eVIR - C-Rent communication

Main goal: Create invoices based on the rental data from C-Rent

eVIR system access

- Test system URL: https://hertz.evir.hu/proba-evir/
  - User/Pass: (you got via email)
  - Start page: list of the received records
- API call:
  - URL: https://hertz.evir.hu/proba-evir/cgi-bin/index.cgi
  - Function (dok key): `hertz_crent_invoice_felvesz`
  - Authentication token: (you got via email)

API communication method

API Communication can be a single JSON object via POST method:

- URL: `https://hertz.evir.hu/proba-evir/cgi-bin/index.cgi`
- method: POST
- content-type: text/json or application/json

The posted content:

```
  {
    "token":".....",
    "dok":"hertz_crent_invoice_felvesz",
    "invoice":{
      "Partner":{
        ...
      },
      ...
    }
  }
```

The embedded JSON data structure of field `invoice` is detailed below.

Return values

The return value of the successful C-Rent → eVIR data transfer must be a JSON data structure in the following format:

```
[
  {
    "status":"OK",
    "invoice_id":9,
    .... (other elements)
  }
]
```

If eVIR could store the data then the return value contains the followings:

- „status” key contains „OK” value.
- „invoice_id” contains the internal ID of the transferred invoice data.

In case of missing „status” key with „OK” value, or the result is not a JSON object, then it means error, the data is not stored.

The structure may have additional fields.

Invoice JSON data structure

Example

```
{
  "Partner":{
    "Id": 183409,
    "Name": "BC.HU Kft.",
    "Type": "COMPANY",
    "TaxNumber": "23882991-2-42",
    "Address": {
      "Country": "HU",
      "PostalCode": "1155",
      "City": "Budapest",
      "StreetName": "Wysocki",
      "PublicPlaceCategory": "utca",
      "Number": "3"
    }
  },
  "Payments": [
    {
      "Id": "00600",
      "Method": "VIS",
      "Value": 127
    }
  ],
  "PaymentDate": "2021-06-31",
  "DeliveryDate": "2021-06-15",
  "GrossValue": 127,
  "Currency": "EUR",
  "ExchangeRate": 348.48,
  "Language": "HU",
  "Comment": "Example invoice",
  "InvoiceAppearance": "PAPER",
  "InvoiceLines": [
    {
      "Article": {
        "ArticleNumber": "HTZHU-28",
        "Description": "Renting a car",
        "UnitOfMeasure": "db",
        "Type": "SERVICE",
        "Vat": "27"
        "LedgerAccount": "93130",
      },
      "Quantity": 1,
```

```
      "NetValue": 100,
      "Comment": "Example comment"
    }
  ],
  "Contract": {
    "ContractNumber": "76999987",
    "ReservationNumber": "1278954765",
    "OfficeCode": "HUBUD14",
    "Cost": "54000",
    "Events": [
      {
        "PlateNumber": "ABC-123",
          "CarModel": "Opel",
          "CarCategory": "C",
          "CheckOut": {
            "OfficeCode": "HUBUD14",
            "Date": "2021-06-13",
            "Time": "09:35",
            "Km": 19975
          },
          "CheckIn":{
            "OfficeCode": "HUBUD14",
            "Date": "2021-06-14",
            "Time": "15:50",
            "Km": 21560
          },
          "PlannedKm": 1500
        }
      ],
      "Drivers":[
        {
          "Name": "Teszt Elek",
          "Email": "test@example.com"
        },
        {
          "Name": "Teszt Elekné"
        }
      ]
  }
}
```

Invoice Head

Fieldname	Datatype	Constraints	Description	Examples
Partner	partner object	mandatory	Invoice is issued to this parnter	
Payments	Array of payment objects	1 or more elements mandatory		
PaymentDate	date	Should not be less than current date		2021-08-31
DeliveryDate	date			2021-08-15
GrossValue	number		Gross value calculated from lines, VAT included	6337
Currency	currency			EUR

