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What is Xverify?

Xverify is mainly a verification platform which offers a bundle of verification services. The list is given below:

1. Email verification service
2. Phone verification service
3. Address verification service
4. Name verification service
5. IP verification service
6. Phone confirm service
7. Reverse phone service

If we have a look over the abstract level, the following diagram can help us a lot in understanding its architecture:



Here the web service client can be any entity capable of generating Restful call over HTTP transport layer. The system has a great flexibility to return the response in either XML or in JSON. That's why; the calling party (i.e. web service client) should be able to parse either of them.

Let's go through of each service and its details.

What is email verification service?

Email verification service is a mechanism by which we ensure that the email is valid or not. By saying valid or not, we mean that it actually exists in this World or not. As an input, it takes an email address from the user and sends the response with the following information:

1. Address (user provided email address)
2. Syntax (represents whether the syntax is good or not)
3. Handle (represents the username part of the email)
4. Domain (represents the domain name part of the email)
5. Vulgar (represents whether the username part contains vulgarity or not)
6. Response Code (ranging from 1 to 12)
7. Error (if non zero, means error occurred)
8. Status (either “valid” or “invalid”)
9. Duration (the time it takes to verify)
10. Message (represents message to be prompted in case of error)
11. Catch All (represents whether the domain associated with the email is catch all or not)
12. Social switch (represents whether the social feature is turned on or not)
13. Social info (contains further children to display social information)
 - a. Display Name (represents the display name in the social network)
 - b. First Name (represents the first name in the social network)
 - c. Last Name (represents the last name of the person in the social network)
 - d. Gender (represents the gender of the person in the social network)
 - e. Age (represents the age of the person in the social network)
 - f. Location (represents the location of the person in the social network)
 - g. Is_socially_connected (represents whether it’s connected to the social network or not)

What is phone verification service?

In the phone verification service, there are further 2 sub categories on which this service can be dig down:

1. Cell phone verification
2. Landline verification

In all two sub categories, we provide the user whether the provided number is valid or not based on user’s subscriptions and in the response, we give the following information back:

1. Value (user provided phone number)
2. Error (if non zero, means error occurred)
3. Status (either “valid” or “invalid”)
4. Duration (the time it takes to verify)
5. Message (represents message to be prompted in case of error)
6. Prefix (represents the provided number prefix)
7. Suffix (represents the provided number suffix)
8. Latitude (represents the latitude based on the provided number)
9. Longitude (represents the longitude based on the provided number)

10. Extension (represents the extension associated with the provided number if any)
11. City (represents the relevant city based on the provided number)
12. State (represents the relevant state based on the provided number)
13. Country (represents the relevant country based on the provided number)
14. Time zone (This tag has two children tags)
 - a. Code (represents the relevant time zone code in integer based on the provided number)
 - b. Name (represents the relevant time zone name based on the provided number)
15. Exchange Type (represents the provided number exchange type. E.g. landline, cell, voip etc)
16. Phone Type (represents the provided number phone type. E.g. business, residential etc)

Note:

1. *The user can subscribe to any one or all of the phone services based on his business needs.*

What is address verification service?

In the address verification service, we perform verification check to let the user know about the address validity. If any address is valid, that means it can be reached by any Postal service. In this service, we take the following values from the user:

1. Address (Mandatory)
2. City (Optional)
3. State (Optional)
4. Zip (Mandatory)

And performs address validation based on the provided values. It also auto corrects the address if some mistake is made by the user. In the response, it gives the following information:

1. Error (if non zero, means error occurred)
2. Status (either "valid" or "invalid")
3. Reason for Invalid (contains description if available incase the address is detected as invalid)
4. Message (represents message to be prompted in case of error)
5. Duration (the time it takes to verify)
6. Street (the provided address from the user)
7. Zip (the provided zip from the user)
8. City (represents the city. This input field is optional and if leave empty by the user, the XVerify system fills the relevant city automatically based on the address and zip)
9. State (represents the state. This input field is optional and if leave empty by the user, the XVerify system fills the relevant state automatically based on the address and zip)

What is name verification service?

Name verification service is a way of verifying the names to let the user know whether the name is valid or not. Furthermore, on top of it, it also executes the profanity filter on it and prompts if detected. It takes the following values from the user:

1. First Name
2. Last Name

And based on that, either verifies the name or prompts the user about its status. In the response, it gives the following information:

1. Value (user provided input)
2. Status (either "valid" or "invalid")
3. Duration (the time it takes to verify)
4. First (represents first name)
5. Middle (represents middle name)
6. Last (represents last name)
7. Gender (M for male, F for female, U for unknown)
8. Salutation (represents sign of greeting)
9. Error (if non zero, means error occurred)
10. Message (represents message to be prompted in case of error)

What is IP verification service?

IP verification service is a great way to know about its validity. It takes the IP as input and if it's verified, gives the following information back to the user:

1. Region
2. City
3. Country
4. Latitude
5. Longitude

What is Phone Confirm verification service?

Phone confirm service is really a powerful service to verify the phone numbers based on human interaction. It speaks a code in the call that the user is supposed to enter in the intended application. Every placed call corresponds to a unique transaction number. That transaction number is queried later on to verify whether the user has entered the code correctly or not. Based on this verification, the intended system allows or rejects his access. Please note that this service is only available through data append. It's not available from JavaScript.

What is Reverse phone service?

