



# **ARIS USER MANAGEMENT** **COMMAND-LINE TOOL**

VERSION 10.0 - SERVICE RELEASE 14

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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 Command line tools for the ARIS Administration

ARIS provides a set of command-line tools that can be used to perform administrative operations.

There are always at least two tenants, the tenant **default** and the tenant **master**. Most command-line operations require user authentication. The provided user must have sufficient permissions to perform the requested operation, for example, a tenant create, read, update or delete can only be performed by administrators of tenant **master**.

- ARIS must be running.
- The command-line tools must be executed in the following path:  
ARIS installation path>/server/bin/work/word\_umcadmin\_< your installation size, for example, s,m, or l>/**tools/bin** for Windows® operating systems  
and  
ARIS installation path>/cloudagent/bin/work/word\_umcadmin\_< your installation size, for example, s,m, or l>/**tools/bin** for Linux operating systems.

The following command line tools are provided:

- y-datadump.bat
- y-elasticsearch.bat
- y-ldapsync.bat
- y-password.bat
- y-tenantmgmt.bat

For more information about parameters and commands please type the tool name followed by **/?** or **-?**, for example **y-datadump.bat -?**.

For Unix operating systems, command-line tools (sh files) can only be started by the **aris10** user, for example, enter: **su -c y-datadump.sh aris10**.

The following command line tools are provided:

- y-datadump.sh
- y-elasticsearch.sh
- y-ldapsync.sh
- y-password.sh
- y-tenantmgmt.sh

## 1.1 Password encryption

There are many places where you might want to use and store a password. The **y-password.bat** can be used to encrypt these passwords. Enter the tool name followed by **/?** or **-?** to see the usage instructions, for example **y-password.bat -?**.

### Procedure

Open a command prompt on the above folder (**Start > Run > cmd**).

1. Enter **y-password.bat <option> <password>**
2. Mark and copy the encrypted password and paste it to your configuration file or use it directly from command line.

The following is output:

```
[CLI] Setting verbosity level... [VALUE: 0=OFF]
[CLI] Plain:      <password>
[CLI] Encrypted:  f4a28327ad2f0c87336dd74fe0a70c39
```

### General usage

Options	Description
-?, -h, --help	Show help Default: false

Commands	Description
encrypt	encrypts the password

**Example****Input**

```
y-password.bat encrypt aris
```

**Output**

```
[CLI] Setting verbosity level... [VALUE: 0=OFF]
```

```
[CLI] Plain:      aris
```

```
[CLI] Encrypted:  f4a28327ad2f0c87336dd74fe0a70c39
```

**Usage of an encrypted password from command line**

This example shows how to use the encrypted password while executing the LDAP synchronization from the command line.

**Input**

```
y-ldapsync.bat syncUser -au <user_name> -u system -p  
{crypte}f4a28327ad2f0c87336dd74fe0a70c39
```

**Output**

```
Connected to User Management at end point 'http://servername:1080/umc' for tenant 'default'.  
Synchronizing user 'system' with LDAP...  
Synchronization of user with LDAP is complete.
```

## 1.2 Tenant Management

The batch file **y-tenantmgmt.bat** can be used to manage tenants. Enter the tool name followed by **/?** or **-?** to see the usage instructions, for example **y-tenantmgmt.bat -?**.

Please use **y-tenantmgmt.bat** for Windows® operating systems and **y-tenantmgmt.sh** for Unix operating systems.

### Warning

To avoid data inconsistencies and possible data loss, you must not perform any of the following activities in parallel, neither manually nor scheduled:

- Deleting any Process Governance process instance, process version, or process
- Archiving Process Governance process instances
- Backup/restore tenant (containing Process Governance or ARIS document storage data)

Using some advanced ACC commands, you can create a tenant, import a license and restore a database in one step. If you do not use the standard database system, please make sure to create additional schemes in your Oracle or Microsoft SQL database management system and you have assigned the tenants to these schemes.

You must redirect the ports in case of a Linux operating system.

### Prerequisites

- ARIS Server installation
- Users need the function privileges **License administrator**, **User administrator**, **Technical configuration administrator**.

Users need to login as **superuser** or they need either an **ARIS Architect** license or an **ARIS UML Designer** license. For LOCAL systems they need to login as system user **system**.

