software AG

ARIS

SERVER ADMINISTRATOR COMMAND-LINE TOOL

VERSION 10.0 - SERVICE RELEASE 18
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Contents

1   ARIS Server Administrator

The command line tool **ARIS Server Administrator** is available if you have installed ARIS Server or the ARIS Administrator Tools (see **ARIS Client Installation Guide**).

If you have installed ARIS Server, navigate to **ARIS installation path>\server\bin\work\work_abs_<s, m,** or **l>\tools\arisadm** and run the batch file.

On Linux operating systems ARIS Server Administrator (**arisadm.sh**) is available if the **aris10adm-<number>-1.x86_64 file** was installed (see ARIS Server Installation - Linux).

You can start ARIS Server Administrator from any client computer and access the databases on the server:

1. Click **Start > Programs > ARIS > Administration > ARIS Server Administrator 10.0** if you accepted the program group suggested by the installation program. Under a Linux operating system, execute the **arisadm.sh** shell script instead. To do so, enter: **su -c arisadm.sh aris10**. The command prompt opens and ARIS Server Administrator is launched in interactive mode.

2. Establish a connection to the server and tenant:

    Syntax: **server <server name>:<port number> <tenant> <user name> <password>**

    Example: **server arissrv:1080 default system manager**

ARIS Server Administrator is connected to the server.

Enter **help** or **help <command>** to get information about the usage of the commands.

Use the console application **ARIS Server Administrator** to back up or restore a tenant configuration or to manage the ARIS databases of a tenant, for example. The individual commands are transferred as command line parameters. The program provides information on the success and effect of each command executed.

You can start ARIS Server Administrator from any computer on which the ARIS Client is installed either in interactive mode or command-line mode. In command-line mode you can perform actions automatically as there are no prompts in this mode. If you log in as a system user that has at least the **Database administrator** function privilege in ARIS Administration for each tenant, you can manage all databases of this tenant.

You start **interactive mode** by clicking **Start > Programs > ARIS > Administration > ARIS Server Administrator 10.0**.

You start **command-line mode** by opening the command prompt from the directory **<ARIS installation directory>\tools\ArisAdm**.

You can use the following commands and options for the syntax of command-line mode:

<_arisadm><version>.exe [<option>] <command> [<command argument 1>]

or for the syntax of interactive mode:

<command> [<command argument 1>]

§   If you use values with special characters (example: **&** in the password), you must enclose the value in quotes. For additional information, please refer to the help and support center for your operating system.

§   On the server, system messages in ARIS Server Administrator are always output in the ARIS installation language.

§   For example, if you use scripts for daily backups, we strongly recommend that you protect these scripts at the operating system level, or enter passwords encrypted.

Option	Description
-s <server[:<port>]>	Server on which the command should be carried out.
-u <user> <password>	User name and password of a system user with the required privileges.
-l <file name>	Enables the logging of all program operations in the specified log file. The file indicates which operation was performed at what time and with what result.

Option	Description
-enc IBM<code page number>	Specifies a code page to display diacritical characters correctly. If you do not enter an option parameter, the original character set of IBM PC **437** is used.
	If diacritical characters, such as **é**, **ó** or **ñ** used in Spanish, Portuguese or French are displayed as **Ã©**, **Ã³**, or **Ã±**, enter the option **-enc IBM850**.
	If problem occur in other languages, try other code page numbers, such as:
	850 Multilingual (DOS-Latin-1), Western Europe
	720 Arabic alphabet
	737 Greek alphabet
	775 Estonian, Lithuanian, and Latvian alphabet
	852 Slavic languages (Latin-2), Central and East Europe
	855 Cyrillic alphabet
	857 Turkish alphabet
-cf <command file>	Starts a command file containing executable commands.
-sc <schema context>	Context the schema uses. **ARIS** is set as the default.
-t <tenant>	Tenant for which the command should be carried out. The default is **no tenant**.
-ssl	The SSL connection used.

Replace the text surrounded by <pointed brackets> by your individual values. The parts of the command that are surrounded by [brackets] are optional. You can use them if necessary. Default commands are listed below. Advanced commands are described in related documents if required.