Reverse phone service is another great service which works in opposite direction. That means it takes phone number as input and looks up for his information bind against his provided phone number. It

provides the following information back to the user:

1. Name (represents text of the listing name, both first and last, or the business name)
2. First Name (represents the first name of the residential listing (or the name of both people at the address, i.e. ("John & Mary"). This field is not populated for business listings.)
3. Last Name (represents the last name of the residential listing. This field is not populated for business listings.)
4. Full Address (represents the full address of the person)
5. House Number (represents the text of the house number)
6. House Fraction (represents the fractional portion of the house number. I.E. "1/2", or "B".)
7. Pre directional (represents the directional that is placed in front of the street name; "SE", or "NW".)
8. Street (represents the name of the street that the address is on)
9. Street Type (represents the type of street that it is, i.e. Ave or Blvd)
10. Post directional (represents directional after the name of the street; "NW" or "SE".)
11. Suit No (represents the suite, PO Box number or apartment number of the address)
12. Latitude (represents the latitude, in degrees (i.e. 45.12345).)
13. Longitude (represents the longitude, in degrees (i.e. -120.56789).)
14. City (represents the city of the listing.)
15. State (represents the state of the listing)
16. Zip5 (represents the first five digits of zip code)
17. ZIP4 (represents the first four digits of zip code)
18. NPA (represents the area code of listing phone number.)
19. NXX (represents the exchange of the listing phone number.)
20. Postfix (represents the suffix of the listing phone number.)
21. Listing Type (represents business, residential or government with "B", "R", or "G" respectively.)
22. Flags (represents different flags associated with the listing, such as non-pub or non-listed)
23. Error (if non zero, means error occurred)
24. Status (either "valid" or "invalid")

What is Lead score service?

Lead score service is a service that is used to match the user provided information with the actual information. Based on the amount of matched information, we provide results in terms of percentage. Percentage represents the amount of matched information out of the total information provided to the system. It takes the following information from the user:

1. Phone Number
2. First Name
3. Last Name
4. Address
5. City
6. State

7. Zip
8. Email
9. IP

based on this information provided by the user, we first perform reverse phone lookup to find out it's actual information. Based on this actual information, we make comparison and along the percentage, also return what is matched and what is not?

What is All in One API service?

All in One API is another convenient way of verifying all of the services in just a single call. What this mean is that if you want to verify email, address and phone, you don't need to make seperate calls but you can place one call to our system providing all of the information and our system will do rest of his magic. For now, we are covering the following three services in All in One API:

1. Email
2. Phone
3. Address

How to use Xverify?

There are three methods that you can use to use XVerify:

1. Plug and play script
2. Sample script
3. Restful call

Note:

1. *The following methods assume that you are already registered with www.xverify.com*

Plug and play script:

In the first method, you get a readymade script that is supposed to be uploaded over the web server to feel the experience in just a few minutes. If you want to use this method, the following guideline will walk you through it:

1. Please use your credentials to login to the system (i.e. www.xverify.com)
2. Please click on the "My Account" tab.
3. In the Account page, you will see a link named as "Download Plug and play script", please click on that link. The web browser will start downloading the HTML file.
4. Once the HTML file is downloaded to your machine, please upload it to any available web server.
5. Once you are done with the uploading, please hit the desired URL in any web browser and you are good to go!

Note:

1. *The intention of providing this script is to show you the services in actions with minimum effort. You are not recommended to use the source code of this script to integrate your systems with XVerify. For integrations, please read the immediate following method (i.e. Sample script)*
2. *In the current and the immediate following method, the request is generated by JavaScript and response is received in JSON.*

Sample script:

In this method, you can integrate your system with XVerify. Here you get a JavaScript code that you are supposed to embed in your presentation layer under the HTML head tag. If you take a look in the source code of the plug and play script, you will notice that under the head tag, the same JavaScript code is embedded which you got in this method. So, the source code of the sample plug and play script can help you a lot in integrating Xverify services in your existing systems.

The logo for Xverify, with 'X' in blue and 'verify' in orange, rendered in a large, semi-transparent, pixelated font.

Note:

1. *Please note that we have recently introduced a new JavaScript file named as “**xverify.js**” which is compatible with all of the following properties:*
 - a. *“class” property*
 - b. *“id” property*
 - c. *“name” property*

What does it mean actually is that if any one or more of the above mentioned properties are available in the HTML input elements, our script will work.
2. *The file “**xverify.js**” is a replacement of the older files named as “**jquery.xverify.js**”, “**jquery.xverifyv1.js**”. Please note that you should include only one JavaScript file in the same HTML page.*
3. *It’s strongly recommended to use the latest one “**xverify.js**” to get full advantage of the system.*

The following guideline will walk you through it:

1. Please use your credentials to login to the system (i.e. www.xverify.com)
2. Please click on the “My Account” tab.
3. In the Account page, you will see a link named as “Download sample script”, please click on that link. The web browser will start downloading the Text file.
4. Once the Text file is downloaded to your machine, please open it and copy the JavaScript Code in your desired file where you want to integrate it. This file includes the latest JavaScript file which is just added into the system to give you the maximum flexibility and control in your coding. But please make sure you follow the following rules mentioned in the following table

Note:

1. Please note that now we support phone verification service in three fields format also. That means, user can provide 3 digits in the first two text fields and 4 digits in the third text field and our system will verify it.

