hryvnia statements	Width	Example	Function
1	1	1	+ or -	Credit payment — + Debit payment — -
2	2	9	300335	Payment sender bank A MFO
3	3	14	26001122334455	Current account of the bank A client, if account number consists of less than 14 symbols, it is left justified and it is filled by spaces to the end of the field
4	4	14	2536894123	EGRPOU code of the bank A client
5	5	40	ООО "Альянс"	Bank A client's name
6	6	9	300335	Payment recipient bank B MFO
7	7	14	26001122334456	Current account of the bank B client, if account number consists of less than 14 symbols, it is left justified and it is filled by spaces to the end of the field
8	8	14	3434545443	EGRPOU code of bank B client
9	9	40	ПП "Альфа"	Bank B client's name
10	10	2	01	Payment type (content isn't regulated by NBU)
11	11	10	24	Payment operation number
12	12	19	212000	Amount of the payment in terms of hryvnias
13	—	19	40000	Amount of the payment in terms of currency
14*	13*	8	20060610	Date of sending from the bank A
15*	14*	4	1740	Time of sending from the bank A
16*	15*	8	20060611	Date of receiving by the bank B
17*	16*	4	0945	Time of receiving by the bank B
18	17	255	Оплата деталей по договору №158	Payment details

\* — not required reference fields.

**Payment request** contains payment request, where client asks another client (or client is asked by another client) to pay some services. Those payments are informational and are not passed through account.

Payment request consists of the same fields as a payment string but the meaning of the first field is changed:

- + payment request addressed to the client;
- - client's payment request.

### Corporate clients' statements export

Example of export file of hryvnia statement dated 25.12.2006 is given below. String is divided into several strings for viewing convenience. File name is v061225.zzz.

*1-st string of export file:*

```
0260044584212472006122500000000          9000000+
1           10050      0           0           8989950+
```

*2-nd string of export file:*

1- 30033526004458421247 3434545443T0B "БІФІТ"  
3003353483334 1234567890000 "Получатель" 01 112  
1005020061225 20061225 оплата за услуги транспортировки

*3-rd string of export file:*

2+ 30002326006458954205 2102102102ЧП Бета  
30033526004458421247 6345645645T0B "БІФІТ" 01 139  
3500020061225 перевод согласно договору №423

## Chapter 4

# Sources of additional information

Additional information about import/export formats and system in tote you can find in the following documents:

- **Общая информация о системе iBank 2 UA** (general information about iBank 2 UA e-banking system)
- **Формат импорта-экспорта данных «БББ»** (detailed information about import/export in «BBB» format)
- **Форматы импорта-экспорта данных «УСБ» и «УСБ-2»** (detailed information about import/export in «USB» and «USB-2» formats)
- **Формат импорта-экспорта данных «DBF»** (detailed information about import/export in «DBF» format)
- **Форматы импорта-экспорта данных «банк-клиент» и «BM RS»** (detailed information about import/export in «bank-client» and «BM RS» formats)

**Footnote:** \_\_\_\_\_

If you have any suggestions about documentation, please contact us via e-mail [support@bifit.com.ua](mailto:support@bifit.com.ua)

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