Fieldname	Datatype	Constraints	Description	Examples
ExchangeRate	number	If currency is HUF then this value must be 1.00	1 unit of the above currency is equivalent to X HUF	348.48
Language	language		The language of the invoice	EN
Comment	text	-	Free text, copied into comment of invoice	
InvoiceId	text	-	unique id of the invoice RE*-1 GS*-1 RE*-2 ...	RE769999876-1
InvoiceAppearance	enum	Currently only allowed value is 'PAPER'	onleszamla 2.3.5.	PAPER
InvoiceLines	Array of invoice lines			
Contract	contract object			

Invoice Line

Fieldname	Datatype	Constraints	Description	Examples
Article	article object			
Quantity	number		The quantity of the article	1
NetValue	number		The unit price of the article	4990.00
Comment	text		Comment for the invoice line	

Partner object

fieldname	Datatype	Constraints	Description	Examples
Id	Number	Positive integer, Mandatory, not changing over time for the same partner	Unique key	1025
Name	text	90 character	The name of the partner	Example Ltd.
Type	enum	PERSON or COMPANY	The type of the partner.	COMPANY
TaxNumber	tax number		Hungarian domestic tax number	12345678-4-23
VatGroupMembership	tax number		Hungarian VAT group membership	98765432-5-23
CommunityVatNumber	text	20 character	Community vat number	DE12345678
ThirdStateTaxId	text	20 character	Tax id outside of EU	
Address	address object		Address	

Address object

fieldname	Datatype	Constraints	Description	Examples
Country	country	Mandatory	Address	HU
PostalCode	text	10 character, mandatory	Postal code	2220
City	text	40 character, mandatory	City	Vecsés
StreetName	text	60 character, mandatory	Street name	Kossuth Lajos
PublicPlaceCategory	text	40 character	The category of the Hungarian public place (eg. street, avenue, square)	utca
Number	text	20 character		1
Building	text	40 character		
Staircase	text	20 character		
Floor	text	20 character		
Door	text	20 character		

Article object

fieldname	Datatype	Constraints	Description	Examples
ArticleNumber	text	20 character	Uniqe identifier of the article in the eVIR	HTZHU-28
Description	text	512 character	Description of the article	Car renting
UnitOfMeasure	text	10 character	Unit of measure, existing in the eVIR	db
Type	enum	Only supported value: SERVICE		SERVICE
Vat	vat type		Vat code	27
LedgerAccount	text	10 number	Ledger account number	93130

Payment object

fieldname	Datatype	Constraints	Description	Examples
Id	text	numbers	Payment ID for DKS	00600
Method	text		must exist in eVIR see table below	VIS
Value	number		amount paid	127
CardNumber	text		card number	???
AuthorizationCode	text		authorization code	???

Vat type

Vat type is a text value, maximum 20 character.

Value	Description	Example value	Meaning
Integer	Vat rate is X %	27	27% VAT
Text	Vat rate is 0 %, Code expresses the reason of 0% VAT according to eVIR	TAM	See: onlineszamla 2.2.3.2.1.

Contract object

fieldname	Datatype	Constraints	Description	Examples
ContractNumber	text		Identifier of contract	769999876
ReservationNumber	text		Identifier of reservation	
TacoIata	text		Taco/Iata	
FrequentFlyer	text		Frequent flyer	
OfficeCode	text	Valid office codes	Office code	HUBUD14
Cost	text	cost code needed by Mercur	Cost code	54000
Events	Array of renting event objects			
Drivers	Array of driver objects			

Renting Event Object

fieldname	Datatype	Constraints	Description	Examples
PlateNumber	text		Plate number	ABC-123
CarModel	text			Opel
CarCategory	text			C
CheckOut	checkpoint object		Check out event details	
CheckIn	checkpoint object		Check in event details	
PlannedKm	Number		Planned Km	150

Checkpoint Object

fieldname	Datatype	Constraints	Description	Examples
OfficeCode	text	Value office code	Office code	
Date	date		Date	2021-06-14
Time	time		Time	13:50
Km	number		Checkpoint Km	

Driver Object

fieldname	Datatype	Constraints	Description	Examples
Name	text			
Email	text	Valid email address		

OnlineSzamla

Constraints and values according to NAV Onlineszamla specifications ...

Types

Basic types used at text scalar values.

They are represented as JSON text values.