Rule if you are subscribed for email verification service	
Rule	Example
The “class” property of the email text field should be named as “xverify_email”	<input class="xverify_email" type="text">
OR	
The “id” property of the email text field should be named as “email”	<input id="email" type="text">
OR	
The “name” property of the email text field should be named as “email”	<input name="email" type="text" >
OR	
You can have all of them in one element	<input id="email" name="email" class="xverify_email" type="text">
Rule if you are subscribed for Landline verification service	
Rule	Example
The “class” property of the landline text field should be named as “xverify_landline”	<input class="xverify_landline" type="text" >
OR	
The “id” property of the landline text field should be named as “landline”	<input id="landline" type="text" >
OR	

The “name” property of the landline text field should be named as “landline”	<input name="landline" type="text" >
OR	
You can have all of them in one element	<input id="landline" name="landline" class="xverify_landline" type="text" >
Rule if you are subscribed for multi fields Landline verification service	
Rule	Example
The “class” property of the multi field landline text fields should be named as “xverify_multifield_landline_1”, “xverify_multifield_landline_2” and “xverify_multifield_landline_3” respectively.	<input class="xverify_multifield_landline_1" type="text" > <input class="xverify_multifield_landline_2" type="text" > <input class="xverify_multifield_landline_3" type="text" >
OR	
The “id” property of the multi field landline text fields should be named as “multifield_landline_1”, “multifield_landline_2” and “multifield_landline_3” respectively.	<input id="multifield_landline_1" type="text" > <input id="multifield_landline_2" type="text" > <input id="multifield_landline_3" type="text" >
OR	
The “name” property of the multi field landline text fields should be named as “multifield_landline_1”, “multifield_landline_2” and “multifield_landline_3” respectively.	<input name="multifield_landline_1" type="text" > <input name="multifield_landline_2" type="text" > <input name="multifield_landline_3" type="text" >
OR	
You can have all of them in one element	<input class="xverify_multifield_landline_1" id="multifield_landline_1" name="multifield_landline_1" type="text" > <input class="xverify_multifield_landline_2" id="multifield_landline_2" name="multifield_landline_2" type="text" > <input class="xverify_multifield_landline_3" id="multifield_landline_3" name="multifield_landline_3" type="text" >
Note: Please note that "multifield_landline_1 or xverify_multifield_landline_1" should be set to first landline text field, "multifield_landline_2 or xverify_multifield_landline_2" should be set to second landline text field and "multifield_landline_3 or xverify_multifield_landline_3" should be set to the third landline text field.	
Rule if you are subscribed for Cell verification service	
Rule	Example
The “class” property of the cell text field should be named as “xverify_cell”	<input class="xverify_cell" type="text">
OR	
The “id” property of the cell text field should be named as “cell”	<input id="cell" type="text">

OR	
The “name” property of the cell text field should be named as “cell”	<input name="cell" type="text">
OR	
You can have all of them in one element	<input id="cell" name="cell" class="xverify_cell" type="text">
Rule if you are subscribed for multi fields Cell verification service	
Rule	Example
The “class” property of the multi field landline text fields should be named as “xverify_multifield_cell_1”, “xverify_multifield_cell_2” and “xverify_multifield_cell_3” respectively.	<input class="xverify_multifield_cell_1" type="text" > <input class="xverify_multifield_cell_2" type="text" > <input class="xverify_multifield_cell_3" type="text" >
OR	
The “id” property of the multi field landline text fields should be named as “multifield_cell_1”, “multifield_cell_2” and “multifield_cell_3” respectively.	<input id="multifield_cell_1" type="text" > <input id="multifield_cell_2" type="text" > <input id="multifield_cell_3" type="text" >
OR	
The “name” property of the multi field landline text fields should be named as “multifield_cell_1”, “multifield_cell_2” and “multifield_cell_3” respectively.	<input name="multifield_cell_1" type="text" > <input name="multifield_cell_2" type="text" > <input name="multifield_cell_3" type="text" >
OR	
You can have all of them in one element	<input class="xverify_multifield_cell_1" id="multifield_cell_1" name="multifield_cell_1" type="text" > <input class="xverify_multifield_cell_2" id="multifield_cell_2" name="multifield_cell_2" type="text" > <input class="xverify_multifield_cell_3" id="multifield_cell_3" name="multifield_cell_3" type="text" >
Note: Please note that "multifield_cell_1 or xverify_multifield_cell_1" should be set to first cell text field, "multifield_cell_2 or xverify_multifield_cell_2" should be set to second cell text field and "multifield_cell_3 or xverify_multifield_cell_3" should be set to the third cell text field.	
Rule if you are subscribed for all kind of Phone verification services (i.e. Landline and Cell)	
Rule	Example
The “class” property of the phone text field should be named as “xverify_phone”	<input class="xverify_phone" type="text">
OR	
The “id” property of the phone text field should be named as “phone”	<input id="phone" type="text">
OR	
The “name” property of the phone text field should be named as “phone”	<input name="phone" type="text">

