Email Verification API User Guide

Email Verification API is a Simple REST API solution ensuring email deliverability and quality. It performs syntax, DNS, SMTP and advanced validation & verification checks against email addresses.

WhoisXmlApi.com provides RESTful APIs. It is designed for server-to-server communication between your system and the WhoisXmlApi.com network using standard HTTP or HTTPS protocols. The query responses are delivered in either XML or JSON formats based on your requests which are made through GET/POST methods.

To get started you need a developer's account with WhoisXmlApi.com. Authentication is required each time in order to use the API. The first 1000 Email Verification API calls are complimentary when you register for a free developer account.

Making a Call to Email Verification API Web Service

Use the following URL:

https://www.whoisxmlapi.com/whoisserver/EmailVerifyService?username=x&password=x&emailAddress=a%40b.com&validateDNS=true&validateSMTP=true

Supported input parameters

Parameters	Values	Parameters	Values
emailAddress	required, the email address to verify	validateDns	0 1 (defaults to 0)
			1 results in checking the email address with DNS
username	required unless ApiKey authentication is	validateSMTP	0 1 (defaults to 0)
	used, your account username		results in checking the email address with SMTP
password	required unless ApiKey authentication is	checkCatchAll	0 1 (defaults to 0)
	used, your account password;		1 results in checking if the email provider has a
	make sure it is <u>URL-encoded</u> if it		catch-all email address
	contains special characters (&, %, * etc.)		
requestObject	required unless password authentication	checkFree	0 1 (defaults to 0)
	is used, encoded user identifier for		1 results in checking whether the email provider
	ApiKey authentication		is a free one
digest	required unless password authentication	checkDisposable	0 1 (defaults to 0)
	is used, ApiKey access token		1 results in checking if the address is disposable
outputFormat	XML JSON (defaults to XML)	callback	a javascript function used when outputFormat
			is JSON;
			this is an implementation known as JSONP
			which invokes the callback on the response

Authentication

Password authentication

This method uses your account's username and password to authenticate with the web service. Just pass your credentials as query string parameters (*username*, *password*).

API key authentication

Generate access tokens providing your API and secret keys to make Email Verification API calls without sending your username and password. These tokens will need to be included as part of the request URL (*requestObject, digest*). Please, note that all tokens expire after 5 minutes and will have to be regenerated. Access the <u>API Key Management</u> section of your account to create your keys (make sure the key you're using is marked as active).

Query Account Balance Information

In order to query your account balance, use the following URL: <u>https://www.whoisxmlapi.com/accountServices.php?servicetype=accountbalance&username=x&password=x</u>

Supported input parameters

Parameters	Values	
servicetype	required, type of service; in this case, "accountBalance"	
username	required, your account username	
password	required, your account password; make sure it is URL-encoded if it contains special characters (&, %, * etc.)	

Usage of HTTP & HTTPS

You can use both http and https to make API queries. With HTTPS the connection will be more secure but slightly slower.

Sample Code for Making a Query to Email Verification API Web Service

You may view examples of querying Email Verification API by clicking on the following links or visiting our <u>GitHub page</u>.

User password authentication

- C#: example, Visual Studio solution
- Java: <u>example</u>, <u>Netbeans project</u>
- Javascript: <u>using the callback parameter</u>
- NodeJS: <u>example</u>
- Perl: <u>example</u>
- PHP: <u>example</u>
- PowerShell: <u>example</u>
- Python: <u>example</u>
- Ruby: <u>XML & JSON parsing</u>

API key authentication

- C#: example, Visual Studio solution
- Java: <u>example</u>, <u>Netbeans project</u>
- Javascript: <u>JSONP</u>
- NodeJS: <u>example</u>
- Perl: <u>example</u>
- PHP: <u>example</u>
- PowerShell: <u>example</u>
- Python: <u>example</u>
- Ruby: <u>example</u>

Usage Limits

The maximum number of requests per second is 1. In case that the limit is breached (either from single IP address or from multiple IPs), you will be penalized with the 30 second ban. That ban includes IPs that were used at the time of the offence, and includes all following IPs (based on username from additional requests) used during the ban time.

Sample Output (XML)

Output	Output continued		
<emailverifyrecord></emailverifyrecord>	<mxs></mxs>		
<emailaddress></emailaddress>	<string></string>		
support@whoisxmlapi.com	ALT1.ASPMX.L.GOOGLE.COM		
<validformat></validformat>	<string></string>		
ОК	ALT2.ASPMX.L.GOOGLE.COM		
< <u>smtp</u> >	<string></string>		
ОК	ASPMX.L.GOOGLE.COM		
<dns></dns>	<string></string>		
ОК	ASPMX2.GOOGLEMAIL.COM		
<free></free>	<string></string>		
false	ASPMX3.GOOGLEMAIL.COM		
<disposable></disposable>	<string></string>		
false	mx.yandex.net		
<catchall></catchall>			
true			

Sample Output (JSON)

Output				
{				
"EmailVerifyRecord": {				
"emailAddress": "test@google.com",				
"validFormat": "OK",				
"smtp": "OK",				
"dns": "OK",				
"free": "N/A",				
"disposable": "N/A",				
"catchAll": "N/A",				
"mxs": [
"alt4.aspmx.l.google.com",				
"alt3.aspmx.l.google.com",				
"alt1.aspmx.l.google.com",				
"aspmx.l.google.com",				
"alt2.aspmx.l.google.com"				
]				
}				
}				