

Data format for PCL BID transactions

Version 1.13

File name:

File name for export from WinADO DB

Transactions_tid_yyyy-mm-ddThhmmss.xml – in case “one file for one receipt”

or

Transactions_yyyy-mm-dd.xml – in case “one file for one day” or “one file for more days”

or

Transactions_yyyy-mm-ddThhmmss.xml – in case “all new data”

File name for import to WinADO DB

Transactions_*.xml

where: **tid** – TerminalID

yyyy-mm-ddThh:mm:ss – date and time for open transaction/ticket

yyyy-mm-dd – date for open transaction/ticket

yyyy – year

mm – month

dd – day

hh – hours

mm – minutes

ss – seconds

Notes:

One file may generally include more elements <Receipt>

It means – for export file:

- one export file includes data from one terminal and one receipt
- or
- one export file includes data from all terminals and one day

It means – for import file:

- one export file includes data from one or more terminals and one or more receipts

File compression method:

GZIP (files on the FTP server are with the file extension *.tgz or *.zip).

File example:

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<Receipts ImportType="x" Created="yyyy-mm-ddThh:mm:ss" FormatType="x">
```

```
<Receipt >
```

```
  <ReceiptData ReceiptType="x" ReceiptID="xxx" CompanyID="xxx" TerminalID="xxx" WorkPlace="xxx"
  AppVersion="x-yy-zzz" StatVersion="x-yy-zzz" ReceiptStartDateTime="yyyy-mm-ddThh:mm:ss"/>
```

```
  <Transaction>
```

```
    <TransactionData TransactionID="xxx" Price="xx.yy" FullPrice="xx.yy" CurrencyCode="xxx"
    VAT="xxx.xx" VATRate="xx" PayMethodID="x" TransactionType="xxx" TariffGroupID="xxx"
```

```
    TransactionDateTime="yyyy-mm-ddThh:mm:ss" Cancel="x" Persons="x" TicketID="x" ApplicationID="x"
```

