

Tyler Intelligent Services OData Web Service v5 API

ENDPOINT: /OCRWeb/v5/

Version: 2023.2

The TIS web service is used for OCR processing and automated redaction of documents.

/ \$metadata

GET / \$metadata

Fetch the webservice's XML schema. Includes entity types, enum types, complex types, and actions, including the RedactionTarget enum whose values are used in calls to [CalculateRedactions](#) and for caller-assigned [OCRSource](#) Forms.

Parameters

None

Responses

Code	Description	Type	Schema
200	Fetches schema	XML	Data types and actions available
Error	Details in error	json	Error

/Documents

POST /Documents

Add new entity to Documents

Parameters

Name	Located In	Type
Document	body	Document

Responses

Code	Description	Type	Schema
201	Created entity	json	Document
Error	Details in error	json	Error

/Documents('{DocumentNumber}')

GET /Documents('{DocumentNumber}')

Get entity from Documents by key

Parameters

Name	Located In	Description	Required	Type
DocumentNumber	path	key	Yes	string

Responses

Code	Description	Type	Schema
200	Retrieved entity	json	Document
Error	Details in error	json	Error

/Documents('{DocumentNumber}')/OCRWeb.Scan

POST /Documents('{DocumentNumber}')/OCRWeb.Scan

Run OCR scanning over document content.

Parameters

Name	Located In	Description	Required	Type	Schema
DocumentNumber	path	key	Yes	string	
body	body	OCR Engine	No	json	OCREngine

Responses

Code	Description	Type	Schema
200	Success	json	ScanResponse
Error	Details in error	json	Error

/Documents('{DocumentNumber}')/OCRWeb.ScanAndRedact

POST /Documents('{DocumentNumber}')/OCRWeb.ScanAndRedact

This call is not currently supported in v5. Please use Scan, CalculateRedactions, and ApplyRedactions in that order to achieve the same effect.

/Documents('{DocumentNumber}')/OCRWeb.CalculateRedactions

POST /Documents('{DocumentNumber}')/OCRWeb.CalculateRedactions

Generate redaction data based on OCR results.

Parameters

Name	Located In	Description	Required	Type	Schema
DocumentNumber	path	key	Yes	string	
Body	body	Data types	Yes	json	RedactionTargets

Responses

Code	Description	Type
200	Success	boolean -- if the document's redactions were modified by this action
Error	Details in error	Error

Launching the TCM Viewer

The URL to launch a session of the TCM Viewer has the following structure:

{url}/viewer/index.html?query={encoded query parameter}

The query parameter must be base64 encoded and then URL encoded. It follows this structure:

TCMRedactionMode|TCMDELIM|{JWT}|TCMDELIM|{DocumentNumber}

The **JWT** (JSON Web Token) must be [requested separately](#). It is valid for 60 minutes, after which any unsaved changes will be lost and the viewer should be relaunched with a new token.

The **DocumentNumber** is caller-assigned during document creation (POST /Documents).

Launching the Redaction Viewer

The URL to launch a session of the Redaction Viewer has the following structure:

{base url}/redactionviewer/login?token={JWT}

The **base url** contains everything up to and including the port number within the URL, but does not contain any path information (e.g. **https://example.com:1234**).

The **JWT** (JSON Web Token) must be [requested separately](#). It is valid for 60 minutes, after which any unsaved changes will be lost and the viewer should be relaunched with a new token. If the user is

actively using the viewer, the token will be automatically refreshed, extending the 60 minute timeframe. The token must be requested with the Document Number (caller-assigned during document creation [POST /Documents]), as the redaction viewer will use the Document Number present within the token.

Tyler Web Service Security API

Endpoint: /Security/v1/

/GenerateJwt

POST /GenerateJwt

Fetch a JWT (JSON Web Token) to open the TCM viewer.

