[VERBIO CLOUD]

HTTP POST - Function Reference – V. 1.0
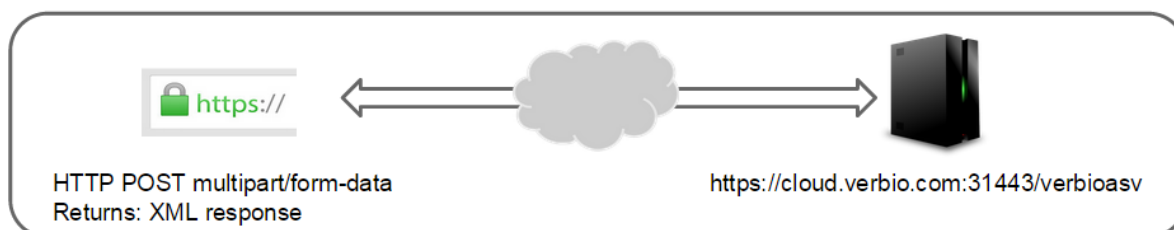
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	Revisión 1.0 16/01/2015

Request information

❖ **URL**: https://cloud.verbio.com:31443/verbioasv

HTTP POST multipart/form-data
Returns: XML response

https://cloud.verbio.com:31443/verbioasv

❖ HTTPS request that needs **http basic authentication + "asv_api_key" parameter** in HTTP POST.

❖ Requests to the cloud ASV API must be done via **HTTP POST "multipart/form-data"** request.

❖ **POST parameters**:

  o *asv_command: ASV function to execute. Possible values are:*

  ✓ "**newuser**": request a new user ID within the User Database. If success, the system returns the new user ID to be used.
  ✓ "**addfile**": add a training file for a specified user ID (got using "newuser" command). It must be run for each audio file recorded by the user within the training session.
  ✓ "**train**": creates the voice fingerprint for the specified user ID. It is necessary to previously add training audio files using the "addfile" command.
  ✓ "**verify**": get a confidence level about the verification identity of a user ID and a provided audio file with recorded voice.
  ✓ "**userinfo**": get user ID information (available training material).

  See section "Commands" for more information about commands and parameters.

  o *asv_user*: ASV user ID when performing a "verify", "addfile", "train" or "userinfo" function.

  o *asv_api_key*: key code to be able to use ASV from the client side (to be provided by Verbio).

  o *audio*: audio file (16KHz, PCM linear 16bit, mono, raw data). Only needed when performing an "addfile" or "verify" function.

  o *asv_verify_prompt* [optional]: prompt shown to the user when executing a verify function (used to check -via ASR- if the user said the prompt sentence). That is, for *lifeness detection*, sometimes the sentence to be pronounced is dynamically generated.

  o "asv_lang" [optional]: language identifier depending on the language used by the users.

❖ The POST request returns an **xml response**.
  See section "Commands" for more information about XML content.

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Commands

newuser

Request a new user ID within the User Database. If success, the system returns the new user ID to be used

Parameters:

"asv_command"

"asv_api_key"

Request:

$ curl -k --user $USER:$PASSWORD -include --form asv_api_key=$API_KEY --form asv_command="newuser" https://cloud.verbio.com:31443/verbioasv

Response: (in red, the most important response items for that command)

```
<asv_result>
        <asv_user></asv_user>
        <asv_audio_file></asv_audio_file>
        <asv_command>newuser</asv_command>
        <asv_prompt></asv_prompt>
        <asv_retval>0295</asv_retval> // a new user id or -1 on error
        <asv_score>0.0</asv_score>
        <asv_error>None</asv_error>
        <asv_log></asv_log>
</asv_result>
```

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addfile

Add a training file for a specified user ID (got using "newuser" command). It must be run for each audio file recorded by the user within the training session.

