



Bid Offer API v1

Document Revision 1.0
Date of Issue: 19 May 2022

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1. Purpose

To provide the API end point information and examples of the web services available for Bid Offer API.

2. Glossary of Terms

Term	Meaning
LWIN	LWIN - the Liv-ex Wine Identification Number – serves as a universal wine identifier for the wine trade. LWIN is a unique seven to eighteen-digit numerical code that can be used to quickly and accurately identify a product. LWIN allows wine companies to keep their preferred naming system, while introducing a new universal code.

3. Technical Standards

- Permitted users will be issued with a unique token (CLIENT_KEY) and password (CLIENT_SECRET) combination to control the access for all the web services covered under Exchange Integration.
- The web services will consume and produce both XML and JSON. The user can provide the content type in the request header. If the user does not provide any information, then the default content type will be JSON.
- The service supports ISO 8601.
- The service only support HTTPS protocol for client and server communications.
- The API will support the following methods:
 - POST for read operation
- Pretty printing for output readability only is supported if required
- Compression for bandwidth savings is used
- Authentication mechanism will be custom based on CLIENT_KEY and CLIENT_SECRET
- The APIs will be accessible at <https://api.liv-ex.com/> followed by their specific base URIs

4. Request Header

This information will be used to authenticate valid access to the REST API. Each user will have to provide the following information in the request header. Please note that the API expects the 4 headers as listed within this documentation and submitting a request with additional headers may lead to errors and/or failed responses.

Parameter

Name	Mandatory	Description
CLIENT_KEY	Y	A valid GUID which will be unique for each user.
CLIENT_SECRET	Y	Password/Secret for the merchants CLIENT_KEY.
ACCEPT	Y	Accept header is a way for a client to specify the media type of the response content it is expecting. The values for the content type will be application/json or application/xml.

		If no/invalid content type is found in the request, then JSON format will be used by default.
CONTENT-TYPE	Y for POST requests	Content-type is a way to specify the media type of request being sent from the client to the server. The values for the content type will be application/json or application/xml. If no/invalid content type is found in the request, then JSON format will be used by default.

Example header

```
CLIENT_KEY: 12A34BC56-DE7F-89G0-H1J2345K678L
CLIENT_SECRET: dummy_password
ACCEPT: application/json
CONTENT-TYPE: application/json
```

Invalid header (JSON response)

```
{
  "status": "Unauthorized",
  "statusCode": "401",
  "message": "Unauthorized",
  "internalErrorCode": null,
  "apiInfo": {
    "version": "1.0",
    "timestamp": 1554364615297,
    "provider": "Liv-ex"
  }
}
```

Invalid header (XML response)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Response xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="https://aby-qa-api.liv-ex.com/v1 https://aby-qa-api.liv-
ex.com/schema/v1/services.xsd">
  <Status>Unauthorized</Status>
  <HttpCode>401</HttpCode>
  <Message>Unauthorized</Message>
  <InternalErrorCode xsi:nil="true"/>
  <ApiInfo>
    <Version>1.0</Version>
    <Timestamp>2019-04-04T12:02:37.092+01:00</Timestamp>
    <Provider>Liv-ex</Provider>
  </ApiInfo>
</Response>
```

5. API Listing

5.1 Bid Offer service (POST method)

Description

This service allows users to request information about all best live bids and/or offers available on the exchange. The API service returns information about the position, as well as market price and last trade values when requested.

Base URI

</exchange/v1/bidOffer>

URI Pagnation Parameters

Name	Mandatory	Description
?limit	N default = all results	Values: Any value Type: integer
?offset	N default = 1	Type: alphanumeric

If the limit is not specified in the request then the API returns all results on the offset 1.

Example base URI including pagination: </exchange/v1/bidOffer?limit=500&offset=1>

Request Parameters

Name	Mandatory	Description
includeBid	Y	Type: Boolean 'true' or 'false'
includeOffer	Y	Type: Boolean 'true' or 'false'
contractType	N Default = SIB	Values: 'sib', 'sep', 'x' Type: alphanumeric array
includeMarketPrice	N Default = false	Type: Boolean 'true' or 'false'
includeLastTrade	N Default = false	Type: Boolean 'true' or 'false'
currency	Y	Any possible trading currency, including the btt option Type: alphanumeric Not case sensitive
lwin	N	LWIN11/16/18. LWINs must all be of the same length per request Type: array Maximum input = 50 LWINs

Sample Request Body

JSON Request

