

# Rest API for external usage

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## Administrative functions

### AuthenticateByUser

Returns the associated company information associated by the user if user+password check validates.

**PRODUCTION URL:** <https://api.apix.fi/authuser?uid=<email>&t=<timestamp>&d=SHA-256:<digest>>

**TEST URL:** <https://test-api.apix.fi/authuser?uid=<email>&t=<timestamp>&d=SHA-256:<digest>>

#### HTTP Method:

GET

#### Authentication:

Yes. First SHA-256 digest is calculated from the user password. Then separate SHA-256 digest is calculated from all the parameters and digest version of password is used as the shared secret. The calculated digest is headed by string "SHA-256:".

See appendix- SHA-256 usage in APIX webservises API

#### Parameters:

<email>	the userid in the form of email
<Timestamp>	the UTC time and date: CCYYMMDDHHMMSS
<digest>	SHA-256 digest, calculated from: email+timestamp+PasswordHash
PasswordHash	Sha-256 digest of the password.

#### Request:

Only parameters

#### Response:

See 2- Response message structure

Value types:	Description
Ytunnus	Company's registered company id (Y-tunnus, Org.no)
Name	Company name
AdditionalName	Additional name
CustomerNumber	Internal customer number

UniqueCompanyID	Unique company id
Email	Registered email
Www	www-address
Phonenumber	Registered phone number
ContactPerson	Contact person's name
LanguageCoded	The culture i.e fi_FI, en_US, se_SE
IdCustomer	Internal customer id

and for each addresstype found a group:

AddressType	Official, Billing, Visiting
Street1	Streetname
Street2	Streetname
PostalOffice	Postal office
PostalCode	Postal code
Country	Country

**Example:**

### Response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Response>
  <Status>OK</Status>
  <StatusCode>5000</StatusCode>
  <FreeText language="en">OK</FreeText>
  <Content>
    <Group>
      <Value type="Ytunnus">2332748-7</Value>
      <Value type="Name">Apix Messaging Oy</Value>
      <Value type="CustomerNumber">1</Value>
      <Value type="UniqueCompanyID">fdf09a47-5e99-4773-9379-3f26c8861eea</Value>
      <Value type="Email">Veli-Matti.Sahlberg@apix.fi</Value>
      <Value type="Www">www.apix.fi</Value>
      <Value type="Phonenumber">+358453444401</Value>
      <Value type="ContactPerson">Veli-Matti Sahlberg</Value>
      <Value type="LanguageCoded">fi</Value>
    </Group>
    <Group>
      <Value type="AddressType">Official</Value>
      <Value type="Street1">Sinikalliontie 9</Value>
      <Value type="PostalOffice">Espoo</Value>
      <Value type="PostalCode">02630</Value>
      <Value type="Country">Finland</Value>
    </Group>
  </Content>
</Response>
```

### RetrieveTransferID

Retrieves the system generated TransferID, TransferKey and UniqueCompanyID. The application should store these internally.

**PRODUCTION URL:** <https://api.apix.fi/app-transferID?id=<company id>&idq=<id qualifier>&uid=<UserID>&ts=<timestamp>&d=SHA-256:<digest>>

**TEST URL:** <https://test-api.apix.fi/app-transferID?id=<company id>&idq=<id qualifier>&uid=<UserID>&ts=<timestamp>&d=SHA-256:<digest>>

**HTTP Method:**  
GET

**Authentication:**

Yes. First SHA-256 digest is calculated from the user password. Then separate SHA-256 digest is calculated from all the parameters and digest version of password is used as the shared secret. The calculated digest is headed by string "SHA-256:".

See: [?appendix- SHA-256 usage in APIX webservices API](#)

**Parameters:**

<company id>	is the official id of the company (in Finland y-tunnus ( <a href="http://www.ytj.fi">www.ytj.fi</a> ), in Sweden Org.nr ( <a href="http://www.bolagsverket.se">http://www.bolagsverket.se</a> ) as used in the registration
<id qualifier>	qualifier for the identification; y-tunnus, orgnr etc. (usually y-tunnus)
<uid>	User ID for the user
<ts>	Current timestamp
<digest>	SHA-256 digest

**Response:**

See [?2- Response message structure](#).

**Value types:**

TransferID	The identification used for sending and receiving
TransferKey	The password used for sending and receiving
UniqueCompanyID	A unique identifier assigned to the company

**Example:**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Response version="1.0">
  <Status>OK</Status>
  <StatusCode>5000</StatusCode>
  <FreeText language="en">OK</FreeText>
  <Content>
    <Group>
      <Value type="TransferID">fdf09a47-5e99-4773-9379-3f26c8861eea</Value>
      <Value type="TransferKey">de6b8d40-f81b-4d51-b977-c998510b51bb</Value>
      <Value type="UniqueCompanyID">0f6aa87f-ce1d-44ce-b025-8b9801c8772c</Value>
    </Group>
  </Content>
</Response>
```

## RetrieveCompanyInformation

Retrieves information about the registered company; Username, saldo, unique id etc.

**PRODUCTION URL:** <https://api.apix.fi/getcompanyinfo?TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

**TEST URL:** <https://test-api.apix.fi/getcompanyinfo?TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

**HTTP Method:**  
GET

**Authentication:**

Yes. Authentication with SHA-256 digest using the TransferKey as the 'shared secret'.