Fields

Name	Located In	Description	Required	Type	Schema
Body	body	Action parameters	Yes	json	GenerateJwtRequest

Responses

Code	Description	Type	Schema	Description
200	Success	string		JWT encoded as string
Error	Details in error	json	Error	

Asynchronous API calls

All asynchronous API calls related to a document should include the X-Async-Scope header, populated with the document number. This helps the service know when it can safely discard old async results.

Async call results are stored for up to five minutes, counting from the completion of the work and notifying the callback URL (if one was provided). It is strongly recommended that callers check for results no less often than every three minutes, to ensure that call results are not lost due to the timeout.

Results are also discarded if a new request with the same value in the X-Async-Scope header is received.

Once the results for an async call have been discarded, they cannot be recovered. A new request would need to be submitted.

In order to request a call be processed asynchronously, you can include the **Prefer: respond-async** header in the initial request. You may also include a **Prefer: wait=** header, providing the number of

seconds that you would like to wait before switching to asynchronous polling for the completion of the request following the equals sign. If the request returns 202, your request for asynchronous processing has been accepted, and the response header will include a **Location:** header, containing the polling URL you can use to check the status and results of the async call. Note: you may still receive a different response code, indicating that your request was still processed synchronously, which should be handled as a standard synchronous API call.

Making an authenticated GET request to the polling URL provided in the initial response will return either a 202 status code, indicating that your request is still being processed and that you can continue to poll for results, or the response of the asynchronous operation (such as a 200 status code, or a 4XX/5XX error code; as well as the response body, equivalent to a synchronous response). You should use the same polling URL for all future polling requests – a new polling URL will not be provided.

Asynchronous API calls are available for Scan, Calculate Redactions, and Apply Redactions API calls.

Definitions

Document

A document contains the data for a single file, which may have any number of pages. Please note that as a media stream, the Data property cannot be retrieved or set in conjunction with anything else, when using OData 4.0. In order to update this property, issue a PUT request to the media edit URL (see http://docs.oasis-open.org/odata/odata/v4.0/errata03/os/complete/part1-protocol/odata-v4.0-errata03-os-part1-protocol-complete.html#_Toc453752305) of the Data property with an appropriate Content-Type header and the binary data in the body. At this time only two document formats are supported: TIFF (image/tiff) and PDF (application/pdf). Conversely, to retrieve the current contents, issue a GET request to the same URL.

Fields

Field Name	Type	Read-Only	Nullable	Description
DocumentNumber	string	false	false	Uniquely identifies the document which contains this page (caller-assigned)
DocumentType	string	false	false	Must match a defined IDoc type
Data	string	true	true	Image data
Redacted Data	string	true	true	Image data after applying redactions
PDFOutputRequested	boolean	false	true	Uses tri-state logic: true/false force PDF/A output to be enabled or disabled, respectively; null will attempt to auto-detect and preserve the PDF/A status
MinorDOB	string collection	false	true	Contains known minor dates of birth. See http://docs.oasis-

				open.org/odata/odata/v4.0/errata03/os/complete/part1-protocol/odata-v4.0-errata03-os-part1-protocol-complete.html#_Toc453752306. Can be accessed with calls to /Documents('{DocumentNumber}')/MinorDOB.
IsDocumentPDFA	boolean	false	true	Indicates whether the document is a PDF/A (if known)
ApplyRedactionsWarnings	string collection	true	true	Contains any warning messages generated during ApplyRedactions calls
Redactions	Redaction collection	true	true	Contains any redactions generated by a CalculateRedactions call and not yet consumed by an ApplyRedactions call
Minor	HumanName Collection	false	true	Contains known minor names. See http://docs.oasis-open.org/odata/odata/v4.0/errata03/os/complete/part1-protocol/odata-v4.0-errata03-os-part1-protocol-complete.html#_Toc453752306. Can be accessed and updated with calls to /Documents('{DocumentNumber}')/Minor
MinorAddress	Address collection	false	true	Contains known minor addresses. See http://docs.oasis-open.org/odata/odata/v4.0/errata03/os/complete/part1-protocol/odata-v4.0-errata03-os-part1-protocol-complete.html#_Toc453752306. Can be accessed and updated with calls to /Documents('{DocumentNumber}')/MinorAddress
OcrData	string collection	true	true	Contains OCR data by page

Redaction

A Redaction contains the data for a single overlay redaction.

