



IN-D

USER GUIDE

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1.

Introduction

Blue Prism's Technology Alliance Program (TAP) partnership with IN-D adds smart identity document processing solution using Artificial Intelligence to Blue Prism Robotic Process Automation (RPA) to minimize the time required for processing identity (KYC) documents. This integration adds the critical skill of identity document processing to Blue Prism Intelligent Automation, giving enterprises the ability to filter out badly scanned documents, classify different identity documents and extracts the data from it within a Blue Prism Digital Worker's defined workflow.

2. Solution Overview

IN-D AI engine is built using machine learning and computer vision techniques to classify the identity documents and extract necessary fields from it in Blue Prism's Digital Workforce.

The following are the identity documents and the respective fields IN-D AI engine can classify and extract:

- Aadhaar Card – (Aadhaar Number, Candidate Name, DOB, Gender, Address & Spouse/Father Name)
- PAN Card – (PAN Number, Candidate Name, DOB, Father Name)
- Voter ID – (Voter ID, Name, Father Name, DOB, Gender, Address)
- Passport – (Candidate Name, Surname, Date of Expiry, Date of Birth, Passport Number, Place of Birth, Address, Father Name, Mother Name, File Number)
- Driving License – (Name, Father Name, DOB, Number, Validity)

The combination of IN-D technology and Blue Prism's Digital Workforce lets enterprises take a much deeper dive into intelligent data extraction from KYC documents. IN-D firstly indicate the end-user whether the input image is good enough to extract and notify for rescanning the document. Next, IN-D classifies the document and mention the document type, extracts necessary fields from the document, and exports it over to a Blue Prism digital worker for processing following enterprise goals and requirements.

2.1. Asset Details

The asset contains both IN-D Web API & IN-D Identity Document Processing VBO whereas, the IN-D Identity Document Processing VBO depends upon the IN-D Web API. The IN-D VBO has two actions inbuilt, (a) Image Quality & Type Classification (b) Image Type Classification & Extraction

2.2. How it works

The following is how IN-D Identity Document Processing VBO works

- ✦ **Capture** – Capture the identity document from the BP workflow
- ✦ **Classify** – Automatically classify all the documents – also tells the quality of the captured document, notifying the end-user to scan the document again
- ✦ **Extract** – Extract the required fields from the document
- ✦ **Export** - Export all the data required in the BP workflow

3. Pre-requisites and Environment Configuration

3.1. IN-D Prerequisites

To use the IN-D skills, the following are required:

- Knowledge of IN-D capabilities, structure and features
- The response for both the APIs in the VBO is the image name and the image path

3.2. Blue Prism Configuration

Basic authentication credentials (i.e. username and password) must be created for the IN-D user. By default, this credential is assumed to be called "IN-D", however this is configurable in the action input parameters.



4.

Using

the IN-D VBO

The following section describes how to use the IN-D VBO in Blue Prism processes.

4.1. Common Parameters

These parameters are common to both the IN-D VBO actions

4.1.1. Input Parameters

These are the input parameters which can be configured for IN-D VBO

Parameter	Data Type	Description
Image in Bytes	Binary	Bytes of the image (Blue Prism binary datatype import image in binary data item)
Image Name	Text	The name of the image which has to be extracted image name extension must be jpg, jpeg, pdf, png.

4.1.2. Output Parameters

These are the output parameters which can be configured for IN-D VBO

Parameter	Data Type	Description
HTTP Status Code	Text	This shows the status of the processing once done. Status 200 – Success Status 400 – Invalid Request (invalid image name or invalid bytes of image) Status 500 - Internal Server Error
Response Content	Text	This is a JSON file having respective fields based on the action chosen. The fields in the output response from different actions are listed below

1.1. Image Quality & Type Classification

This action can be used to identify whether an image is good enough for extraction and to classify the type of document

4.1.3. Output Parameters

These are the output fields which the action will provide

Fields	Data Type	Description
IMAGENAME IMAGE_QUALITY DOC_TYPE	Text	<ul style="list-style-type: none">This gives the quality of the image (Good & Unknown) and type of the document (AADHAAR FRONT, AADHAR BACK, VOTER CARD, DRIVING LICENSE, PASSPORT FRONT, PASSPORT BACK, PAN CARD) IN JSON Format.





4.2.

Image Type Classification & Extraction

This action can be used to classify the document type and extract the required above-mentioned fields for the respective document

4.2.1. Output Parameters

These are the output fields which the IN-D VBO will provide for respective document after identifying the type of the document

Document Type	Fields	Data Type	Description
Aadhar Front	Imagename AADHAR_NUMBER ADDRESS CANDIDATE_NAME DOC_TYPE FATHER_SPOUSE_NAME GENDER	Text	The fields will be stored in response content output parameter as JSON format. These fields can be stored into collection by using, Blue Prism VBO  Utility JSON  JSON to Collection.
Aadhar Back	Imagename ADDRESS DOC_TYPE FATHER_SPOUSE_NAME	Text	
Passport Front	Imagename CANDIDATE_NAME DATE_OF_EXPIRY DOB DOC_TYPE PASSPORT_NUMBER PLACE_OF_BIRTH SURNAME	Text	
Passport Back	Imagename ADDRESS DOC_TYPE FATHER_NAME MOTHER_NAME	Text	
Voter Id	Imagename ADDRESS CANDIDATE_NAME DOB DOC_TYPE FATHER_NAME GENDER VOTER_ID	Text	



Driving License	Imagename CANDIDATE_NAME DL_NUMBER DOB, DOC_TYPE FATHER_NAME VALIDITY	Text	
Pan Card	Imagename CANDIDATE_NAME DOB DOC_TYPE FATHER_NAME PAN_NUMBER	Text	

5. Support

Support for this VBO is provided from IN-D by Intain. Feel free to reach out to us by mailing us to explore@intainft.com. You can also contact us via our contact form on our website by accessing the following link.

<https://www.in-d.ai/contact/>

6. Functional Tests

No specific tests are provided with the VBO, and no universal test instance is available to make dummy calls to; it is expected that users will use appropriate tests on their own IN-D environments to validate that the VBO is behaving as expected.

7. Troubleshooting Guidelines

There are no known commonly encountered issues at this stage, or corresponding resolutions for them. If users begin encountering issues, then this section will be updated with known resolutions.

8. Frequently Asked Questions

There are no frequently asked questions at this stage.