See appendix- SHA-256 usage in APIX webservises API

**Parameters:**

TransferID	The TransferID identifying the owner of the storage
TimeStamp	In the format CCYYMMDDHHMMSS. All times are in UTC
Digest	The calculated SHA256 digest of the parameters and TransferKey (TRANSFERKEY)

**Response:**

See 2- Response message structure

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<Response>
  <Status>OK</Status>
  <StatusCode>5P00</StatusCode>
  <Content>
    <Group>
      <Value type="Username">a@a.fi</Value>
      <Value type="Email">a@a.fi</Value>
      <Value type="UniqueID">oqyok-2euuq-1289200485-2gwzbf7fg</Value>
      <Value type="TransferId">dfeaac7c-14f7-4983-acd3-afdaa7eb6b30</Value>
      <Value type="TransferKey">51300348417</Value>
      <Value type="y-tunnus">2066776-9</Value>
      <Value type="Name">EsimerkkiFirma Oy</Value>
      <Value type="Language">fi_FI</Value>
      <Value type="AdditionalName">0</Value>
      <Value type="WWW">www.aaaa.fi</Value>
      <Value type="PhoneNumber">1234</Value>
      <Value type="ContactPerson">Raija Tarkka</Value>
      <Value type="EInvoiceAddress">003720667769</Value>
      <Value type="Saldo">830.2 </Value>
    </Group>
    <Group>
      <Value type="AddressType">Billing</Value>
      <Value type="Street1">aaaa</Value>
      <Value type="Street2">aaaa</Value>
      <Value type="PostalOffice">aaaa</Value>
      <Value type="PostalCode">3453</Value>
      <Value type="Country">FI</Value>
    </Group>
  </Content>
</Response>
```

## Sending functions

### SendInvoiceZIP

Allows sending of a ZIP-file containing one to several invoices (inhouse format) and their corresponding PDF-images (as single files) and optionally also attachments (as single zip-files) to the invoices.

*Note: Usage of this service requires a valid contract of type 'Lähetä'.*

**PRODUCTION URL:** <https://api.apix.fi/invoices?soft=<software>&ver=<version>&TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

**TEST URL:**<https://test-api.apix.fi/invoices?soft=<software>&ver=<version>&TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

**HTTP Method:**  
PUT

**Authentication:**  
Yes. Authentication with SHA-256 digest using the TransferKey as the 'shared secret'.

See [appendix- SHA-256 usage in APIX webservices API](#)

**Parameters:**

<software>	the software used to generate the invoice inhouse.	<b>NOTE:</b> This is the "Interface" name agreed between Apix and the software company
<version>	the version of the software used to generate the invoice inhouse.	<b>NOTE:</b> This is the "Interface" version agreed between Apix and the software company
<TransferID>	the unique TransferID assigned to the customer	
<Timestamp>	the UTC time and date: CCYYMMDDHHMMSS	
<digest>	SHA-256 digest	

**Response:**  
See [2- Response message structure](#).

**Value types:**

BatchID	A unique identifier assigned to a batch of documents
Saldo	an integer representing the current credit saldo
CostInCredits	Total cost of processing in credits
NetworkedInvoices	number of Networked invoices in request/response
Letters	number of letters in request/response
LetterPages	number of pages of letters in request/response
RejectedDocument	number of rejected documents (invoices)
AcceptedDocument	number of accepted documents (invoices)

In addition there can be detailed information about the RejectedDocuments or AcceptedDocuments (one group / document) as follows:

RejectedDocumentID	Either document number or position inside the invoice data file
ValidateText	Text describing reason for rejection (in english)
ValidateText:fi	Optional: Text describing reason for rejection (in finnish)
ValidateText:sv	Optional: Text describing reason for rejection (in swedish)
AcceptedDocumentID	Document number
ValidateText	Additional information about the document processing (in english)
ValidateText:fi	Optional: Additional information about the document processing (in finnish)
ValidateText:sv	Optional: Additional information about the document processing (in swedish)

**Example:**

## HTTP Request

```
PUT
/invoices?soft=Economix&ver=1.0&TraID=e4fb42c4-2e72-4e8c-80aa-3724e402c0a8&t=201006051
23412&d=SHA-256:398217e7a83e4e88fcc839b4566f7c897a1f8f09dfc8479513ffe26c6a3fb1a
HTTP/1.1
Content-Type: application/octet-stream
Content-Lenght: <length in bytes>

[The zip file as binary, containing datafile, image-pdf/invoice,
attachment-zip/invoice]
```

## Response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Response version="1.0">
  <Status>OK</Status>
  <StatusCode>1000</StatusCode>
  <FreeText language="en">OK</FreeText>
  <Content>
    <Group>
      <Value type="BatchID">1633b003-0315-44ca-a687-a25f92bf6123</Value>
      <Value type="Saldo">199</Value>
      <Value type="CostInCredits">1</Value>
      <Value type="NetworkedInvoices">1</Value>
      <Value type="Letters">0</Value>
      <Value type="LetterPages">0</Value>
      <Value type="AcceptedDocument">1</Value>
    </Group>
    <Group>
      <Value type="AcceptedDocumentID">1001</Value>
      <Value type="ValidateText">Document InvoiceID 1001
Warning:BuyerOganisationTaxCode is missing</Value>
    </Group>
  </Content>
</Response>
```

## DeliveryMethod

Returns the delivery channel and price for individual documents for b2b messages. Contact us if you need the same kind of functionality for b2c messages.