Fields

Name	Type	Nullable	Description
PageNumber	integer	false	Page number on which this redaction occurs
Region	Region	false	Coordinates and scale of the redaction
OCRSources	OCRSource collection	true	Set of OCR sources which triggered this redaction
User	string	false	ID of the user who created this redaction
Date	string	false	Time at which this redaction was created
AnnotationId	string	false	Unique identifier of the redaction

RedactionTargets

RedactionTargets is an object containing a list of string values representing the data types which should be targeted for redaction. Use the following format in the HTTP body of a CalculateRedaction request:

```
{ "RedactionTargets": [ "redactionTarget1", "redactionTarget2" ] }
```

To programmatically fetch a list of available targets, send a [GET to /\\$metadata](#). The valid redaction targets correspond to the names of the members of the enum type RedactionTarget, which may include the following:

- **AccountNumber**
- **CreditCard**
- **DriversLicense**
- **GovernmentId**
- **Passport**
- **SocialSecurityNumber**
- **TaxDocument**
- **MinorName**
- **MinorDOB**

OCREngine

OCREngine is an object containing a string with the desired OCR engine to use when performing OCR on a document. Use the following format in the body of a Scan request:

```
{ "OcrEngine": "GoogleVision" }
```

To programmatically fetch a list of available engines, send a [GET to /\\$metadata](#). The valid engines correspond to the names of the members of the enum type OcrEngine, which may include the following:

- **GoogleVision**
- **PremierOcr**

OCRSource

Fields

Name	Type	Nullable	Description
Form	string	false	The redaction target (OCR form or Named Entity Recognition model) that generated the redaction or which should be associated with it. The value MUST be a valid redaction target, smart form, or be "MetadataFields".
Field	string	false	OCR field which generated the associated redaction

Region

Fields

Name	Type	Nullable	Description
Base	Point	false	Upper-left corner of the redaction

Extent	Point	false	Lower-right corner of the redaction
CoordinateScale	CoordinateScale	false	DPI of the redaction

Point

Fields

Name	Type	Nullable	Description
type	string	false	Must be equal to the string "Point"
Coordinates	integer array	false	Must contain two values representing the x and y coordinates. May contain a .0 decimal, e.g. [40.0, 150.0]

CoordinateScale

Fields

Name	Type	Nullable	Description
X	integer	false	Horizontal DPI
Y	integer	false	Vertical DPI

HumanName

Fields

Name	Type	Nullable
FirstName	string	false
MiddleInitial	string	false
LastName	string	false
Suffix	string	false

Address

Fields

Name	Type	Nullable
Address1	string	true
Address2	string	true
City	string	true
State	string	true
Zip	string	true

Error

Fields

Name	Type	Description
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code	string	Machine-readable sub-status for the HTTP error code of the response
message	string	Human-readable, language-dependent error message
target	string	Target of the particular error, for example the name of the property in error
details	json	List of error details
innererror	json	The structure of this object is service-specific

ScanResponse

Fields

Name	Type	Description
OcrModified	boolean	If the document's OCR data was modified by this action
FailedPages	integer collection	Page indices that could not be OCR'd (1-based index)

GenerateJwtRequest

Fields

Name	Type	Schema	Description
Type	string		Must be the string literal "editRedactions"
Scope	json	GenerateJwtRequestScope	
AuditId	string		caller-specified for auditing purposes

GenerateJwtRequestScope

Fields

Name	Type	Description
DocumentNumber	string	Caller-assigned during Document creation

Release Notes

[2023.2](#)

No API changes

[2023.1](#)

Increased file size limit from 50MB to 512MB

[2022.4](#)

No API changes

[2022.3](#)

Initial release of OCRWeb v5