### Procedure

1. Open a command prompt (**Start > Run > cmd**).
2. Enter **y-tenantmgmt.bat** followed by **/?** or **-?** to display the help, for example **y-tenantmgmt.bat -?**.  
Enter **y-tenantmgmt.bat -t <tenant name> <command> -u <user name> -p <password>** to enter a command (page 5). Parameters may differ.

After creating a tenant, you must import the relevant license and create the users. You can do so from the command line or using the graphical user interface ARIS Administration.

You are recommended to change the password of the default user **system** immediately after the installation.

## 1.3 Parameters for y-tenantmgmt.bat/y-tenantmgmt.sh

### General usage

Options	Description
-?, -h, --help	Show help, default: false
-s, --server	URL of the server, for example, http://my_host_url:<port number other than default port 80 or 1080>

Commands	Description	Parameters
anonymize	<p>Anonymizes the audit log files.</p> <p>This is compliant to GDPR. The <b>General Data Protection Regulation (GDPR)</b> protects individuals' personal data within the European Union. It also regulates the export of personal data outside the EU. GDPR is a regulation by the European Parliament, the Council of the European Union, and the European Commission.</p>	<p>Please note that you must wait at least 30 minutes after the deletion of the user from User Management before you can start the anonymization process.</p> <p>Usage: anonymize [options]</p> <p>Options:</p> <ul style="list-style-type: none"> <li>* -n, --name Name of the user or user group</li> <li>-p, --password Password of executor, default: superuser</li> <li>* -type, --type UUID type is <b>user</b> or <b>user group</b></li> <li>-u, --user User name of the executor, default: superuser</li> </ul>



Commands	Description	Parameters
assignLicense	Assigns a license to user.	Usage: assignLicense [options] Options: -ag, --affectedGroup Name of affected user group, default: [] -au, --affectedUser User name of affected user, default: [] * -l, --license Product code, default: [] -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
assignPrivilege	Assigns privileges	Usage: assignPrivilege [options] Options: -ag, --affectedGroup Name of affected user group, default: [] -au, --affectedUser User name of affected user, default: [] -p, --password Password of the executor, default: superuser * -pr, --privilege Privilege, default: [] -u, --user User name of the executor, default: superuser
assignUser	Associates a user to a user group.	Usage: assignUser [options] Options: * -ag, --affectedGroup Name of affected user group * -au, --affectedUser User name of affected user -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser

Commands	Description	Parameters
changePassword	Changes a password.	Usage: changePassword [options] Options: * -ap, --affectedPassword Password of affected user * -au, --affectedUser User name of affected user -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
checkLicense	Checks tenant license.	Usage: checkLicense [options] Options: * -l, --license Product code, default: [] -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
createGroup	Creates a user group.	Usage: createGroup [options] Options: -ad, --affectedDescription Description of affected user group * -ag, --affectedGroup Name of affected user group -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser

Commands	Description	Parameters
createMiningServer	Creates ARIS Process Mining server application	<p>Usage: createMiningServer [options]</p> <p>Options:</p> <p>-aid, --applicationClientId Client ID of the affected application</p> <p>-asec, --applicationClientSecret Client secret of the affected application</p> <p>-as, --applicationScopes API scopes of the affected application</p> <p>-p, --password Password of editor Default: superuser</p> <p>-u, --user User name of editor Default: superuser</p>
createTenant	Creates a new tenant.	<p>Usage: createTenant [options]</p> <p>Options:</p> <p>-u, --user User name of the executor, default: superuser</p> <p>-p, --password Password of the executor, default: superuser</p> <p>-t, --tenant &lt;TENANTNAME&gt; (mandatory) For tenant names please only use up to 25 lowercase ASCII characters and numbers. The name must begin with a character. Special characters, such as _ and characters, for example, in Chinese, Cyrillic or Arabic cannot be used.</p> <p>--arisservicePassword (-arisservicep) &lt;PASSWORD&gt;</p> <p>--superuserPassword (-superuserp) &lt;PASSWORD&gt;</p> <p>--systemPassword (-systemp) &lt;PASSWORD&gt;</p>