```
{
  "bidOffer": {
    "includeBid": true,
    "includeOffer": false,
    "currency": "eur",
    "contractType": ["sib","x"],
    "includeMarketPrice": true,
    "includeLastTrade": true
  }
}
```

XML Request

```
<bidOfferRequest>
  <bidOffer>
    <includeBid>false</includeBid>
    <includeOffer>true</includeOffer>
    <currency>GBP</currency>
    <contractType>SIB</contractType>
    <contractType>SP</contractType>
    <listID/>
    <includeMarketPrice>true</includeMarketPrice>
    <includeLastTrade>true</includeLastTrade>
  </bidOffer>
</bidOfferRequest>
```

Sample Response Body

The Bid Offer Change Since service will respond with HTTP Code 200 OK in a successful response.

Response parameters

Name	Description
lwin	LWIN11 / LWIN18 Type: alphanumeric
lwinName	The LWIN wine name description e.g. 'Chateau Grand-Puy-Lacoste 5eme Cru Classe, Pauillac' Type: alphanumeric
vintage	Type: 4-digit integer
currency	Type: alphanumeric
iwp	Type: alphanumeric
packSize	The LWIN pack size description e.g. '06' Type: 2-digit integer
bottleSize	The LWIN bottle size description e.g. '00750' Type: 5-digit integer
contractType	SIB, SEP, X Type: alphanumeric
dutyPaid	Type: Boolean 'true' or 'false'
minimumQty	Type: integer
deliveryPeriod	States the lead time on the offer in weeks. Standard Liv-ex terms (SIB) are 2 weeks. <i>If deliveryPeriod = 0, the offer is Special Now</i> <i>If contractType = SEP, then deliveryPeriod = null</i> Type: integer
condition	Text field that states any issues with the stock or its packaging. <i>null unless contractType = X</i>

	Type: string
highResolutionUrl	HTTP link to a high resolution version of the photo resource Type: alphanumeric
lowResolutionUrl	HTTP link to a low resolution version of the photo resource Type: alphanumeric
parentOrderGUID	null unless contractType = x and priceType = bid The orderGUID reference of the offer that the bid position is linked to Type: 128-bit hexadecimal
marketPrice	Market price value Type: double
lastTradePrice	Last trade value Type: double
lastTradeDate	Date of the last trade Type: date (epoch time if JSON)
priceType	Values: 'bid', 'offer' Type: string
price	Type: double
quantity	Type: integer
myPosition	Indicates whether the bid/offer position is owned by the merchant calling the service Type: Boolean true/false
orderGUID	The GUID of the bid/offer position. Type: 128-bit hexadecimal
priceDate	Type: date (epoch time if JSON)

Sorting:

1. Items in the response will be grouped by LWIN11.
2. Sorting order:
 - 1st level: By price date. Most recently created/updated markets will be presented first
 - 2nd level: Sorting by contract type: SIB - >SEP -> X
 - 3rd level: Sorting by pack and bottle size: Smallest bottle size first, largest pack size first
 - Bottle size (ascending order: 37.5 -> 75 -> 150 -> 300)
 - Pack size (descending order: 24 -> 12 -> 6 -> 3 -> 1)

JSON Response

The response is sent per request.

```
{
  "status": "OK",
  "statusCode": "200",
  "message": "Request completed successfully",
  "internalErrorCode": "R001",
  "apiInfo": {
    "version": "1.0",
    "timestamp": 1652950732462,
  }
}
```

```

        "provider": "Liv-ex"
    },
    "pageInfo": {
        "totalResults": 14185,
        "limit": 2,
        "offset": 1
    },
    "bidOfferResponse": [
        {
            "lwin": "10515082015",
            "lwinName": "Domaine Ponsot, Clos de la Roche Grand Cru, Cuvee Vieilles Vign
es",
            "vintage": "2015",
            "currency": "EUR",
            "iwp": "https://app.liv-ex.com/#/wine-page?lwin11=10515082015",
            "market": [
                {
                    "lwin": "105150820151200750",
                    "packSize": "12",
                    "bottleSize": "00750",
                    "contractType": "SIB",
                    "special": {
                        "dutyPaid": false,
                        "minimumQty": 1,
                        "deliveryPeriod": 2,
                        "condition": null,
                        "photos": [],
                        "parentOrderGUID": null
                    },
                    "marketPrice": null,
                    "lastTradePrice": null,
                    "lastTradeDate": null,
                    "depth": {
                        "bids": {
                            "bid": []
                        },
                        "offers": {
                            "offer": [
                                {
                                    "priceType": "Offer",
                                    "price": 4812.0,
                                    "quantity": 1,
                                    "myPosition": false,
                                    "orderGUID": "b2f89fff-9-8a0f-3876082f3e48",
                                    "priceDate": 1652889560000
                                }
                            ]
                        }
                    }
                }
            ]
        },
        {
            "errors": null
        }
    ],
    {
        "lwin": "10141631855",
        "lwinName": "Chateau Pichon Baron 2eme Cru Classe, Pauillac",
        "vintage": "1855",
        "currency": "EUR",
        "iwp": "https://app.liv-ex.com/#/wine-page?lwin11=10141631855",
        "market": [
            {
                "lwin": "101416318551200750",
                "packSize": "12",
                "bottleSize": "00750",
            }
        ]
    }
}

```



