LIV|EX

THE FINE WINE MARKET

LWIN: LWIN7 Request API v1

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1. Purpose

To provide the API end point information and examples of the web services available for LWIN7 Request 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. This document refers to LWIN7 (7-digit, wine) and LWIN11 (11-digit, wine + vintage) codes only.
Combine	When two LWINs for the same wine have been erroneously created codes are "combined". This preserves the overall data of the product. The dominant LWIN is known as the "leader", whils the LWIN that has been merged away is know as the "follower".

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 project will support ISO 8601.
- The project will only support HTTPS protocol for client and server communications.
- The API will support the following methods:
    - POST for create operation
- Pretty printing for output readability only is supported if required
- Compression for bandwidth savings are 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.

Param

Name	Mandatory	Description
CLIENT_KEY	Y	A valid merchant GUID which will be unique for each user.
CLIENT_SECRET	Y	Password/Secret for the user 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.

e.g.
CLIENT_KEY: 94B5CC70-BC3D-49C3-B636-C3C7552E543D
CLIENT_SECRET: merchantpasswd
ACCEPT: application/json
CONTENT-TYPE: application/json

Invalid header JSON response

```
{
    "status": "Unauthorized",
    "httpCode": "401",
    "message": "Request was unsuccessful",
    "livexCode": "R000"
    "apiInfo": {
        "version": "1.0",
        "timestamp": 1518524979121,
        "provider": "Liv-ex"
    }
}
```

Invalid header XML response

```
<Response>
    <Status>Unauthorized</Status>
    <HttpCode>401</Code>
    <Message>Request was unsuccessful.</Message>
    <LivexCode>R001</LivexCode>
     <ApiInfo>
        <Version>1.0</Version>
        <Timestamp>2019-11-04T11:12:30</Timestamp>
        <Provider>Liv-ex</Provider>
    </ApiInfo>
<Response>
```

5. API Listing

5.1 LWIN7 Request service (POST method)

Description

This service allows to submit request for a new LWIN7. One new LWIN7 code can be requested per one API call.

Base URI

/lwin/request/v1/lwin7Request

Request Parameters

Name	Mandatory	Description
producerTitle	N	Title of producer or owner of wine **Type:** alphanumeric
producerName	Y	Producer or owner of wine. If there is no producerName, use NA **Type:** alphanumeric
wine	Y	Name of wine (brand and/or grape and/or technical term) If there is no wine name, use NA **Type:** alphanumeric
country	N	Country of origin **Type:** alphanumeric
region	N	Region of origin (where applicable, specific to local laws) **Type:** alphanumeric
subRegion	N	Sub-region of origin (where applicable, specific to local laws) **Type:** alphanumeric
site	N	Site within sub-region (where applicable, specific to local laws) **Type:** alphanumeric
parcel	N	Parcel within site (where applicable, specific to local laws) **Type:** alphanumeric
colour	Y	Colour of LWIN product **Type:** alphanumeric **Values:** "white", "red", "rose", "na"
type	Y	LWIN beverage type **Type:** alphanumeric **Values:** "wine", "fortified", "spirit", "beer", "other"
subType	N	Subcategory of LWIN type **Type:** alphanumeric **Values:** wine: "still", "sparkling" fortified: "madeira", "port", "sherry" spirit: "brandy", "whiskies", "vodka" beer: "na" other: "na", "sake"
designation	N	Officially assigned status (specific to local laws) **Type:** alphanumeric
classification	N	Officially declared quality level (where applicable, specific to local laws) **Type:** alphanumeric

vintageConfiguration	N	Vintage pattern of the wine (e.g. single vintage only, production ended) **Type:** alphanumeric **Values:** "sequential", "nonSequential", "singleVintageOnly"
vintageValues	Y	Vintages when the wine was produced. At least 1 vintage must be provided irrespective of vintageConfiguration **Type:** array, integer(4)
firstVintage	N	The first vintage of the LWIN7 **Type:** integer(4)
finalVintage	N	The final vintage of the LWIN7 (only if production ended) **Type:** integer(4)
url	N	**Type:** alphanumeric Max 2000 chracters
note	N	**Type:** alphanumeric Max 250 characters
fileGUID	N	**Type:** String array

Whilst not mandatory fields to be provided, the inclusion of either a URL or a fileGUID in support of an LWIN7 request greatly speeds up request process and reduces the chances of your LWIN7 request being rejected.

