# WININVOICE API DOCUMENT

## History

|  |  |  |  |
| --- | --- | --- | --- |
| Date (dd/mm/yyyy) | Version | Author | Email |
| 01/05/2023 | 3.7.3.4 | Phat HT | [phatht@win-tech.vn](mailto:phatht@win-tech.vn) |
| 20/11/2023 | 3.7.3.5 | Phat HT | [phatht@win-tech.vn](mailto:phatht@win-tech.vn) |
| 15/04/2023 | 3.7.3.6 | Phat HT | [phatht@win-tech.vn](mailto:phatht@win-tech.vn) |

## API Request Format and Authen:

### API request format

* Default is JSON
* For XML format, please add query parameter [type] with value “xml”
  + Example:

https://demo.evat.vn/api/invoice/add\_type\_2?**type=xml**

### API authentication: Use basic authentication

* Add Authorization header with structure:

Authorization: Basic *base64\_encode*(<clientID>:<clientSecret>)

* Example:

clientID = ‘sampleClient01’

clientSecret= ‘sampleSecret01’

base64\_encode(‘sampleClient01’ + ‘:’ + ‘sampleSecret01’)=

“c2FtcGxlQ2xpZW50MDE6c2FtcGxlU2VjcmV0MDE=”

* + Php CURL:

CURLOPT\_HTTPHEADER => **array**(

   …

    'Authorization: Basic c2FtcGxlQ2xpZW50MDE6c2FtcGxlU2VjcmV0MDE='

…

  )

* + C# + RestSharp:

**var** request = **new** RestRequest(Method.POST);

request.AddHeader("Authorization", "Basic c2FtcGxlQ2xpZW50MDE6c2FtcGxlU2VjcmV0MDE=");

…

* + Postman config:



## API Response

### Format: JSON

|  |  |  |
| --- | --- | --- |
| Structure | isSuccess | Boolean : 1|0 |
| data | JSON String Object – API Data result from server |
| errorMessage | Error message from server |

Example:



### Format: XML

|  |  |  |  |
| --- | --- | --- | --- |
| Structure | rs |  | XML Root |
|  | isSuccess | Boolean : 1|0 |
|  | data | XML Object – API Data result from server |
|  | errorMessage | Error from server |

## Error Code & Message

Error message structure: <ErrorCode> + <Error Message>

Example: “ER01: Missing Client ID”

|  |  |  |
| --- | --- | --- |
| Error Code | Error Message | Note |
| ER00 | SYSTEM ERROR |  |
| ER01 | Missing Client ID |  |
| ER02 | Missing Token |  |
| ER03 | Invalid Client ID |  |
| ER04 | Client is not active |  |
| ER05 | Invalid/Missing <cid> field in token |  |
| ER06 | Missing <exp>/<iat> field in token |  |
| ER20 | Key/Secret may not be empty | (not use in client) |
| ER21 | Algorithm not allowed |  |
| ER22 | Wrong number of segments/ Invalid token format |  |
| ER23 | Invalid header encoding |  |
| ER24 | Invalid claims encoding |  |
| ER25 | Empty algorithm/ <alg> field missing in token header |  |
| ER26 | Algorithm not supported (supported: HS256, HS512, HS384, RS256) |  |
| ER27 | Algorithm not allowed (supported: HS256, HS512, HS384, RS256) |  |
| ER28 | <kid> field empty, unable to lookup correct key |  |
| ER29 | Signature verification failed |  |
| ER30 | <nbf> field invalid valie |  |
| ER31 | <iat> field invalid value |  |
| ER32 | Expired token |  |
|  |  |  |
| ER40 | Missing required field data |  |
| ER41 | Date string invalid |  |
| ER42 | Data Not Found |  |
| - | -Some other error without error code – will has description with it - |  |

