

RSA Identity Governance and Lifecycle Collector Data Sheet  
for  
IBM DB2



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## Revision History

Revision Number	Description
Version 1.0	DB2 Data Collector creation and configuration
Version 1.1	Added instructions for configuring the password vault with RSA Identity Governance and Lifecycle ,DB2 Database , Identity Data Collector, Account Data Collector and Entitlement Data Collector

## Purpose

This data sheet provides the configuration information required to create a new Identity data collector, Account data collector and Entitlement data collector for DB2.

## Supported Software

- RSA Identity Management and Governance 6.8.1 and later
- RSA Via Lifecycle and Governance 7.0.0 and later
- RSA Identity Governance and Lifecycle 7.0.1 and later

**Application:** IBM DB2 10.5 and later

**Collector Type(s):** Identity Data Collector, Account Data Collector, Entitlement Data Collector

## Prerequisites

1. Install the DB2 database against which you want to configure the collector
2. Download/get the driver from the respective vendor
  - For DB2 – download db2jcc.jar
3. Make sure that the downloaded jar should be present at or copied to following respective locations according to app server on the Aveksa Server or Remote Agent
  - For JBOSS :- <JBOSS\_HOME>/standalone/deployments/aveksa.ear/APP-INF/lib
  - For WildFly, WAS and WebLogic ,Refer steps mentioned below for respective servers
4. Ensure that the drive which contains the .jar file has the driver class file in it as well.
5. Now restart ACM. (Make sure that you do not have any requests in the queue)
6. Define the collector to use the database driver. If the driver is not in the available entries of the Database Type: then choose OTHER. Define the Driver Class and provide the URL of the given new driver

## WildFly

### Customize RSA Identity Governance and Lifecycle

On an RSA Identity Governance and Lifecycle appliance or software appliance running v7.0 or later, you must use the customizeACM.sh tool to extract the aveksa.ear file, customize it, and repackage it. The following procedure requires that you know how to use the customizeACM.sh tool.

You can customize RSA Identity Governance and Lifecycle by modifying the aveksa.ear file located at /home/oracle/archive.

RSA provides a utility (customizeACM.sh in /home/oracle/deploy) that allows you to extract the aveksa.ear file and rebuild a customized version. For more information, see "Customize RSA Identity Governance and Lifecycle" in the Installation Guide.

**Procedure**

1. Log on to the appliance as the admin user using an SSH tool, such as Putty.
2. Verify that RSA Identity Governance and Lifecycle is running. Enter the following command:
  - `sudo service aveksa_server status`
3. If the server is running, the following message appears:
  - RSA Identity Governance and Lifecycle Compliance Manager Server is running.
4. If the message indicates that the server is not running, enter the following command:
  - `sudo service aveksa_server start`
5. Change to the oracle user. Enter the command:
  - `su – oracle`
6. Go to `/home/oracle/deploy`.
7. Run the `customizeACM.sh` script to extract the `.ear` file to modify and specify its location. Enter the command:  
`customizeACM.sh -c <path to the ear file>`

**Note: If you do not specify the path to the .ear file, the script prompts you to use the currently deployed .ear file.**  
 If you want to use the currently deployed `.ear`, enter 'yes'  
 Otherwise, enter 'no'
8. Content of this `.ear` file will be extracted to a directory at the following location: `/tmp/customizeACM/`
9. Go to `/tmp/customizeACM/` and copy `db2jcc.jar` to `/tmp/customizeACM/APP-INF/lib`
10. After completing the file modification, run the `customizeACM.sh` script again to rebuild the `.ear` file. Go to `/home/oracle/deploy`, enter the command:
  - `./customizeACM.sh -d`
11. The script deploys the new customized `.ear` file and archives it to the following location, appending time and date stamp to name: `/home/oracle/archive`

**Note:** You do not need to restart ACM or AFX.

**WebSphere**

1. Copy the `db2jcc.jar` to the "lib" directories Under APP-INF folder:
  - `/opt/IBM/WebSphere/AppServer/profiles/aveksaProfile/installedApps/<HostName>Node01Cell/aveksa.ear/APP-INF/lib`
2. Restart the WebSphere Application Server.

