



**ARIS**

# SERVER ADMINISTRATOR COMMAND-LINE TOOL

Version 10.0 - Service Release 2

October 2017

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 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.

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. The command prompt opens and ARIS Server Administrator is launched in interactive mode.
2. Establish a connection to the server using the server command:

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

**example:** server localhost:80 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 manage the ARIS databases of a tenant, or to back up or restore a tenant configuration, 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, you can manage all of the server's databases.

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> [<option>] <command> [<command argument 1>]**

or for the syntax of interactive mode:

**<command> [<command argument 1>]**

- If you use values with special characters (e.g., '&' in the password), you need to 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.
-cf <command file>	Starts a command file containing executable commands.
-sc <schema context>	Context the schema uses. <b>ARIS</b> is set as the default.
-t <tenant>	Tenant for which the command should be carried out. The default is <b>no tenant</b> .
-ssl	The SSL connection used.

The parts of the command that are surrounded by [brackets] are optional, i.e., you can use them if necessary.

Command	Description and syntax
<b>backup</b>	<p>Saves a database <b>&lt;dbname&gt;</b> as an adb file in a directory <b>&lt;archivedir&gt;</b>.</p> <p><b>Syntax</b></p> <pre>backup &lt;dbname&gt; all &lt;archivedir&gt; [-p &lt;password for encryption&gt;] [&lt;alternatename&gt;]</pre>
<b>backupasn</b>	<p>Extracts the state that corresponds to the specified change list number <b>&lt;asn&gt;</b> from a versioned database <b>&lt;dbname&gt;</b> to an ADB file in the directory <b>&lt;archivedir&gt;</b>. You can select either a change list number <b>&lt;asn&gt;</b> or 'head' as a state. 'head' represents the last versioned state</p> <p><b>Syntax</b></p> <pre>backupasn &lt;dbname&gt; all &lt;archivedir&gt; &lt;asn&gt; head [-p &lt;password for encryption&gt;] [&lt;alternatename&gt;]</pre>
<b>backupsystemdb</b>	<p>Saves the central system database that contains data such as filters, model templates, and scripts in an ADB file in a directory <b>&lt;archivedir&gt;</b>.</p> <p><b>Syntax</b></p> <pre>backupsystemdb &lt;archivedir&gt; [&lt;alternatename&gt;]</pre>
<b>copy</b>	<p>Copies a database from <b>&lt;fromdbname&gt;</b> to <b>&lt;toddbname&gt;</b>.</p> <p><b>Syntax</b></p> <pre>copy &lt;fromdbname&gt; &lt;toddbname&gt;</pre>
<b>createdb</b>	<p>Creates a new ARIS database with the name <b>&lt;dbname&gt;</b>.</p> <p><b>Syntax</b></p> <pre>createdb &lt;dbname&gt; [versioned]</pre>
<b>delete</b>	<p>Deletes the database <b>&lt;dbname&gt;</b>. When using the <b>force</b> option, the database will be deleted even if users are logged in.</p> <p><b>Syntax</b></p> <pre>delete &lt;dbname&gt; all [force]</pre>
<b>dropversions</b>	<p>Deletes all versions of a database <b>&lt;dbname&gt;</b> up to the version <b>&lt;new min version&gt;</b>.</p> <p><b>Syntax</b></p> <pre>dropversions &lt;dbname&gt; &lt;new min version&gt;</pre>
<b>encrypt</b>	<p>Encrypts passwords <b>&lt;password&gt;</b> for use in batch files.</p> <p><b>Syntax</b></p> <pre>encrypt &lt;password&gt;</pre>
<b>exit</b>	<p>Exits the interactive mode.</p>