```

        "contractType": "SIB",
        "special": {
            "dutyPaid": false,
            "minimumQty": 1,
            "deliveryPeriod": 2,
            "condition": null,
            "photos": [],
            "parentOrderGUID": null
        },
        "marketPrice": null,
        "lastTradePrice": null,
        "lastTradeDate": null,
        "depth": {
            "bids": {
                "bid": [
                    {
                        "priceType": "Bid",
                        "price": 656.27,
                        "quantity": 1,
                        "myPosition": true,
                        "orderGUID": "dce5b04f-7-b2d3-f0fc526546be",
                        "priceDate": 1652799556000
                    }
                ]
            },
            "offers": {
                "offer": [
                    {
                        "priceType": "Offer",
                        "price": 1094.73,
                        "quantity": 12,
                        "myPosition": true,
                        "orderGUID": "27601df3-b409-9c37d055260c",
                        "priceDate": 1652799513000
                    }
                ]
            }
        }
    },
    "errors": null
},
"errors": null
}

```

Invalid JSON response

```

{
    "status": "Bad Request",
    "statusCode": "400",
    "message": "Request was unsuccessful",
    "internalErrorCode": "R000",
    "apiInfo": {
        "version": "1.0",
        "timestamp": 1652950861578,
        "provider": "Liv-ex"
    },
    "pageInfo": null,
    "bidOfferResponse": null,
    "errors": {
        "error": [
            {

```

```

        "code": "V061",
        "message": "Invalid / incorrect currency: [£]. Possible values are 'gbp', 'eur', 'chf', 'usd', 'hkd', 'jpy', 'sgd', 'gbpbtt', 'eurbtt', 'chfbtt', 'gbp/btt', 'eur/btt', 'chf/btt'."
    }
  ]
}

```

XML Response

The response is sent per request.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<root>
  <Status>OK</Status>
  <HttpCode>200</HttpCode>
  <Message>Request completed successfully</Message>
  <InternalErrorCode>R001</InternalErrorCode>
  <ApiInfo>
    <Version>1.0</Version>
    <Timestamp>2022-05-19T09:01:36.492Z</Timestamp>
    <Provider>Liv-ex</Provider>
  </ApiInfo>
  <pageInfo>
    <totalResults>11550</totalResults>
    <limit>2</limit>
    <offset>1</offset>
  </pageInfo>
  <bidOfferResponse>
    <lwin>10515082015</lwin>
    <lwinName>Domaine Ponsot, Clos de la Roche Grand Cru, Cuvee Vieilles Vignes</lwinName>
    <vintage>2015</vintage>
    <currency>GBP</currency>
    <iwp>https://app.liv-ex.com/#/wine-page?lwin11=10515082015</iw>
    <market>
      <lwin>105150820151200750</lwin>
      <packSize>12</packSize>
      <bottleSize>00750</bottleSize>
      <contractType>SIB</contractType>
      <special>
        <dutyPaid>>false</dutyPaid>
        <minimumQty>1</minimumQty>
        <deliveryPeriod>2</deliveryPeriod>
        <condition xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <parentOrderGUID xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
      </special>
      <marketPrice>4599.0</marketPrice>
      <lastTradePrice xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
      <lastTradeDate xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
      <depth>
        <bids/>
        <offers>
          <offer>
            <priceType>Offer</priceType>
            <price>4000.0</price>
            <quantity>1</quantity>

