

TokBox API 1.0 beta

TokbBox provides a growing range of possibilities for other developers to use its technologies on their websites. Currently, there are two ways to integrate TokBox on websites: embedding the widget and using the API. While embedding the widget is a simple way of using a TokBox account on a any webpage (like a personal webpage or your favorite social network profile page), the API is designed for developers of other websites, so their users can register and use TokBox on that website.

1- Embedding TokBox into any webpage

TokBox allows embedding of the video-chat widget of a user (his "TokBox") on any webpage. Note that there is an easy way to embed TokBox on many of the popular websites directly from our website (www.tokbox.com) - just click the embed tab after you login to the website.

The embedded widget can be accessed by a user both as a guest and as the owner of the TokBox, depending on the embedded call. The detailed code is provided below.

Access as a guest:

```
<object type="application/x-shockwave-flash" data="http://www.tokbox.com/f/[TOKBOX_WIDGET_ID]" width="540" height="260">
<param name="movie" value="http://www.tokbox.com/f/[TOKBOX_WIDGET_ID]"></param></object>
```

Authenticated access:

```
<object type="application/x-shockwave-flash" data="http://www.tokbox.com/f/[TOKBOX_WIDGET_ID]" width="540" height="260">
<param name="movie" value="http://www.tokbox.com/f/[TOKBOX_WIDGET_ID]"></param>
<param name=FlashVars value="user=[TOKBOX_USER_ID]&pass=[MD5_OF_PASSWORD]"></param>
</object>
```

Where:

[TOKBOX_USER_ID] is the tokbox userid

[TOKBOX_WIDGET_ID] is the widget ID being loaded.

[MD5_OF_PASSWORD] is an md5 of the password

2 - Using the TokBox API

Getting started

To use the TokBox API you need to register with TokBox and receive an API Key and a Secret Key, both required for every communication with TokBox API. You can do so by emailing us at contact@tokbox.com

Please note that you don't need an API key and secret to embed the widget on your website. You only need the API key and secret if you want to use the API.

The API that is currently implemented is based on POST requests to the PHP file api.tokbox.com/api.php. The API can be used for registering new users and get some basic information about users that have been registered through your site. We also provide an SDK for PHP, JavaScript and Java developers (can be downloaded from the site www.tokbox.com/view/developer.php). The SDK includes some basic code samples to be used as a reference and some elementary infrastructure for further development. The PHP part of the SDK provides, among other things, an easy interface to generate the code for embedding the widget.

Further specifications of the API are provided below.

Registering a user

To register a new user, send a POST request to api.tokbox.com/api.php with the following parameters:

Type	Name	Description
String	call	registerUser
String	api_key	The api_key you received upon registration.
string	v	This must be set to 1.0 to use this version of the API.
Float	call_id	The request's sequence number. Each successive call for any session must use a sequence number greater than the last. We suggest using the current time in milliseconds, such as PHP's <code>microtime(true)</code> function.
string	format	Optional - desired response format. Either "JSON" (default) or "XML"
String	username	Username of the user to register; we recommend to leave blank (to let our code to choose the username); any non-bank username you provide must be unique in the tokbox namespace, otherwise it will result in an error; must be alpha-

		numeric and can also include “_”; cannot be a numeric only. Must be between 3 and 16 character long.
String	firstname	First name of the user to register; any non-empty string without ‘<’ and ‘>’; at least 2 characters long;
String	lastname	Last name of the user to register; any non-empty string without ‘<’ and ‘>’
String	email	E-mail of the user to register; any string that can be a valid email address. Has to be an email address that is not currently registered for any other account in TokBox.
String	password	MD5 hash of the password to register; Please verify that the password itself is at least 5 characters long.
String	sig	An MD5 hash of the current request and your secret key, as described in the authentication section below.

Response:

Boolean	success	TRUE if call executed successfully.
Integer	error_code	Relevant error code if call failed, 0 otherwise. See below for list of error codes.
String	message	A detailed description of the error code if the call failed
Integer	user_id	User ID for the new user created (if created)
String	widget_id	The Widget ID for the new user created (if created)

Sample Response (JSON Encoded):

We need a request example to go with this example.

Successful add:

```

{"success":true ,"error_code":0,"message":"","user_id":"115368", "widget_id":"Zc34aSvb45D"}

```

Failed add:

```

{"success":false,"error_code":768,"message":"That email is already in use"}

```

Error codes:

Error_Code	Error_Name	Description
1	'AUTHENTICATION_FAILED'	MD5 Signature doesn't match request

2	'PARTNERID_INVALID'	API_KEY is not registered with TokBox
4	'PERMISSION_DENIED'	The API key that has been used has insufficient permissions to complete this API call
8	'FIRSTNAME_INVALID'	
16	'LASTNAME_INVALID'	
32	'USERNAME_INVALID'	
64	'PASSWORD_INVALID'	
128	'EMAIL_INVALID'	
256	'USERNAME_TAKEN'	Username is already in use
512	'EMAIL_TAKEN'	User already has a TokBox account.
1024	'CALL_INVALID'	Invalid API Call

To test for an error in php:

```
define('FIRSTNAME_INVALID',4);
if($res & FIRSTNAME_INVALID) echo "First name not valid";
```

Authentication

In order to guarantee security, each API call must be signed **after** concatenating the POST request string **and** the API Secret that you had received from TokBox. This ensures that only registered partners can make requests. Accordingly,

```
args = array of args to the request, formatted in arg=val pairs
sorted_array = alphabetically_sort_array_by_keys(args);
request_str = concatenate_in_order(sorted_array);
sig = md5(concatenate(request_str, secret))
```