DOCUMENT STORAGE API - TECHNICAL INTRODUCTION

ARIS 10

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This document applies to ARIS Version 10 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1. Introduction

This document provides additional information for accessing an ARIS Document Storage via the ARIS REST API. It should be considered as a supplement to the official API documentation available on every running ARIS Server and ARIS Design Server under **https://<servername>/apidocs**.

2. General principles

- This API encapsulates all functionality related to document management.
- Every call to the API is atomic: either the operation succeeds or fails.
- Every call to the API requires a valid API cookie/token from ARIS User Management.
- Many calls have obligatory and/or optional URL parameters. All parameter values must be URL-encoded as they may contain special characters.
- If URL parameters are passed that are unknown or not the correct ones for the specific method or misspelled, then they are silently ignored. This may lead to an unexpected outcome of the requested operation.
- The result objects may contain method data, for example, typename. Method data is delivered in the language from the client's HTTP header ('accept-language'). Alternatively, you can pass an optional URL parameter **methodlanguage** in order to set the method language directly.
- This means that the sum of all result items from all paging requests cannot exceed the absolute result size limit (page 40).
- For write-requests, for example the creation of objects, the limit is 500 items per Request
- Date parameters must be provided and are returned in UTC in the RFC 3339 Internet format YYYY-MM-DD, and for timestamps in UTC in the RFC 3339 Internet Zulu time format is needed YYYY-MM-DD'T'HH:MM:SS'Z', for example, 2023-01-22T08:22:55Z.

3. Login/Logout

For all API calls, a valid token from ARIS User Management (also known as UMC) is required. The token must be obtained by calling a dedicated method from the UMC API. It is not allowed to use a standard UMC token obtained by logging in to the Connect portal. The token must be included in all subsequent API calls as URL parameter (umcsession) or added as cookie to the HTTP request.

3.1. Obtaining a UMC session token

The endpoint for obtaining the UMC token is:

POST

http(s)://servername:port /umc/api/v2/tokens

Required URL parameters are:

- tenant
- name
- password

Basic authentication is also supported (see remarks below).

Example 1.

POST

http:///umc/api/v2/tokens?tenant=default&name=system&password=manager

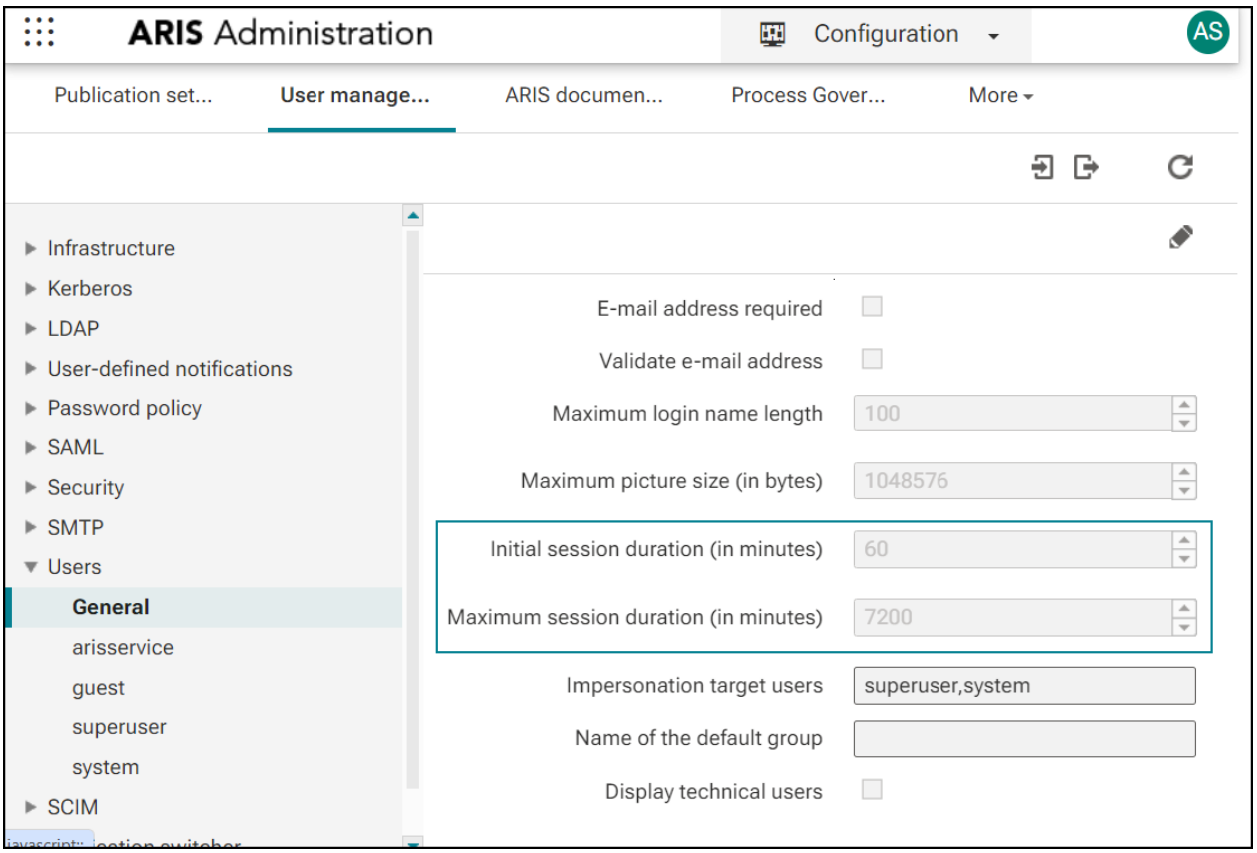
Response:

```
{
"csrfToken": "kZcIkOV2xrD3u3M5bKy9NvzY_TriwE1KmC6k6huUWxQ", "token" :
"eyJhbGciOiJIUzI1NisImp0aSI6FjY "
}
```