OR	
You can have all of them in one element	<code><input id="phone" name="phone" class="xverify_phone" type="text"></code>
Rule if you are subscribed for all kind of multi fields Phone verification services (i.e. Landline and Cell)	
Rule	Example
The "class" property of the multi field landline text fields should be named as "xverify_multifield_phone_1", "xverify_multifield_phone_2" and "xverify_multifield_phone_3" respectively.	<code><input class="xverify_multifield_phone_1" type="text" ></code> <code><input class="xverify_multifield_phone_2" type="text" ></code> <code><input class="xverify_multifield_phone_3" type="text" ></code>
OR	
The "id" property of the multi field landline text fields should be named as "multifield_phone_1", "multifield_phone_2" and "multifield_phone_3" respectively.	<code><input id="multifield_phone_1" type="text" ></code> <code><input id="multifield_phone_2" type="text" ></code> <code><input id="multifield_phone_3" type="text" ></code>
OR	
The "name" property of the multi field landline text fields should be named as "multifield_phone_1", "multifield_phone_2" and "multifield_phone_3" respectively.	<code><input name="multifield_phone_1" type="text" ></code> <code><input name="multifield_phone_2" type="text" ></code> <code><input name="multifield_phone_3" type="text" ></code>
OR	
You can have all of them in one element	<code><input class="xverify_multifield_phone_1" id="multifield_phone_1" name="multifield_phone_1" type="text" ></code> <code><input class="xverify_multifield_phone_2" id="multifield_phone_2" name="multifield_phone_2" type="text" ></code> <code><input class="xverify_multifield_phone_3" id="multifield_phone_3" name="multifield_phone_3" type="text" ></code>
Note: Please note that "multifield_phone_1 or xverify_multifield_phone_1" should be set to first phone text field, "multifield_phone_2 or xverify_multifield_phone_2" should be set to second phone text field and "multifield_phone_3 or xverify_multifield_phone_3" should be set to the third phone text field.	
Rule if you are subscribed for Address verification service	
Rule	Example
The properties "id" and "name" should be named as "street" and "class" property should be named as "xverify_street"	<code><input id="street" type="text"></code>
	OR
	<code><input name="street" type="text"></code>
	OR
	<code><input class="xverify_street" type="text"></code>
	OR

	<code><input id="street" name="street" class="xverify_street" type="text"></code>
The properties "id" and "name" should be named as "city" and "class" property should be named as "xverify_city"	<code><input id="city" type="text"></code>
	OR
	<code><input name="city" type="text"></code>
	OR
	<code><input class="xverify_city" type="text"></code>
	OR
	<code><input id="city" name="city" class="xverify_city" type="text"></code>
The properties "id" and "name" should be named as "state" and "class" property should be named as "xverify_state"	<code><input id="state" type="text"></code>
	OR
	<code><input name="state" type="text"></code>
	OR
	<code><input class="xverify_state" type="text"></code>
	OR
	<code><input id="state" name="state" class="xverify_state" type="text"></code>
The properties "id" and "name" should be named as "zip" and "class" property should be named as "xverify_zip"	<code><input id="zip" type="text"></code>
	OR
	<code><input name="zip" type="text"></code>
	OR
	<code><input class="xverify_zip" type="text"></code>
	OR
	<code><input id="zip" name="zip" class="xverify_zip" type="text"></code>
Rule if you are subscribed for Name verification service	
Rule	Example
The properties "id" and "name" should be named as "firstname" and "class" property should be named as "xverify_firstname"	<code><input id="firstname" type="text"></code>
	OR
	<code><input name="firstname" type="text"></code>
	OR
	<code><input class="xverify_firstname" type="text"></code>
	OR
	<code><input id="firstname" name="firstname" class="xverify_firstname" type="text"></code>
The properties "id" and "name" should be named as "lastname" and "class" property should be named as "xverify_lastname"	<code><input id="lastname" type="text"></code>
	OR
	<code><input name="lastname" type="text"></code>
	OR
	<code><input class="xverify_lastname" type="text"></code>
	OR
	<code><input id="lastname" name="lastname" class="xverify_lastname" type="text"></code>
Rule if you are subscribed for IP verification service	
Rule	Example

The properties "id" and "name" should be named as "ipverify" and "class" property should be named as "xverify_ipverify"	<input id="ipverify" type="text">
	OR
	<input name="ipverify" type="text">
	OR
	<input class="xverify_ipverify" type="text">
	OR
<input id="ipverify" name="ipverify" class="xverify_ipverify" type="text">	

Note:

1. Please make sure you have encapsulated the desired fields in the HTML form tag. For more, please see "Plug and play script".

Restful call:

The last but not the least method of integrating the XVerify services with your system is to call the web service directly. The advantage of directly calling the restful API is more flexibility in terms of control. Meaning that we can write our own business logic based on the response we get from the requested API call. Furthermore, we get responses in the following two notations:

1. XML
2. JSON

So, we can inform the notation type to XVerify when we make a call to API.

Based on service subscriptions, we get different URLs and every API call is based on HTTP GET method. Let's walk through of each service to know its required fields to call and the response fields as well.

