

IQ Bot API Operations

(A360 Custom Package)

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1 Introduction

1.1 Purpose of this document

This document aims at explaining:

- Features of IQ Bot API upload
- Pre-requisites
- How to setup and execute the Bot

1.2 Overview

IQ Bot API upload/download actions help us upload and download documents to IQBot Instances based on Instance Id and File Id. Check file status action helps us track file status of files based on file Id.

The “IQ Bot Upload” action takes Learning instance Id and File Path. It returns the file Id of the uploaded file.

The “Check File Status” action takes Learning instance Id and File Id. It returns one of 5 statuses.

1. "Success"
2. "Validator"
3. "Untrained"
4. "Unclassified"
5. "Unknown"

The “Get Document Details” action takes File Id. It returns a table variable containing the document details (instead of downloading csv files)

1.3 IQ Bot API Operations Advantages

1. These actions help upload/track/download the documents to IQBot by tracking the file id instead of file name. This will reduce conflicts due to files with the same name being uploaded to the same instance. This will reduce the need for input file naming conventions.
2. The developers can track the status of each individual files. The files will be classified into (Success/Validator/Untrained/Unclassified) instead of (Success/Failure) provided by the conventional action.
3. Documents in validator can be re-run when cleared by saving the File Ids. The validator doesn't have to be cleared immediately after upload. This will help plan the validation activity as a batch process instead of a continuous process, reducing the people required for this activity.
4. It helps the developer download only the file he uploaded(using file id), instead of downloading all files in the success folder.
5. The download action returns the document contents in a data table. This will reduce the need to download/save/maintain csv files.
6. These actions help handle concurrency when multiple processes share the same instance. Since operations are managed with file id, different processes will not interfere with each other.
7. These actions will also help manage concurrency when WLM is implemented, since each runner will only download the file it uploaded and the other files will not be cleared from the server.
8. These actions enable us to upload/download files from server when bot is running in production. The process will not be affected since upload/download actions are controlled by file id.

2 Key Features

- Instance id can be variabilized
- The upload action returns the file id which can be used to track file status/get document details.
- The Check File status action helps track the status of file using File Id and returns either (Success, Validator, Untrained, Unclassified or Unknown)
- The Get Document Details returns the data Table containing the document details. The data table contains all the form field and table fields extracted by IQBot(multi-rows are supported)
- The column headers of the data table are the same as the field names created in the IQBot instance.

3 Pre-Requisites

- The A360 control room should be of version 22 or greater. The "Get Document Details" action uses version .22 APIs and will not work in previous versions.
- "IQ Bot Upload" and "Check File Status" will work in versions earlier than 22.
- The file uploaded should be IQ Bot supported format(.pdf,.jpeg,.tiff or .png)

4 Bot Execution & Command Parameters

4.1 Bot Execution Flow

The end to end execution of IQ Bot Batch report takes place using the following bot actions

1. IQBot Upload to upload the document to the instance and generate the File Id
2. Check the File status in a loop (maximum of 15 times-until a status other than Unknown is received). Time delay and number of attempts can be changed.
3. Once the status is received, the Bot can take action according to value of variable sFileStatus
4. In case of success, the bot will get Document Details in a Datatable and display as string

5. The bot will go to specific code blocks in-case of Validation, Untrained and Unclassified where the handling logic can be written.

4.2 Command Parameters

1. IQ Bot Upload Action

- Instance Id of the IQ Bot learning instance.
- The file path of the document uploaded to the instance
- File Id(output) returns the file id generated when the file was uploaded into the instance.

IQ Bot APIs: IQ Bot Upload

Upload file to IQBot

Instance ID

” \$sInstanceId\$

Upload File Path

” \$sUploadFilePath\$

File Id

” sFileId

2. Check File Status

- Instance Id of the IQ Bot learning instance.
- File Id of the file uploaded(returned by previous action)
- File Status(output) to get the status of file whose file id is mentioned.

IQ Bot APIs: Check File Status

Return file status based on File Id

Instance ID

” \$sInstanceId\$

File Id

” \$sFileId\$

File Status

” sFileStatus

3. Get Document Details

- File id of the file in Success
- Document Details as Data Table(output)- this gives the document details output as data table which has column name and multiple rows.

IQ Bot APIs: Get Document Details

Get document details as a table based on file id

File Id

” \$sFileId\$

Document details as Data Table

tblInvoiceDetails

4. Finding the packages on work-bench

Actions

iq bot api

IQ Bot APIs

- ✕ Check File Status
- ✕ Get Document Details
- ✕ IQ Bot Upload

5 Support

Free bots are not officially supported. You can get access to Community Support through the following channels:

- You can get access to Community Support, connecting with other Automation Anywhere customers and developers on [APeople](#) – the [Bot Building Forum](#), the [Bot Store Support Forum](#), or the [Developers Everywhere Group](#).
- Automation Anywhere also provides a [Product Documentation portal](#) which can be accessed for more information about our products and guidance on [Enterprise A2019](#)