**Note** Preferred way is to use DeliveryMethod instead of PricingInfo

**PRODUCTION URL:**<https://api.apix.fi/method?uid=<TransferID>&t=<timestamp>&d=SHA-256:<digest>>

**TEST URL:**<https://test-api.apix.fi/method?uid=<TransferID>&t=<timestamp>&d=SHA-256:<digest>>

### HTTP Method:

PUT

### Authentication:

Yes. Authentication with SHA-256 hash (<SHA-256:digest>) using the TransferKey as the 'shared secret'.

See [appendix- SHA-256 usage in APIX webservice API](#)

### Parameters:

<TransferID>	the unique TransferID assigned to the customer
--------------	--

<Timestamp>	the UTC time and date: CCYYMMDDHHMMSS
<digest>	SHA-256 digest

**Request:**

See 1- Request message structure

**Value types:**

DocumentID	Optional: Document identifier at sender
SenderName	Sender's official name
SenderYtunnus	Sender's official id of the company (in Finland y-tunnus ( <a href="http://www.ytj.fi">www.ytj.fi</a> ), in Sweden Org.nr ( <a href="http://www.bolagsverket.se">http://www.bolagsverket.se</a> ))
ReceiverName	Receiver's official name
ReceiverCountryCode	Optional: Receiver's country code, ISO 3166-1, default FI
ReceiverYtunnus	Optional: Receiver's BusinessID (ie. the official id)
ReceiverOVT	Optional: Receiver's OVT-id (any enhanced party identifier)
ReceiverInvoiceAddress	Optional: Receiver's eInvoiceAddress, eT@G or other specific electronic address
MessageType	Optional: Messagetype used (eInvoice,invoice,orders etc.) Default: eInvoice
LetterPages	Optional: Number of pages in letter

**Response:**

See 2- Response message structure

<b>Value types:</b>	
DocumentID	Optional: Document identifier at sender
ChannelName	Delivery channel: "eInvoice","Paper","email","EDI","Netpost","e-lasku","Suoramaksu"
SenderName	Sender's official name
SenderYtunnus	Sender's BusinessID (ie. the official registered id)
ReceiverName	Receiver's official name
CostInCredits	The cost of delivery in credits
ReceiverYtunnus	Optional: Only for EINVOICE, EDI: Receiver's BusinessID
MessageType	Messagetype used (eInvoice,invoice,orders etc.) Default: eInvoice
LetterPages	Optional (only for Print channel):Number of pages in letter
LetterClass	Optional (only for Print channel):The letter class requested. '1' or '2'. Default 2
LetterPrintColor	Optional (only for Print channel):If the letter should be printed in color or bw. COLOR/BW. Default BW
LetterCountry	Optional (only for Print channel):Countryclass where the letter is going. FI/EU/OTHER. Default FI

**Example:**

## Request

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Request version="1.0">
  <Content>
    <Group>
      <Value type="DocumentID">1</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ReceiverName">Big Company Oy</Value>
      <Value type="LetterPages">12</Value>
      <Value type="ReceiverCountryCode">FI</Value>
    </Group>
    <Group>
      <Value type="DocumentID">2</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ReceiverName">Wrong name</Value>
      <Value type="ReceiverYtunnus">2332748-7</Value>
    </Group>
    <Group>
      <Value type="DocumentID">3</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ReceiverName">Wrong name</Value>
      <Value type="ReceiverInvoiceAddress">FI3080000710163802</Value>
    </Group>
    <Group>
      <Value type="DocumentID">3</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ReceiverName">Wrong name</Value>
      <Value type="ReceiverOVT">003723327487</Value>
    </Group>
    <Group>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ReceiverName">Apix Messaging Oy</Value>
    </Group>
  </Content>
</Request>
```

## Response