Command	Description and syntax
backup	Saves a database **<dbname>** as an **adb** file in a directory **<archivedir>**.
	If the backup is started using the **-c** option, saving the database to the backup file starts only after all ongoing operations, such as a merge procedure or an XML import, are complete.
	Syntax
| | ```
backup <dbname>|-c |all <archivedir> [-p <password for encryption>] [<alternatename>]
``` |

Command	Description and syntax
backupasn	Extracts the state that corresponds to the specified change list number <asn> from a versioned database <dbname> to an ADB file in the directory <archivedir>. You can select either a change list number <asn> or 'head' as a state. 'head' represents the last versioned state **Syntax** `backupasn <dbname>|all <archivedir> <asn>|head [-p <password for encryption>] [<alternatename>]`
backupsystemdb	Saves the central system database that contains data such as filters, model templates, and scripts in an ADB file in a directory **<archivedir>**. **Syntax** `backupsystemdb <archivedir> [<alternatename>]`
backupunversioned	Saves a versioned database <dbname> as a non-versioned **ADB** file in a directory **<archivedir>**. **Syntax** `backupunversioned <dbname> <archivedir>`
clearchartdata	Removes statistics data that is used, for example, to generate charts displayed in **ARIS Administration > Charts > Modeling**. You can remove statistics data for one or all databases entirely or ahead of a certain date. The date must be given as dd/mm/yyyy. **Syntax** `clearchartdata <dbname> [date]` **<dbname>**: If you enter the name of a database, only statistic data of this specific database is deleted. **all**: Deletes statistic data of all databases on this tenant. **date**: Deletes statistic data from a certain date [dd/mm/yyy].
copy	Copies a database from **<fromdbname>** to **<todbname>**. **Syntax** `copy <fromdbname> <todbname>`
createdb	Creates a new ARIS database with the name **<dbname>**. **Syntax** `createdb <dbname> [versioned]`

Command	Description and syntax
delete	Deletes the database **\<dbname\>**. When using the **force** option, the database will be deleted even if users are logged in. **Syntax** `delete <dbname>|all [force]`
dropversions	Deletes all versions of a database **\<dbname\>** up to the version **\<new min version\>**. **Syntax** `dropversions <dbname> <new min version>`
encrypt	Encrypts passwords **\<password\>** for use in batch files. **Syntax** `encrypt <password>`
exit	Exits the interactive mode.
exportscript	Exports a script of type **\<MACRO|REPORT|REPORTTEMPLATE|SEMCHECK|PROFILE\>** with the identifier **\<scriptid\>** to an export directory **\<exportdirectory\>**. **Syntax** `<MACRO|REPORT|REPORTTEMPLATE|SEMCHECK|PROFILE> <scriptid> <exportdirectory>`
help	**help** provides an overview of all commands including syntax description and possible parameters. **help \<command\>** provides help for the command you specified. **Syntax** `help [<command>]`
importfilter	Imports a method filter **\<importfile\>**. **Syntax** `importfilter <importfile>`

importscript	Imports a script **\<importfile\>** of type **\<MACRO|REPORT|REPORTTEMPLATE|SEMCHECK|PROFILE\>** in the specified category **\<categoryname\>**.
	Syntax
	`importscript`
	`<MACRO|REPORT|REPORTTEMPLATE|SEMCHECK|PROFILE>`
	`<importfile> <categoryname>`

Command	Description and syntax
indexstate	Displays the status of the internal cloud search data index. **Syntax** indexstate <database name>
interactive	Starts the program in the interactive mode.
kill	Closes the connection **<sessionid>** of the current tenant. **Syntax** kill <sessionid>|all
killtask	Terminates the given server activity **<taskid>** on instance **<instanceid>**, for example, a report that is unable to complete. **Syntax** **killtask** <instance id> <task id> [force] To obtain the <instanceid> and <taskid> identifiers, use the **monitor** command.
list	Lists all of the tenant's registered databases. By default, only the databases of the current schema context will be listed. When using the **all** option, all databases will be listed (including BO databases, for example). **Syntax** list [all]
lockdb	Locks the database with the name **<dbname>**, or all databases. Users can no longer log in. **Syntax** lockdb <dbname>|all
maintain	Starts the regeneration of search indexes (Cloud Search) for the specified ARIS database or all ARIS databases. Given the fact that running this command may be very time-consuming, it is recommended that you run it only if an error occurs and that you schedule a corresponding maintenance window. **Syntax** maintain <dbname>|all

Command	Description and syntax

maintainancemode	Indicates the current maintenance mode. **maintenancemode on** prevents ARIS Server from automatically updating databases. This can help you reduce the downtime after an ARIS Server update because time-consuming maintenance jobs are automatically stopped for all databases. If you use this option, make sure to run the maintain command manually for related databases if required. If you select **maintenancemode off**, all database maintenance jobs are run again.
	