Email verification Request/Response:

Here is the sample email verification service URL:

<http://www.xverify.com/services/emails/verify/?email=<email>&type=<xml/json>&apikey=<apikey>&domain=<allowed domain>>

Let's understand each parameter in the query string of the above provided sample email verification URL through the following table:

Request for email verification service	
Parameter in the Query String	Description
email (required)	This parameter contains the email address for which the user wants to verify
type (required)	This parameter can take either "xml" or "json". If we want to get the response in XML, then we need to pass "xml", otherwise, we need to pass "json"

apikey (<i>required</i>)	This parameter takes the API key. API key is a value which we get in XVerify system once we are successfully registered with it.
domain (<i>required</i>)	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more domains through the XVerify system which you will provide here. We won't entertain a query for which this value is unrecognized unless we have test transactions count under per day limit.
secret_key (<i>optional</i>)	This optional parameter if provided is used to automatically add a domain if not exist already.
Response for email verification service	
Response field	Description
address	This response field contains the same email address the user provided in the request.
syntax	This response field shows whether the provided email address syntax is good or not. It's possible values are 1 and 0. 1 means syntax is good and 0 means syntax is bad
handle	This response field contains the username part of the provided email address
domain	This response field contains the domain name part of the provided email address
vulgar	This response field indicates the vulgarity if found in the username part of the provided email address. It's possible values are 1 and 0. 1 means it's detected as vulgar and 0 means it's not detected as vulgar.
error	This field indicates error. If it's non-zero, that means error occurred. You can lookup <i>message</i> response field to know the exact error.
status	This response field contains either "valid" or "invalid"
message	This response field contains the actual message in human readable form. In case of error, the same message is prompted to the user.
reponsecode	This field represents the specific response types. Here are the codes and their respective meanings: responsecode = 1 means valid email responsecode = 2 means invalid email responsecode = 3 means unknown email responsecode = 4 means fraud list (<i>i.e. not 10 mins email</i>) responsecode = 5 means spam trap email responsecode = 6 means affiliate blocked email responsecode = 7 means screamer email responsecode = 8 means tld detected email responsecode = 9 means 10 mins email responsecode = 10 means it's blocked by keyword responsecode = 11 means the source IP is not allowed from a country responsecode = 12 means it's detected from the invalid list
duration	This field indicates the total execution time for the request.
catch_all	This field indicates whether the domain associated with the email address is catch all or not. It's possible values are "Yes/No/Unknown". Please note that "Unknown" is returned when we get unable to find it's catch ability.

social_switch	This response field represents whether the social feature has been turned on or not. If it's not turned on, then it would have a value of 0 and 1 otherwise.
The following fields contain the social network information	
is_socially_connected	This field tells us whether the email address belongs to social networks or not.
name	This field represents the display name of the person in the social network
frist_name	This field represents the first name of the person in the social network
last_name	This field represents the last name of the person in the social network
gender	This field represents the gender of the person in the social network
age	This field represents the age of the person in the social network
location	This field represents the location of the person in the social network

Note:

1. We can get this sample email verification URL from the Xverify back end system in the email settings page.
2. Test transactions count is specifically defined for development and testing purposes only.
3. Currently, from the social networks, we are covering Facebook as well as MySpace

Phone verification Request/Response:

Here is the sample phone verification service URL:

<http://www.xverify.com/services/phone/verify/?phone=<phone>&type=<xml/json>&apikey=<api key>&domain=<allowed domain>&phonetype=<landline/cell>>

We can get this sample email verification URL from the XVerify back end system in the phone settings page.

Let's go through of each request and response fields one by one through the following table:

Request for phone verification service	
Parameter in the Query String	Description
Phone <i>(required)</i>	This parameter contains the phone for which the user wants to verify
type <i>(required)</i>	This parameter can take either "xml" or "json". If we want to get the response in XML, then we need to pass "xml", otherwise, we need to pass "json"
apikey <i>(required)</i>	This parameter takes the API key. API key is a value which we get in XVerify system once we are successfully registered with it.
domain <i>(required)</i>	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more domains through the XVerify system which you will provide here. We won't entertain a query for which this value is unrecognized unless we

	have test transactions count under per day limit	
phonetype <i>(required)</i>	This request field contains “cell” if the user wants to verify cell number, “landline” if he wants to verify landline number and “phone” if he wants to verify any one of them.	
secret_key <i>(optional)</i>	This optional parameter if provided is used to automatically add a domain if not exist already.	
Response for phone verification service		
Response field	Description	
value	This response field contains the same phone number the user provided in the request.	
error	This field indicates error. If it’s non-zero, that means error occurred. You can lookup <i>message</i> response field to know the exact error.	
status	This response field contains either “valid” or “invalid”	
message	This response field contains the actual message in human readable form. In case of error, the same message is prompted to the user.	
duration	This is the time system takes to respond	
areacode	This response field represents the relevant area code based on the provided phone number. For example, for the number “8472215200”, the area code value is “847”	
prefix	This is the number prefix. For example, for the number “8472215200”, the prefix value is “221”	
suffix	This is the number suffix. For example, for the number “8472215200”, the suffix value is “5200”	
latitude	This response field represents the relevant latitude based on the provided phone number	
longitude	This response field represents the relevant longitude based on the provided phone number	
extension	This response field represents the extension associated with the provided number if any	
city	This response field represents the relevant city based on the provided phone number	
state	This response field represents the relevant state based on the provided phone number	
country		This response field represents the relevant country based on the provided phone number. This response field contains two sub children response fields explained below.
	abbreviation	This child response field represents the short code for the country.
	name	This child response field represents the complete name of the country.
time zone	code	This response field represents the relevant time zone code in integer based on the provided number
	name	This response field represents the relevant time zone name based on the provided number
exchange_type	This response field represents the provided phone number exchange type. For example, “landline” for landline number, “cell” for cell phone number and “voip” for voip number.	

phone_type	This response field represents the provided phone number type. For example, "business" for business numbers, "residential" for residential numbers and "soho" for small business or home office.
------------	--

Address verification Request/Response:

Here is the sample address verification service URL:

```
http://www.xverify.com/services/address/verify/?street=<street address> &zip=<zip code>&type=<xml/json>&apikey=<api key>&domain=<allowed domain>
```

We can get this sample address verification URL from the XVerify back end system in the address settings page.