Remarks

- All URL parameters must be urlencoded if they contain special characters like umlauts, non-ASCII, etc.
- A successful invocation returns a UMC cookie in the HTTP session and in its JSON response body the UMC token as string. For subsequent API requests you can either provide the cookie and hand over the token as URL parameter umcsession (do not forget to urlencode the value).
- The JSON response also contains a CSRF-token. This CSRF-token must be passed as URL parameter csrfToken (urlencoded!) in subsequent requests if the REST API is called from a web browser environment (i.e. if the user-agent provided by the client indicates a browser like Chrome or Mozilla).
- As many subsequent API calls as desired can be carried out as long as the UMC maximum session duration limits are not exceeded. These limits can be viewed/edited in the User management of the ARIS Administration.

- When no more API requests will be sent for some time it is strongly recommended to explicitly "logout" again in order to release the consumed ARIS license (see next chapter: Releasing a UMC session token [7].



- It is also possible to obtain the token with preemptive basic authentication. In this case, user name and password are not specified as parameters. Instead, the HTTP header must contain the **entry Authorization: Basic xyz**, where **xyz** is the BASE64 representation of the string **name:password**.

3.2. Releasing a UMC session token

When the UMC session is no longer required, it should be explicitly invalidated, thus releasing the consumed ARIS license. The endpoint to use is:

DELETE http://<servername:port>/umc/api/tokens/eyJhbGciOiJIUzI1NisImp0aSI6FjY

Example 2.

DELETE

http://<servername:port>/umc/api/tokens/eyJhbGciOiJIUzI1NisImp0aSI6FjY

4. Document creation and retrieval

Following API's using document creation and retrieval.

4.1. Link document to ARIS model or object

POST

/documents/{id}/relations

Parameter

- id: //Document ID
- relationid*: //Telation ID
- type: //Relationship type

This API call link document to ARIS model or object.

Document ID and relation ID is required.

Example 3.

Request

http://<servername:port>/documents/api/documents/1a86caca-32ab-4945-bc26-e8eb86900b3b/relations?relationid=bf2a9d60-7cb8-11dc-2729-000bcd0cce4e