	Starts the regeneration of search indexes (Cloud Search) for the specified ARIS database or all ARIS databases. Given the fact that running this command may be very time-consuming, it is recommended that you run it only if an error occurs and that you schedule a corresponding maintenance window.
	
	Syntax
	`maintain <dbname>|all`
	Syntax
	`maintainacemode on|off`
	no parameter: Reports the current mode.
	
	on: Turns the maintenance mode on and prevents ARIS Server from maintaining databases.
	
	off: Turns the maintenance mode off and allows ARIS Server maintaining databases automatically.

migrate	Migrates an ARIS 7.1 or 7.2 database **<dbname>** from an ADB file **<archive>**, or migrates all ADB files from a directory **<archivedir>**. You need the password of the system user **system** to migrate an individual database. To migrate multiple databases the passwords must be supplied to every single database in command-line mode. Use the **-fv** option (forward versioning) to store database versions only for ARIS versions prior to 10.0.14. **Syntax** migrate [<archive>|<archivedir>]|<systempassword> [-fv]
monitor	Displays all tenant activities in progress, such as backup, XML export etc.

Command	Description and syntax
rename	Renames the database from **\<olddbname\>** to **\<newdbname\>**. When using the **force** option, the database will be renamed even if users are still logged in. **Syntax** `rename <olddbname> <newdbname> [force]`
reorg	Semantically reorganizes the database \<dbname\> or all databases by deleting all objects and connection definitions that do not have occurrences in any model. Options available: §　**CXNDEFS_IN_MATRIX_MODELS** Connection definitions for which no occurrence exists are not deleted when used in models of type **Matrix model**. §　**USERDEF_CONTENT_SYMBOLS** User-defined symbols that are not allowed by ARIS Method on the current server are replaced by the method-based default symbol. §　**USERDEF_CONTENT_MODELS** User-defined models that are not allowed by ARIS Method on the current server are deleted. §　**USERDEF_CONTENT_ATTRS** User-defined attributes that are not allowed by ARIS Method on the current server are deleted. §　**NO_DEFS** If you do not set an option, object definitions for which no occurrence exists are deleted by default. **Syntax** `<dbname>|all [options]`
restore	Restores a database \<dbname\> from an ADB file \<archive\>, or restores all ADB/BDB files from a directory. Use the **-fv** option (forward versioning) to store database versions only for ARIS versions prior to 10.0.14. **Syntax** `restore <archive>|<archivedir> [<dbname>] [-p <password for decryption>] [-b <bucket ID>] [-fv]`

Command	Description and syntax

restoresystemdb	Restores the central system database that contains data such as filters, model templates, and scripts from a system database backup file (ADB) <archive>. You can also update the system database using the **updatesystemdb** command
	
	After performing an update setup, update the system configuration of each operational tenant (filters, templates, and scripts) based on the supplied system database (<ARIS installation package>..\Content\SystemDB*.adb). Any content you have created is retained.
	
	Syntax
	
	`updatesystemdb <archive>`
	You can execute the command for several tenants at the same time.
	
	Syntax
	
	`restoresystemdb <archive>`

restoreunversioned	Generates a non-versioned database **<dbname>** from an ADB file **<archive>** of a versioned database. Also restores databases based on multiple ADB/BDB files of a directory. **Syntax** `restoreunversioned <archive>|<archivedir> [<dbname>] [-p <password for decryption>]`
restoreversioned	Generates a versioned database <dbname> from an ADB file <archive> of a non-versioned database. Also restores databases based on multiple ADB/BDB files of a directory. In case the option **-no_baseline** is specified, no initial version in archive is created. Use the **-fv** option (forward versioning) to store database versions only for ARIS versions prior to 10.0.14. **Syntax** `restoreversioned <archive>|<archivedir> [<dbname>] [-p <password for decryption>] [-no_baseline] [-fv]`
schemacontext	Changes the schema context of the current tenant. Thus, it is possible to save ARIS Optimizer databases. Possible values are **aris** and **bo.** **Syntax** `schemacontext <new schema context>`

Command	Description and syntax
server	Changes the current ARIS Server. **Syntax** `server <server[:<port>]> <tenant> <user> [<password>] [-ssl]`
sessions	Displays all database connections of the current tenant. **Syntax** `sessions [byuser|bydatabase]`
