ForIT Solutions® ownOCR Server RESTful Web Services API Reference

v2.0.20

Introduction

ForIT Solutions® ownOCR Server provides RESTful Web Services API which allows developers to integrate OCR and PDF conversion functionality in their applications. This document applies to the version v2.0.20 of the ownOCR Server.

General Information

URL: http[s]://hostname:[port]/[prefix]/ocrjobs
Live DEMO server: https://api.ownocr.com/ocrjobs

Examples: http://localhost:8080/api/ocrjobs, https://localhost:44310/secureApi/ocrjobs.

The live DEMO server (https://api.ownocr.com/ocrjobs) does not require authentication.

How it works?

The RESTful Web Services API allows to create, configure, schedule, download, delete OCR and PDF conversion jobs on the ForIT Solutions® ownOCR Server. An OCR job contains all required information about the file which should be OCR processed. To create an OCR or PDF conversion job and retrieve the result PDF, the following actions should be called:
1.   call the **create** action
2.   call the **upload** action
3.   call the **status** action while the job status becomes Converted or Error
4.   call the **download** action

Security

If the Web Services authentication is enabled, each request should contain Authorization headers. ForIT Solutions® ownOCR Server RESTFul Web Service API implements the Basic authentication scheme.

Implementation notes

Users with Admin rights have access to all jobs on the server. The *query*, *count*, *runningcount*, *all*, *allbystatus*, and *templates* actions will return information about **all** jobs on the server. Users without Admin rights have access only to their own jobs. The *count*, *runningcount*, *all*, *allbystatus*, and *templates* will return only information about jobs which were created by their owners.

Enumerating OCR folder definitions and posting files to OCR folders is only allowed for users which have the needed rights, *Enum OCR Folder Definition and Post Files to OCR Folders* respectively.

API Reference

Actions

Name	Description	URL
Job related functions		
create	Creates a new job	baseurl/create
createfromtemplate	Creates a new job based on an existing template	baseurl/createfromtemplate/<id>
setoptions	Sets the job options	baseurl/setoptions/<id>
upload	Uploads the file to the job (the file type is determined based on its mime type)	baseurl/upload/<id>
uploadext	Uploads the file to the job (the file type is determined based on the extension parameter)	baseurl/upload/<id>/<ext>
schedule	Schedules the job	baseurl/schedule/<id>
status	Retrieves the status of the job	baseurl/status/<id>
download	Downloads the OCR result	baseurl/status/<ext>
info	Retrieves information about the job	baseurl/info/<id>
cancel	Cancels the OCR job	baseurl/cancel/<id>
delete	Deletes the OCR job	baseurl/delete/<id>
query	Queries jobs on the server	baseurl/query
Job Template related functions		
createtemplate	Creates an OCR job template	baseurl/createtemplate
setoptions, info, delete	see also **Job Related functions**	baseurl/<function>/<id>
templates	Downloads all available templates	baseurl/templates
Information about jobs		
status	Gets the status of an OCR job	baseurl/status/<id>
info	Retrieves information about an OCR job	baseurl/info/<id>
count	Returns the total number of jobs on the server	baseurl/count
runningcount	Returns the count of processing jobs on the server	baseurl/runningcount
all	Returns all jobs	baseurl/all
allbystatus	Gets a list of jobs with the given status	baseurl/allbystatus/<id>
OCR Folder Definition related functions		
folders	Returns a list of OCR Folder Definitions	baseurl/folders

postfolder	Posts a file to an OCR Folder Definition. If the file already exists, it will be overwritten.	baseurl/postfolder/<id>
postfolderu	Posts a file to a folder. If the file already exists, the system will try to create an unique name for the file.	baseurl/postfolderu/<id>
folder	Retrieves information about a folder	baseurl/folder/<id>
addupdatefolder	Adds or updates an OCR Folder definition	baseurl/addupdatefolder
removefolder	Removes an OCR Folder definition	baseurl/removefolder
Other functions		
languages	Returns an array of available recognition languages	baseurl/languages
version	Returns the ownOCR Server version (IE. v1.0.4)	baseurl/version
test	Returns true if connection was successful	baseurl/test
name	Retrieves the name of the server	baseurl/name
nameversion	Retrieves the name of the server and version	baseurl/nameversion
stats	Returns Web Service statistics	baseurl/stats
serverload	Returns the server load	baseurl/serverload
guid	Returns the Guid of the server	baseurl/guid
supportedexts	Returns an array of supported file extensions	baseurl/supportedexts
Digital signature related functions		
signatureprofiles	Returns an array of available digital signature profiles (configured on the server)	baseurl/signatureprofiles
Forms Processing related functions		
forms	Returns an array of available forms processing templates	baseurl/forms