```

```

        <myPosition>false</myPosition>
        <orderGUID>b2f89fff- 8a0f-3876082f3e48</orderGUID>
        <priceDate>2022-05-18T15:59:20Z</priceDate>
    </offer>
</offers>
</depth>
</market>
</bidOfferResponse>
<bidOfferResponse>
    <lwin>10141631855</lwin>
    <lwinName>Chateau Pichon Baron 2eme Cru Classe, Pauillac</lwinName>
    <vintage>1855</vintage>
    <currency>GBP</currency>
    <iwp>https://app.liv-ex.com/#/wine-page?lwin11=10141631855</iwp>
    <market>
        <lwin>101416318551200750</lwin>
        <packSize>12</packSize>
        <bottleSize>00750</bottleSize>
        <contractType>SIB</contractType>
        <special>
            <dutyPaid>false</dutyPaid>
            <minimumQty>1</minimumQty>
            <deliveryPeriod>2</deliveryPeriod>
            <condition xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
            <parentOrderGUID xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
        </special>
        <lastTradePrice xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
        <lastTradeDate xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
        <depth>
            <bids>
                <bid>
                    <priceType>Bid</priceType>
                    <price>559.0</price>
                    <quantity>1</quantity>
                    <myPosition>false</myPosition>
                    <orderGUID>dce5b04f-8d41-4b87-f0fc526546be</orderGUID>
                    <priceDate>2022-05-17T14:59:16Z</priceDate>
                </bid>
            </bids>
            <offers>
                <offer>
                    <priceType>Offer</priceType>
                    <price>910.0</price>
                    <quantity>12</quantity>
                    <myPosition>false</myPosition>
                    <orderGUID>27601df3-ee0d-4b04-9c37d055260c</orderGUID>
                    <priceDate>2022-05-17T14:58:33Z</priceDate>
                </offer>
            </offers>
        </depth>
    </market>
</bidOfferResponse>
</root>

```

Invalid XML Response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<root>
  <Status>Bad Request</Status>
  <HttpCode>400</HttpCode>
  <Message>Request was unsuccessful</Message>
  <InternalErrorCode>R000</InternalErrorCode>
  <ApiInfo>
    <Version>1.0</Version>
    <Timestamp>2022-05-19T09:03:23.340Z</Timestamp>
    <Provider>Liv-ex</Provider>
  </ApiInfo>
  <errors>
    <error>
      <code>V018</code>
      <message>Mandatory field missing(currency).</message>
    </error>
  </errors>
</root>
```

6. Response Codes

This section describes the response codes that will be returned by the Exchange Integration services.

Code	Message
R000	Request was unsuccessful
R001	Request completed successfully
R002	Request partially completed

6.1 Request validation error codes

Code	Message
V018	Mandatory field missing(%s).
V058	Invalid / incorrect LWIN: [%s]. Please provide a valid LWIN11, LWIN16 or LWIN18 code
V061	Invalid / incorrect currency: [%s]. Possible values are 'gbp', 'eur', 'chf', 'usd', 'hkd', 'jpy', 'sgd', 'gbpbtt', 'eurbtt', 'chfbtt', 'gbp/btt', 'eur/btt', 'chf/btt'.
V125	Requests with multiple LWINS must contain LWINS of the same length

6.2 HTTP Status codes

HTTP defines a bunch of meaningful status codes that can be returned from our API. These can be leveraged to help our API Merchants/consumers route their responses accordingly:

Code	Message
------	---------

200 OK	Response to a successful GET, POST, PUT, DELETE. Can also be used for a POST that doesn't result in a creation.
201 Created	Response to a POST that results in a creation.
202 Accepted	The request has been accepted and will be processed later. It is a classic answer to asynchronous calls (for better UX or performances).
204 No Content	Response to a successful request that won't be returning a body (like a DELETE request)
400 Bad Request	The request is malformed, such as if the body does not parse
401 Unauthorized	When no and/or invalid authentication details are provided. Can also be used to trigger an auth popup if API is used from a browser
403 Forbidden	When authentication succeeded but authenticated user doesn't have access to the resource
404 Not Found	When a non-existent resource is requested
405 Method Not Allowed	When an HTTP method is being requested that isn't allowed for the authenticated user
406 Not Acceptable	Nothing matches the Accept-* Header of the request. As an example, you ask for an XML formatted resource, but it is only available as JSON.
409 Conflict	Indicates one or more supplied parameters are triggering a validation error. A relevant TR code should be returned in the response.
410 Gone	Indicates that the resource at this end point is no longer available. Useful as a blanket response for old API versions
415 Unsupported Media Type	If incorrect content type was provided as part of the request
422 Unprocessable Entity	Used for validation errors. Should be used if the server cannot process the entity, e.g. if an image cannot be formatted or mandatory fields are missing in the payload.
429 Too Many Requests	When a request is rejected due to rate limiting
500 Internal Server Error	The general catch-all error when the server-side throws an exception. The request may be correct, but an execution problem has been encountered at our end.