Type	Length	Text Regexp	Description	Examples
date	10	[0-9]{4}-[0-9]{2}-[0-9]{2}	Using the syntax YYYY-MM-DD (Year-Month-Day). Must be greate than 2010-01-01	2021-06-29
time	5	[0-9]{2}:[0-9]{2}	Hour 0-23 Minute 0-59	09:59
currency	3	[A-Z]{3}	The currency of the invoice according to configured currencies in eVIR	EUR, HUF
language	2	[A-Z]{2}	The language of the invoice. Currently supported values are only 'EN' and 'HU'	EN
tax_number	13	[0-9]{8}-[1-5]-[0-9]{2}	Tax number format used in Hungary	12345678-1-23
country	2	[A-Z]{2}	Country code in ISO-3166	HU

Number

Number are used for money values. ...

C-rent -> eVIR -> DKS data export

New fields:

- Payments.*.CardNumber
- Payments.*.AuthorizationCode

VAT exemption codes

code	description

code	description
AAM	Personal tax exemption
TAM	“tax-exempt activity” or tax-exempt due to being in public interest or special in nature
KBAET	intra-Community exempt supply, without new means of transport
KBAUK	tax-exempt, intra-Community sales of new means of transport
EAM	tax-exempt, extra-Community sales of goods (export of goods to a non-EU country)
NAM	tax-exempt on other grounds related to international transactions
ATK	Outside the scope of VAT
EUFAD37	Based on section 37 of the VAT Act, a reverse charge transaction carried out in another Member State
EUFADE	Reverse charge transaction carried out in another Member State, not subject to Section 37 of the VAT Act
EUE	Non-reverse charge transaction performed in another Member State
HO	Transaction in a third country

Payment methods

For information only, these payment methods currently exist in eVIR:

Method	Description in eVIR
AMX	American Express
VIS	Visa Card
EAS	Europ Assistance
CSH	Cash-Eurocheque
CTW	Cartrawler
HCC	Hertz Cred.Card/OTTO
VCH	Voucher
DIN	Diners Club
CRE	Bank Transfer
TRF	TRF
T00	Banki átutalás
T14	átutalás(14)
T15	15 napos banki átutalás
T30	30 napos banki átutalás
T04	4 napos banki átutalás
T08	8 napos banki átutalás
EUR	Eurocard/Mastercard

IVCRE table

Field	Type	Description	Source	example
CRFIR	N2	System type	eVIR	10: production 99:devel/test
CRBKZ	C		eVIR	F T
CRRED	D	Issue date of invoice	eVIR	20220401
CREVIR	C8	Invoice number	eVIR	S0000001
CRART	C2		eVIR	RA GS ZA
CRZKS	C/N	Payer customer id	C-Rent	00600
CRZKH	C/N	Income customer id	C-Rent	214183
CRKDN	C/N	Customer id	C-Rent	214183
CRSAK	N	Ledger account number	C-Rent	93130

Field	Type	Description	Source	example
CRZAC	C3	HUF	eVIR	HUF
CRGSN	N	HUF Net amount	eVIR	
CRGSS	N	HUF VAT amount	eVIR	
CGGSB	N	HUF Gross Amount	eVIR	
CRZAF	C3	Currency	C-Rent	EUR
CRKUR	N	Exchange rate	C-Rent	348.48
CFGFN	N	Net amount	C-Rent	
CFGFS	N	VAT amount	eVIR	
CFGFB	N	Gross amount	eVIR	
CRSTC	C3	VAT code	C-Rent	F27
CRFAD	D	Payment date	C-Rent	20220415
CRFAT	N	days between payment and invoice issue date	eVIR	14
CRKOS	C/N	Cost code	C-Rent	54000
CRKZ1	C	Plate number	C-Rent	XMPL01
CRTEX	C	Free text	C-Rent	
CREVIRO	C	Modified invoice number	C-Rent	
CRCCZM	C	Payment method?	C-Rent	
CRAUTOR	C	Authorization code?	C-Rent	
CRCRNUM	C	Contract number	C-Rent	RE866711746-1
CRDKUKZ	C		-	
CRDKUDT	N		-	0

Abbreviation	Type
Cn	Character with length (n)
Nn	Numeric with length (n)
D	Date in format YYYYMMDD

Keyword	
eVIR	generated by eVIR
C-Rent	C-Rent provide

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