OCR Job Properties

Member name	Data Type	Description	
General information			
Id	integer	The unique identifier of the job	read only
TemplateId	integer	The identifier of the template, if the job was created based on a template	read only
Guid	string	The unique identifier of the job	read-only
Status	integer	The status of the job. Possible values: • 0: created • 1: scheduled • 2: converting • 3: converted • 4: error	read only
ErrorDescription	string	If the conversion was not successful, this field contains information about the error	read only
Created	date/time	Creation date of the job	read only
Modified	date/time	Modification date of the job	read only
Finished	date/time	Finished date	read only
Scheduled	date/time	Scheduled date (has correct value only if the job was scheduled)	read only
Started	date/time	Date processing started (the value is correct only if the processing was started).	read only
NumberOfPages	int	Number of pages of the OCR job (filled in when the OCR processor opens the job)	read only
IsTemplate	bool	Indicates whether the job is a template	read only
UserName	string	The name of the user who created the job. This value is empty if authentication is not enabled	read only
FileUploaded	bool	true, if at least one file was uploaded	read only
Descr	string	The description of the job	optional
CorrelationId	string	Any identifier which can be specified by the developer	optional
Autostart	bool	If set to true (which is the default value), the job is automatically scheduled after the file is uploaded, otherwise the job should be scheduled manually, using the **schedule** action.	optional (default value: true)
RetentionDays	integer	Integer value that indicates the number of days the job is kept on the server. Valid values are between 1 and **Max retention days** configuration option.	optional (default value is the **Max retention days** configuration option)
PdfOutput	bool	if true, PDF output will be generated	optional

			(default value: true)
TxtOutput	bool	if true, plain text output will be generated	optional (default value: false)
DocxOutput	bool	if true, DOCX output will be generated	optional (default value: false)
XmlOutput	bool	if true, XML output will be generated	optional (default value: false)
RtfOutput	bool	if true, RTF output will be generated	optional (default value: false)
OdtOutput	bool	if true, ODT output will be generated	optional (default value: false)
MhtOutput	bool	if true, MHT output will be generated	optional (default value: false)
EpubOutput	bool	if true, EPUB output will be generated	optional (default value: false)
PDF output			
PdfConformance	integer	Possible values are: • 0: PDF 1.5+ • 1: PDF/A-1b • 2: PDF/A-2b • 3: PDF/A-3b • 4: PDF/A-1a • 5: PDF/A-2a • 6: PDF/A-3a	optional (default value: 0)
PdfTitle	string	The Title field of the PDF document metadata	optional
PdfSubject	string	The Subject field of the PDF document metadata	optional
PdfAuthor	string	The Author field of the PDF document metadata	optional
PdfKeywords	string	The Keywords field of the PDF document metadata	optional
BWCompression	integer	The image compression for black & white images in the output PDF document. Possible values: • 0: CCITT Gr 4 • 1: RLE • 2: JBIG2 Low Quality • 3: JBIG2 Medium Quality • 4: JBIG2 High QUality	optional (default value: 0)
ColorCompression	integer	The image compression for gray scale and color images in the output PDF document. Possible values	optional (default value:

		are:	1)
		0: JPEG Low Quality 1: JPEG Medium Quality 2: JPEG High Quality 3: LZW 4: JPEG2000 Low Quality 5: JPEG2000 Medium Quality 6: JPEG2000 High Quality	
Image processing features			
Deskew	bool	Deskew document	optional (default value: false)
DeskewAdjustPaperSize	bool	Adjust paper size to the original document size after deskew. This option has effect only if Deskew = true	optional (default value: false)
AutoOrientation	bool	Detect and correct the orientation of the document image	optional (default value: false)
ClearBorder	bool	Clears the borders of the document image	optional (default value: false)
DeleteBorder	bool	Deletes the borders of the document image	optional (default value: false)
Despeckle	bool	Despeckle the document image	optional (default value: false)
RemoveColorNoise	bool	Removes color noise from the document image	optional (default value: false)
RemoveHalftone	bool	Removes halftone from the document image	optional (default value: false)
RemoveHolePunch	bool	Removes the hole punches of the document image	optional (default value: false)
Binarize	bool	Binarize (convert to black & white) the document image	optional (default value: false)
ImproveText	bool	Improve text quality of the document image	optional (default value: false)
OCR Settings			
RecognitionLanguages	string	Coma or semicolon separated value: English, German, etc.	optional (default value: English)

