

Invoice Verification Endpoints

This section describes the available endpoints for performing invoice verification using third-party applications.

1. [Verification via URL](#)
Invoice verification by scanning QR code can be done using third-party applications. When this is the case, a client can verify an invoice by invoking the **Verification via URL** endpoint on TaxCore.API.
2. [Verification via Invoice Elements](#)
Invoice verification can be done using third-party applications by providing specific values from the invoice. When this is the case a client can verify an invoice by invoking the **Verification via Invoice Elements** endpoint on TaxCore.API.
3. [Verify Invoice](#)
Invoice verification by scanning the QR code can be done using third-party applications. When this is the case a client can verify an invoice by invoking the **Verify Invoice** endpoint on TaxCore.API.
4. [Verify Invoice Manually](#)
Invoice verification can be done using third-party applications by providing specific values from the invoice. When this is the case a client can verify an invoice by invoking the **Verify Invoice Manually** endpoint on TaxCore.API.

Verification via URL

Introduction

Invoice verification by scanning QR code can be done using third-party applications. When this is the case, a client can verify an invoice by invoking the **Verification via URL** endpoint on TaxCore.API.

Compose HTTPS POST request as follows:

1. Add headers "Accept: application/json", "Content-Type: application/json" and header that contains authentication token.
2. Add a complete Verification URL to the body of the HTTPS POST request
3. Submit POST request to `https://<taxcore_api_url>/api/invoices/verificationViaUrl`

After the request is sent, TaxCore.API shall return a response with a JSON formatted string containing data as described in the Response section.

Endpoints

Endpoint	Example
<code><TaxCore_API_URL_obtained_from_certificate_as_e: here>/api/invoices/verificationViaUrl</code>	<code>https://api.coral.demo.taxcore.dti.rs/api</code>

⚠ Warning:

Development and production environments, as well the environments in different countries, have different URLs. For this reason, URLs and names in your documentation, code and UI should not be hardcoded but configurable or extracted from a digital certificate.

Method

POST

Header

Add the following HTTP headers to each request

- TaxCoreAuthenticationToken: `<token-value-returned-from-Request-Authentication-Token-method>`
- Accept: `application/json`
- Content-Type: `application/json`

Authentication

Valid TaxCore authentication token is passed through request headers

Request

The request should contain a complete Verification URL (including the domain) in the body.

Example

```
"https://test.taxcore.dti.rs/v/?v1=A0VaWkdYNEZURVpaR1g0RlQPBAADwQAAEANAwAAAAAAAAABgPtZ..."
```

Response

The response contains the invoice object in JSON format.

For detailed information about all response objects, see the [Create Invoice](#) article from Technical Instruction for EFD Vendors.

Example

```
{
  "Request": {
    "dateAndTimeOfIssue": "2020-12-08T08:55:23.286Z",
    "cashier": "123456789",
    "buyerId": "RS34564565",
    "buyerCostCenterId": "567546",
    "invoiceType": "Normal",
    "transactionType": "Sale",
    "payment": [
      {
        "amount": 68.46,
        "paymentType": "Cash"
      }
    ],
    "invoiceNumber": "80/2.0.0",
    "referentDocumentNumber": "",
    "options": {
      "omitQRCodeGen": "1",
      "omitTextualRepresentation": "0"
    },
    "items": [
      {
        "name": "Sport-100 Helmet, Blue",
        "quantity": 2,
        "unitPrice": 34.23,
        "labels": [
          "A"
        ],
        "totalAmount": 68.46
      }
    ]
  },
  "Result": {
    "requestedBy": "WHKV8WJH",
    "sdcDateTime": "2020-12-09T01:51:43.1847161+12:00",
    "invoiceCounter": "6/16NS",
    "invoiceCounterExtension": "NS",
    "invoiceNumber": "WHKV8WJH-GFB38T00-16",
    "taxItems": [
      {
        "categoryType": 0,
        "label": "A",
        "amount": 5.6527,
        "rate": 9,
        "categoryName": "VAT"
      }
    ],
    "verificationUrl": "https://frontendui.test.taxcore.dti.rs/v/?vl=AldIS1Y4V0pIR0ZCMzhUTzAQA",
    "verificationQRCode": null,
    "journal": "===== FISCAL INVOICE =====\r\n
TIN:                               HIHKLIKJ\r\n
Company:                             Fiskalizacija doo\r\n
Store:                               Fiskalizacija doo\r\n
Address:                             Milinka Milinkovica 44\r\n
District:                             Vinca\r\n"
```

```

Cashier TIN:                123456789\r\n
POS Number:                 80/2.0.0\r\n
POS Time:                   08/12/2020 08:55:23\r\n
-----NORMAL SALE-----\r\n
Items\r\n
=====
Name      Price      Qty.      Total\r\n
Sport-100 Helmet, Blue (A) \r\n
          34.23      2         68.46\r\n
-----
Total Purchase:             68.46\r\n
-----
Cash:                        68.46\r\n
=====
Label      Name      Rate      Tax\r\n
A          VAT      9.00%     5.65\r\n
-----
Total Tax:                    5.65\r\n
=====
SDC Time:                09/12/2020 01:51:43\r\n
SDC Invoice No:          WHKV8WJH-GFB38T00-16\r\n
Invoice Counter:        6/16NS\r\n
=====
===== END OF FISCAL INVOICE =====\r\n"