```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Response>
  <Status>OK</Status>
  <StatusCode>7G00</StatusCode>
  <Content>
    <Group>
      <Value type="DocumentID">1</Value>
      <Value type="LetterClass">1</Value>
      <Value type="CostInCredits">2.75</Value>
      <Value type="LetterPages">12</Value>
      <Value type="AccountingCopy">YES</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="LetterCountry">FI</Value>
      <Value type="ChannelName">Paper</Value>
      <Value type="LetterPrintColor">BW</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="ReceiverName">Big Company Oy</Value>
    </Group>
    <Group>
      <Value type="DocumentID">2</Value>
      <Value type="ReceiverYtunnus">2332748-7</Value>
      <Value type="AccountingCopy">YES</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ChannelName">eInvoice</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="ReceiverName">Wrong name</Value>
    </Group>
    <Group>
      <Value type="DocumentID">3</Value>
      <Value type="ReceiverYtunnus">2332748-7</Value>
      <Value type="AccountingCopy">YES</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ChannelName">eInvoice</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="ReceiverName">Wrong name</Value>
    </Group>
    <Group>
      <Value type="DocumentID">3</Value>
      <Value type="ReceiverYtunnus">2332748-7</Value>
      <Value type="AccountingCopy">YES</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ChannelName">eInvoice</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="ReceiverName">Wrong name</Value>
    </Group>
    <Group>
      <Value type="ReceiverYtunnus">2332748-7</Value>
      <Value type="AccountingCopy">YES</Value>
      <Value type="SenderYtunnus">2332748-7</Value>
      <Value type="ChannelName">eInvoice</Value>
      <Value type="SenderName">Apix Messaging Oy</Value>
      <Value type="ReceiverName">Apix Messaging Oy</Value>
    </Group>
  </Content>
</Response>
```

## AddressQuery

Returns all of the invoice addresses and operators for given company name and / or businessId.

**PRODUCTION URL:** <https://api.apix.fi/addressquery?uid=<TransferID>&t=<timestamp>&d=SHA-256:<digest>>

**TEST URL:** <https://test-api.apix.fi/addressquery?uid=<TransferID>&t=<timestamp>&d=SHA-256:<digest>>

**HTTP Method:**

PUT

**Authentication:**

Yes. Authentication with SHA-256 hash (<SHA-256:digest>) using the TransferKey as the 'shared secret'.

See [appendix- SHA-256 usage in APIX webservices API](#)

**Parameters:**

<TransferID>	the unique TransferID assigned to the customer
<Timestamp>	the UTC time and date: CCYYMMDDHHMMSS
<digest>	SHA-256 digest

**Request:**

See 1- Request message structure

**Value types:**

ReceiverName	Receiver's official name, at least one must be defined. Recommended that you don't use this but use only ReceiverYtunnus instead.
ReceiverYtunnus	Receiver's BusinessID, at least one must be defined

**Response:**

See 2- Response message structure

Value types:	
ReceiverName	Returned if provided in request or found
ReceiverYtunnus	Returned if provided in request or found.
ReceiverInvoiceAddress	EInvoice address of receiver, returned if found
ReceiverOperator	Operator of this EInvoiceAddress, returned if found

**Example:**

### Request

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Request version="1.0">
  <Content>
    <Group>
      <Value type="ReceiverName">Aalto Capital Oy</Value>
      <Value type="ReceiverYtunnus">2262882-7</Value>
    </Group>
  </Content>
</Request>
```

## Response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Response>
<Status>OK</Status>
<StatusCode>2A00</StatusCode>
<Content>
<Group>
<Value type="ReceiverName">Aalto Capital Oy</Value>
<Value type="ReceiverYtunnus">2262882-7</Value>
<Value type="ReceiverInvoiceAddress">003722628827</Value>
<Value type="ReceiverOperator">Itella Information Oy</Value>
</Group>
<Group>
<Value type="ReceiverName">Aalto Capital Oy</Value>
<Value type="ReceiverYtunnus">2262882-7</Value>
<Value type="ReceiverInvoiceAddress">FI0913783000220315</Value>
<Value type="ReceiverOperator">Nordea</Value>
</Group>
</Content>
</Response>
```

## SendPrintZIP

Allows sending of a ZIP-file containing one to several documents in PDF format accompanied with an XML-metadata file. The letters are sent as defined in the agreements (customer settable options in the Apix management [www-apliaction](#)).

*Note: Usage of this service requires a valid contract of type 'Lähetä'.*

**PRODUCTION URL:** <https://api.apix.fi/print?soft=<software>&ver=<version>&TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

**TEST URL:** <https://test-api.apix.fi/print?soft=<software>&ver=<version>&TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

### HTTP Method:

PUT

### Authentication:

Yes. Authentication with SHA-256 digest using the TransferKey as the 'shared secret'.

See appendix- SHA-256 usage in APIX webservises API

### Parameters:

<software>	the software used to generate the invoice inhouse.	<b>NOTE:</b> This is the "Interface" name agreed between Apix and the software company
<version>	the version of the software used to generate the invoice inhouse.	<b>NOTE:</b> This is the "Interface" version agreed between Apix and the software company
<TransferID>	the unique TransferID assigned to the customer	
<Timestamp>	the UTC time and date: CCYYMMDDHHMMSS	
<digest>	SHA-256 digest	

### Response:

See 2- Response message structure.

### Value types:

BatchID	A unique identifier assigned to a batch of documents
---------	--

Saldo	an integer representing the current credit saldo
CostInCredits	Total cost of processing in credits
NetworkedInvoices	number of letters sent to Netposti
Letters	number of letters in request/response
LetterPages	number of pages of letters in request/response
RejectedDocument	number of rejected documents (invoices)
AcceptedDocument	number of accepted documents (invoices)

In addition there can be detailed information about the RejectedDocuments or AcceptedDocuments (one group / document) as follows:

RejectedDocumentID	Either document number or position inside the invoice data file
ValidateText	Text describing reason for rejection (in english)
ValidateText:fi	Optional: Text describing reason for rejection (in finnish)
ValidateText:sv	Optional: Text describing reason for rejection (in swedish)
AcceptedDocumentID	Document number
ValidateText	Additional information about the document processing (in english)
ValidateText:fi	Optional: Additional information about the document processing (in finnish)
ValidateText:sv	Optional: Additional information about the document processing (in swedish)

**Metadata:**

**Schema file [Letters.xsd](#)**