set	Displays or changes tenant settings. If no parameters are specified, all settings are displayed. If only **<key>** is entered, all settings are deleted. If **<key>** is entered together with **<value>**, the settings are changed accordingly. **Syntax** `set [<key>] [<value>]`
setindexbucket	Specifies the bucket ID for a database. **Syntax** `setindexbucket <dbname> <bucket ID>`
setindexrank	Sets the initial index rank for a database <dbname>. The higher the rank <rank>, the earlier the index is started during cloud search startup. The rank is a number, for example, **5**. **Syntax** `setindexrank <dbname> <rank>`
statistic	Returns the number of all database objects. **Syntax** `statistic <dbname>|all`
threaddump	Triggers a thread dump on instance **<instanceID>**. An instance ID can refer to a runnable, such as **abs <s, m, or l>** or **report <s, m, or l>**, or to a runnable type, such as **abs** or **report**. The thread dump is written to the **threaddump.log** file. **Syntax** `threaddump <instanceID>`
unlockdb	Unlocks the database with the name **<dbname>**, or all databases. **Syntax** `unlockdb <dbname>|all`

Command	Description and syntax

updatesystemdb	After performing an update setup, update the system configuration of each operational tenant (filters, templates, and scripts) based on the supplied system database (<ARIS installation package>..\Content\SystemDB*.adb). Any content you have created is retained.
	
	Syntax
	
	`updatesystemdb <archive>`
	`You can execute the command for several tenants at the same time.`

userwipeout	Clears the user identification of one or multiple deleted users from one or all databases. The attributes **Last modifier**, **Creator**, and the user name in change list descriptions is set to **unknown**. **Syntax** `userwipeout <dbname>|all [<user>][,<user>]`
version	Displays the versions of the programs and libraries in use.

In the following example, a database is reorganized, whereby all of the objects and connections in the database that do not have an occurrence are deleted.

Warning

If you are using an object library, you should reorganize databases only when each object definition occurs in at least one overview model. If elements have already been created for later use but do not yet occur in models, these elements are deleted during the consolidation.

Reorganization in interactive mode

1. Click **Start > Programs > ARIS > Administration > ARIS Server Administrator 10.0**. The MS DOS input window opens and ARIS Server Administrator is launched in interactive mode.

2. Use the **server** command to connect to the relevant ARIS Server:

    Syntax

    ```
    server <server name>[:<port number>] <tenant> <user name>
    ```
    The parts of the command that are surrounded by brackets are optional, that is, you can use them if necessary.

    Example

    ```
    server arissrv.eur.ag:80 default system
    ```
    The password is requested.

3. Enter the user's password. In this example, **manager**. The connection is established.

4. Enter the command for the reorganization of the United Motor Group database:

    ```
    reorg "United Motor Group"
    ```

The database is reorganized. The deleted items are listed.

Reorganization in command-line mode

1. Open the command prompt from the directory **<ARIS installation directory>\tools\ArisAdm**.

2. Enter the command line parameters:

    Syntax

    ```
    arisadm<version> -s <server name> -t <tenant> -u <user name> <password>
    reorg <database name>
    ```
    Example

    ```
    arisadm.bat -s arissrv.eur.ag -t default -u system manager reorg "United
    Motor Group"
    ```

The database is reorganized. The deleted items are listed.

To obtain information on the ARIS Server administrator commands, enter **help** or **help <command>**.

1.1 Execute the backupsystemdb command

You can save the central system database as ADB file in a directory **<archivedir>** manually. It contains data such as filters, model templates, scripts, and ARIS method extensions, such as user-defined attributes, models or objects.

If you use ARIS 9.8 service release 2 or newer versions, the system database will be backed up automatically during a tenant backup.

Prerequisites

§ **ARIS Server Administrator** is installed.

§ You know the credentials of the superuser, or you have the Server administrator function privilege.

Procedure

1. Click **Start > Programs > ARIS > Administration > ARIS Server Administrator 10.0** if you accepted the program group suggested by the installation program. Under a Linux operating system, execute the **arisadm.sh** shell script instead. To do so, enter: **su -c arisadm.sh aris10**. The command prompt opens and ARIS Server Administrator is launched in interactive mode.

2. Establish a connection to the server and tenant:

   Syntax: **server <server name>:<port number> <tenant> <user name> <password>**

   Example: **server arissrv:1080 default system manager**

3. Enter **backupsystemdb <archivedir>[<alternatename>]**.