Commands	Description	Parameters
createUser	Creates a new user.	<p>Usage: createUser [options]</p> <p>Options:</p> <p>-ad, --affectedDescription Description of affected user</p> <p>-ae, --affectedEmail E-mail address of affected user</p> <p>-af, --affectedFirstName First name of affected user</p> <p>-al, --affectedLastName Last name of affected user</p> <p>-ap, --affectedPassword Password of affected user</p> <p>* -au, --affectedUser User name of affected user</p> <p>-p, --password Password of the executor, default: superuser</p> <p>-u, --user User name of the executor, default: superuser</p>
deleteGroup	Deletes a user group.	<p>Usage: deleteGroup [options]</p> <p>Options:</p> <p>* -ag, --affectedGroup Name of affected user group</p> <p>-p, --password Password of the executor, default: superuser</p> <p>-u, --user User name of the executor, default: superuser</p>
deleteLicense	Deletes the licenses for a product.	<p>Usage: deleteLicense [options]</p> <p>Options:</p> <p>* -l, --license Product code</p> <p>-p, --password Password of the executor, default: superuser</p> <p>-u, --user User name of the executor, default: superuser</p>

Commands	Description	Parameters
deleteTenant	Deletes an existing tenant.	Usage: deleteTenant [options] Options: * -au, --affectedUser User name of affected user -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
deleteUser	Deletes an existing user.	Usage: deleteUser [options] Options: --user (-u) <USERNAME> (mandatory) --password (-p) <PASSWORD> (mandatory) --tenant (-t) <TENANTNAME> (mandatory) --affectedUser (-au) <USERLOGIN> (mandatory)

Commands	Description	Parameters
exportAuditLog Export	Exports audit events	<p>Usage: exportAuditLog [options]</p> <p>Options:</p> <p>-ed, --endDate End date in format yyyy-MM-dd HH:mm:ss</p> <p>-ev, --eventTypes Comma-separated list of events Default: ALL</p> <p>-f, --file Name and location of the export file</p> <p>* -ff, --fileFormat Format of the file to be exported as CSV or JSON. If the format is not specified, events will be exported in CSV format. Default: CSV</p> <p>-p, --password Password of editor Default: superuser</p> <p>-sd, --startDate Start date in format yyyy-MM-dd HH:mm:ss</p> <p>-u, --user User name of editor Default: superuser</p>
exportConfig	Exports configuration of tenant.	<p>Usage: exportConfig [options]</p> <p>Options:</p> <p>-f, --file Configuration file, default: umc.properties</p> <p>-p, --password Password of the executor, default: superuser</p> <p>-u, --user User name of the executor, default: superuser</p>

Commands	Description	Parameters
getTenant	Prints information about a tenant.	Usage: getTenant [options] Options: -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
getUser	Prints information about a user.	Usage: getUser [options] Options: * -au, --affectedUser User name of affected user -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
importConfig	Updates configuration of tenant.	Usage: importConfig [options] Options: -f, --file Configuration file, default: umc.properties -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
importConfigFile	Updates the tenant configuration file.	Usage: importConfigFile [options] Options: -f, --file Configuration file -o, --option Configuration option -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser

Commands	Description	Parameters
importLicense	Imports license files for a tenant .	Usage: importLicense [options] Options: -f, --file License file, default: license.zip -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
listPrivileges	Lists the privileges of the user mentioned in the command	Usage: listPrivileges [options] Options: -au, --affectedUser User name of affected user -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
listTenants	Lists all existing tenants.	Usage: listTenants [options] Options: -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
purgeAuditLogByUser	Deletes all audit logs of a deleted user.	Usage: purgeAuditLogByUser [options] Options: * -ed, --endDate End date in format (yyyy-MM-dd HH:mm:ss) -p, --password Password of the executor, default: superuser -sd, --startDate Start date in format (yyyy-MM-dd HH:mm:ss) u, --user User name of the executor, default: superuser



Commands	Description	Parameters
saveApplication	Registers an external application.	<p>Usage: saveApplication [options]</p> <p>Options:</p> <p>-aid, --applicationClientId Client ID of the affected application</p> <p>-asec, --applicationClientSecret Client secret of the affected application</p> <p>-ad, --applicationDescription Description of the affected application</p> <p>-an, --applicationName Application name of the affected application</p> <p>-as, --applicationScopes API scopes of the affected application</p> <p>-p, --password Password of editor Default: superuser</p> <p>-u, --user User name of editor Default: superuser</p>
unassignLicense	Removes a license from user.	<p>Usage: unassignLicense [options]</p> <p>Options:</p> <p>-ag, --affectedGroup Name of affected user group</p> <p>-au, --affectedUser User name of affected user</p> <p>* -l, --license Product code</p> <p>-p, --password Password of the executor, default: superuser</p> <p>-u, --user User name of the executor, default: superuser</p>