```

<?xml version="1.0" encoding="UTF-8"?>
<Letter Version="1.0">
  <DocumentID>_UNIQUEID_FOR_DOCUMENT_</DocumentID>
  <SenderPartyDetails>
    <SenderPartyIdentifier>_BUSINESSID_</SenderPartyIdentifier>
    <SenderOrganisationName>_NAME_</SenderOrganisationName>
    <SenderOrganisationName>_NAME2_</SenderOrganisationName>
    <SenderPostalAddressDetails>
      <SenderStreetName>_STREETNAME1_</SenderStreetName>
      <SenderStreetName>_STREETNAME2_</SenderStreetName>
      <SenderTownName>_CITY_</SenderTownName>
      <SenderPostCodeIdentifier>_POSTALCODE_</SenderPostCodeIdentifier>
      <CountryCode>_COUNTRYCODE_ISO3361</CountryCode>
    </SenderPostalAddressDetails>
  </SenderPartyDetails>
  <DeliveryPartyDetails>
    <DeliveryPartyIdentifier>_IDENTIFIER_FOR_RECIPIENT_</DeliveryPartyIdentifier>
    <DeliveryOrganisationName>_NAME_</DeliveryOrganisationName>
    <DeliveryOrganisationName>_NAME2_</DeliveryOrganisationName>
    <DeliveryPostalAddressDetails>
      <DeliveryStreetName>_STREETNAME1_</DeliveryStreetName>
      <DeliveryStreetName>_STREETNAME2_</DeliveryStreetName>
      <DeliveryTownName>_CITY_</DeliveryTownName>
      <DeliveryPostCodeIdentifier>_POSTALCODE_</DeliveryPostCodeIdentifier>
      <CountryCode>_COUNTRYCODE_ISO3361_</CountryCode>
    </DeliveryPostalAddressDetails>
  </DeliveryPartyDetails>
  <InvoiceUrlNameText>APIX_PDFFILE</InvoiceUrlNameText>
  <InvoiceUrlText>file://_DOCUMENT_0.pdf</InvoiceUrlText>
</Letter>

```

#### Example:

#### HTTP Request

```

PUT
/print?soft=Standard&ver=1.0&TraID=e4fb42c4-2e72-4e8c-80aa-3724e402c0a8&t=201006051234
12&d=SHA-256:398217e7a83e4e88fcc839b4566f7c897a1f8f09dfc8479513ffe26c6a3fb1a
HTTP/1.1
Content-Type: application/octet-stream
Content-Lenght: <length in bytes>

[The zip file as binary, containing datafile, image-pdf/invoice,
attachment-zip/invoice]

```

## Response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Response version="1.0">
  <Status>OK</Status>
  <StatusCode>1000</StatusCode>
  <FreeText language="en">OK</FreeText>
  <Content>
    <Group>
      <Value type="BatchID">1633b003-0315-44ca-a687-a25f92bf6123</Value>
      <Value type="Saldo">199</Value>
      <Value type="CostInCredits">1</Value>
      <Value type="NetworkedInvoices">0</Value>
      <Value type="Letters">1</Value>
      <Value type="LetterPages">2</Value>
      <Value type="AcceptedDocument">1</Value>
    </Group>
    <Group>
      <Value type="AcceptedDocumentID">1001</Value>
      <Value type="ValidateText">Document InvoiceID OK</Value>
    </Group>
  </Content>
</Response>
```

## SendPayslip

Sends a payslip for delivery.

Apix expects to get a ZIP-file with exactly one XML file and at least 1 PDF (the image of the payslip). It is possible to include other pdf files as attachments. XML must contain a reference to all the pdf files. XML is described at [https://www.tieke.fi/display/verkkopalkka/PayslipXML\\_v.2.0](https://www.tieke.fi/display/verkkopalkka/PayslipXML_v.2.0). To send other formats, please contact Apix to agree on details.

*Note: Usage of this service requires a valid contract of type 'Lähetä'.*

**PRODUCTION URL:** <https://api.apix.fi/sendpayslip?TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

**TEST URL:** <https://test-api.apix.fi/sendpayslip?TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

### HTTP Method:

PUT

### Authentication:

Yes. Authentication with SHA-256 digest using the TransferKey as the 'shared secret'.

See [appendix- SHA-256 usage in APIX webservises API](#)

### Parameters:

<TransferID>	the unique TransferID assigned to the customer	
<Timestamp>	the UTC time and date: CCYYMMDDHHMMSS	
<digest>	SHA-256 digest	

### Response:

See 2- Response message structure.

### Value types:

BatchID	A unique identifier assigned to a batch of documents
Saldo	an integer representing the current credit saldo

CostInCredits	Total cost of processing in credits
NetworkedPayslips	number of letters sent electronically
Letters	number of letters in request/response
LetterPages	number of pages of letters in request/response
RejectedDocument	number of rejected documents (invoices)
AcceptedDocument	number of accepted documents (invoices)

In addition there can be detailed information about the RejectedDocuments or AcceptedDocuments (one group / document) as follows:

RejectedDocumentID	Either document number or position inside the invoice data file
ValidateText	Text describing reason for rejection (in english)
ValidateText:fi	Optional: Text describing reason for rejection (in finnish)
ValidateText:sv	Optional: Text describing reason for rejection (in swedish)

## Receiving functions

Received invoices are kept available for download for 3 calendar months.