The system configuration, managing, for example, ARIS method extensions, report scripts, scheduled reports, macros, semantic checks, filters and templates, of this tenant will be saved.

1.2 Execute the restoresystemdb command

Restores the central system database that contains data such as ARIS method extensions, filters, model templates, and scripts from a previously saved system database (page 13) (ADB file) **<archive>**. You can also update the system database using the updatesystemdb (page 15) command.

Prerequisites

§ **ARIS Server Administrator** is installed.

§ You know the credentials of the superuser, or you have the Server administrator function privilege.

§ You have access to the backup file (**<archive>**)

Procedure

1. Click **Start > Programs > ARIS > Administration > ARIS Server Administrator 10.0** if you accepted the program group suggested by the installation program. Under a Linux operating system, execute the **arisadm.sh** shell script instead. To do so, enter: **su -c arisadm.sh aris10**. The command prompt opens and ARIS Server Administrator is launched in interactive mode.

2. Establish a connection to the server and tenant:

   Syntax: **server <server name>:<port number> <tenant> <user name> <password>**

   Example: **server arissrv:1080 default system manager**

3. Enter **restoresystemdb <archive>**.

The system configuration, managing, for example, report scripts, macros, semantic checks, filters and templates, of this tenant will be restored.

1.3　　Execute the updatesystemdb command

When you update the ARIS Server using the update setup, the **default** tenant's system database is updated automatically. For all additional tenants you must update the system databases with the provided database manually. If you do not update system databases, all updates, for example, ARIS method extensions, concerning scripts, filters and templates will not be available.

Prerequisites

§　**ARIS Server Administrator** is installed.

§　You know the credentials of the superuser, or you have the Server administrator function privilege.

§　You have access to the most recent system database (**<downloaded installation package>/Content/SystemDB/<ADB file>**)

§　You have backed up all data that will be overwritten during the update.

Procedure

1.　Click **Start > Programs > ARIS > Administration > ARIS Server Administrator 10.0** if you accepted the program group suggested by the installation program. Under a Linux operating system, execute the **arisadm.sh** shell script instead. To do so, enter: **su -c arisadm.sh aris10**. The command prompt opens and ARIS Server Administrator is launched in interactive mode.

2.　Establish a connection to the server and tenant:

　　Syntax: **server <server name>:<port number> <tenant> <user name> <password>**

　　Example: **server arissrv:1080 default system manager**

3.　Enter **updatesystemdb <name of ADB file>**.

The system configuration of this tenant, managing, for example, ARIS method extensions, report scripts, scheduled reports, macros, semantic checks, filters, and templates, will be updated. User-defined changes made in the configuration will remain.

1.4 Execute the userwipeout command

Even if a user is deleted in the User Management of the ARIS Administration, in ARIS databases the user name stays visible in the **Creator** and the **Last modifier** model and object attributes, and in change list descriptions. This also applies to archived models and objects. You can anonymize user data according to GDPR.

> **Warning**
>
> Make sure to only anonymize deleted users. If you anonymize existing users, the user names are anonymized in all attributes, such as **Creator**, **Last modifier**, and the user names in change list descriptions.

Prerequisites

§   **ARIS Server Administrator** is installed.

§   You know the credentials of the superuser, or you have the Server administrator function privilege.

§   The database must be locked for other users.

Procedure

1.   Click **Start > Programs > ARIS > Administration > ARIS Server Administrator 10.0** if you accepted the program group suggested by the installation program. Under a Linux operating system, execute the **arisadm.sh** shell script instead. To do so, enter: **su -c arisadm.sh aris10**. The command prompt opens and ARIS Server Administrator is launched in interactive mode.

2.   Establish a connection to the server and tenant:

Syntax: **server <server name>:<port number> <tenant> <user name> <password>**

Example: **server arissrv:1080 default system manager**

3.   Enter: **userwipeout <dbname>|all <user>,<user>**

User identifications of one or multiple users are deleted from one or all databases. The attributes **Last modifier**, **Creator**, and the user name in change list descriptions is set to **unknown**.

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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§ Subscribe to early warnings and critical alerts.

§ Open and update support incidents.