Commands	Description	Parameters
unassignPrivilege	Removes the privilege assignment.	Usage: unassignPrivilege [options] Options: -ag, --affectedGroup Name of affected user group -au, --affectedUser User name of affected user -p, --password Password of the executor, default: superuser * -pr, --privilege Privilege -u, --user User name of the executor, default: superuser
unassignUser	Removes a user from a user group.	Usage: unassignUser [options] Options: * -ag, --affectedGroup Name of affected user group * -au, --affectedUser User name of affected user -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser
updateLicense	Replaces the license file for a tenant.	Usage: updateLicense [options] Options: -f, --file License file, default: license.zip * -l, --license Product code, default: [] -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser

Commands	Description	Parameters
updateUser	Updates an existing user.	Usage: updateUser [options] Options: -ad, --affectedDescription Description of affected user -ae, --affectedEmail E-mail address of affected user -af, --affectedFirstName First name of affected user -al, --affectedLastName Last name of affected user * -au, --affectedUser User name of affected user -p, --password Password of the executor, default: superuser -u, --user User name of the executor, default: superuser

### Examples

The following line creates a tenant with name **test**. Please pay attention to the order of parameters.

```
y-tenantmgmt.bat -s http://my_aris_host.com -t test createTenant -u system -p manager
```

The following line creates a new tenant with name **test01**, port used **81**, and initial system user password **abc**. Please pay attention to the order of parameters.

```
y-tenantmgmt.bat -s http://my_aris_host.com:81 -t test01 createTenant -u system -p manager -system abc
```

The following line gets information of the default tenant.

```
y-tenantmgmt.bat -s http://my_aris_host.com -t default getTenant -u system -p manager
```

The following line updates the configuration of default tenant.

```
y-tenantmgmt.bat -s http://my_aris_host.com -t default importConfig -f sldapconfig.properties -u superuser -p superuser
```

The following line assigns a license configuration to the user **my\_user**.

```
y-tenantmgmt.bat -s http://my_aris_host.com -t default -assignLicense au my_user -l YCZUS -u system -p manager
```

## 1.4 LDAP synchronization

The batch file **y-ldapsync.bat** can be used to synchronize the ARIS Administration with LDAP. Enter the tool name followed by **/?** or **-?** to see the usage instructions, for example **y-ldapsync.bat -?**.

You must redirect the ports in case of a Linux operating system.

### Procedure

1. Open a command prompt (**Start > Run > cmd**).
2. Enter **y-ldapsync.bat -s <http://host\_url:<port number other than default port 80 or 1080>> -t <tenant name> <command> -u <user name> -p <password>**

Users are synchronized or imported from an LDAP system.

### General usage

Options	Description
-?, -h, --help	Show help
-u	User name of the relevant user.
-p	Password of the relevant user.
-f	LDAP search filter
-s, --server	URL of the server, for example, http://my_host_url:<port number other than default port 80 or 1080>
-t, --tenant	Tenant name Default: default

Commands	Description
importUsers	Imports users from an LDAP system, the spelling is case sensitive. * -f, --filter Search filter for LDAP as defined in RFC 2254, for example, '(cn=*)'. The filter will be combined with the configured import filters. -p, --password Password of the executor Default: superuser -u, --user User name of the executor Default: superuser

Commands	Description
importGroups	<p>Imports a hierarchy from an LDAP system, the spelling is case sensitive.</p> <p>* -f, --filter Search filter for LDAP as defined in RFC 2254, for example, '(cn=*)'. The filter will be combined with the configured import filters.</p> <p>-p, --password Password of the executor Default: superuser</p> <p>-u, --user User name of the executor Default: superuser</p>
removeUserAttribute	<p>Deletes an attribute of a user in the ARIS Administration.</p> <p>-au, --affectedUser User name of affected user</p> <p>-aa, --affectedAttribute Attribute of affected user</p>
syncUser	<p>Synchronizes a specific existing user with an LDAP system, the spelling is case sensitive.</p>
syncUsers	<p>Synchronizes existing users with an LDAP system, the spelling is case sensitive.</p> <p>* -au, --affectedUser User name of affected user</p> <p>-p, --password Password of the executor Default: superuser</p> <p>-u, --user User name of the executor Default: superuser</p>