```

```

"messages": "Success",
"signedBy": "GFB38T00",
"encryptedInternalData": "aoo+9OCMgbe+a1OQyeJt44DqbE8KyBh9fj49saQNr3XcMRgHz+IE1oagmebqVucjM
"signature": "YE6eOSCgZaz/eCVzeLQHvD02zWBEOxFnQhFRiY1jNmaEbHi+7j910/vXd47ui6qvKtYp+pahbbRz
"totalCounter": 16,
"transactionTypeCounter": 6,
"totalAmount": 68.46,
"taxGroupRevision": 2,
"businessName": "Shtelovanje doo",
"tin": "HIHKLIKJ",
"locationName": "Shtelovanje doo",
"address": "Milinka Milinkovica 44",
"address": "Vinca",
"mrc": "0099-0100-GFB38T00"
}
}

```

Verification via Invoice Elements

Introduction

Invoice verification can be done using third-party applications by providing specific values from the invoice. When this is the case a client can verify an invoice by invoking the **Verification via Invoice Elements** endpoint on TaxCore.API.

Compose HTTPS POST requests as follows:

1. Add headers "Accept: application/json", "Content-Type: application/json" and header that contains authentication token.
2. Create a json request data as described in the Request section below.
3. Submit POST request to https://<taxcore_api_url>/api/invoices/verificationViaInvoiceElements

After the request is sent, TaxCore.API shall return a response with a JSON formatted string containing data as described in the Response section.

Endpoints

Endpoint	Example
<code><TaxCore_API_URL_obtained_from_certificate_as_e; here>/api/invoices/verificationViaInvoiceElements</code>	<code>https://api.coral.demo.taxcore.dti.rs/api</code>

⚠ Warning:

Development and production environments, as well the environments in different countries, have different URLs. For this reason, URLs and names in your documentation, code and UI should not be hardcoded but configurable or extracted from a digital certificate.

Method

POST

Header

Add the following HTTP headers to each request

- TaxCoreAuthenticationToken: `<token-value-returned-from-Request-Authentication-Token-method>`
- Accept: `application/json`
- Content-Type: `application/json`

Authentication

Valid TaxCore authentication token is passed through request headers

Request

The request contains the required fields which can be seen in the Invoice journal.

Field	Type	Optional/Mandatory	Description
<code>invoiceNumberSe</code>	string	Mandatory	SDC invoice number (MinLength=19,

			MaxLength=40)
invoiceCounter	string	Mandatory	Invoice counter (MinLength=5, MaxLength=30)
totalAmount	decimal	Mandatory	Total amount of the invoice
sdcDateTime	DateTime	Mandatory	Date and Time of SDC SDC date and time that is printed on the journal, ISO 8601 format

Example

```
{
  "invoiceNumberSe": "MEACACPY-MEACACPY-75",
  "invoiceCounter": "75/123NS",
  "totalAmount": "20.00",
  "sdcDateTime": "2022-05-17T10:46:51.910Z"
}
```

Response

The response contains invoice details in JSON format.

For detailed information about all response objects, see the [Create Invoice](#) article from Technical Instruction for EFD Vendors.