Sample Request Body

JSON

```
{
    "producerTitle": "",
    "producerName": "Wiston",
    "wine": "Blanc de Blancs",
    "country": "United Kingdom",
    "region": "England",
    "subRegion": "",
    "site": "",
    "parcel": "",
    "colour": "white",
    "type": "Wine",
    "subType": "Sparkling",
    "designation": "PDO",
    "classification": "",
    "vintageConfiguration": "singleVintageOnly",
    "vintageValues": ["1000"],
    "firstVintage": "",
    "finalVintage": "",
    "url": "https://www.liv-ex.com/lwin/",
    "note": "WISTON BLANC DE BLANCS NV",
    "fileGUID": ["d6e604fde2ed47d9be84e2e7371e0371","86c388d7ac7a4284af504dca0b15c284"]
}
```

XML

```
<lwin7Request>
    <producerTitle>Bodega</producerTitle>
    <producerName>Garzon</producerName>
    <wine>Petit Clos Cabernet Sauvignon Block #969</wine>
    <country>Uruguay</country>
    <region></region>
    <subRegion></subRegion>
```

```
    <site></site>
    <parcel></parcel>
    <colour>Red</colour>
    <type>Wine</type>
    <subType>Still</subType>
    <designation></designation>
    <classification></classification>
    <vintageConfiguration>
    </vintageConfiguration>
    <vintageValues>
    <vintage>2018</vintage>
    </vintageValues>
    <firstVintage/>
    <finalVintage/>
    <url>https://bodegagarzon.com/en/wine/petit-clos-cabernet-sauvignon-2018/</url>
    <note></note>
    <files>
        <fileGUID>d6e604fde2ed47d9be84e2e7371e0371</fileGUID>
        <fileGUID>86c388d7ac7a4284af504dca0b15c284</fileGUID>
    </files>
</lwin7Request>
```

Sample Response Body

The LWIN7 Request POST service returns newly submitted LWIN7 request with requestReference, all recorded metadata and requestStatus.

Response parameters

Name	Description
producerTitle	Title of producer or owner of wine **Type:** alphanumeric
producerName	Producer or owner of wine **Type:** alphanumeric
wine	Name of wine (brand and/or grape and/or technical term) **Type:** alphanumeric
country	Country of origin **Type:** alphanumeric
region	Region of origin (where applicable, specific to local laws) **Type:** alphanumeric
subRegion	Sub-region of origin (where applicable, specific to local laws) **Type:** alphanumeric
site	Site within sub-region (where applicable, specific to local laws) **Type:** alphanumeric
parcel	Parcel within site (where applicable, specific to local laws) **Type:** alphanumeric
colour	Colour of LWIN product **Type:** alphanumeric **Values:** "white", "red", "rose", "na"
type	LWIN beverage type **Type:** alphanumeric **Values:** "wine", "fortified", "spirit", "rice wine", "beer", "other"
subType	Subcategory of LWIN type **Type:** alphanumeric **Values:**

		wine	"still", "sparkling"
		fortified	"madeira", "port", "sherry"
		spirit	"brandy", "whiskies", "vodka"
		beer	"na"
		other	"na"
designation	Officially assigned status (specific to local laws) **Type:** alphanumeric		
classification	Officially declared quality level (where applicable, specific to local laws) **Type:** alphanumeric		
vintageConfiguration	Vintage pattern of the wine (e.g. single vintage only, production ended) **Type:** alphanumeric **Values:** "sequential", "nonSequential", "singleVintageOnly".		
vintageValues	Sorting order: youngest vintage → oldest vintage **Type:** array, integer(4)		
firstVintage	The first vintage of the LWIN7 **Type:** integer(4)		
finalVintage	The final vintage of the LWIN7 (only if production ended) **Type:** integer(4)		
url	**Type:** alphanumeric Max 2000 chracters		
note	**Type:** alphanumeric Max 250 characters		
requestStatus	**Type:** alphanumeric **Values:** "pending"		
requestReference	**Type:** integer(11)		
fileGUID	**Type:** String array		

JSON Response

The response is sent per request.


```
{
    "status": "OK",
    "httpCode": "200",
    "message": "Request completed successfully",
    "internalErrorCode": "R001",
    "apiInfo": {
        "version": "1.0",
        "timestamp": 1579699696954,
        "provider": "Liv-ex"
    },
    "lwin7Request": {
        "producerTitle": null,
        "producerName": "Wiston",
        "wine": "Blanc de Blancs",
        "country": "United Kingdom",
        "region": "England",
        "subRegion": null,
        "site": null,
        "parcel": null,
        "colour": "white",
        "type": "Wine",
        "subType": "Sparkling",
```

```
        "designation": "PDO",
        "classification": null,
        "vintageConfiguration": "singleVintageOnly",
        "vintageValues": [
            "1000"
        ],
        "firstVintage": null,
        "finalVintage": null,
        "url": "https://www.wistonestate.com/buy-english-sparkling-wine/wiston-blanc-de-
blancs-nv/",
        "note": "WISTON BLANC DE BLANCS NV",
        "fileGUID":
["d6e604fde2ed47d9be84e2e7371e0371","86c388d7ac7a4284af504dca0b15c284"],
        "requestStatus": "pending",
        "requestReference": "8729",
        "errors": null
    }
}
```