MinConfidence	integer	Lower confidence words will not be included in the OCR result. Valid values are between 0-100.	optional (default value: 60)
NrOfOCRThreads	integer	Number of OCR threads used to process the document image. Valid values are between: 1 - 32	optional (default value: 2)
FastMode	bool	If this value is set to true, the OCR processing will be faster, but the output recognized quality will be lower	optional (default value: false)
RemoveWhiteSpaceRegions	bool	All recognized white spaces will not be included in the OCR result.	optional (default value: false)
IntelligentPDFProcessing	bool	If this value is set to true, PDF pages which contains text will not be OCR processed	optional (default value: false)
RenderResolution	bool	PDF rendering resolution, valid values are between: 50 - 300.	optional (default value: 200)
DetectBarcodes	bool	If this value is set to true, barcodes will be recognized, and the result will be stored in the Barcodes member.	optional (default value: false)
BarcodeFilter	integer	Only the specified barcodes will be recognized. See also the Barcode Filter section.	optional (default value: 0)
BarcodeDirection	integer	1: horizontal, 2: vertical, 3: horizontal + vertical.	optional (default value: 3)
Barcodes	Barcodes[]	An array of recognized barcodes	read-only
DeleteBlankPages	bool	If this value is set to true, blank pages will be removed from the result document.	optional (default value: false)
BlankPagesMaxNoise	float	Valid values are between 0.01-100. The value indicates the percentage of max noise, below this value, the page is considered as blank	optional (default value: 0.5)
Digital Signature Settings			
SignatureProfile	string	If this value is set to a valid digital signature profile, the output PDF document will be digitally signed.	optional (default value: empty)
Thumbnail / Preview generation			
GeneratePreview	bool	If this value is set to true, a preview JPG image is also generated based on the first page of the result PDF document. To download the preview image, use the Download function and use the "prev" instead of the extension.	optional (default value: false)
PreviewWidth	integer	The width in pixels of the preview image.	optional

			(default value: 794 pixels)
PreviewHeight	integer	The height in pixels of the preview image.	optional (default value: 1123)
PreviewQ	integer	The JPEG quality of the preview image. Valid values are between 1 and 100.	optional (default value: 50)

Example JSON formatted OCR Job:

```
{
    "Status": 3,
    "Id": 114,
    "TemplateId": 0,
    "Guid": "96ebb3f4-48d7-4580-9c02-dfe4d430a2c6",
    "Created": "2021-01-06T23:10:57.2084778+02:00",
    "Modified": "2021-01-06T23:11:39.4168766+02:00",
    "Finished": "2021-01-06T23:11:39.4168766+02:00",
    "Scheduled": "2021-01-06T23:11:34.6997969+02:00",
    "Started": "2021-01-06T23:11:35.8967254+02:00",
    "NumberOfPages": 1,
    "IsTemplate": false,
    "UserName": "",
    "Descr": "",
    "ErrorDescription": "",
    "FileUploaded": true,
    "CorrelationId": "",
    "Autostart": true,
    "RetentionDays": 1,
    "PdfOutput": true,
    "TxtOutput": false,
    "DocxOutput": false,
    "XmlOutput": false,
    "RtfOutput": false,
    "OdtOutput": false,
    "MhtOutput": false,
    "EpubOutput": false,
    "PdfConformance": 0,
    "PdfTitle": "",
    "PdfSubject": "",
    "PdfAuthor": "",
    "PdfKeywords": "",
    "BWCompression": 0,
    "ColorCompression": 1,
    "Deskew": false,
    "DeskewAdjustPaperSize": false,
    "AutoOrientation": false,
    "ClearBorder": false,
    "DeleteBorder": false,
    "Despeckle": false,
    "RemoveColorNoise": false,
    "RemoveHalftone": false,
```

```json
    "RemoveHolePunch": false,
    "Binarize": false,
    "ImproveText": false,
    "RecognitionLanguages": "English",
    "MinConfidence": 60,
    "NrOfOCRThreads": 2,
    "FastMode": false,
    "RemoveWhiteSpaceRegions": true,
    "IntelligentPDFProcessing": false,
    "RenderResolution": 200,
    "RenderQuality": 60,
    "DetectBarcodes": true,
    "Barcodes": [
        {
            "PageNo": 1,
            "Value": "1234567890128",
            "Type": 5,
            "X": 366,
            "Y": 1921,
            "Width": 572,
            "Height": 264
        }
    ],
    "BarcodeFilter": 16,
    "BarcodeDirection": 1,
    "DeleteBlankPages": false,
    "BlankPagesMaxNoise": 0.5,
    "SignatureProfile": "",
    "GeneratePreview": false,
    "PreviewWidth": 794,
    "PreviewHeight": 1123,
    "PreviewQ": 50
}
```

OCR Job Status

Status	Description
0: created	The job is created or canceled. It is possible to set job options, and upload file to the job. It is also possible to delete or cancel the job.
1: scheduled	The job is scheduled for processing. It is possible to cancel the job, options cannot be set, files cannot be uploaded.
2: converting	The job is processing, it is not possible to cancel, delete, or set options of the job.
3: converted	The job is converted. It is possible to download the result file(s) and delete the job.
4: error	OCR processing failed, the ErrorDescription field will contain information about the error. The job can be deleted
The status of the job can be retrieved by calling the **status** action.	