Example

```
{
  "Request": {
    "dateAndTimeOfIssue": "2022-05-17T10:46:45.286Z",
    "cashier": "123456789",
    "buyerId": "RS34564565",
    "buyerCostCenterId": "567546",
    "invoiceType": "Normal",
    "transactionType": "Sale",
    "payment": [
      {
        "amount": 68.46,
        "paymentType": "Cash"
      }
    ],
    "invoiceNumber": "80/2.0.0",
    "referentDocumentNumber": "",
    "options": {
      "omitQRCodeGen": "1",
      "omitTextualRepresentation": "0"
    },
    "items": [
      {
        "name": "Sport-100 Helmet, Blue",
        "quantity": 2,
        "unitPrice": 10.00,

```

```

    "labels": [
      "A"
    ],
    "totalAmount": 20.00
  }
]
},
"Result": {
  "requestedBy": "MEACACPY",
  "sdcDateTime": "2022-05-17T10:46:51.910903+12:00",
  "invoiceCounter": "75/123NS",
  "invoiceCounterExtension": "NS",
  "invoiceNumber": "MEACACPY-MEACACPY-75",
  "taxItems": [
    {
      "categoryType": 0,
      "label": "A",
      "amount": 1.8000,
      "rate": 9,
      "categoryName": "VAT"
    }
  ],
  "verificationUrl": "https://frontendui.test.taxcore.dti.rs/v/?vl=AldIS1Y4V0pIR0ZCMzhUTzAQA",
  "verificationQRCode": null,
  "journal": "===== FISCAL INVOICE =====\r\n
TIN:                               HIHKLIKJ\r\n
Company:                            Fiskalizacija doo\r\n
Store:                              Fiskalizacija doo\r\n
Address:                            Milinka Milinkovica 44\r\n
District:                           Vinca\r\n
Cashier TIN:                        123456789\r\n
POS Number:                         80/2.0.0\r\n
POS Time:                           17/05/2022 10:46:45\r\n
-----NORMAL SALE-----\r\n
Items\r\n
=====
Name      Price      Qty.      Total\r\n
Sport-100 Helmet, Blue (A)          \r\n
          10.00         2         20.00\r\n
-----
Total Purchase:                      68.46\r\n
-----
Cash:                                68.46\r\n
=====
Label      Name      Rate      Tax\r\n
A          VAT      9.00%     1.80\r\n
-----
Total Tax:                            1.80\r\n
=====
SDC Time:          17/05/2022 10:46:51\r\n
SDC Invoice No:    MEACACPY-MEACACPY-75\r\n
Invoice Counter: 75/123NS\r\n
=====
===== END OF FISCAL INVOICE =====\r\n",
  "messages": "Success",
  "signedBy": "MEACACPY",
  "encryptedInternalData": "aoo+9OCMgbe+a1OQyeJt44DqbE8KyBh9fj49saQNr3XcMRgHz+IE1oagmebqVucjM",
  "signature": "YE6eOSCgZaz/eCVzeLQHvD02zWBEOxFnQhFRiY1jNmaEbHi+7j910/vXd47ui6qvKtYp+pahbbR",
  "totalCounter": 123,
  "transactionTypeCounter": 75,
  "totalAmount": 20.00,
  "taxGroupRevision": 2,
  "businessName": "Shtelovanje doo",
  "tin": "HIHKLIKJ",
  "locationName": "Shtelovanje doo",
  "address": "Milinka Milinkovica 44",

```

```
"address": "Vinca",
"mrc": "0099-0100-GFB38T00"
}
}
```

Verify Invoice

Introduction

Invoice verification by scanning the QR code can be done using third-party applications. When this is the case a client can verify an invoice by invoking the **Verify Invoice** endpoint on TaxCore.API.

Compose HTTPS POST request as follows:

1. Add headers "Accept: application/json", "Content-Type: application/json" and header that contains authentication token.
2. Add a Base64 encoded part of Verification URL to the body of the HTTPS POST request
3. Submit POST request to `https://<taxcore_api_url>/api/invoices/verifyInvoice`

After the request is sent, TaxCore.API shall return a response with a JSON formatted string containing data as described in the Response section.

