



ARIS

SWITCH DATABASE SYSTEM

Version 10.0 - Service Release 2

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Document content not changed since release 10.0.1. It applies to version 10.0.2 without changes.

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 Warning

When switching to a different DBMS all stored data in the Database Management System (DBMS) is lost.

The following runnables are affected:

- adsadmin
- apg
- abs
- copernicus
- ecp
- octopus

To keep your data, we strongly recommend that you backup the tenant(s) before you switch the installation to a different DBMS.

2 Switching from standard installation (PostgreSQL) to Oracle/MSSQL

PREPARE THE FUTURE DBMS

Create schemes on the Oracle/MSSQL DBMS with the Oracle/MSSQL scripts provided on the ARIS DVD (see ARIS Server installation). The following commands refer to ARIS Cloud Controller (ACC). The following commands refer to ARIS Cloud Controller (ACC). They are described in the **ARIS Cloud Controller (ACC) Command-Line Tool.pdf** document.

Procedure

1. Stop all runnables, e. g., **stopall**.
2. Start zoo runnable, e. g., **start zoo_m**.
3. Deconfigure postgres runnable, e. g., **deconfigure postgres_m**.
4. Enhance the following runnables with the Oracle/MSSQL jdbc driver:

- abs
- apg
- copernicus
- ecp
- simulation
- octopus
- adsadmin

Example: **enhance abs_m with commonsClasspath local file "d:/ARIS10.0/server/ojdbc7-12.1.0.1.jar"**.

5. Register external service:

- Oracle

```
register external service db url="
jdbc:oracle:thin:@<server>:<port>/<sid/service_name>"
driverClassName="oracle.jdbc.OracleDriver" username="<app_user>"
password="<app_user_pwd>" maxIdle=15 maxActive=300 maxWait=10000
removeAbandoned=false removeAbandonedTimeout=600
logAbandoned=false initialSize=0 testOnBorrow=true
validationQuery="select 1 from dual" defaultAutoCommit=false
rollbackOnReturn=true host=<server> jmxEnabled=true
jdbcInterceptors="com.sag.aris.cip.dbcp.CachedSchemaAssignmentJdbcInter
ceptor"
```

- MSSQL

```
register external service db
url="jdbc:sqlserver://<server>:<port>;DatabaseName=<database>"
driverClassName="com.microsoft.sqlserver.jdbc.SQLServerDriver"
username="<app_user>" password="<app_user_pwd>" maxIdle=15
maxActive=300 maxWait=10000 removeAbandoned=false
```

```
removeAbandonedTimeout=600 logAbandoned=true initialSize=0  
testOnBorrow=true validationQuery="select 1" defaultAutoCommit=false  
rollbackOnReturn=true host=<server> jmxEnabled=true  
jdbcInterceptors="com.sag.aris.cip.dbcp.CachedSchemaAssignmentJdbcInter  
ceptor"
```

6. Change tenant data for each existing tenants:

- master tenant

```
set tenant master data for service db  
com.aris.cip.db.schema=<mastertenant_schema >
```

- default tenant

```
set tenant default data for service db  
com.aris.cip.db.schema=<defaulttenant_schema >  
set tenant default data for service db  
com.aris.ecp.db.schema=<default_tenant_schema_name>
```

- custom tenant(s)

```
set tenant custom data for service db  
com.aris.cip.db.schema=<customtenant_schema >  
set tenant default data for service db  
com.aris.ecp.db.schema=<customtenant_schema >
```

7. Start all runnables, , e. g., **startall**.

3 Switching from Oracle/MSSQL to standard installation (PostgreSQL)

The following commands refer to ARIS Cloud Controller (ACC). They are described in the **ARIS Cloud Controller (ACC) Command-Line Tool.pdf** document.

Procedure

1. Stop all runnables, e. g., **stopall**.
2. Start zoo runnable, e. g., **start zoo_m**.
3. Deregister external service:
 - a. Find out db service id <service_id>, e.g., **list external services**.
 - b. Deregister external service: **deregister external service <service_id>**.
4. Configure **postgres** runnable, e. g., e.g. **configure postgres_m postgres_m**.
5. Change tenant data for each tenant:
 - master tenant
set tenant master data for service db com.aris.cip.db.schema=aris_master
 - default tenant
set tenant default data for service db com.aris.cip.db.schema=aris_default
set tenant default data for service db com.aris.ecp.db.schema=aris_default
 - custom tenant(s)
set tenant default data for service db com.aris.cip.db.schema=aris_custom
set tenant default data for service db com.aris.ecp.db.schema=aris_custom
6. Start all runnables, , e. g., **startall**.