Barcodes object

Member	Description
PageNo	Integer value which indicates the page number where the barcode was detected.
Value	The barcode value (string)
Type	The type of the barcode. - EAN8 = 1 - UPCE = 2 - ISBN10 = 3 - UPCA = 4 - EAN13 = 5 - ISBN13 = 6 - Interleaved2of5 = 7 - CODE39 = 8 - QRCODE = 9 - CODE128 = 10
X, Y, Width, Height	The bounding rectangle of the recognized barcode.

Barcode Filter

Value	Description
0x00	All barcodes will be recognized.
0x01	Only EAN8 barcodes will be recognized.
0x02	Only UPCE barcodes will be recognized.
0x04	Only ISBN10 barcodes will be recognized.
0x08	Only UPCA barcodes will be recognized.
0x10	Only EAN13 barcodes will be recognized.
0x20	Only ISBN13 barcodes will be recognized.
0x40	Only INTERLEAVED2OF5 barcodes will be recognized.
0x80	Only CODE39 barcodes will be recognized.
0x100	Only QRCODE barcodes will be recognized.
0x200	Only CODE128 barcodes will be recognized.

create action

Creates a new OCR job on the server.

Information	Description
Request URL	baseurl/create
Example	https://api.ownocr.com/ocrjobs/create
Method	POST
Request body	Optionally, the request body can contain a JSON formatted OCR job:

	Example:
	
	``
	{
	    "Descr" : "Hello ownOCR Server! This is my first OCR job",
	    "Autostart" : false,
	    "PdfOutput" : true,
	    "TxtOutput" : true
	}
	``
	
	Other properties can also be set. See also the *OCR Job Properties section.*

HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	If successful, the return value is a JSON formatted job object, otherwise the description of the error (ApiResult object).

createfromtemplate action

Creates a new OCR job on the server, based on a predefined job template.

Information	Description
Request URL	baseurl/createfromtemplate/<id>
Example	https://api.ownocr.com/ocrjobs/createfromtemplate/12
<id>	The identifier of the template job.
Method	POST
<id>	The identifier of the template job.
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 404: not found • 500: internal server error, an error message is also returned
Return value	If successful, the return value is a JSON formatted job object, otherwise the description of the error (ApiResult).

setoptions action

Sets the job options.

Information	Description
Request URL	baseurl/setoptions/<id>
Example	https://api.ownocr.com/ocrjobs/setoptions/77
<id>	The identifier of the job.

Method	POST

Request body	The body should contain a JSON formatted OCR job:
	
	Example:
	{
	    "Descr" : "Hello ownOCR Server! I will set some options.",
	    "Autostart" : false,
	    "PdfOutput" : true,
	    "TxtOutput" : true
	}
	
	Other properties can also be set.

HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 404: not found • 500: internal server error, an error message is also returned
Return value	If successful, the return value is a JSON formatted job object, otherwise the description of the error (ApiResult).

upload action

Uploads a file to the OCR job.

Information	Description
Request URL	baseurl/upload/<id>
Example	https://api.ownocr.com/ocrjobs/upload/77
<id>	The identifier of the job.
Method	POST
Request body	The body should contain a file, the content type should be set, otherwise it is not possible to determine the file type.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 404: not found • 415: unsupported media type • 500: internal server error, an error message is also returned
Return value	if successful, the return value is a JSON formatted job object, otherwise the description of the error (ApiResult).

uploadext action

Uploads a file to the OCR job.

Information	Description
Request URL	baseurl/uploadext/<id>/<ext>

Example	https://api.ownocr.com/ocrjobs/uploadext/77/bmp
<id>	The identifier of the job.
<ext>	The file extension (can be TIF, TIFF, JPG, JPEG, BMP, PNG, GIF, HEIF, HEIC, PDF, DOC, DOCX, XLS, XLSX, RTF, TXT, ODT, PPTX, EML, MSG).
Method	POST
Request body	The body should contain a file.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 404: not found 415: unsupported media type 500: internal server error, an error message is also returned
Return value	If successful, the return value is a JSON formatted job object, otherwise the description of the error (ApiResult).

schedule action

Schedules a job for processing. The action should be called only if the job was created with Autostart = false, otherwise the job is automatically scheduled after a file was uploaded.

Information	Description
Request URL	baseurl/schedule/<id>
Example	https://api.ownocr.com/ocrjobs/schedule/77
<id>	The identifier of the job.
Method	POST
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 404: not found 500: internal server error, an error message is also returned
Return value	If successful, the return value is a JSON formatted job object, otherwise the description of the error (ApiResult).

status action

Retrieves the status of the job.

Information	Description
Request URL	baseurl/status/<id>
Example	https://api.ownocr.com/ocrjobs/status/77
<id>	The identifier of the job.

Method	GET
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 404: not found 500: internal server error, an error message is also returned
Return value	If successful, an integer value which represents the status of the job, otherwise the description of the error (ApiResult).

download action

Downloads the result file.