Endpoints

Endpoint	Example
<code><TaxCore_API_URL_obtained_from_certificate_as_e; here>/api/invoices/verifyInvoice</code>	<code>https://api.coral.demo.taxcore.dti.rs/api</code>

NOTE:
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Method

POST

Header

Add the following HTTP headers to each request

- TaxCoreAuthenticationToken: <token-value-returned-from-Request-Authentication-Token-method>
- Accept: application/json
- Content-Type: application/json

Authentication

Valid TaxCore authentication token is passed through request headers

Request

The request should contain a Base64 encoded part of the Verification URL in the body

Example

```
"A0xFVE1KN0hSNkVWQ0czTzACAAAAAgAAAJCUDQAAAAAAAAABgzW6Z%2BIAAACn..."
```

Response

The response contains invoice details in JSON format.

Example

```
{
  "Status": "Рачун је проверен",
  "Tin": "123123123",
  "LocationName": "Плажа 1",
  "Address": "Пут за плажу бб",
  "City": "Перазића дол",
  "AdministrativeUnitName": "Јештане",
  "BuyerTin": null,
  "RequestedBy": "6N3ZEX6Q",
  "SignedBy": "Dt1Ov2o0",
  "Total": 1.0,
  "CounterByInvoiceAndTransactionType": 22,
  "TotalCounter": 214,
  "InvoiceAndTransactionTypeExtension": "ПП",
  "InvoiceNumber": "6N3ZEX6Q-Dt1Ov2o0-214",
  "sdcDateAndTime": "2022-07-26T13:44:54.263Z",
  "PaymentTypes": [1,2]
}
```

or

```
{
  "Status": "Рачун није валидан",
  "Tin": "123123123",
}
```

```

"LocationName": "Плажа 1",
"Address": "Пут за плажу бб",
"City": "Перазивна дол",
"AdministrativeUnitName": "Лештане",
"BuyerTin": null,
"RequestedBy": "6N3ZEX6Q",
"SignedBy": "Dt10v2o0",
"Total": 1.0,
"CounterByInvoiceAndTransactionType": 22,
"TotalCounter": 214,
"InvoiceAndTransactionTypeExtension": "ПП",
"InvoiceNumber": "6N3ZEX6Q-Dt10v2o0-214",
"sdcDateAndTime": "2022-07-26T13:44:54.263Z",
"PaymentTypes": [1]
}

```

Field	Type	Description
Status	string	The status of the invoice. It can be valid or invalid, translated to local language. (MaxLength=50)
Tin	string	The Taxpayer TIN (MaxLength=20)
LocationName	string	Name of the shop where invoice is issued (MaxLength=500)
Address	string	Address of the shop where invoice is issued (MaxLength=200)
City	string	City of the shop where invoice is issued (MaxLength=50)
AdministrativeUnitName	string	Administrative unit of the shop where invoice is issued (MaxLength=100)
BuyerTin	string	TIN of the buyer (MaxLength=20)
RequestedBy	string	UID, ASCII encoding, e.g. JKGB3K14 (MaxLength=8)
SignedBy	string	UID, ASCII encoding, e.g. JKGB3K14 (MaxLength=8)
Total	decimal	Total invoice amount
CounterByInvoiceAndTransactionType	int	Invoice counter according to the invoice and transaction type
InvoiceAndTransactionTypeExtension	string	Extension of the invoice (MinLength=5, MaxLength=20)
InvoiceNumber	string	The unique SDC Invoice Number, e.g. 7AF4D923-

		E3B30A31-234 (MinLength=19, MaxLength=40)
sdcDateAndTime	string	Date and time of the SDC device converted to UTC time (MaxLength=30)
PaymentTypes	array	One or more ID's of the payment type (ID map specified below)

Payment Types:

- 0 Other
- 1 Cash
- 2 Card
- 3 Check
- 4 WireTransfer
- 5 Voucher
- 6 MobileMoney

All possible response codes:

- 200: Success
- 400: Bad request (Error message in the body of the response)

Verify Invoice Manually

Introduction

Invoice verification can be done using third-party applications by providing specific values from the invoice. When this is the case a client can verify an invoice by invoking the **Verify Invoice Manually** endpoint on TaxCore.API.

Compose HTTPS POST requests as follows:

1. Add headers "Accept: application/json", "Content-Type: application/json" and header that contains authentication token.
2. Create a json request data as described in the Request section below.
3. Submit POST request to https://<taxcore_api_url>/api/invoices/verifyInvoiceManually

After the request is sent, TaxCore.API shall return a response with a JSON formatted string containing data as described in the Response section.