Parameters:

"asv_command"

"asv_api_key"

"asv_user"

"audio"   (16KHz, PCM linear 16bit, mono, raw data)

Request:

$ curl -k --user $USER:$PASSWORD -include --form asv_api_key=$API_KEY --form asv_command="addfile" --form asv_user=*user_ID* --form audio=@*path_to_audio_file* https://cloud.verbio.com:31443/verbioasv

Response: (in red, the most important response items for that command)

<asv_result>

    <asv_user>0295</asv_user>

    <asv_audio_file>*audio_file*.pcm</asv_audio_file>

    <asv_command>addfile</asv_command>

    <asv_retval>0</asv_retval> // 0 on success, -1 on error

    <asv_score>0.0</asv_score>

    <asv_error>None</asv_error>
</asv_result>

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train

Create the voice fingerprint for the specified user ID. It is necessary to previously add training audio files using the "addfile" command.

Parameters:

"asv_command"

"asv_api_key"

"asv_user"

Request:

$ curl -k --user $USER:$PASSWORD -include --form asv_api_key=$API_KEY --form asv_command="train" --form asv_user=*user_ID* https://cloud.verbio.com:31443/verbioasv

Response: (in red, the most important response items for that command)

```
<asv_result>
    <asv_user>0295</asv_user>
    <asv_audio_file></asv_audio_file>
    <asv_command>train</asv_command>
    <asv_prompt></asv_prompt>
    <asv_retval>0</asv_retval> //0 on success, -1 on error
    <asv_score>0.0</asv_score>
    <asv_error>None</asv_error><asv_log></asv_log>
</asv_result>
```

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verify

Get a confidence level about the verification identity of a user ID and a provided audio file with recorded voice.

Parameters:

"asv_command"

"asv_api_key"

"asv_user"

"audio"   (16KHz, PCM linear 16bit, mono, raw data)

Request:

$ curl -k --user $USER:$PASSWORD -include --form asv_api_key=$API_KEY --form asv_command="verify" --form asv_user=user_ID --form audio=@path_to_audio_file https://cloud.verbio.com:31443/verbioasv

Response: (in red, the most important response items for that command)

```
<asv_result>
        <asv_user>0295</asv_user>
        <asv_audio_file>60044130-9db5-11e4-9868-002590d72a66.pcm</asv_audio_file>
        <asv_command>verify</asv_command>
        <asv_prompt></asv_prompt>
        <asv_retval>1</asv_retval> // 1: user identity verified, 0: user identity not verified, -1: error
        <asv_score>112.17</asv_score>  //confidence about the veracity of the voice
        <asv_error>None</asv_error><asv_log></asv_log>
</asv_result>
```

userinfo

Get user ID information (available training material).

Parameters:

"asv_command"

"asv_api_key"

"asv_user"

Request:

$ curl -k --user $USER:$PASSWORD -include --form asv_api_key=$API_KEY --form asv_command="userinfo" --form asv_user=user_ID https://cloud.verbio.com:31443/verbioasv

Response: (in red, the most important response items for that command)

```
<asv_result>

        <asv_user>0295</asv_user>

        <asv_audio_file></asv_audio_file>

        <asv_command>userinfo</asv_command>

        <asv_prompt></asv_prompt>

        <asv_retval>

        <userinfo><asv_nfiles>2</asv_nfiles><asv_files_age>14</asv_files_age><asv_speech_ms>558</asv_speech_ms></userinfo>

        </asv_retval>

        <asv_score>0.0</asv_score>

        <asv_error>None</asv_error><asv_log></asv_log>
</asv_result>
```

Where:

❖ **asv_nfiles**: quantity of audio files provided using the "addfile" method.
❖ **asv_files_age**: days elapsed from the last uploaded file.
❖ **asv_speech_ms**: quantity of training audio "time" available, provided using the "addfile" method.

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Credentials

USER: provided by Verbio. Please, contact your sales representative.
PASSWORD: provided by Verbio. Please, contact your sales representative.
API_KEY: provided by Verbio. Please, contact your sales representative.