Let's go through of each request and response fields one by one through the following table:

Request for address verification service	
Parameter in the Query String	Description
street (<i>required</i>)	This parameter contains the phone for which the user wants to verify
zip (<i>required</i>)	This parameter can take either "xml" or "json". If we want to get the response in XML, then we need to pass "xml", otherwise, we need to pass "json"
Apikey (<i>required</i>)	This parameter takes the API key. API key is a value which we get in XVerify system once we are successfully registered with it.
domain (<i>required</i>)	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more domains through the XVerify system which you will provide here. We won't entertain a query for which this value is unrecognized unless we have test transactions count under per day limit
Type (<i>required</i>)	This parameter can take either "xml" or "json". If we want to get the response in XML, then we need to pass "xml", otherwise, we need to pass "json"
city (<i>optional</i>)	This is an optional field that can be sent in the request. If however, not mentioned in the request, the system will send back the suggested city in the response.
state (<i>Optional</i>)	This is an optional field that can be sent in the request. If however, not mentioned in the request, the system will send back the suggested state in the response.
secret_key (<i>optional</i>)	This optional parameter if provided is used to automatically add a domain if not exist already.
Response for address verification service	
Response field	Description
street	This response field contains the same address the user provided in the request.
error	This field indicates error. If it's non-zero, that means error occurred. You can lookup <i>message</i> response field to know the exact error.
status	This response field contains either "valid" or "invalid"

reason_for_invalid	This response field contains the description, if available, for invalid address for the address elements which could not be found.
message	This response field contains the actual message in human readable form. In case of error, the same message is prompted to the user.
duration	This is the time system takes to respond.
city	This response field is the relevant city based on the provided street address and zip.
state	This response field is the relevant state based on the provided street address and zip.
zip	This response field contains the same zip the user provided in the request.

Name verification Request/Response:

Here is the sample name verification service URL:

```
http://www.xverify.com/services/name/verify/?firstname=<first name>&lastname=<last name>&type=<xml/json>&apikey=<api key>&domain=<allowed domain>
```

We can get this sample address verification URL from the XVerify back end system in the name/IP settings page.

Let's go through of each request and response fields one by one through the following table:

Request for name verification service	
Parameter in the Query String	Description
firstname <i>(required)</i>	This request parameter contains the first name for which the user wants to verify
lastname <i>(required)</i>	This request parameter contains the last name for which the user wants to verify
apikey <i>(required)</i>	This parameter takes the API key. API key is a value which we get in XVerify system once we are successfully registered with it.
domain <i>(required)</i>	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more domains through the XVerify system which you will provide here. We won't entertain a query for which this value is unrecognized unless we have test transactions count under per day limit
type <i>(required)</i>	This parameter can take either "xml" or "json". If we want to get the response in XML, then we need to pass "xml", otherwise, we need to pass "json"
secret_key <i>(optional)</i>	This optional parameter if provided is used to automatically add a domain if not exist already.
Response for name verification service	
Response field	Description
value	This response field contains the same name the user provided in the request.
error	This field indicates error. If it's non-zero, that means error occurred. You can lookup <i>message</i> response field to know the exact error.

status	This response field contains either “valid” or “invalid”
message	This response field contains the actual message in human readable form. In case of error, the same message is prompted to the user.
duration	This is the time system takes to respond
first	This response field is the same first name the user provided in the request.
last	This response field is the same last name the user provided in the request.
gender	This response field contains the gender based on the provided name. (M = Male, F = Female, U = Unknown)
middle	This response field is the middle name based on the name user provided in the request.
salutation	This response field is the salutation name based on the name user provided in the request.

IP verification Request/Response:

Here is the sample IP verification service URL:

```
http://www.xverify.com/services/ipdata/verify/?ip=<ip>&type=<xml/json>&apikey=<apikey>&domain=<allowed domain>
```

We can get this sample address verification URL from the XVerify back end system in the name/IP settings page.

Let’s go through of each request and response fields one by one through the following table:

Request for IP verification service	
Parameter in the Query String	Description
ip (required)	This request parameter contains the IP for which the user wants to verify
apikey (required)	This parameter takes the API key. API key is a value which we get in XVerify system once we are successfully registered with it.
domain (required)	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more domains through the XVerify system which you will provide here. We won’t entertain a query for which this value is unrecognized unless we have test transactions count under per day limit
type (required)	This parameter can take either “xml” or “json”. If we want to get the response in XML, then we need to pass “xml”, otherwise, we need to pass “json”
secret_key (optional)	This optional parameter if provided is used to automatically add a domain if not exist already.
Response for IP verification service	
Response field	Description
value	This response field contains the same name the user provided in the request.
error	This field indicates error. If it’s non-zero, that means error occurred. You can lookup <i>message</i> response field to know the exact error.

status	This response field contains either “valid” or “invalid”
message	This response field contains the actual message in human readable form. In case of error, the same message is prompted to the user.
duration	This is the time system takes to respond
region	This response field represents the relevant region based on the IP provided in the request
city	This response field represents the relevant city based on the IP provided in the request
country	This response field represents the relevant country based on the IP provided in the request
latitude	This response field represents the relevant latitude based on the IP provided in the request
longitude	This response field represents the relevant longitude based on the IP provided in the request

Phone confirm verification Request/Response:

Here is the sample Phone confirm verification service URL:

```
http://www.xverify.com/services/phoneconfirm/placecall/?phone=<phone_number>&country_code=<country_code>&code=<code_to_speak>&type=<xml/json>&&apikey=<api_key>&domain=<allowed_domain>
```

We can get this sample address verification URL from the XVerify back end system in the Phone confirm settings page.