Response

204 No Content

4.2. Create a new document

POST

/documents

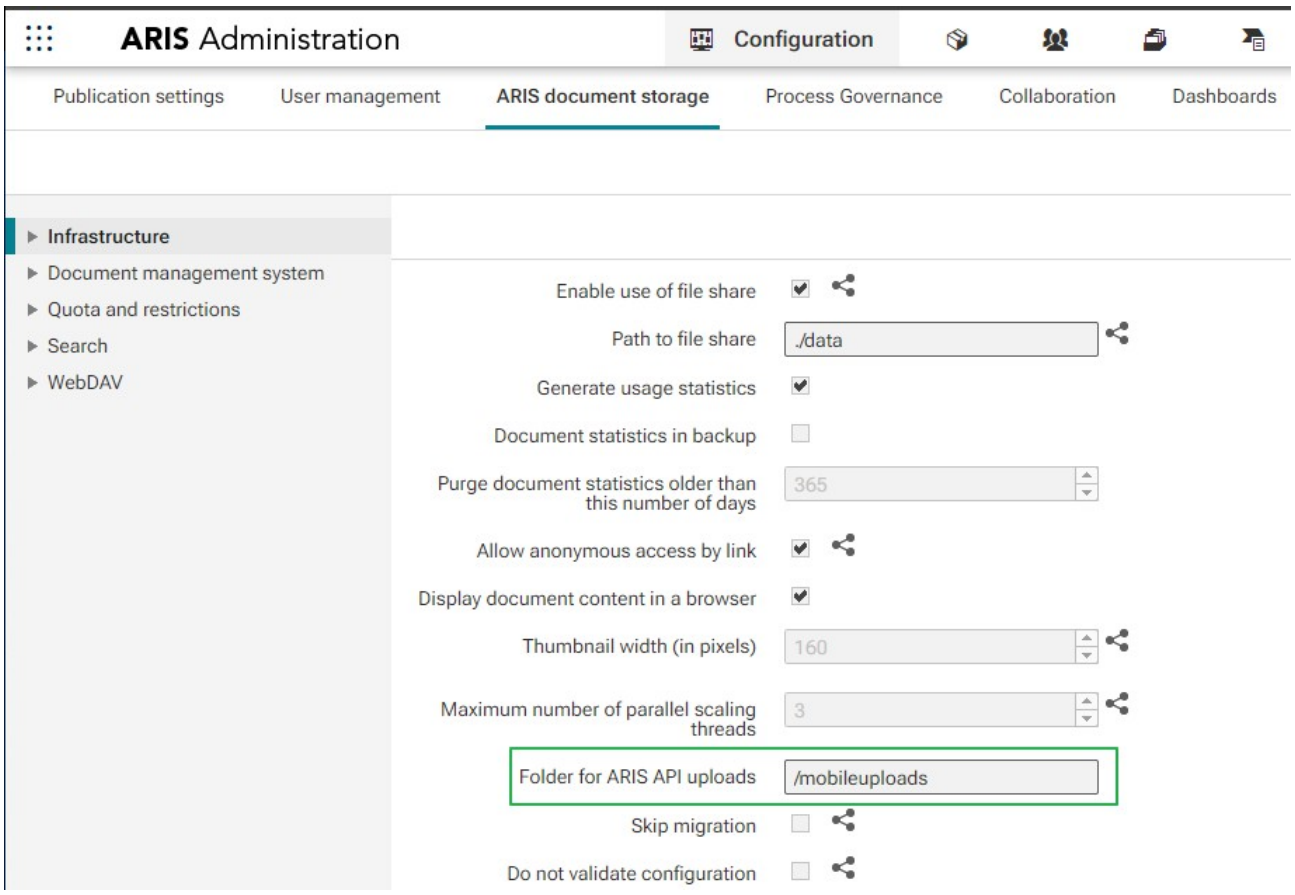
Parameter

- Filename: // File name of the document
- Title: // Title of the document
- Description: // Description of the document
- file *: // Chose the file from system

This API call creates a new document in ARIS document storage via file upload. The file size is limited to 100 MB per document.

Remarks

You need to a create folder(mobilsuploads) under root folder which configured in ADS.



Example 4.

Request

https://<servername>/documents/api/documents

Response

{"id": "e20c408e-e350-4ede-9916-81cc6cccb7d5",

"title": "testfile1","description": "test","status": "NEW","creator": {"_links": {"self": {"href": "https://myserver/umc/api/users/system"}}},

"contentType": "application/octet-stream","_links": {"self": {"href": "https://myserver/documents/api/documents/e20c408e-e350-4ede-9916-81cc6cccb7d5"},

"content": {"href": "https:// myserver/documents/api/documents/e20c408e-e350-4ede-9916-81cc6cccb7d5/content"},"attributeLink": {"href": "https://myserver/documents/rest/v2/data/0/0/-/e20c408e-e350-4ede-9916-81cc6cccb7d5?revision=-1"}}}

4.3. Retrieve document by id

GET

/documents/{id}

Parameter

id *: // Document ID

This API call retrieves a document by ID. The Document ID is required.

