

ARIS

DOCUMENT STORAGE API TECHNICAL INTRODUCTION

VERSION 10.0 - SERVICE RELEASE 27 AND HIGHER
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This document applies to ARIS Version 10.0 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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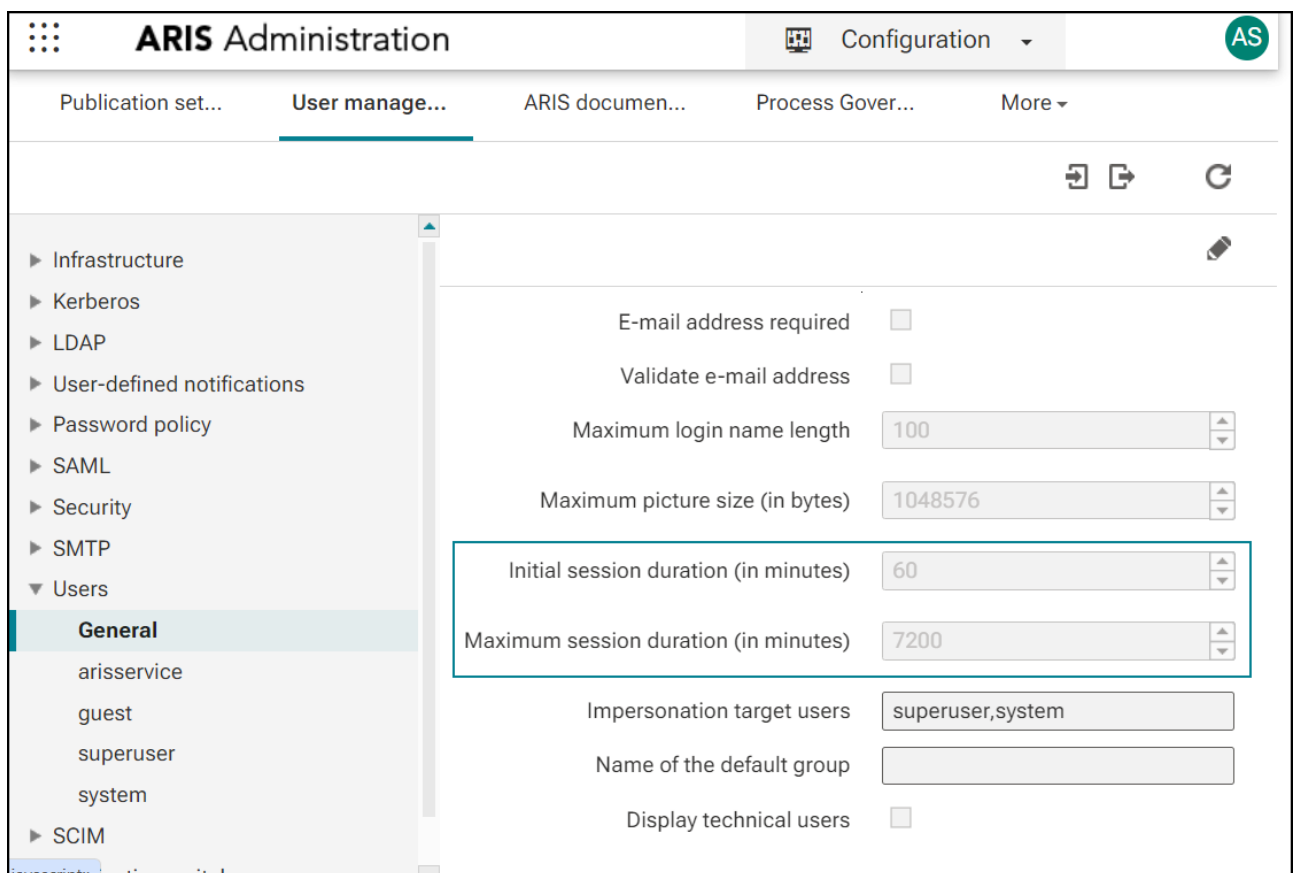
1 Introduction

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.

- 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 (page 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**.