Information	Description
Request URL	baseurl/download/<id>/<ext>
Example	https://api.ownocr.com/ocrjobs/download/77/pdf
<id>	The identifier of the job.
<ext>	The result file extension. Depending of the job configuration, possible values are: pdf, txt, docx, epub, odt, rtf, mht, xml. To download the generated preview (if configured), use the prev value.
Method	GET
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 404: not found 500: internal server error, an error message is also returned
Return value	If successful, the content of the result file, otherwise the description of the error (ApiResult).

info action

Retrieves the job from the server.

Information	Description
Request URL	baseurl/info/<id>
Example	https://api.ownocr.com/ocrjobs/info/77
<id>	The identifier of the job.
Method	GET
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned

- 401: unauthorized
- 404: not found
- 500: internal server error, an error message is also returned

Return value	If successful, the return value is the JSON formatted job object, otherwise the description of the error (ApiResult).

cancel action

Cancels an OCR job. Canceling the job is only possible if the status is Created or Scheduled.

Information	Description
Request URL	baseurl/cancel/<id>
Example	https://api.ownocr.com/ocrjobs/cancel/77
<id>	The identifier of the job.
Method	POST
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 404: not found 500: internal server error, an error message is also returned
Return value	If successful, the return value is the JSON formatted job object, otherwise the description of the error (ApiResult).

delete action

Deletes an OCR job. Deleting an OCR job is only possible when the status is different than Scheduled and Converting.

Information	Description
Request URL	baseurl/delete/<id>
Example	https://api.ownocr.com/ocrjobs/delete/77
<id>	The identifier of the job.
Method	DELETE
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 404: not found 500: internal server error, an error message is also returned
Return value	If successful, the return value is the JSON formatted job object, otherwise the description of the error (ApiResult).

query action

Queries jobs on the server.

Information	Description
Request URL	baseurl/query
Example	https://api.ownocr.com/ocrjobs/query
Method	POST
Request body	JobQuery
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 404: not found 500: internal server error, an error message is also returned
Return value	If successful, the return value is the JSON formatted array of job objects, otherwise error (ApiResult).

JobQuery structure

Member name	Data Type	Description	
IdList	integer array	The unique identifier of the job	optional
StatusList	integer array	The status of the job. Possible values: 0: created 1: scheduled 2: converting 3: converted 4: error	optional
CreatedFrom	date/time	Creation date of the job	optional
CreatedTo	date/time	Modification date of the job	optional
UserName	string	User name	optional
IsTemplate	bool	If true, only templates will be returned	optional

Notes:

If the CreatedFrom is specified, all jobs created after this date will be returned. If CreatedTo is specified, all jobs created before this date will be returned. If both values are specified, only jobs created between CreatedFrom and CreatedTo are returned.

Example of JSON formatted JobQuery structure:

```
{
    "IdList" : [],
    "StatusList" : [0, 1, 2, 3],
    "UserName" : "demo",
    "GuidList": ["e733c7ce-298e-4c48-94d8-de5b8ea740b2"],
    "CorrelationIdList" : ["12345678"],
    "IsTemplate" : false,
    "CreatedFrom" : "2020-10-21T00:00:00.00000+03:00"
}
```

All members are optional. If no query structure is specified, all jobs are returned.

createtemplate action

Creates an OCR job template. A template job cannot be scheduled or canceled, its status is always Created. It is also not possible to upload a file to the job, or download a result file of the job.

Information	Description
Request URL	baseurl/createtemplate
Example	https://api.ownocr.com/ocrjobs/createtemplate
Method	POST
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	If successful, the return value is the JSON formatted job object, otherwise the description of the error (ApiResult).

templates action

Retrieves all template jobs from the server

Information	Description
Request URL	baseurl/templates
Example	https://api.ownocr.com/ocrjobs/templates
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	If successful, the return value is an array of JSON formatted job objects, otherwise the description of the error (ApiResult).

count action

Returns the total number of jobs on the server.

Information	Description
Request URL	baseurl/count
Example	https://api.ownocr.com/ocrjobs/count
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned

	• 401: unauthorized • 500: internal server error, an error message is also returned
Return value	Integer value representing the number of total jobs on the server, otherwise the description of the error (ApiResult).

runningcount action

Returns the total number of running (status = Converting) jobs on the server.

Information	Description
Request URL	baseurl/runningcount
Example	https://api.ownocr.com/ocrjobs/runningcount
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	Integer value representing the number of total running jobs on the server, otherwise the description of the error (ApiResult).

all action

Retrieves all jobs from the server.

Information	Description
Request URL	baseurl/all
Example	https://api.ownocr.com/ocrjobs/all
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	If successful, the return value is an array of JSON formatted job objects, otherwise the description of the error (ApiResult).

allbystatus action

Retrieves all jobs with a given status from the server.