Command	Description and syntax
<b>exportscript</b>	<p>Exports a script of the type <b>&lt;MACRO REPORT REPORTTEMPLATE SEMCHECK PROFILE&gt;</b> with the identifier <b>&lt;scriptid&gt;</b> to an export directory <b>&lt;exportdirectory&gt;</b>.</p> <p><b>Syntax</b></p> <pre>&lt;MACRO REPORT REPORTTEMPLATE SEMCHECK PROFILE&gt; &lt;scriptid&gt; &lt;exportdirectory&gt;</pre>
<b>help</b>	<p><b>help</b> provides an overview of all commands including syntax description and possible parameters. <b>help &lt;command&gt;</b> provides help for the command you specified.</p> <p><b>Syntax</b></p> <pre>help [&lt;command&gt;]</pre>
<b>importfilter</b>	<p>Imports a method filter <b>&lt;importfile&gt;</b>.</p> <p><b>Syntax</b></p> <pre>importfilter &lt;importfile&gt;</pre>
<b>importscript</b>	<p>Imports a script <b>&lt;importfile&gt;</b> of the type <b>&lt;MACRO REPORT REPORTTEMPLATE SEMCHECK PROFILE&gt;</b> in the specified category <b>&lt;categoryname&gt;</b>.</p> <p><b>Syntax</b></p> <pre>importscript &lt;MACRO REPORT REPORTTEMPLATE SEMCHECK PROFILE&gt; &lt;importfile&gt; &lt;categoryname&gt;</pre>
<b>indexstate</b>	<p>Displays the status of the internal cloud search data index.</p> <p><b>Syntax</b></p> <pre>indexstate &lt;database name&gt;</pre>
<b>interactive</b>	<p>Starts the program in the interactive mode.</p>
<b>kill</b>	<p>Terminates the connection <b>&lt;sessionid&gt;</b> of the current server.</p> <p><b>Syntax</b></p> <pre>kill &lt;sessionid&gt; all</pre>
<b>list</b>	<p>Lists all of the tenant's registered databases. By default, only the databases of the current schema context will be listed. When using the <b>all</b> option, all databases will be listed (including BO databases, for example).</p> <p><b>Syntax</b></p> <pre>list [all]</pre>

Command	Description and syntax
<b>lockdb</b>	<p>Locks the database with the name <b>&lt;dbname&gt;</b>, or all databases. Users can no longer log in.</p> <p><b>Syntax</b></p> <pre>lockdb &lt;dbname&gt; all</pre>
<b>maintain</b>	<p>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.</p> <p><b>Syntax</b></p> <pre>maintain &lt;dbname&gt; all</pre>
<b>migrate</b>	<p>Migrates an ARIS 7.x database <b>&lt;dbname&gt;</b> from an adb file <b>&lt;archive&gt;</b>, or migrates all adb files in a directory <b>&lt;archivedir&gt;</b>. You need the password of the system user <b>system</b> to migrate an individual database. To migrate multiple databases the passwords must be supplied to every single database in command-line mode.</p> <p><b>Syntax</b></p> <pre>migrate [&lt;archive&gt; &lt;archivedir&gt;] &lt;systempassword&gt;</pre>
<b>monitor</b>	<p>Displays all tenant activities in progress, such as backup, XML export etc.</p>
<b>rename</b>	<p>Renames the database from <b>&lt;olddbname&gt;</b> to <b>&lt;newdbname&gt;</b>. When using the <b>force</b> option, the database will be renamed even if users are still logged in.</p> <p><b>Syntax</b></p> <pre>rename &lt;olddbname&gt; &lt;newdbname&gt; [force]</pre>