Endpoints

Endpoint	Example
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<TaxCore_API_URL_obtained_from_certificate_as_e:
[here](#)>/api/invoices/verifyInvoiceManually

https://api.coral.demo.taxcore.dti.rs/api

NOTE:
Development and production environments, as well the environments in different countries, have different URLs. For this reason, URLs and names in your documentation, code and UI should not be hardcoded but configurable or extracted from a digital certificate.

Method

POST

Header

Add the following HTTP headers to each request

- TaxCoreAuthenticationToken: <token-value-returned-from-Request-Authentication-Token-method>
- Accept: application/json
- Content-Type: application/json

Authentication

Valid TaxCore authentication token is passed through request headers

Request

The request contains the required fields which can be seen in the Invoice journal.

Field	Type	Optional/Mandatory	Description
invoiceNumberSe	string	Mandatory	SDC invoice number (MinLength=19, MaxLength=40)
sdctime	DateTime	Mandatory	Time from SDC date and time that is printed on the journal in 24H time format: HH:mm:ss (for example: 16:35:30)

Example

```

{
  "invoiceNumberSe": "MEACACPY-MEACACPY-75",
  "sdcTime": "16:35:30"
}

```

Response

The response contains invoice details in JSON format.

Field	Type	Description
Status	string	The status of the invoice. It can be valid or invalid, translated to the local language. (MaxLength=50)
Tin	string	The Taxpayer TIN (MaxLength=20)
LocationName	string	Name of the shop where invoice is issued (MaxLength=500)
Address	string	Address of the shop where invoice is issued (MaxLength=200)
City	string	City of the shop where invoice is issued (MaxLength=50)
AdministrativeUnitName	string	Administrative unit of the business location where the invoice was issued (MaxLength=100)
BuyerTin	string	TIN of the buyer (MaxLength=20)
RequestedBy	string	UID, ASCII encoding, e.g. JKGB3K14 (MaxLength=8)
SignedBy	string	UID, ASCII encoding, e.g. JKGB3K14 (MaxLength=8)
Total	decimal	Total invoice amount
CounterByInvoiceAndTransactionType	int	Invoice counter according to the invoice and transaction type
InvoiceAndTransactionTypeExtension	string	Extension of the invoice (MinLength=5, MaxLength=20)
InvoiceNumber	string	The unique SDC Invoice Number, e.g. 7AF4D923-E3B30A31-234 (MinLength=19, MaxLength=40)

sdcDateAndTime	string	Date and time of the SDC device converted to UTC time (MaxLength=30)
PaymentTypes	array	One or more ID's of the payment type (ID map specified below)

Example

```
{
  "Status": "Рачун је проверен",
  "Tin": "123123123",
  "LocationName": "Плажа 1",
  "Address": "Пут за плажу 66",
  "City": "Перазиха дол",
  "AdministrativeUnitName": "Лештане",
  "BuyerTin": null,
  "RequestedBy": "6N3ZEX6Q",
  "SignedBy": "Dt10v2o0",
  "Total": 1.0,
  "CounterByInvoiceAndTransactionType": 22,
  "TotalCounter": 214,
  "InvoiceAndTransactionTypeExtension": "III",
  "InvoiceNumber": "6N3ZEX6Q-Dt10v2o0-214",
  "sdcDateAndTime": "2022-07-26T13:44:54.263Z",
  "PaymentTypes": [1,2]
}
```

or

```
{
  "Status": "Рачун није валидан",
  "Tin": "123123123",
  "LocationName": "Плажа 1",
  "Address": "Пут за плажу 66",
  "City": "Перазиха дол",
  "AdministrativeUnitName": "Лештане",
  "BuyerTin": null,
  "RequestedBy": "6N3ZEX6Q",
  "SignedBy": "Dt10v2o0",
  "Total": 1.0,
  "CounterByInvoiceAndTransactionType": 22,
  "TotalCounter": 214,
  "InvoiceAndTransactionTypeExtension": "III",
  "InvoiceNumber": "6N3ZEX6Q-Dt10v2o0-214",
  "sdcDateAndTime": "2022-07-26T13:44:54.263Z",
  "PaymentTypes": [1]
}
```

Payment Types:

- 0 Other
- 1 Cash
- 2 Card
- 3 Check
- 4 WireTransfer
- 5 Voucher

- 6 MobileMoney

All possible response codes:

- 200: Success
- 400: Bad request (Error message in the body of the response)
- 404: Not Found (Invoice not found)
- 500: Internal Server Error