Commands	Description
syncGroup	<p>Synchronizes a specific existing group with an LDAP system, the spelling is case sensitive.</p> <p>* -ag, --affectedGroup Name of the affected user group</p> <p>-p, --password Password of the executor</p> <p>Default: superuser</p> <p>-u, --user User name of the executor</p> <p>Default: superuser</p>
syncGroups	<p>Synchronizes existing groups with an LDAP system, the spelling is case sensitive.</p> <p>-p, --password Password of the executor</p> <p>Default: superuser</p> <p>-u, --user User name of the executor</p> <p>Default: superuser</p>

**Example 1**

```
y-ldapsync.bat -s http://my_aris_host.com -t default importUsers -u system -p manager -f (cn=userID)
```

```
[CLI] Setting verbosity level... [VALUE: 0=OFF]
```

```
[CLI] Importing users... [TENANT: 30ff3081-aa9e-33e7-a7d7-5f9d00ae89ee, FILTER: (cn=userID)]
```

```
[CLI] Users successfully imported. [TENANT: 30ff3081-aa9e-33e7-a7d7-5f9d00ae89ee, COUNT: 1]
```

```
[CLI] CN=myuser,OU=Users,DC=mydomain
```

**Example 2**

Import all users from an LDAP system.

```
y-ldapsync.bat -s http://my_aris_host.com:81 -t default importUsers -u system -p manager -f (cn=*)
```

## 1.5 Data migration

Enter the tool name followed by `/?` or `-?` to display the instructions, for example **y-datadump.bat -?**. In case of a data import, the target database has to be empty.

You must redirect the ports in case of a Linux operating system.

### Warning

Do not store backup files in ARIS document storage.

### Procedure

1. Open a command prompt (**Start > Run > cmd**).
2. Enter **y-datadump.bat -s <http://host\_url:<port number other than default port 80 or 1080>> -t <tenant name > <command> -u <user name> -p >password> -f <dump file>**

In this case, a dump file written containing the database content. The following is output:

```
[CLI] Setting verbosity level... [VALUE: 0=OFF]
```

```
[CLI] Exporting data... [TENANT: 30ff3081-aa9e-33e7-a7d7-5f9d00ae89ee, FILE: C:\out.zip]
```

```
[CLI] Data successfully exported. [TENANT: 30ff3081-aa9e-33e7-a7d7-5f9d00ae89ee]
```

### General usage

Options	Description
-?, -h, --help	Show help
-f	File name of the dump file.
-s, --server	URL of the server, URL of the server, for example, http://my_host_url:<port number other than default port 80 <b>or</b> 1080>
-t, --tenant	Tenant name Default: default

Commands	Description
export	<p>Exports all data of the specified tenant to a data dump file. Currently, a dump contains the following information:</p> <ul style="list-style-type: none"><li>▪ tenant</li><li>▪ users</li><li>▪ groups</li><li>▪ user-group assignments</li><li>▪ profile pictures (optional)</li><li>▪ permissions, dependent on the privileges of the user who enters the command</li><li>▪ licenses, dependent on the privileges of the user who enters the command</li><li>▪ configuration, dependent on the privileges of the user who enters the command</li></ul> <p>The data is stored in <b>JSON</b> format and packed into an encrypted <b>ZIP</b> file. The ZIP file can be restored using the same command line tool.</p>
import	Imports a data base dump from a file.

### Example

In this example, data is exported into a dump file.

```
y-datadump.bat -s <http://host_url> -t default export -u system -p manager -f  
"C:\backup\backup.zip"
```



## 2 Legal information

### 2.1 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 AG, 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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### 2.2 Support

If you have any questions on specific installations that you cannot perform yourself, contact your local Software AG sales organization (<https://www.softwareag.com/corporate/company/global/offices/default.html>). To get detailed information and support, use our websites.

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#### ARIS COMMUNITY

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## SOFTWARE AG EMPOWER PORTAL

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## TECHCOMMUNITY

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- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Access articles, code samples, demos, and tutorials.
- Find links to external websites that discuss open standards and web technology.
- Access product documentation, if you have **TECHcommunity** credentials. If you do not, you will need to register and specify **Documentation** as an area of interest.

## EMPOWER (LOGIN REQUIRED)

If you have an account for **Empower**, use the following sites to find detailed information or get support:

- You can find product information on the Software AG Empower Product Support website.
- To get information about fixes and to read early warnings, technical papers, and knowledge base articles, go to the Knowledge Center.
- Once you have an account, you can open Support Incidents online via the eService section of Empower.
- To submit feature/enhancement requests, get information about product availability, and download products, go to Products.

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