Information	Description
Request URL	baseurl/allbystatus/<id>
Example	https://api.ownocr.com/ocrjobs/allbystatus/1
<id>	The job status. Possible values are: 0 - created, 1 - scheduled, 2 - converting, 3 - converted, 4 - error.
Method	GET
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 500: internal server error, an error message is also returned
Return value	If successful, the return value is an array of JSON formatted job objects, otherwise the description of the error (ApiResult).

folders action

Retrieves the list of OCR Folder definitions.

Information	Description
Request URL	baseurl/folders
Example	https://api.ownocr.com/ocrjobs/folders
Method	GET
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 500: internal server error, an error message is also returned
Return value	If successful, the return value is an array of JSON formatted OCR folder objects, otherwise the description of the error (ApiResult).

postfolder and **postfolderu** action

Posts a file to an OCR folder.

Information	Description
Request URL	baseurl/postfolder/<id>
Example	https://api.ownocr.com/ocrjobs/postfolder/dbd6a047-919e-49eb-8850-76aa97213f26
<id>	The unique identifier of the OCR Folder.
Method	POST
Request body	The content of the file which should be posted. The Content-Disposition filename and Content-Type is required. If the file already exists, the **postfolder** will overwrite the file, while the **postfolderu** will try to create an unique filename.
HTTP Status Code	200: OK

	• 400: bad request, an error message is also returned • 401: unauthorized • 404: not found • 415: unsupported media type • 500: internal server error, an error message is also returned
Return value	The filename, if successful, otherwise the description of the error (ApiResult).

folder action

Retrieves information about an OCR folder.

Information	Description
Request URL	baseurl/folder/<id>
Example	https://api.ownocr.com/ocrjobs/folder/dbd6a047-919e-49eb-8850-76aa97213f26
<id>	The unique identifier of the OCR Folder.
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 404: not found • 500: internal server error, an error message is also returned
Return value	A JSON formatted folder object, otherwise the description of the error (ApiResult).

OCR Folder Properties

Member name	Data Type	Description	
Id	guid	The unique identifier of the job	read only
Description	string	The description (name) of the OCR Folder Definition	read only
ProcessingFiles	int	The number of processing files in the OCR Folder	read only
ProcessedFiles	int	The number of already processed files of the OCR Folder	read only
SuccessFiles	int	The number of successfully processed files	read only
ErrorFiles	int	The number of failed files	read only
Filters	string	Configured extensions for processing (semicolon separated)	read only
InputFolder	string	The fully qualified path of the input folder. This property can be set only when registering a new OCR Folder definition using the **addupdatefolder**	

		action. When updating a folder and the Id parameter isn't empty, this parameter - even is set - does not change the input folder	
MonitorSubfolders	bool	A boolean value indicating whether the subfolders of the InputFolder should be monitored	optional (default value: true)
ReadFilesInterval	int	An integer value indicating the time interval in seconds when the application should check for new or changed files in the InputFolder.	optional (default value: 3)
DelayProcessingFiles	int	An integer value indicating the minimum time (in seconds) the application should start the processing after a new file is copied or changed.	optional (default value: 1)
OutputFolder	string	The fully qualified path of the output folder	optional
OutputSubfolderTemplate	string	A variable based string value of the subfolder in the OutputFolder. See also the ownOCR Server Configuration application.	optional
OutputFileNameTemplate	string	A variable based string value of the output filename. See also the ownOCR Server Configuration application	optional (default value: %originalfilename%)
OutputFileOverwrite	bool	A boolean value indicating whether the application should overwrite the output file	optional (default value: false)
OutputFolderEnabled	bool	A boolean value indicating whether the application should copy the processed files to a different folder specified by the OutputFolder property.	optional (default value: false)
ArchiveFolder	string	The fully qualified path of the archive folder	optional
ArchiveFolderEnabled	bool	A boolean value indicating whether the application should copy the original file to an archive folder specified by the ArchiveFolder property.	optional (default value: false)
ErrorFolder	string	The fully qualified path of the error folder.	optional
ErrorFolderEnabled	bool	A boolean value indicating whether the application should copy failed files to a different folder specified by the ErrorFolderProperty.	optional (default value: false)
DeleteProcessedFiles	bool	A boolean value indicating whether the application should delete the processed files from the input folder.	optional (default value: false)
Settings	OcrJob	This property is an instance of an OcrJob object. For more information see the OcrJob section of this document. Some of members are not used / not available when using this object with folders. See also the sample below.	optional
FormsProcessingEnabled	bool	A boolean value indicating whether forms processing is enabled.	optional (default value: false)
FormsProcessingTemplates	string[]	An array of forms processing templates which should be used.	optional
CustomCommandEnabled	bool	A boolean value indicating whether the application should execute the configured custom command.	optional

