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# LibertyData.net

## TIN Match Premium XML API Usage Manual

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# XML API Usage Manual

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## Quick Guide to using the API:

1. Use simple HTTP Requests to invoke the API.
2. Set the HTTP Request Header: Content-Type = "text/xml"
3. Set the HTTP Request Header: X-API-CALL-NAME= "API CALL NAME"
4. Please note all call names and xml node names are case-sensitive.
5. Frame your Request XML String as per the syntax explained in this manual for each API Command.
6. Post the XML String to the URL: <https://www.libertydata.net/api/tinmatch/api.asp>
7. Receive the server response and parse it.
8. The response contains a node called status which will be equal to "ok" in case of success and "fail" in case of error.
  - a. N.B.: Status will be "ok" even if there are no matches found; but in this case matchcode would be zero.
9. In case of error, another node called errmsg will contain the error message.
10. To receive response in JSON format add this tag to request XML:

```
<req:responseformat>json</req:responseformat>
```

## General Syntax:

To use the API, you should follow the general syntax of framing an API Request. You can find the more detailed instructions in the sections below explaining each individual API Commands. While sending the API Request, you should set a HTTP Request Header value which indicates the name of the API Call being made.

## API Request Header:

**X-API-CALL-NAME=apicallname**

You should also set the HTTP Content Type to "text/xml". Please refer the example given at the end of the manual. You can also set the result format into **JSON**. The API Request should be sent to the server at <http://www.libertydata.net/api/tinmatch/api.asp> via HTTP POST.

## API Request Format:

```
<req:apirequestxmlns:req="http://www.libertydata.net/api/apirequest">
  <req:requestercredentials>
    <req:login>Your Login Here</req:login>
    <req:password>Your Password Here</req:password>
  </req:requestercredentials>
  <req:version>1</req:version>
  <req:apicallname>
    Additional Search Options
  </req:apicallname>
</req:apirequest>
```

## API Request Format Using JSON Formatter:

```
<req:apirequestxmlns:req="http://www.libertydata.net/api/apirequest">
  <req:requestercredentials>
    <req:login>Your Login Here</req:login>
    <req:password>Your Password Here</req:password>
  </req:requestercredentials>
  <req:version>1</req:version>
  <req:responseformat> JSON</req:responseformat>
  <req:apicallname>
    Additional Search Options
  </req:apicallname>
</req:apirequest>
```

**Note:** You should use the actual call name in place of the string apicallname in both the API Request Header and API Request XML node name.

The server will execute your request and return the response in the following format:

### API Response Format:

```
<res:apiresponsexmlns:res="http://www.libertydata.net/api/apiresponse">
  <res:version>1</res:version>
  <res:status>ok</res:status>
  <res:errmsg><![CDATA[Error Message will be present here]]></res:errmsg>
  <res:searchid> searchid</res:searchid>
  <res:matchcode> no. of match codes</res:matchcode>
  <res:msg> any error messages while processing</res: msg >
  <res:serverresponsetime> query response time</res:serverresponsetime>
</res:apiresponse>
```

### API Response Match Codes Description:

- 0 = TIN and Name combination matches.
- 1 = TIN was missing or TIN not 9-digit numeric.
- 2 = TIN entered is not currently issued.
- 3 = TIN and Name combination does not match.
- 4 = Invalid TIN Matching request.
- 5 = Duplicate TIN Matching request.
- 6 = TIN and Name combination matches SSN records.
- 7 = TIN and Name combination matches EIN records.
- 8 = TIN and Name combination matches SSN and EIN records.
- 10 = TIN and Name combination NOT found in our INTERNAL database.
- 90 to 99 = Connection/Query/Miscellaneous Error

## SearchByTIN

### Description:

This call searches for the TIN in the database. It performs an exact match of the TIN.

You must provide full name separated by SPACE.

e.g. "John Doe", "Libertydata Inc.", "Robin Lahiri", "Glass and Door LLC"

**Tip:** For better matches please try to provide FULL name. Minimum two characters are required.

### HTTP Header:

X-API-CALL-NAME ="SearchByTIN"

### Sample XML Request:

```
<req:apirequestxmlns:req='http://www.libertydata.net/api/apirequest'>
  <req:requestercredentials>
    <req:login>gov.agent@love-all.com</req:login>
    <req:password>testpass</req:password>
  </req:requestercredentials>
  <req:version>1</req:version>
  <req:SearchByTIN>
    <req:tin>123456789</req:tin>
    <req:lastname>John Doe</req:lastname>
  </req:SearchByTIN>
</req:apirequest>
```

### Sample XML Response:

```
<res:apiresponse xmlns:res='http://www.libertydata.net/api/apiresponse'>
  <res:version>1</res:version>
  <res:status>ok</res:status>
  <res:errmsg><![CDATA[]]></res:errmsg>
  <res:searchid>9730338</res:searchid>
  <res:matchcode>2</res:matchcode>
  <res:msg></res:msg>
  <res:serverresponsetime>0.11</res:serverresponsetime>
</res:apiresponse>
```

**Sample XML Request through JSON:**

```
<req:apirequestxmlns:req='http://www.libertydata.net/api/apirequest'>
  <req:requestercredentials>
    <req:login>gov.agent@love-all.com</req:login>
    <req:password>testpass</req:password>
  </req:requestercredentials>
  <req:version>1</req:version>
<req:responseformat> JSON</req:responseformat>
  <req:SearchByTIN>
    <req:tin>123456789</req:tin>
    <req:lastname>John Doe</req:lastname>
  </req:SearchByTIN>
</req:apirequest>
```

**Sample JSON Response:**

```
{ "status": "ok", "version": 1, "errmsg": "", "searchid": 9730349, "serverresponsetime": 0.11,
"reponse": { "matchcode": 2, "msg": "" } }
```

## Troubleshooting Guide:

1. I get “Invalid API Call Format. Please check the XML Syntax for API request calls.” error message.
  - a. Check whether you have used the exact case as mentioned in this guide. XML node names are case-sensitive. Also the HTTP Header value `X-API-CALL-NAME` is case-sensitive.
  - b. Check your Request XML structure carefully. You may have made a spelling mistake in typing the node names or may have missed out an important node. You can refer individual call samples.
2. I get “Unsupported API Version” error message.
  - a. Check the Version number specified in your API Request.  
The Current API Version is 1.
3. I get “Authentication failed.” Error message.
  - a. Check the login/password entered in the requester credentials node.
  - b. Your login may not be API enabled.
  - c. Your login may be deactivated by the API administrator.
4. I get “Not enough credits to perform this operation.” Error message.
  - a. You have used up your available searches or your usage time has expired. Please purchase additional credits.
5. I get “Unknown API call” error message.
  - a. Check whether you have used the exact case as mentioned in this guide. XML node names are case-sensitive. Also the HTTP Header value `X-API-CALL-NAME` is case-sensitive.
  - b. Check this manual to see whether the API Call which you are trying to use is available.