Command	Description and syntax
<b>reorg</b>	<p>Semantically reorganizes the database &lt;dbname&gt; or all databases by deleting all objects and connection definitions that do not have occurrences in any model.</p> <p>Options available:</p> <ul style="list-style-type: none"> <li>▪ <b>CXNDEFS_IN_MATRIX_MODELS</b> Connection definitions for which no occurrence exists are not deleted when used in models of type <b>Matrix model</b>.</li> <li>▪ <b>USERDEF_CONTENT_SYMBOLS</b> User-defined symbols that are not allowed by ARIS Method on the current server are replaced by the method-based default symbol.</li> <li>▪ <b>USERDEF_CONTENT_MODELS</b> User-defined models that are not allowed by ARIS Method on the current server are deleted.</li> <li>▪ <b>USERDEF_CONTENT_ATTRS</b> User-defined attributes that are not allowed by ARIS Method on the current server are deleted.</li> <li>▪ <b>NO_DEFS</b> If you do not set an option, object definitions for which no occurrence exists are deleted by default.</li> </ul> <p><b>Syntax</b></p> <pre>&lt;dbname&gt; all [options]</pre>
<b>restore</b>	<p>Restores a database &lt;dbname&gt; from an ADB file &lt;archive&gt;, or restores all ADB/BDB files from a directory.</p> <p><b>Syntax</b></p> <pre>restore &lt;archive&gt; &lt;archivedir&gt; [&lt;dbname&gt;] [-p &lt;password for decryption&gt;]</pre>
<b>restoresystemdb</b>	<p>Restores the central system database that contains data such as filters, model templates, and scripts from a system database backup file (ADB) &lt;archive&gt;. You can also update the system database using the <b>updatesystemdb</b> command</p> <p>After performing an update setup, update the system configuration of the tenant (filters, templates, and scripts) based on the supplied system database (ARIS_DVD/Content/SystemDB/*.adb). Any content you have created is retained.</p> <p><b>Syntax</b></p> <pre>updatesystemdb &lt;archive&gt;</pre> <p><b>Syntax</b></p> <pre>restoresystemdb &lt;archive&gt;</pre>

Command	Description and syntax
<b>restoreunversioned</b>	<p>Generates a non-versioned database <b>&lt;dbname&gt;</b> from an ADB file <b>&lt;archive&gt;</b> of a versioned database. Also restores databases based on multiple ADB/BDB files of a directory.</p> <p><b>Syntax</b></p> <pre>restoreunversioned &lt;archive&gt; &lt;archivedir&gt; [&lt;dbname&gt;] [-p &lt;password for decryption&gt;]</pre>
<b>restoreversioned</b>	<p>Generates a versioned database <b>&lt;dbname&gt;</b> from an ADB file <b>&lt;archive&gt;</b> of a non-versioned database. Also restores databases based on multiple ADB/BDB files of a directory. In case the option <b>-no_baseline</b> is specified, no initial version in archive is created.</p> <p><b>Syntax</b></p> <pre>restoreversioned &lt;archive&gt; &lt;archivedir&gt; [&lt;dbname&gt;] [-p &lt;password for decryption&gt;] [-no_baseline]</pre>
<b>schemacontext</b>	<p>Changes the schema context of the current tenant. Thus, it is possible to save ARIS Optimizer databases. Possible values are <b>aris</b> and <b>bo</b>.</p> <p><b>Syntax</b></p> <pre>schemacontext &lt;new schema context&gt;</pre>
<b>server</b>	<p>Changes the current ARIS Server.</p> <p><b>Syntax</b></p> <pre>server &lt;server[:&lt;port&gt;]&gt; &lt;tenant&gt; &lt;user&gt; [&lt;password&gt;] [-ssl]</pre>
<b>sessions</b>	<p>Displays all database connections of the current tenant.</p> <p><b>Syntax</b></p> <pre>sessions [byuser bydatabase]</pre>
<b>set</b>	<p>Displays or changes tenant settings. If no parameters are specified, all settings are displayed. If only <b>&lt;key&gt;</b> is entered, all settings are deleted. If <b>&lt;key&gt;</b> is entered together with <b>&lt;value&gt;</b>, the settings are changed accordingly.</p> <p><b>Syntax</b></p> <pre>set [&lt;key&gt;] [&lt;value&gt;]</pre>
<b>setindexrank</b>	<p>Sets the initial index rank for a database <b>&lt;dbname&gt;</b>. The higher the rank <b>&lt;rank&gt;</b>, the earlier the index is started during cloud search startup. The rank is a number, e.g. <b>5</b>.</p> <p><b>Syntax</b></p> <pre>setindexrank &lt;dbname&gt; &lt;rank&gt;</pre>
<b>statistic</b>	<p>Returns the number of all database objects.</p> <p><b>Syntax</b></p> <pre>statistic &lt;dbname&gt; all</pre>