## API LIST

### POST - Invoice – Creat/Update invoice

|  |  |
| --- | --- |
| Action | /api/invoice/add\_type\_2 |
| Type | POST |
| Post data | {  "invName" : Invoice sample name, ex: 1,2,6    "invSerial" : Invoice sign, ex: C24TAA, K24TXX    "invNumber" : Invoice number    "invDate" : Invoice date (format: yyyy/mm/dd)    "invCustomer" : Customer is not company? Value 1|0    "invRef" : 3rd party Bill-ID (unique for each Bill)    "invRefDate" :   Bill date (format: yyyy/mm/dd)    "billNumber" :   Bill number - extend    "buyerTax" : Buyer tax-number    "buyerCode" : Buyer-id    "buyerName" : Buyer full name    "buyerCompany" : Buyer company/ organization name    "buyerAddress" : Buyer full address    "buyerAcc" : Buyer bank account number    "buyerBank" : Buyer bank name    "buyerEmail" : Buyer email    "buyerPhone" : Buyer phone number    "buyerFax" : Buyer fax number    "invSubTotal" : Invoice Subtotal (not include VAT, not include discount)    "invVatRate" : VAT Rate    "invVatAmount" : VAT Amount    "invTotalAmount" : Invoice Total    "invPayment" : Payment method    "invExchangeRate" : Exchange rate (to VietNam đồng)    "invCurrency" : Payment currency    "note" : Note for discount    "invAutoSign" : Request sign invoice immediately after create successful    "privateCode" : The UID string (10-12 chars), the buyer will use this code to lookup invoice (after invoice signed). If leave blank or field not exists, WinInvoice will generated automatically    "option" : Use for create adjustment/Replacement invoice    "invCodeOld" : Original invoice number    "invNameOld" : Original invoice sample name    "invSignOld" : Original invoice sign  “create04SSHDDT” : Auto create 04/SS-HĐĐT? Value 1|0 (default 1)  “reason04SSHDDT” : 04/SS-HĐĐT Reason    "items" : *[Array of item/product in this bill]*  [  {   "itemNo" : Item no.       "itemCode" : Product/Item code       "itemName" : Name of product  "itemPromo" : Is promotional product (gift)? Value 1|0(default 0)  "isDscnItem" : Is the discount line? Value 1|0 (default 0)       "itemUnit" : Product Unit       "itemQuantity" : Product quantity       "itemPrice" : Product unit price (not include VAT)       "itemVatRate" : Product VAT rate       "itemVatAmnt" : Product VAT Amount       "itemDscnAmnt" : Product Discount Amount       "itemAmountNoVat": Product Amount (not include VAT)  "adjustType" : Type of adjustment  "itemPack" : Product Lot       "itemDate" : Product expiration date       "itemNote" : Product note  },  …  ]  } |
| Response | {      "action" : Api description      "returnDate" : Api response date (yyyy-mm-dd HH:MM:SS      "isSuccess" : Is success or fail? true|false      "data": {          "oid" : WinInvoice’s ID          "invCode" : Invoice number (is “0000000” if has not signed)          "invRef" : 3rd party Bill-ID          "invSign" : Invoice sign, (as invSerial)          "invDate" : Invoice date, format yyyy-mm-dd          "invName" : Full invoice sample (invName + invSign)          "itemTotal" : Count of products in invoice          "itemError" : Count of error-products in invoice          "govTranfer" : Invoice has transferred to GOV? 1|0  "govTranID" : Transaction ID used to transfer invoice to GOV          "govTranferErr": Transferred to GOV has FAIL? 1|0          "govTranText" : Error message if transfer to GOV has FAIL          "govCode" : The UID string issue by GOV for this invoice          "autoSign" : Has request sign immediately ? 1|0      },      "tokenInfo" : Not use      "errorMessage" : Error message (when isSuccess = false)      "invRef" : 3rd party Bill-ID  } |
| Description | * GOV (Government) : in this document, it mean Vietnam General Department of Taxation * WinInvoice will lookup invoice by invRef , then:   + If exists and invoice has not signed, WinInvoice will auto update this invoice’ information (overwrite), if invoice has signed, an error will response to client.   + Otherwise, WinInvoice will create new invoice * If invAutoSign = 1, WinInvoice will auto sign invoice immediately after created * Values of invVatRate   + 0, 5, 8, 10 : 0%, 5%, 8%, 10%   + -1 : Not taxable   + -2 : Not declare and pay taxes * Values of option field: * 0 (or this field not exists): Create normal invoice * 1 : Create information-adjustment invoice (not change invoice total…) * 2 : Create increases- adjustment invoice (increate invoice total..) * 3 : Create decreases- adjustment invoice (decreate invoice total..) * 4 : Create replacement invoice, when this invoice has signed, the original will match “deleted” * Values of item.adjustType : (this field have effect when value of option field is 2 or 3)   + PRICE : Adjust unit price of item in original invoice   + QTTY : Adjust quantity of item in original invoice |