```
    BonusType="x"/>
```

```

    <CardData CardID="xxx" CardLogicalNumber="xxx" CardType="x" IssuerID="xxx"
BalanceBefore="x.yy" BalanceAfter="x.yy" PurseCounter="xxx" ValidatorID="xxx" EventID="xxx" CityCard="x"
BankCard="x"/>
    <TransportData>
        <Product TariffZone="xxx" ProductID="xxx" ProductAmount="xxx"/>
        <PrepaidTicket PrepaidTicketID="xxx" PrepaidTicketType="x" ValidFrom="yyyy-mm-dd"
ValidTo="yyyy-mm-dd" CityCode="x"/>
        <Zones>
            <Zone ZoneNumber="xxx"/>
            ...
            <Zone ... ./>
        </Zones>
    </TransportData>
</Transaction>
<Transaction> ... </Transaction>
...
<Transaction> ... </Transaction>
</Receipt>
<Receipt> ... </Receipt>
...
<Receipt> ... </Receipt>
</Receipts>

```

Comment:

This example contains only basic items. It is possible to add new attributes in the future.

Items descriptions :

M=mandatory

O=optional

Generally mandatory attributes are fulfilled only if it makes sense, for example card attributes only if card is used

Mandatory/Optional for export file from Database means that mandatory attributes are added in every case and optional attributes are added only for non zero value.

Mandatory/Optional for import file to Database means that mandatory attributes are needed for successful DB update and optional attributes for reports (missing attribute in report for missing attribute in import file)

Data types

char	1 byte
short	2 byte
int	4 byte
bigint	8 byte
string	n-byte
float	x.yf (field with x characters and y decimal places)

Receipts	tag – group of receipts – M
ImportType	import type to Database – char (value 1-3) – O
	1=add receipt
Created	file create date and time – ISO 8601 – O
FormatType	xml format type – O
	0=not defined (no trip data – Presale)
Receipt	tag – data of one receipt – one day and one vending machine transactions – M
ReceiptData	tag – basic receipt data – M
ReceiptType	statistic type – char (value 1-5) – M
	1=bus/train

	<ul style="list-style-type: none"> 2=pre-sale (internal – ticket office) 3=vending machine (tickets for transport) 4=POS (ePurse payment) 5=pre-sale (external – kiosk)
ReceiptID	receipt order number within the given terminal – int – M it is unique for given terminal
CompanyID	company number (identifier) – short – M
TerminalID	terminal producer number (identifier) – int – M
WorkPlace	workplace number (identifier) – int – O it is used for separate transactions made in different pre-sale workplaces
AppVersion	application version – string (length 1-15 byte) – O
StatVersion	statistic version – string (length 1-15 byte) – O
ReceiptStartDateTime	date and time stamp of the receipt beginning – ISO 8601 – M
Transaction	tag – transaction (ticket) data – M
TransactionData	tag – transaction data – M
TransactionID	transaction order number within the given terminal – int – M
Price	value added to the epurse (positive value) – float (format 4.2f-10.2f) – M
FullPrice	calculated full price for discount ticket – float (format 4.2f-10.2f) – O
CurrencyCode	currency code (identifier) – ISO 4217 EUR – Eurozone
VAT	transaction VAT price – float (format 4.2f-10.2f) – O
VATRate	transaction VAT rate (level) – char (value 0-99) – O
PayMethodID	payment type (identifier) – char (value 0-12) – M 0=cash <ul style="list-style-type: none"> 1=smart card 2=payment card 3=bank transfer 5=paper ticket (validator) 6=internet sale – event pay 7=prepaid coupon – activation 8=change recount (halierove vyrovnanie) 9=internet sale – event write 11=one way ticket – paper coupon 12=baggage ticket – paper label
TransactionType	transaction type (identifier) – char (value 1-13) – M 0=not defined type 1=card sale 2=deposit 3=single ticket – cash payment 4=single ticket – epurse payment 5=prepaid ticket, sale, card carrier, cash payment 6=prepaid ticket, sale, card carrier, epurse payment 7=prepaid ticket, sale, paper carrier, cash payment 8=prepaid ticket, sale, paper carrier, epurse payment 9=prepaid ticket, journey/checkin, card carrier 10=prepaid ticket, journey/checkin, paper carrier 11=trip ticket, sale, card carrier, cash payment 12=trip ticket, sale, card carrier, epurse payment 13=trip ticket, journey/checkin, card carrier
TariffGroupID	tariff group number (identifier) – char – O
TransactionDateTime	transaction date and time stamp – ISO 8601 – M
Cancel	transaction cancel – char (value 1) – O 1=cancel (only one allowed value)
	tag Cancel change plus sign to minus sign (minus sign to plus sign) in Price and VAT value
Persons	number of persons for one ticket – char (value 1-999) – O
TicketID	
AplicationID	
BonusType	type of bonus discount – char (value 1-5) – O

0=standard price

1=resident

2=tourist

3, 4, 5=reserve

CardData	tag – card data of one transaction – O
CardID	card SNR/UID number (identifier) – bigint – M
CardLogicalNumber	card logical number (virtual card identifier) – bigint – O
CardType	card type (identifier) – char – M
IssuerID	card issuer number (identifier) – short – M
BalanceBefore	card balance before transaction – float (format 4.2f-10.2f) – O
BalanceAfter	card balance after transaction – float (format 4.2f-10.2f) – M
PurseCounter	purse transaction counter – int – O
ValidatorID	validator number (identifier) – int – O
EventID	event identifier from application “internet sale” – char – 0 event stand for “transaction was paid, it is request to execute” (PayMethodID=6) event stand for “transaction was executed” (PayMethodID=9)
CityCard	city card – char (value 1) – O 1=city card (only one allowed value)
BankCard	bank card – char (value 1) – O 1=bank card (only one allowed value)
TransportData	tag – ticket transport data – O
TariffZone	tariff zone number (identifier) – char (value 0-99) – O
ProductID	product number (identifier) – short (value 0-999) – M
ProductAmount	product amount – short (value 0-999) – M
PrepaidTicket	tag – prepaid ticket data – O
PrepaidTicketID	prepaid ticket counter (identifier – together with SNR) – from the card – int – O
PrepaidTicketType	prepaid ticket type (identifier) – from tariff system – char (value 1-15) – O 3=prepaid ticket for city transport 8=prepaid ticket for zones 10=prepaid ticket for stop segments 13=prepaid ticket for lines 14=prepaid ticket for zones
ValidFrom	prepaid ticket start of validity – date – M
ValidTo	prepaid ticket end of validity – date – M
CityCode	city identifier, it defines City where prepaid ticket is valid – uchar (value 0-255) – O
Zones	tag – zones data – O
Zone	tag – zone data – M
ZoneNumber	zone number (identifier) – short (value 0-999) – M
FinalAccounts	tag – final accounts data – O
FinalAccount	tag – final account data – O
PayMethodID	payment type (identifier) – char (value 0-9) – M
CurrencyCode	currency code (identifier) – ISO 4217– M
Product	tag – sales products data – M
ProductID	product number (identifier) – short (value 0-999) – M
ProductAmount	product amount – int – M
ProductSum	product sum – float (format 4.2f-10.2f) – M