USER MANAGEMENT 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 User Management 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://<Full Qualified Server Name or URL>/apidocs.

2. General principles

- This API encapsulates all functionality related to user management. Usage of ow can I delete the API is restricted by licenses. Please refer to the ARIS User Management API for more information on API usage and prerequisites.
- 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.
- For read-requests, there is an absolute result size limit. The limit is typically 100,000 for object items and 10,000 for all other items. like models or groups (different limits may be applicable depending on the user license or server settings).
- This means that the sum of all result items from all paging requests cannot exceed the absolute result size limit.
- 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

https://<servername>umc/api/v2/tokens?tenant=default&name=system&password=manager

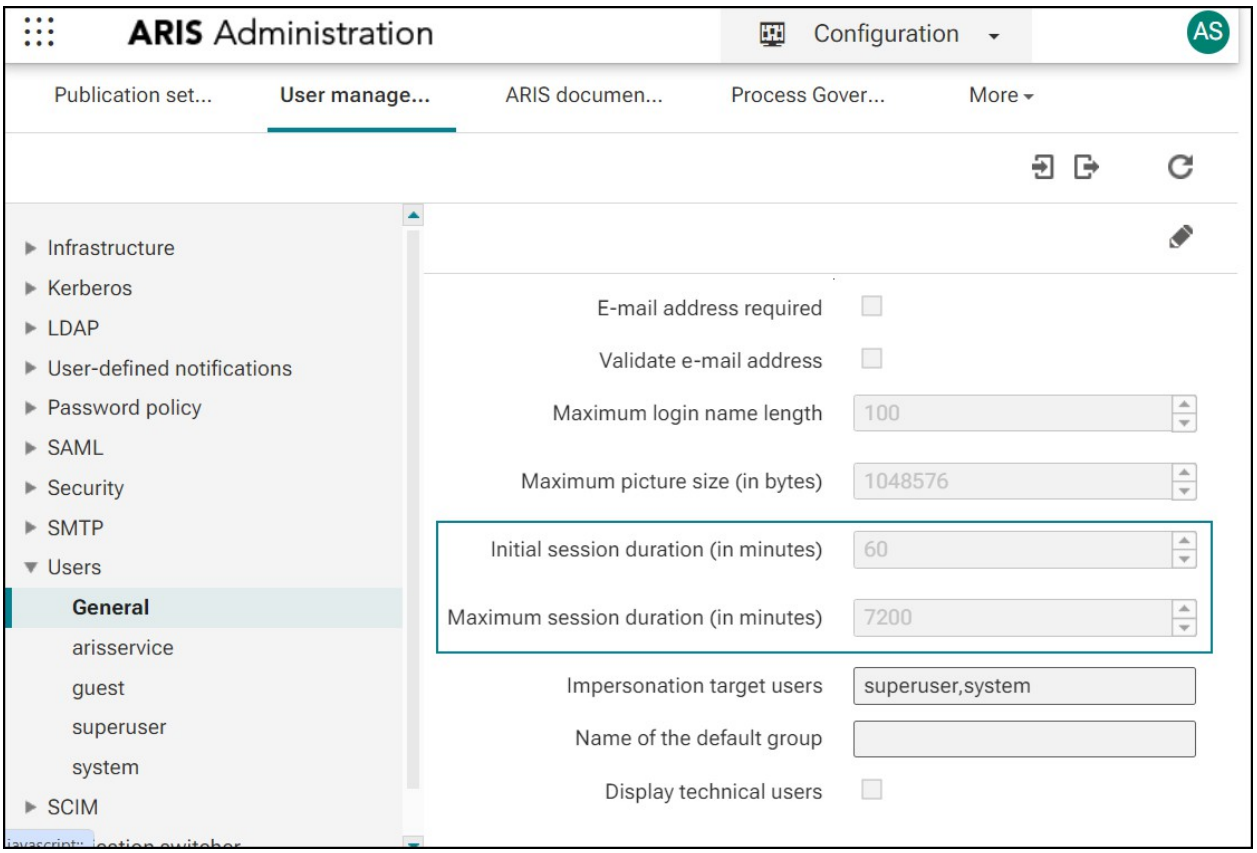
Response:

```
{
"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 https://<servername>/umc/api/tokens/eyJhbGciOiJIUzI1NiIsImp0aSI6FjY

Example 2.

DELETE

https://<servername>/umc/api/tokens/eyJhbGciOiJIUzI1NiIsImp0aSI6FjY

4. API token creation and deletion

4.1. tokens

POST

/tokens

Parameter

- tenant * // Tenant name
- Name // User name
- Password // Password
- key * // Certificate provided by SAG ARIS GmbH

This API call generates a new API token for the user using user credentials or basic authentication. User needs to have the licenses required to access the API.

The tenant name is required.

Example 3.

Request

https://<servername>/umc/api/tokens

Response

```
{
"token":
"eyJhbGciOiJIUzI1NiJ9.eyJpYXQiOjE3MTkyOTA2MDgsImp0aSI6InNmMUcxS2VfTnpmeXhMbTl
rMk5IZ05TNldwSXcwcFBmQ1JQNExnQ1VQRGd1eVBITDB0Q05SclUiLCJzdWIiOiJzeXN0ZW0iLC
J0ZW4iOiJkZWZhdWx0IiwiYXBpIjp0cnVlfQ.AUEuzU6BhxRgNGL-
oI-9FNlxK0NtmKxGHeZio2x34VA"
}
```

4.2. tokensV1

POST

/v1/tokens

Generate new API token.

Parameter

- tenant * // Tenant name
- Name // User name
- Password // Password

This API call generates a new API token for the user using user credentials or basic authentication. User needs to have the licenses required to access the API.

The tenant name is required.

Example 4.

Request

https://<servername>/umc/api/v1/tokens

Response