### POST – Delete Raw Invoice

|  |  |
| --- | --- |
| Action | /api/invoice/delete\_raw\_inv |
| Type | POST |
| Post data | {    "invcCode" : Invoice number    "invcSign" : Invoice sign, (as invSerial)    "invRef" : 3rd party Bill-ID  } |
| Response | {      …      "isSuccess": **true|false**,      "data": [          …      ],      "errorMessage": "",  } |
| Descript | Delete (remove all data) raw invoice  Lookup by invcCode + invcSign or invcSign + invRef |

### POST – Get Link to view RAW Invoice

|  |  |
| --- | --- |
| Action | /api/invoice/get\_link\_byref |
| Type | POST |
| Post data | {    "invRef" : 3rd party Bill-ID    "invSign" : Invoice sign, (as invSerial)    "invName" : Invoice sample name, ex: 1,2,6  "pdf" : Return link to pdf file? 1|0  } |
| Response | {  …      "isSuccess": **true|false**,      "data": {          "link" : Link to html file or pdf file          "signed" : Invoice has signed? value: 1|0      },      "errorMessage" : Error message if api fail (Ex: not found, etc…)  …  } |
| Descript | * Get link to view invoice * If the field pdf does not exist or the value of this field is equal to 0, the response link will be .html. Otherwise, the response link will be .pdf. * Important note: The PDF link is only valid for 1 hours. |

### POST – Get Link to view Signed Invoice

|  |  |
| --- | --- |
| Action | /api/invoice/get\_link |
| Type | POST |
| Post data | {    "invCode" : Invoice number    "invSign" : Invoice sign, (as invSerial)    "invName" : Invoice sample name, ex: 1,2,6  "pdf" : Return link to pdf file? 1|0  } |
| Response | {  …      "isSuccess": **true|false**,      "data": {          "link" : Link to html file or pdf file      },      "errorMessage" : Error message if api fail (Ex: not found, etc…)  …  } |
| Descript | * Get link to view signed invoice * If the field pdf does not exist or the value of this field is equal to 0, the response link will be .html. Otherwise, the response link will be .pdf. * Important note: The PDF link is only valid for 1 hours. |

### POST – Check sign status of invoice

|  |  |
| --- | --- |
| Action | /api/invoice/check\_signed |
| Type | POST |
| Post data | {      "invRef" : 3rd party Bill-ID      "invName" : Invoice sample name, ex: 1,2,6      "invSerial" : Invoice sign  } |
| Response | {  …      "isSuccess" : true**|**false,      "data": {          "invRef" : 3rd party Bill-ID,          "invName" : Invoice sample name,          "invSerial" : Invoice sign,          "signed" : Signed? 1|0,          "deleted" : Invoice match “deleted”? 1|0,          "invcCode" : Invoice number,          "invcDate" : Invoice date,          "govCode" : The UID string issue by GOV for this invoice,          "govTranID" : Transaction ID used to transfer invoice to GOV,          "privateCode" :      },      "errorMessage": "OK",  …  } |
| Descript | Check whether the invoice is signed or not |

### POST – REQUEST SEND INVOICE MAIL

|  |  |
| --- | --- |
| Action | /api/mailer/send\_inv\_mail |
| Type | POST |
| Post data | {      "invRef" : 3rd party Bill-ID      "sendTo" : Receiver emails (split by ; if there are multiple emails)      "updateMail" : Update the email address in the invoice to this new email address? 1|0  } |
| Response | {      …      "isSuccess": **true|false**,      "data": {},      "errorMessage": “”,  …  } |
| Descript | * Create request send |

### POST – GET INV EMAIL HISTORY

|  |  |
| --- | --- |
| Action | /api/mailer/inv\_mail\_history |
| Type | POST |
| Post data | {      "invRef" : 3rd party Bill-ID  } |
| Response | {  …      "isSuccess": **true|false**,      "errorMessage": "",      "data": [          {              "LogDate": "2024/04/05 15:37:27",              "StatusInfo": "SEND",              "Descript":          },          …      ],  …  } |
| Descript | Get send mail histories of invoice |

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