Example 5.

Request

https://<servername>/documents/api/documents/<document_id>

Response

{

"id": "1a86caca-32ab-4945-bc26-e8eb86900b3b",

"status": "NEW",

"creator": {

"_links": {

"self": {

"href": "https://<servername>/umc/api/users/system"

}

}

},

"owner": {

"_links": {

"self": {

"href": "https://<servername>/umc/api/users/system"

}

}

},

"contentType": "image/jpeg", "_links": {

"self": {

"href": "https://<servername>/documents/api/documents/1a86caca-32ab-4945-bc26-e8eb86900b3b"

},

"content": {

"href": "https://<servername>/documents/api/documents/1a86caca-32ab-4945-bc26-e8eb86900b3b/content"

},

"attributeLink": {

"href": "https://<servername>/documents/rest/v2/data/0/0/1a86caca-32ab-4945-bc26-e8eb86900b3b?revision=-1"

}

}

}

4.4. Retrieve documents linked to ARIS model or object

GET

/documents/search

Parameter

- elationid: //Relation ID
- offset: // Offset of the first result to fetch
- limit: // The maximum number of hits is limited to 500.

This API call retrieves documents linked to an ARIS model or object. The relation ID is required.

Example 6.

Request

https://<servername>/documents/api/documents/search?Relation%20ID=<relationship_id>&offset=0&limit=500

Response

{

"first": "https://<servername>/documents/api/documents/search?relationid=&offset=0&limit=500",

"prev": "https://<servername>/documents/api/documents/search?relationid=&offset=0&limit=500",

"next": "https://<servername>/documents/api/documents/search?relationid=&offset=500&limit=500",

"_links": {

"self": {

"href": "https://<servername>/documents/api/documents/search?relationid=&offset=0&limit=500"

}

}

}

4.5. Retrieve document content by ID

GET

/documents/{id}/content

Parameter

id * // Document ID

This API call retrieves document content by ID. The document ID is required.

Example 7.

Request

https://<servername>/documents/api/documents/<document_id>/content

Response

Provide content of document.

4.6. Retrieve documents

POST

/documents/documentsearch

Parameter

- offset: // Offset of the first result to fetch
- limit: // The maximum number of hits is limited to 500.
- headRevisionOnly: // Return only head revision or all revision.
- searchString ***:** // Searching term

This API call retrieves documents from ARIS document storage. The search string is required.

Example 8.

Request

https://<servername>/documents/api/documents/documentsearch?
offset=0&limit=500&headRevisionOnly=true

Response

[

"https://maserver/documents/rest/v2/data/0/0/-/bc9fd2f3-91aa-4125-906d-06be7d16e4e5?revision=-1"

]

5. Support and legal information

This section provides you with some general information regarding product support and legal aspects.

5.1. Documentation scope

The information provided describes the settings and features as they were at the time of publishing. Since documentation and software are subject to different production cycles, the description of settings and features may differ from actual settings and features. Information about discrepancies is provided in the Release Notes that accompany the product. Please read the Release Notes and take the information into account when installing, setting up, and using the product.

If you want to install technical and/or business system functions without using the consulting services provided by SAG ARIS GmbH, you require extensive knowledge of the system to be installed, its intended purpose, the target systems, and their various dependencies. Due to the number of platforms and interdependent hardware and software configurations, we can describe only specific installations. It is not possible to document all settings and dependencies.

When you combine various technologies, please observe the manufacturers' instructions, particularly announcements concerning releases on their Internet pages. We cannot guarantee proper functioning and installation of approved third-party systems and do not support them. Always follow the instructions provided in the installation manuals of the relevant manufacturers. If you experience difficulties, please contact the relevant manufacturer.

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5.2. Support

Product support

We provide support for ARIS products to all customers with a valid support contract.

Information on product version availability and support, as well as sustained support dates, is available at ARIS Community.

Contact our Global Support services at ARIS Community to raise and update support incidents, or post ideas and feature requests.

Community

Register with ARIS Community to download products, updates and fixes, find expert information, and interact with other users.

Documentation

For information on how to use and activate products and for other technical support questions, visit the ARIS Documentation website.

If you want to give feedback on any documentation topic, write to documentation@aris.com.

5.3. Legal notices

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