### ReceiveInvoiceZIP

*Note: Usage of this service requires a valid contract of type 'Vastaanota'.*

**Note** Preferred way is to use list+download instead of ReceiveInvoiceZip

Allows receiving of a ZIP-file containing one invoice (finvoice format) and it's corresponding PDF-image and optionally also attachments (as single zip-file) to the invoice.

The service will return one invoice at each invocation of the call. If no invoices are present the returned payload is empty. When the invoice is requested it is marked as fetched and will be removed from the service depending on the service agreement with the recipient.

If the invoice-zip needs to be fetched again an optional <resend> parameter can be added to the request, which gives the invoice last fetched again. If needed a specific invoice can be retrieved regardless of the fetched status by defining the exact documentid for the invoice.

**PRODUCTION URL:** <https://terminal.apix.fi/receive?TraID=<TransferID>&t=<Timestamp>&soft=<SoftwareName>&ver=<SoftwareVersion>&resend=<resend>&d=SHA-256:<digest>>

**TEST URL:** <https://test-terminal.apix.fi/receive?TraID=<TransferID>&t=<Timestamp>&soft=<SoftwareName>&ver=<SoftwareVersion>&resend=<resend>&d=SHA-256:<digest>>

#### HTTP Method:

GET

#### Authentication:

Yes. Authentication with SHA-256 digest using the TransferKey as the 'shared secret'.

See [appendix- SHA-256 usage in APIX webservices API](#)

#### Parameters:

SoftwareName	The name of using software
SoftwareVersion	The version of using software
TransferID	The TransferID identifying the owner of the storage
TimeStamp	In the format CCYYMMDDHHMMSS. All times are in UTC
OPTIONAL: <Resend>	If this parameter is set to '1'. The invoice-zip latest transferred is sent again.
Digest	The calculated SHA256 digest of the parameters and TransferKey (TRANSFERKEY). Digest is calculated from: SoftwareName+SoftwareVersion+TransferID+TimeStamp(+Resend)

#### Response:

[The zip file as binary, containing datafile (data.xml), image-pdf, attachment-zip] or empty

**Example:**

**HTTP Request**

```
GET
/receive?soft=Economix&ver=1.0&TraID=e4fb42c4-2e72-4e8c-80aa-3724e402c0a8&t=20100605123412&d=SHA-256:398217e7a83e4e88fcc839b4566f7c897a1f8f09dfc8479513ffe26c6a3fb1a
```

**Response**

[The zip file as binary, containing datafile, image-pdf/invoice, attachment-zip/invoice] or empty

**ListInvoiceZIPs**

*Note: Usage of this service requires a valid contract of type 'Vastaanota'.*

Allows listing of incoming invoices in the service.

The service will return list of invoices and the "fetch status" of incoming invoices for current and previous month.

Information for up to 500 invoices are returned, those already marked to be received are dropped first if more than 500 are found.

**PRODUCTION URL:**<https://terminal.apix.fi/list2?TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

**TEST URL:**<https://test-terminal.apix.fi/list2?TraID=<TransferID>&t=<Timestamp>&d=SHA-256:<digest>>

**HTTP Method:**

GET

**Authentication:**

Yes. Authentication with SHA-256 digest using the TransferKey as the 'shared secret'.

See appendix- SHA-256 usage in APIX webservises API

**Parameters:**

TransferID	The TransferID identifying the owner of the storage
TimeStamp	In the format CCYYMMDDHHMMSS. All times are in UTC
Digest	The calculated SHA256 digest of the parameters and TransferKey (TRANSFERKEY)

**Response:**

See 2- Response message structure

**Value types:**

Storageld	Id of the storage
Status	Received or Unreceived

[List2 StorageStatus/Transferstatus explanation](#)



StorageStatus	TransferStatus	Explanation
NEW		Still being created, do not fetch
UNRECEIVED	NEW	Ready to be fetched
RECEIVED	RETRIEVED	Fetches at least once
DELETED		Scheduled to be removed

**Example:**

**HTTP Request**

```
GET
/list2?TraID=e4fb42c4-2e72-4e8c-80aa-3724e402c0a8&t=20100605123412&d=SHA-256:398217e7a83e4e88fcc839b4566f7c897a1f8f09dfc8479513ffe26c6a3fb1a
```