Let’s go through of each request and response fields one by one through the following table:

Request for Phone confirm verification service	
Parameter in the Query String	Description
phone (<i>required</i>)	This request parameter contains the phone number where the call will be placed
country_code (<i>required</i>)	This request parameter contains the country code where the call will be placed
code (<i>required</i>)	This request parameter contains the code to speak during the placed call
redial_count (<i>optional</i>)	This request parameter is used to redial the call in case it's not picked for the first time. It's default value is 0 means no redialing is required.
redial_interval (<i>optional</i>)	This request parameter is used to define the interval between the redial attempts. It's necessary to provide with the redial_count parameter. It's given in seconds.
call_place_time (<i>optional</i>)	This request parameter contains the time to place the call for the first time. It's given in seconds.
apikey (<i>required</i>)	This parameter takes the API key. API key is a value which we get in XVerify

	system once we are successfully registered with it.
domain (required)	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more domains through the XVerify system which you will provide here. We won't entertain a query for which this value is unrecognized unless we have test transactions count under per day limit
type (required)	This parameter can take either "xml" or "json". If we want to get the response in XML, then we need to pass "xml", otherwise, we need to pass "json"
secret_key (optional)	This optional parameter if provided is used to automatically add a domain if not exist already.
Response for Phone confirm verification service	
Response field	Description
transaction_number	This response field contains the transaction number which uniquely identifies the placed call request.
error	This field indicates error. If it's non-zero, that means error occurred. You can lookup <i>message</i> response field to know the exact error.
message	This response field contains the actual message in human readable form.

Reverse phone Request/Response:

Here is the sample Reverse phone service URL:

```
http://www.xverify.com/services/
reversephone/verify/?phone=<phone_number>&type=<xml/json>&&apikey=<api_key>&domain
=<allowed_domain>
```

We can get this sample address verification URL from the XVerify back end system in the Reverse phone settings page.

Let's go through of each request and response fields one by one through the following table:

Request for Phone confirm verification service	
Parameter in the Query String	Description
phone (required)	This request parameter contains the phone number for which we are interested to see the information
apikey (required)	This parameter takes the API key. API key is a value which we get in XVerify system once we are successfully registered with it.
domain (required)	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more domains through the XVerify system which you will provide here. We won't entertain a query for which this value is unrecognized unless we have test transactions count under per day limit
type (required)	This parameter can take either "xml" or "json". If we want to get the response in

	XML, then we need to pass “xml”, otherwise, we need to pass “json”
secret_key (optional)	This optional parameter if provided is used to automatically add a domain if not exist already.
Response for Phone confirm verification service	
Response field	Description
name	This response field represents text of the listing name, both first and last, or the business name
firstname	This response field represents the first name of the residential listing (or the name of both people at the address, i.e. (“John & Mary”). This field is not populated for business listings.
lastname	This response field represents the last name of the residential listing. This field is not populated for business listings
fulladdress	This response field represents the full address of the person
houzenumber	This response field represents the text of the house number
housefraction	This response field represents the fractional portion of the house number. I.E. “1/2”, or “B”.
predirectional	This response field represents the directional that is placed in front of the street name; “SE”, or “NW”.
street	This response field represents the name of the street that the address is on
streettype	This response field represents the type of street that it is, i.e. Ave or Blvd
postdirectional	This response field represents directional after the name of the street; “NW” or “SE”
suiteno	This response field represents the suite, PO Box number or apartment number of the address
latitude	This response field represents the latitude, in degrees (i.e. 45.12345).
longitude	This response field represents the longitude, in degrees (i.e. –120.56789).
city	This response field represents the city of the listing.
state	This response field represents the state of the listing
zip5	This response field represents the first five digits of zip code
zip4	This response field represents the first four digits of zip code
npa	This response field represents the area code of listing phone number.
nxx	This response field represents the exchange of the listing phone number.
postfix	This response field represents the suffix of the listing phone number.
listingtype	This response field represents business, residential or government with “B”, “R”, or “G” respectively. <i>Note: listings will often be both business and residential, typically professionals working from home.</i>
flags	This response field represents different flags associated with the listing, such as non-pub or non-listed <ol style="list-style-type: none"> 1. NP – non-published 2. NL – non-listed 3. LP – listed and published record 4. OA – omit address 5. PA – populated address (mutually exclusive with OA) 6. FX – fax line 7. NF – non-fax line (mutually exclusive with FX) 8. CH – children’s line (only populated for residential listings) 9. NC – non-children’s line (only populated for residential listings, mutually

	10. exclusive with CH) 11. CS – Cellular Services, indicates a wireless number 12. PS - Paging Services, indicates a pager number
error	This field indicates error. If it's non-zero, that means error occurred. You can lookup <i>message</i> response field to know the exact error.
status	This response field has the following two possible values: <ol style="list-style-type: none"> 1. valid 2. unknown
message	This response field contains the actual message in human readable form.