```
{
"csrfToken": "-8Bfw5u-o6W7k5lJkYXuYZdYRzVbAsrACmF-oDTeFCc", "token":
"eyJhbGciOiJIUzI1NiJ9.eyJpYXQiOjE3MTg4ODY3OTksImp0aSI6IjhlSHd1WnNjN2pobUxhW
mRfZ3VYM0Q2NHJtZFhNbzJJMmtQeEUydGFmSWlmOFM2Z29YcjFMejZEcG9zSHRPNW91Rm5lZnZObWF3I
iwic3ViIjoic3lzdGVtIiwidGVuIjoiZGVmYXVsdCIsImFwaSI6dHJ1ZX0.SRaGJZq
uSClmqagi8rSSGdHPp2AxctP87st7T64wxGQ"
}
```


4.3. tokensV2

POST

/v2/tokens/csrftoken

Parameter

hashAlgorithm // Hash Algorithm (SHA-256)

This API call generates new CSRF token for the user token. The user token must be present in the cookies.

Example 5.

Request

https://<servername>/umc/api/v2/tokens/csrftoken?hashAlgorithm=SHA-256

Response

Ilo5bSt78pzGyekws9szmOmq0PbHAsVzD7CBEDv9raM

POST

/v2/tokens

Parameter

- tenant * // Tenant name
- name // User name
- password // Password

This API call generates a new API token for the user using user credentials or basic authentication. User needs to have the licenses required to access the API.

The tenant name is required.

Example 6.

Request

https://<servername>/umc/api/v2/tokens

Response


```
{
"csrfToken": "8JM3SIfBsilAtbtzIW8TZ3EPGBtWpPzbsFEHLDWDZiA",
"expires_in": "1718890583",
"token":
"eyJhbGciOiJIUzI1NiJ9.eyJpYXQiOjE3MTg4ODY5ODMsImp0aSI6IjNSVnRlaFlnZk15RkJLeDN5ej
 VOSkt0V2lna3dOd0h3b3VnaWZXR1B1YW9vZGMxZFdfSWp4WEhOMTczdENZYTZXTHBXXzcyVll
2X1phdyIsInN1YiI6InN5c3RlbSIsInRlbiI6ImRlZmF1bHQiLCJhcGkiOnRydWV9.RGUv7eLBXWWtng
 pfHrs_wJ6VxPw5gynkJQMMlHubdXQ"
}
```


4.4. API token deletion

DELETE

/tokens/{id}

Parameter

id * // API token This API call Invalidate API token.

The parameter ID (API token) is required.

This call returns if everything is correct. Otherwise all errors will be returned.

Example 7.

Request


```
http://<servername>/umc/api/tokens/
eyJhbGciOiJIUzI1NiJ9.eyJpYXQiOjE3MTkyOTA2MDgsImp0aSI6InNmMUcxS2VfTnpmeXhMbTlrMk5
IZ05TNldwSXcwcFBmQ1JQNExnQ1VQRGd1eVBITDB0Q05SclUiLCJzdWIiOiJzeXN0ZW0iLCJ0ZW4iOiJ
kZWZhdWx0IiwiYXBpIjp0cnVlfQ.AUEuzU6B hxRgNGL-oI-9FNlxK0NtmKxGHeZio2x34VA
```


Remarks

ARIS for SAP® Enable Now license should be enabled.

5. Users

5.1. Retrieve licenses of the user

GET

/users/{name}/licenses

Parameter

name * // Username

This API offers to retrieve the licenses of the user. The user name is required.

Example 8.

Request

https://<servername>/umc/api/users/muruga/licenses

Response

```
[
"YCSDC",
"YCSPD",
"YCSDA"
]
```

5.2. Retrieve user picture

GET'

/users/{name}/picture

Parameter

name * //Name of username

This API offers to retrieve the picture of the user. The user name is required. This returns null if the user does not exist or if user does not have picture.

5.3. Retrieve user by name

GET

/users/{name}

Parameter

name * //User login

This API offers to retrieve the user by name. The user name is required.

Example 9.

Request

https://<servername>/umc/api/users/testuser1

Response

```
{
"login": "testuser1",
"firstname": "testuser1",
"lastname": "testuser1",
"email": "testuser1@softwareag.com (<testuser1@softwareag.com>)", "_links":{
 "self":{
    "href": "https://<servername>/umc/api/users/testuser1"
        },
 "picture": {
    "href": "https://<servername>/umc/api/users/testuser1/picture"
        },
  "licenses": {
    "href": "https://<servername>/umc/api/users/testuser1/licenses"
        }
    }
}
```

5.4. Retrieve a page of users

GET

/users

Retrieves a page of users

Parameter

- offset // Offset of the first result to fetch
- limit // The maximum number of hits is limited to 500. EXAMPLE

Example 10.

Request

https://<servername>/umc/api/users/muruga/page

Response

```
{
"first": "https://<servername/umc/api/users?offset=0&limit=13",
"last": "https://<servername>/umc/api/users?offset=13&limit=0",
"users": [
    {"login": "testuser1",
    "firstname": "testuser1",
```

```
    "lastname": "testuser1",
    "_links": {
    "self": {
    "href": "https://<servername>/umc/api/users"
    },
"picture": {
"href": "https://<servername>/umc/api/users/picture"
},
"licenses": {
"href": "https://<servername>/umc/api/users/licenses"
}
}
},
"_links": {
    "self": {
    "href": "https://<servername>/umc/api/users?offset=0&limit=13"
    }
  }
}
```

6. Support and legal information

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

6.1. 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.

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6.2. Support

Product support

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