**Response**

```
<Response>
  <Status>OK</Status>
  <StatusCode>2700</StatusCode>
  <Content>
    <Group>
      <Value type="DocumentID">1371</Value>
      <Value type="DueDate">20150401</Value>
      <Value type="SellerReference">N/A</Value>
      <Value type="SenderVAT">104351234-6</Value>
      <Value type="DocumentDate">20150322</Value>
      <Value type="PaymentStatus">NOTPAID</Value>
      <Value type="PaymentReference">1180050173</Value>
      <Value type="SenderName">Testi Ohjelmat Oy</Value>
      <Value type="TransferStatus">NEW</Value>
      <Value type="ReceiverVAT">N/A</Value>
      <Value type="DocumentName">invoice.xml</Value>
      <Value type="ImageName">Lasku_1183.pdf</Value>
      <Value type="AmountToPay">122.88</Value>
      <Value type="ReceiverId">123451-2</Value>
      <Value type="CreatedDate">20150323</Value>
      <Value type="ApprovalStatus">NEUTRAL</Value>
      <Value type="BankAccount">FI8529501800020574</Value>
      <Value type="OrderReference">N/A</Value>
      <Value type="Currency">EUR</Value>
      <Value type="ReceiverName">Test Receiver</Value>
      <Value type="StorageKey">185629244874</Value>
      <Value type="StorageID">51974e79-feef-adsaf-b543-43adsf0fca</Value>
      <Value type="StorageStatus">UNRECEIVED</Value>
      <Value type="DocumentOrigin">eInvoice</Value>
    </Group>
  </Content>
</Response>
```

## ListInvoiceZIP2ForDate

Works as ListInvoiceZIP2 but searches for certain date, disregards status, and has no limit

Note: Usage of this service requires a valid contract of type 'Vastanota'.

The service will return invoices for certain date.

**PRODUCTION URL:**<https://terminal.apix.fi/list2fordate?TraID=<TransferID>&date=<Date>&t=<Timestamp>&d=SHA-256:<digest>>

**TEST URL:**<https://test-terminal.apix.fi/list2fordate?TraID=<TransferID>&date=<Date>&t=<Timestamp>&d=SHA-256:<digest>>

**HTTP Method:**

GET

**Authentication:**

Yes. Authentication with SHA-256 digest using the TransferKey as the 'shared secret'.

See [appendix- SHA-256 usage in APIX webservices API](#)

**Parameters:**

TransferID	The TransferID identifying the owner of the storage
TimeStamp	In the format CCYYMMDDHHMMSS. All times are in UTC
Digest	The calculated SHA256 digest of the parameters and TransferKey (TRANSFERKEY)
Date	Date in format of yyyy-MM-dd

**Response:**

See [2- Response message structure](#)

Value types:	
Storageld	Id of the storage
Status	Received or Unreceived

**Example:**

**HTTP Request**

```
GET /list2fordate?TraID=e4fb42c4-2e72-4e8c-80aa-3724e402c0a8&date=2010-06-05&t=20100605123412&d=SHA-256:3982
```

## SetReceiveEmail

Note: Usage of this service requires a valid contract of type 'Vastanota'.

Sets the email-address for sending the received invoices.

**PRODUCTION URL:**<https://api.apix.fi/email?uid=<TransferID>&t=<timestamp>&d=SHA-256:<digest>>

**TEST URL:**<https://test-api.apix.fi/email?uid=<TransferID>&t=<timestamp>&d=SHA-256:<digest>>

**HTTP Method:**

PUT

**Authentication:**

Yes. Authentication with SHA-256 hash (<SHA-256:digest>) using the TransferKey as the 'shared secret'.

See [appendix- SHA-256 usage in APIX webservices API](#)

**Parameters:**

<TransferID>	the unique TransferID assigned to the customer
--------------	--

<Timestamp>	the UTC time and date: CCYYMMDDHHMMSS
<digest>	SHA-256 digest

**Request:**

See 1- Request message structure

**Value types:**

Email	Valid email address for receiving the invoices. If empty - the default address given at registration time is used
DaysBeforeEmail	0-5. Where 0 means; do not send email (DEFAULT) and 1 means the same day, 2 next day and so on.

**Response:**

See 2- Response message structure

**Value types:**

PreviousEmail	The email used before the call
---------------	--------------------------------

**Example:**

**Request**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Request version="1.0">
  <Content>
    <Group>
      <Value type="Email">servicedesk@apix.fi</Value>
      <Value type="DaysBeforeEmail">0</Value>
    </Group>
  </Content>
</Request>
```

**Response**