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 * // Relation ID
- type // Relationship type

This API call link document to ARIS model or object

Document ID and Relation ID is required

EXAMPLE

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

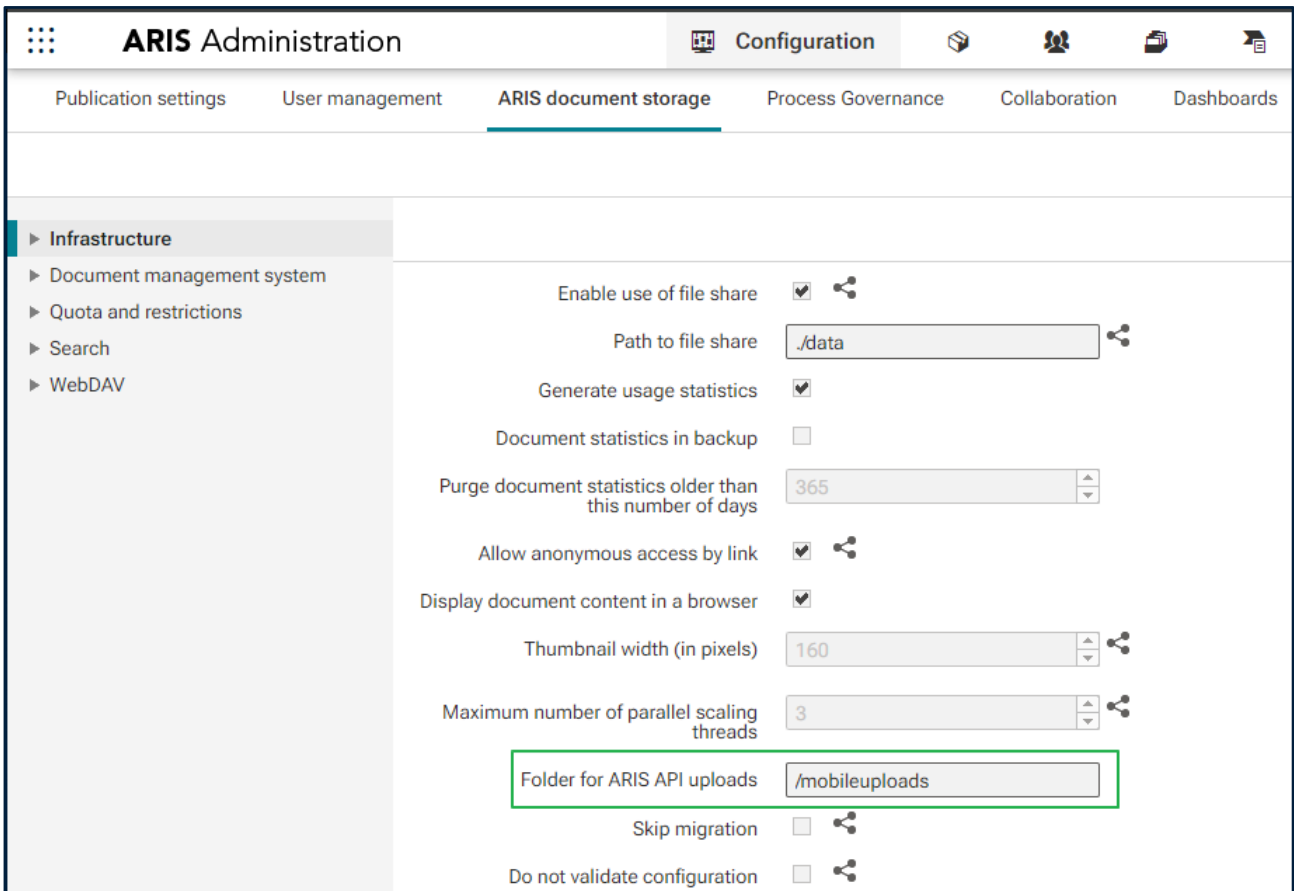
- filename // File name of the document
- title // Title of the document
- description // Description of the document
- file * // Chose the file from system

This API call create a new document in ARIS document storage

File to upload. The file size is limited to 100 MB per document.

Remarks

You need to create folder(mobileuploads) under root folder which configured in ADS



EXAMPLE

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 retrieve document by ID

Document ID is required

EXAMPLE

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

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

This API call retrieve documents linked to ARIS model or object.

Relation ID is required

EXAMPLE

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 retrieve document content by ID.

Document ID is required.

EXAMPLE

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 retrieve documents from ARIS document storage

Search string is required.

EXAMPLE

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 Legal information

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 Software 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.

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