Example of JSON formatted OCR Folder object:

```json
{
    "Description": "Scanned documents to PDF/A-1b", //
    "Id": "bc4ed0ad-ce3e-4aea-a62a-e93353b2c172", // used to identify a folder when updating folder
                                                  // definitions
    "ProcessingFiles": 0, // read-only
    "ProcessedFiles": 3, // read-only
    "SuccessFiles": 3, // read-only
    "ErrorFiles": 0, // read-only
    "Filters": "TIF;TIFF;JPG;JPEG;PNG;BMP;GIF;PDF;HEIC;HEIF;DOC;DOCX;ODT;RTF;TXT;XLS;XLSX;PPTX;MSG;EML",
    "InputFolder": "F:\\TestFiles\\OCRServerTest\\Input 1", // can be set only when adding a new folder
    "MonitorSubfolders": true,
    "ReadFilesInterval": 3,
    "DelayProcessingFiles": 1,
    "OutputFolder": "F:\\TestFiles\\OCRServerTest\\Output 1",
    "OutputSubfolderTemplate": "",
    "OutputFileNameTemplate": "%originalfilename%",
    "OutputFileOverwrite": false,
    "OutputFolderEnabled": false,
    "ArchiveFolder": "",
    "ArchiveFolderEnabled": false,
    "ErrorFolder": "",
    "ErrorFolderEnabled": false,
    "DeleteProcessedFiles": true,
    "Settings": {
        "Status": 0, // not used
        "Id": 0, // not used
        "TemplateId": 0, // not used
        "Guid": null, // not used
        "Created": "2023-03-14T22:59:57.8513656+02:00", // not used
        "Modified": "2023-03-14T22:59:57.8513656+02:00", // not used
        "Finished": "2023-03-14T22:59:57.8513656+02:00", // not used
        "Scheduled": "2023-03-14T22:59:57.8513656+02:00", // not used
        "Started": "2023-03-14T22:59:57.8513656+02:00", // not used
        "NumberOfPages": 0, // not used
        "IsTemplate": false, // not used
        "UserName": "", // not used
        "Descr": null, // not used
        "ErrorDescription": null, // not used
        "FileUploaded": false, // not used
        "CorrelationId": null, // not used
        "Autostart": null, // not used
        "RetentionDays": null, // not used
        "PdfOutput": true,
        "TxtOutput": false,
        "DocxOutput": false,
        "XmlOutput": false,
        "RtfOutput": false,
        "OdtOutput": false,
```

```json
      "MhtOutput": false,
      "EpubOutput": false,
      "PdfConformance": 1, // see also the OcrJob object
      "PdfTitle": null,
      "PdfSubject": null,
      "PdfAuthor": null,
      "PdfKeywords": null,
      "BWCompression": 0,
      "ColorCompression": 1,
      "Deskew": true,
      "DeskewAdjustPaperSize": true,
      "AutoOrientation": true,
      "ClearBorder": true,
      "DeleteBorder": false,
      "Despeckle": false,
      "RemoveColorNoise": true,
      "RemoveHalftone": false,
      "RemoveHolePunch": true,
      "Binarize": false,
      "ImproveText": true,
      "RecognitionLanguages": "English",
      "MinConfidence": 60,
      "NrOfOCRThreads": 4,
      "FastMode": false,
      "RemoveWhiteSpaceRegions": true,
      "IntelligentPDFProcessing": false,
      "RenderResolution": 200,
      "RenderQuality": 60,
      "DetectBarcodes": false,
      "Barcodes": null, // not used
      "BarcodeFilter": 0,
      "BarcodeDirection": 3,
      "DeleteBlankPages": true,
      "BlankPagesMaxNoise": 0.5,
      "SignatureProfile": "",
      "SignatureVisibility": null, // not used
      "SignaturePageNo": null, // not used
      "SignaturePlace": null, // not used
      "SignatureOffsetX": null, // not used
      "SignatureOffsetY": null, // not used
      "SignatureDrawArtAllPages": null, // not used
      "GeneratePreview": false,
      "PreviewWidth": 794,
      "PreviewHeight": 1123,
      "PreviewQ": 50
   },
   "FormsProcessingEnabled": false,
   "FormsProcessingTemplates": null,
   "CustomCommandEnabled": false
}
```

addupdatefolder action

Adds or updates an OCR Folder definition. If authorization is not enabled, all folders (input, output, archive, and error) should exists in the file system on the server. If authorization is enabled, the application tries to create these folders in the file system. The user should have *Create OCR Folder Definitions* right enabled.

Information	Description
Request URL	baseurl/addupdatefolder
Example	https://api.ownocr.com/ocrjobs/addupdatefolder
Method	POST
Request body	A JSON formatted OCR folder
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 500: internal server error, an error message is also returned
Return value	JSON formatted OCR folder or Error (ApiResult object)

removefolder action

Removes an OCR Folder definition. Folders from the file system are not removed. If authorization enabled, the user should have *Remove OCR Folder Definitions* right enabled.