```
<Response>
  <Status>OK</Status>
  <StatusCode>5000</StatusCode>
  <FreeText language="en">OK</FreeText>
  <Content>
    <Group>
      <Value type="PreviousEmail">invoicing@apix.fi</Value>
    </Group>
  </Content>
</Response>
```

**Download**

**AUTHENTICATION for Download is through StorageID and StorageKEY.**

Retrieves the requested files from the storage - if no file defined returns all UNLOCKED files from the specified storage as zip-file. The return

value is the contents of the file.

**URL:** <https://terminal.apix.fi/download?SID=<StorageID>&t=TimeStamp&d=SHA-256:<Digest>>

**URL TEST:** <https://test-terminal.apix.fi/download?SID=<StorageID>&t=TimeStamp&d=SHA-256:<Digest>>

**HTTP Method:**

GET

Returns contents of the whole storage with attachments.

**Authentication:**

Yes. The separate SHA-256 digest is calculated from all the parameters and addition with the StorageKey as the shared secret. The calculated digest is headed by string "SHA-256:".

Digest is calculated from: (MarkReceived+) StorageID+TimeStamp+StorageKey

**Parameters:**

MarkReceived	Optional parameter. Using this the storage status is marked as 'Received' when downloaded. Valid values are: 'markreceived=yes' and 'markreceived=no'.  If this is not used and get request is done to receive whole storage, it is marked as received.
StorageID	The storageid to download the file from
TimeStamp	In the format CCYYMMDDHHMMSS. All times are in UTC
Digest	The calculated SHA256 digest of the parameters and storagekey (KEY)

**Example:**

**Response:**

The requested file as payload in HTTP response body.

or in case of error (Wrong key, or storageid) nothing. Other errors returned at HTTP-response level.

## GetMetadata

Returns all stored metadata for given storage and all the files stored inside it.

**URL:** <https://terminal.apix.fi/metadata?TraID=<TransferID>&SID=<StorageID>&t=<Timestamp>&d=SHA-256:<digest>>

**URL TEST:** <https://test-terminal.apix.fi/metadata?TraID=<TransferID>&SID=<StorageID>&t=<Timestamp>&d=SHA-256:<digest>>

**HTTP Method:**

GET

**Authentication:**

Yes. The separate SHA-256 digest is calculated from all the parameters and addition with the TransferKey password as the shared secret. The calculated digest is headed by string "SHA-256:".

Digest is calculated from: StorageID+TransferID+Timestamp+TransferKey

**Parameters:**

TransferID	The TransferID identifying the owner of the storage
StorageID	The storageid to lock the file in
TimeStamp	In the format CCYYMMDDHHMMSS. All times are in UTC
Digest	The calculated SHA256 digest of the parameters and TransferKey (TRANSFERKEY)

**Request:**

See: [Request- TERMINAL](#)

**Value types:**

**Response:**

See: [Response- TERMINAL](#)

**Value types:**

FileName	Filename
----------	----------

**Example:**

Request

Response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Response>
  <Status>OK</Status>
  <StatusCode>2A00</StatusCode>
  <Content>
    <Group>
      <Value type="email">uusi-email</Value>
      <Value type="saaaa">t&#xE4;h&#xE4;n jotain ylim&#xE4;&#xE4;r&#xE4;ist&#xE4; informaatiota</Value>
    </Group>
    <Group>
      <Value type="FileName">Lasku 1196.pdf</Value>
      <Value type="email">tannelahtee@apix.fi</Value>
    </Group>
  </Content>
</Response>
```

## Accounting functions

### GetSaldo

Retrieves the company's current credit saldo (amount of netstamps)

**PRODUCTION URL:** <https://api.apix.fi/saldo?id=<company-unique-id>>

**TEST URL:** <https://test-api.apix.fi/saldo?id=<company-unique-id>>

**HTTP Method:**

GET

**Authentication:**

No.

**Parameters:**

<company-unique-id>	the system assigned unique-id for the company.
---------------------	--

**Response:**

See ?2- Response message structure.

Value types:	
Saldo	a decimal representing the current credit saldo

**Example:**

```

<Response>
  <Status>OK</Status>
  <StatusCode>5000</StatusCode>
  <FreeText language="en">OK</FreeText>
  <Content>
    <Group>
      <Value type="Saldo">200</Value>
    </Group>
  </Content>
</Response>

```

## GetUsedSaldo

Retrieves the total amount of used credits for a company

**PRODUCTION URL:** <https://api.apix.fi/usedsaldo?id=<company-unique-id>>

**TEST URL:** <https://test-api.apix.fi/usedsaldo?id=<company-unique-id>>

**HTTP Method:**

GET

**Authentication:**

No.

**Parameters:**

<company-unique-id>	the system assigned unique-id for the company.
---------------------	--

**Response:**

See ?2- Response message structure.

**Value types:**

UsedSaldo	a decimal representing the total used credits
-----------	---

**Example:**

```

<Response>
  <Status>OK</Status>
  <StatusCode>5000</StatusCode>
  <FreeText language="en">OK</FreeText>
  <Content>
    <Group>
      <Value type="UsedSaldo">30512</Value>
    </Group>
  </Content>
</Response>

```

## Payslip API

### Delete

Delete requested payslip

**URL:** <https://terminal.apix.fi/senderpayslip?TraID=<TransferID>&t=TimeStamp&hash=<ReceiverHash>&date=<DateID>&D=SHA-256:<Digest>>

**HTTP Method:**

DELETE

**Authentication:**

Yes. The separate SHA-256 digest is calculated from all the parameters and addition with the TransferKey as the shared secret. The calculated digest is headed by string "SHA-256:".

**Parameters:**

TraID	User transfer ID
TimeStamp	In the format CCYYMMDDHHMMSS. All times are in UTC
ReceiverHash	MD5 hex value of person id
DateID	Payslip date in the format of YYYYMMDD and payslip ID separated with "-" example: 20200515-7645849
Digest	The calculated SHA256 digest of the parameters and transferKey (TraID+ReceiverHash+DateID+TimeStamp+Tkey)

**Example:**

Response on succesful delete:

```
<Response>
<Status>OK</Status>
<StatusCode>7PS00</StatusCode>
  <Content>
    <Group>
      <Value type="StorageQuota">9999999</Value>
    </Group>
  </Content>
</Response>
```