Command	Description and syntax
<b>unlockdb</b>	Unlocks the database with the name <b>&lt;dbname&gt;</b> , or all databases. <b>Syntax</b> unlockdb <dbname> all
<b>updatesystemdb</b>	After performing an update setup, update the system configuration of the tenant (filters, templates, and scripts) based on the supplied system database (ARIS_DVD/Content/SystemDB/*.adb). Any content you have created is retained. <b>Syntax</b> updatesystemdb <archive>
<b>version</b>	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 Design Server:

#### Syntax

```
server <server name>[:<port number>] <tenant> <user name>
```

The parts of the command that are surrounded by brackets are optional, i. e., 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, and scripts.

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

### Prerequisites

- **ARIS Server Administrator** is installed (see ARIS Client Installation Guide)
- 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. 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>`  
e.g.  
**server arissrv:1080 default system manager**
3. Enter **backupsystemdb <archivedir>[<alternatename>]**.

The system configuration, managing e.g. 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 filters, model templates, and scripts from a previously saved system database (page 10) (ADB file) **<archive>**. You can also update the system database using the `updatesystemdb` (page 12) command.

### Prerequisites

- **ARIS Server Administrator** is installed (see ARIS Client Installation Guide)
- 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. 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>`  
e.g.  
**server arissrv:1080 default system manager**
3. Enter **restoresystemdb <archive>**.

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

## 1.3 Execute the updatesystemdb command

If you have updated your installation, the **default** tenant's system database will be updated automatically. For all additional tenants, please update the system databases with the provided database manually. If you do not update system databases, all updates concerning e.g. scripts, filters and templates will not be available.

### Prerequisites

- **ARIS Server Administrator** is installed (see ARIS Client Installation Guide)
- You know the credentials of the superuser, or you have the Server administrator function privilege.
- You have access to the most recent system database (**<installation DVD>/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. 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>  
e.g.  
**server arissrv:1080 default system manager**
3. Enter **updatesystemdb <name of ADB file on DVD>**.

The system configuration, managing e.g. report scripts, scheduled reports, macros, semantic checks, filters and templates, of this tenant will be updated. User defined changes made in the configuration will remain.

## 2 Disclaimer

ARIS products are intended and developed for use by persons. Automated processes, such as the generation of content and the import of objects/artifacts via interfaces, can lead to an outsized amount of data, and their execution may exceed processing capacities and physical limits. For example, processing capacities are exceeded if models and diagrams transcend the size of the modeling area or an extremely high number of processing operations is started simultaneously. Physical limits may be exceeded if the memory available is not sufficient for the execution of operations or the storage of data.

Proper operation of ARIS products requires the availability of a reliable and fast network connection. Networks with insufficient response time will reduce system performance and may cause timeouts.

If ARIS products are used in a virtual environment, sufficient resources must be available there in order to avoid the risk of overbooking.

The system was tested using scenarios that included 100,000 groups (folders), 100,000 users, and 1,000,000 modeling artifacts. It supports a modeling area of 25 square meters.

If projects or repositories are larger than the maximum size allowed, a powerful functionality is available to break them down into smaller, more manageable parts.

Some restrictions may apply when working with process administration, ARIS Administration, ARIS document storage, and ARIS Process Board, and when generating executable processes. Process Governance has been tested and approved for 1000 parallel process instances. However, the number may vary depending on process complexity, e.g., if custom reports are integrated. ARIS document storage was tested with 40.000 documents. We recommend monitoring the number and overall size of stored documents and if needed some documents should be archived.