Invalid JSON response


```
{
    "status": "OK",
    "httpCode": "200",
    "message": "Request completed successfully",
    "internalErrorCode": "R001",
    "apiInfo": {
        "version": "1.0",
        "timestamp": 1579700016700,
        "provider": "Liv-ex"
    },
    "lwin7Request": {
        "producerTitle": null,
        "producerName": null,
        "wine": "Blanc de Blancs",
        "country": "United Kingdom",
        "region": "England",
        "subRegion": null,
        "site": null,
        "parcel": null,
        "colour": "white",
        "type": "Wine",
        "subType": "Sparkling",
        "designation": "PDO",
        "classification": null,
        "vintageConfiguration": "singleVintageOnly",
        "vintageValues": [
            "1976",
            "1998"
        ],
        "firstVintage": null,
        "finalVintage": null,
        "url": "https://www.wistonestate.com/buy-english-sparkling-wine/wiston-blanc-de-
blancs-nv/",
        "note": "WISTON BLANC DE BLANCS NV",
        "fileGUID": null,
        "requestStatus": null,
        "requestReference": null,
        "errors": {
            "error": [
                {
                    "code": "L001",
                    "message": "Mandatory field producerName missing."
                }
            ]
        }
    }
```

```
}
```

XML Response

The response is sent per request.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<lwin7RequestResponse>
    <Status>OK</Status>
    <HttpCode>200</HttpCode>
    <Message>Request completed successfully</Message>
    <InternalErrorCode>R001</InternalErrorCode>
    <ApiInfo>
        <Version>1.0</Version>
        <Timestamp>2020-01-22T13:36:10.073Z</Timestamp>
        <Provider>Liv-ex</Provider>
    </ApiInfo>
    <lwin7Request>
        <producerTitle>Bodega</producerTitle>
        <producerName>Garzon</producerName>
        <wine>Petit Clos Cabernet Sauvignon Block #969</wine>
        <country>Uruguay</country>
        <region xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <subRegion xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <site xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <parcel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <colour>Red</colour>
        <type>Wine</type>
        <subType>Still</subType>
        <designation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <classification xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <vintageConfiguration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <vintageValues>
            <vintage>2018</vintage>
        </vintageValues>
        <firstVintage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <finalVintage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <url>https://bodegagarzon.com/en/wine/petit-clos-cabernet-sauvignon-2018/</url>
        <note xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <files>
            <fileGUID>d6e604fde2ed47d9be84e2e7371e0371</fileGUID>
            <fileGUID>86c388d7ac7a4284af504dca0b15c284</fileGUID>
        </files>
        <requestStatus>pending</requestStatus>
        <requestReference>8732</requestReference>
        <errors xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
    </lwin7Request>
</lwin7RequestResponse>
```

Invalid XML Response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<lwin7RequestResponse>
    <Status>OK</Status>
    <HttpCode>200</HttpCode>
    <Message>Request completed successfully</Message>
    <InternalErrorCode>R001</InternalErrorCode>
    <ApiInfo>
        <Version>1.0</Version>
        <Timestamp>2020-01-22T13:37:24.025Z</Timestamp>
        <Provider>Liv-ex</Provider>
    </ApiInfo>
    <lwin7Request>
        <producerTitle>Bodega</producerTitle>
        <producerName>Garzon</producerName>
        <wine>Petit Clos Cabernet Sauvignon Block #969</wine>
        <country>Uruguay</country>
        <region xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <subRegion xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <site xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <parcel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <colour>Red</colour>
        <type xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <subType>Still</subType>
        <designation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <classification xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <vintageConfiguration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <vintageValues>
            <vintage>2018</vintage>
        </vintageValues>
        <firstVintage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <finalVintage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <url>https://bodegagarzon.com/en/wine/petit-clos-cabernet-sauvignon-2018/</url>
        <note xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
        <requestStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <requestReference xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:nil="true"/>
        <errors>
            <error>
                <code>L001</code>
                <message>Mandatory field type missing.</message>
            </error>
        </errors>
    </lwin7Request>
</lwin7RequestResponse>
```

6. Response Codes

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

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

6.1 Request validation error codes

Code	Message
L001	("Mandatory field [%s] missing.")
L051	("fileGUID [${v}] does not exist or is already in use.")
L052	("Mandatory field missing. Please provide a fileGUID and/or a URL")

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.