Lead score Request/Response:

Here is the sample Reverse phone service URL:

```
http://www.xverify.com/services/ scoring/verify/?phone=<phone_number>&
firstname=<first_name>& lastname=<last_name>& address=<address>& city=<city>&
state=<state>& zip=<zip>& email=<email>&
start_time=<start_time_in_milli_seconds>&type=<xml/json>&&apikey=<api_key>&domain=<all
owed_domain>
```

We can get this sample lead score service URL from the XVerify back end system in the lead score settings page.

Let's go through of each request and response fields one by one through the following table:

Request for Lead score service	
Parameter in the Query String	Description
phone <i>(required)</i>	This request parameter contains the phone number for which we are interested to see the information
firstname <i>(required)</i>	This request parameter contains the first name
lastname <i>(required)</i>	This request parameter contains the last name
address <i>(required)</i>	This request parameter contains the address
city <i>(required)</i>	This request parameter contains the city
state <i>(required)</i>	This request parameter contains the state
zip <i>(required)</i>	This request parameter contains the 5 digit zip
email <i>(required)</i>	This request parameter contains the email address
ip <i>(required)</i>	This parameter takes the IP address
start_time <i>(required)</i>	This is the time you will get automatically from the submitted form. You are just supposed to forward the same parameter to our system (i.e. Xverify)

apikey (<i>required</i>)	This parameter takes the API key. API key is a value which we get in XVerify system once we are successfully registered with it.
domain (<i>required</i>)	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more domains through the XVerify system which you will provide here. We won't entertain a query for which this value is unrecognized unless we have test transactions count under per day limit
type (<i>required</i>)	This parameter can take either "xml" or "json". If we want to get the response in XML, then we need to pass "xml", otherwise, we need to pass "json"
secret_key (<i>optional</i>)	This optional parameter if provided is used to automatically add a domain if not exist already.
Response for Lead score service	
Response field	Description
value	This response field represents the phone number provided by the user.
name	This response field indicates whether the name (i.e. Full Name) is matched or not. It's possible values are yes/no
lastname	This response field indicates whether the last name is matched or not. It's possible values are yes/no
streetaddress	This response field indicates whether the address is matched or not. It's possible values are yes/no
city	This response field indicates whether the city is matched or not. It's possible values are yes/no
state	This response field indicates whether the state is matched or not. It's possible values are yes/no
zip	This response field indicates whether the 5 digit zip is matched or not. It's possible values are yes/no
iploc	This response field indicates whether the city we got in the IP lookup is matched with the user provided city or not. It's possible values are yes/no
validemail	This response field indicates whether the email actually exists or not. It's possible values are yes/no
score	This response field indicates the score in percentage.
error	This field indicates error. If it's non-zero, that means error occurred. You can lookup <i>message</i> response field to know the exact error.
status	This response field always has a "valid" value
message	This response field contains the actual message in human readable form.

All in One API Request/Response:

Here is the sample All in One API service URL:

```
http://www.xverify.com/services/allservices/verify/?services[email]=<email>&services[phone]=<phone_number>&services[address][street]=<street>&services[address][zip]=<zip>&services[address][city]=<city>&services[address][state]=<state>&domain=<allowed_domain>&type=<xml/json>&apikey=<api_key>
```

Let's go through of each request and response fields one by one through the following table:

Request for All in One API	
Parameter in the Query String	Description
services[email] <i>(required)</i>	This request parameter contains the email address to verify for email verification services. Please note that if this information is not provided or empty information is provided, our system will not use email verification service and ignore it.
services[phone] <i>(required)</i>	This request parameter contains the phone number to verify for phone verification services. Please note that if this information is not provided or empty information is provided, our system will not use phone verification service and ignore it.
services[address][street] <i>(required)</i>	This request parameter contains the street address. This is one of the required parameters in the address verification service. If all of the required information is not provided or empty information is provided, then, our system will not use address verification service and ignore it. However, if any one of the required information is missing, system will generate a proper response to let the user know about the missing parameter.
services[address][zip] <i>(required)</i>	This request parameter contains the zip code. This is one of the required parameters in the address verification service. If all of the required information is not provided or empty information is provided, then, our system will not use address verification service and ignore it. However, if any one of the required information is missing, system will generate a proper response to let the user know about the missing parameter.
services[address][city] <i>(optional)</i>	This request parameter contains the city. This is one of the optional parameters in the address verification service. If the optional parameters are missing, system will use the required information to verify the address.
services[address][state] <i>(optional)</i>	This request parameter contains the state. This is one of the optional parameters in the address verification service. If the optional parameters are missing, system will use the required information to verify the address.
apikey <i>(required)</i>	This parameter takes the API key. API key is a value which we get in XVerify system once we are successfully registered with it.
domain <i>(required)</i>	This parameter takes the allowed domain for which this query will be entertained. Please keep in mind that you need to add one or more

	domains through the XVerify system which you will provide here. We won't entertain a query for which this value is unrecognized unless we have test transactions count under per day limit
type (required)	This parameter can take either "xml" or "json". If we want to get the response in XML, then we need to pass "xml", otherwise, we need to pass "json"
Response for Lead score service	
Response field	Description
xvresponse	This is the root tag which contains all of the tags for the corresponding services.
email	This response field is a wrapper of email verification service response fields described in the above section named as " Email verification Request/Response "
phone	This response field is a wrapper of phone verification service response fields described in the above section named as " Phone verification Request/Response "
address	This response field is a wrapper of address verification service response fields described in the above section named as " Address verification Request/Response "