Information	Description
Request URL	baseurl/removefolder
Example	https://api.ownocr.com/ocrjobs/removefolder
Method	POST
Request body	A JSON formatted OCR folder
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 500: internal server error, an error message is also returned
Return value	true if successful, or a JSON formatted ApiResult object.

languages action

Retrieves the list of supported recognition languages.

Information	Description
Request URL	baseurl/languages
Example	https://api.ownocr.com/ocrjobs/languages
Method	GET

Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	A JSON formatted string array of the recognition languages, otherwise the description of the error (ApiResult).

version action

Retrieves the version of the server.

Information	Description
Request URL	baseurl/version
Example	https://api.ownocr.com/ocrjobs/version
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	A string value which represents the version, otherwise the description of the error (ApiResult).

test action

Test the connection to the server.

Information	Description
Request URL	baseurl/test
Example	https://api.ownocr.com/ocrjobs/test
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	true if test was successful, otherwise the description of the error (ApiResult).

name action

Retrieves the name of the server. The name of the server can be configured in the main screen of the ownOCR Server Configuration application.

Information	Description
Request URL	baseurl/name
Example	https://api.ownocr.com/ocrjobs/name
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	A string value which represents the configured name of the server, otherwise the description of the error (ApiResult).

nameversion action

Retrieves the name and the version of the server.

Information	Description
Request URL	baseurl/nameversion
Example	https://api.ownocr.com/ocrjobs/nameversion
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	A string value which represents the configured name and the version of the server, otherwise the description of the error (ApiResult).

stats action

Retrieves statistics of the server.

Information	Description
Request URL	baseurl/stats
Example	https://api.ownocr.com/ocrjobs/stats
Method	GET

Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 500: internal server error, an error message is also returned
Return value	A JSON formatted statistics object, otherwise the description of the error (ApiResult).

A JSON formatted statistics object looks like:
```
{
    "ProcessingFiles": 0,
    "ProcessedFiles": 33,
    "SuccessFiles": 31,
    "ErrorFiles": 2
}
```

serverload action

Retrieves statistics of the server.

Information	Description
Request URL	baseurl/serverload
Example	https://api.ownocr.com/ocrjobs/serverload
Method	GET
Request body	None.
HTTP Status Code	200: OK 400: bad request, an error message is also returned 401: unauthorized 500: internal server error, an error message is also returned
Return value	A JSON formatted ServerLoad object, otherwise the description of the error (ApiResult).

A JSON formatted ServerLoad object looks like:
```
{
    "Name": "DEMO Server",
    "Version": "v1.1.0",
    "OverallFilesInProcessing": 0,
    "JobsInProcessing": 0,
    "FilesInProcessing": 0,
    "ScheduledJobs": 0,
    "ScheduledFiles": 0,
    "FoldersThreads": 3,
    "JobsThreads": 3,
    "LoadPercent": 0,
    "RealLoadPercent": 0,
    "JobsLoadPercent": 0,
    "JobsRealLoadPercent": 0,
    "FoldersLoadPercent": 0,
    "FoldersRealLoadPercent": 0
```

}

guid action

Retrieves the GUID of the server. Each installation has a GUID which is saved in the C:\ForIT Solutions\ownOCR Server\server.guid file.

Information	Description
Request URL	baseurl/guid
Example	https://api.ownocr.com/ocrjobs/guid
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	The string value which represents the GUID of the server, otherwise the description of the error (ApiResult).

supportedexts action

Retrieves the list of supported extension for OCR.

Information	Description
Request URL	baseurl/supportedexts
Example	https://api.ownocr.com/ocrjobs/supportedexts
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	A string array of supported extensions, otherwise the description of the error (ApiResult).

signatureprofiles action

Retrieves the list of configured digital signature profiles.

Information	Description
Request URL	baseurl/signatureprofiles
Example	https://api.ownocr.com/ocrjobs/signatureprofiles

Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	A string array of configured digital signature profiles, otherwise the description of the error (ApiResult).

forms action

Retrieves the list of configured forms processing templates.

Information	Description
Request URL	baseurl/forms
Example	https://api.ownocr.com/ocrjobs/forms
Method	GET
Request body	None.
HTTP Status Code	• 200: OK • 400: bad request, an error message is also returned • 401: unauthorized • 500: internal server error, an error message is also returned
Return value	A string array of configured forms processing templates, otherwise the description of the error (ApiResult).

Office, text, and email to PDF and PDF/A conversion API limitations

The PDF and PDF/A conversion API only converts Office, text, and email messages to PDF or PDF/A. The following features are not supported when converting Office, text, and email messages to PDF or PDF/A:
- image processing (does not makes sense)
- OCR languages (does not makes sense)
- barcode recognition
- additional output formats, like (DOCX, TXT, EPUB, etc.)
- detecting and removing blank pages

Samples & Support

Visual Studio 2019 Solution (C#): https://www.ownocr.com/download/ownOCRServerSamples.zip
For additional samples & support, email us at your@ownocr.com .