



iProov Enrol VBO

USER GUIDE V1.0

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1. Introduction

This asset is designed to assist in providing access to the iProov User API. This asset is not a complete solution. iProov incorporates technology to assess the genuine presence of the user, and therefore it is only an accelerator to assist in your integration between the UI and your back-office system. In order to use this asset correctly it is necessary to be able to access the iProov verification server from your back-end system.

There are 4 iProov API wrappers for use from Blue Prism:

- iProov Enroll
- iProov Management
- iProov User
- iProov Verify

It is highly likely your installation will require all of these assets, depending on your usage. However it is expected you will always require the management asset, as this houses the OAuth2 wrapper.

2. Prerequisites

To use this asset, you require a licenced Blue Prism installation or trial. More information on Blue Prism can be found here: <https://www.blueprism.com/free-trial>.

You will also require an iProov subscription. Further details of this can be found at <https://www.iproov.com> or from your Blue Prism representative.

This asset requires the Yoo Multipart Form Post asset. It is not included in the release file and is a separate download. It can be found here, <https://digitalexchange.blueprism.com/dx/entry/50836/solution/yoo---multipart-form-post>.

In addition to the above this asset requires the Utility – Collection Manipulation. While this asset is included with Blue Prism, it may not be installed in your system. The VBO can be located in the Blue Prism installation directory.

The output of this asset is in JSON (JavaScript Object Notation), as such it makes use of a Microsoft .NET assembly called Newtonsoft. This helps process JSON output from the webservice and make it easy to work with. This assembly normally exists in your Blue Prism folder and should not need any additional work on your part. This notice is provided simply for awareness.

3. Purpose

This asset is intended to assist in working directly with the iProov system and enables ID verification using biometric data. This is not meant to be an out of the box solution, it will be necessary to involve professional services staff to assist with the build-out of this solution involving iProov in order to ensure the security of your system is not compromised in any way. It should be remembered that any client application can be infiltrated and as such input from any client application should not be regarded as valid until validated by the other parts of the API.

4. Using the Business Object

4.1. Enrol a user through a trusted photo

Enrols a user through a photo that is trusted by the service provider to be a likeness of the user. To call this endpoint you need to perform a previous API call:

- Firstly get a token that is associated with a user ID
- Secondly upload the image with this endpoint

Accepted media types are jpeg and png images. JP2 image support is currently in progress.

Note that due to the security implications of allowing users to enrol with just images this endpoint is restricted on a per service provider basis

This call makes use of a third-party VBO to handle the multipart data requirements of this iProov endpoint. The parameters below are for the YOO Multipart Form Post VBO.

Inputs

Name	Description	Data Type
Url	The url of the endpoint. Provided by iProov.	Text
Headers	A collection of headers for the multipart post	Collection
Body	The body of the post message.	Collection
FilePath	The path of the photograph file to be used for enrolment.	String
FileKeyName	The body's key name to the file.	String
FileContentType	Content file type. Eg "image/png"	string
Image (optional)	Blue Prisms Image Data Object to be sent in POST body	Image
ImageKeyName (required if have image)	Body's key name to the image	Text
UserAgent (optional)	User Agent Parameter eg. "Blue_Prism"	Text

Outputs

Name	Description	Data Type
Response	The result of the call to the endpoint.	Text
Status	The resulting http status of the call	Text

4.2. Generate an enrolment token

Generate an enrolment token for a new user to enrol with a service provider

Inputs

Name	Description	Data Type
Api_key	The API key of the service provider	Text
Secret	The API secret for the service provider	Text
Resource	The resource being accessed (e.g. URL)	Text
User_id (optional)	The asserted identifier of the user that is used to associate with the enrolment token.	Text
Risk_profile (optional)	The Risk_profile parameter is an advanced feature which is usually not required in most cases. Because of that, it requires to be agreed and configured accordingly in advanced by iProov.	Text

There are other three optional parameters in this call (success_url, failure_url and abort_url). These are legacy fields and should not be used in new implementations. Because of that, they are not included in this document.

Outputs

Name	Description	Data Type
Token	The token should be referenced if there are issues with an individuals claim and is used as a transaction id	Text
Primary	Response from the iProov system	Text
User_id	The user id of the user associated with the token. Null if no user is associated with the token.	Text
Pod	The pod that will be used for the claim. The pod is iProov infrastructure detail.	Text
Redirect_domain	If the service provider has a dedicated landing page hosted at iProov, this will contain the URL to redirect to when the call is completed.	Text

4.3. Validate the Enrolment result

Validate the enrolment result and activate the user. This endpoint can only be called once for a given token after a full end to end transaction has been completed. Subsequent calls for the same token will give a 400 status result.

Note that the result received in the client application cannot be trusted. You must call this endpoint to avoid any man in the middle attacks between the user trying to authenticate and the iProov service.

Additionally, without this call the user will not be activated and therefore will be unable to be verified unless they were enrolled using the photo enrol API.

Inputs

Name	Description	Data Type
Api_key	The API key of the service provider.	Text
Secret	The API secret for the service provider.	Text
User_id	The asserted identifier of the user.	Text
Token	The token for the claim	Text
Ip	IP address of the device making this request.	Text
Client	Fingerprint or client identifier of the device making the request (eg. User Agent)	Text
Risk_profile (optional)	The Risk_profile parameter is an advanced feature which is usually not required in most cases. Because of that, it requires to be agreed and configured accordingly in advanced by iProov. Note that if the risk profile was set when generating the enrolment token, the same risk profile should be used in this call.	Text
Activate (optional)	Activate the user's account (default: true)	Flag

Outputs

If a result is found (or the query has failed), without needing further consultation, a result object will be returned. Otherwise a question object is returned.

Name	Description	Data Type
Passed	Did the validation work?	Flag
Token	The associated validation token	Text
Type	What type of response, in this case, it would be 'verify'.	Text
reason	The failure reason	Text

There are additional fields that could be returned from this call. They are:

Frame_Available – Flag (Boolean)

Frame – Text (String)

ISO_19794_5 – Text (String)

Risk_Profile – Text (String)

Assurance_Type – Text (String)

Whilst these are not provided by default, they can be added to the JSONPath output on the Web Service call.

5. Support

Support for this skill is provided via the Blue Prism Digital Exchange Community Forum. Post your questions here:

[Digital Exchange Community Forum](#)

iProov user returns 200 HTTP status in case of a successful request.

While, in case of an illegal request, iProov returns 4xx HTTP code along with a descriptive message as why the error occurred.

6. Functional Tests

There is a simple test process supplied in the release file. It has been tested for functionality and not performance. Blue Prism does not guarantee this VBO asset as being suitable for any specific purpose and it is up to the customer to ensure it meets their requirements. Use of this VBO asset is acceptance of this understanding. The iProov platform is very flexible and whilst this asset may not cater for all options as it is, it can be customized to meet the options provided by the iProov platform.

7. Troubleshooting Guidelines

For more details on the iProov API, please check their documentation at <https://secure.iproov.me/docs.html>.

8. Frequently Asked Questions

There are no frequently asked questions at this stage.