**WebLogic**

1. Copy the `db2jcc.jar` files to following location and restart the server.
  - Location for `aveksa.ear`: `/home/oracle/ACM-WebLogic`
2. Create a new folder: `mkdir /tmp/aveksa.ear`
3. Unzip `aveksa.ear` to `/home/oracle/ACM-WebLogic`
  - Example: `unzip -q -X /home/oracle/ACM-WebLogic/aveksa.ear -d /tmp/aveksa.ear`
4. Rename existing `aveksa.ear` file to `aveksa.ear.old` in `/home/oracle/ACM-WebLogic/`
  - Example: `mv /home/oracle/ACM-WebLogic/aveksa.ear /home/oracle/ACM-WebLogic/aveksa.ear.old`
5. Copy `db2jcc.jar` file to `/tmp/aveksa.ear/APP-INF/lib/`
6. Repackage `aveksa.ear`
  - Note that you are creating the ear file at a new location: `/home/oracle/ACM-WebLogic`
  - `cd /tmp/aveksa.ear`
  - `zip -q -r -u /home/oracle/ACM-WebLogic/aveksa.ear *`

7. Deploy new ear file.
  - Login to the WebLogic Admin console:  
Example: http://<server\_hostname>:7001/console
  - Go to Deployment > Server.
  - Select aveksa.ear and click the Update button.
  - Select path /home/oracle/ACM-WebLogic and select aveksa.ear.
  - Click Next and then Finish.
  - Restart the WebLogic Server.

## Manage Endpoint Credentials Using a Password Vault

To use a third-party password vault to manage the endpoint credentials, perform the following steps.

1. Configure the password vault according to the third-party provider's instructions.
2. Create a new password vault profile in the RSA Identity Governance and Lifecycle system for retrieving the DB2 user password from the vault. See the RSA Identity Governance and Lifecycle Help for more information about creating a password vault profile.
3. Ensure that a DB2 user account has been created at the configured password vault to store the password.

## Identity Data Collector

### Configuration

The configuration of the Identity data Collector is completed through a number of screens. This section helps you to fill in the values for each screen.

### Collector Description

The following table lists the parameters on the "Collector Description" screen.

Field Name	Value
<i>Collector Name</i>	DB2 Identity Data Collector
<i>Description</i>	Provide a description for this Collector.
<i>Data Source Type</i>	Select "Database" from the list.
<i>Agent</i>	Select any available Agent. The default is AveksaAgent.
<i>Directory</i>	Select Database Directory from the drop-down menu. If Database Directory doesn't exist, create a new directory from the Resources > Directories menu.

<i>Status</i>	Set status as Active.
<i>Copy from</i>	If a configured Identity Collector exists, all of its parameters can be copied. Select it from the list to copy it.
<i>Scheduled</i>	This parameter schedules runs of this Collector instance. Set Start and Frequency when selecting this option.

### Configuration Information

The following table lists the parameters on the “Configuration Information” screen.

<b>Field Name</b>	<b>Value</b>
<i>DB Type</i>	<i>Choose DB type as a database configured in prerequisites steps if it is present in the already defined list else select “Custom”</i>
<i>Driver Class</i>	You can get this information from the documentation of this driver i.e. jar file downloaded for this collector. For e.g. COM.ibm.db2os390.sqlj.jdbc.DB2SQLJDriver
<i>URL</i>	Syntax is like jdbc:[subprotocol]: [subsubprotocol:][databasename];[attributes].  For any database you need to provide the schema or database name and the port assigned to this one at the time of its creation. For e.g. jdbc:db2:@//<Hostname where database is running>:<Database port>/<Database name>
<i>User Name</i>	Username to login to database (Make sure that this user has all privileges on these tables for e.g. “sys as sysdba”)
<i>Static Password</i>	Select this option to provide the password manually and enter the password for the DB2 user.
<i>Dynamic Password</i>	Select this option to use a configured password vault to manage the endpoint credentials.  After you select this option, either select a previously configured password vault profile from the drop-down, or click Create Profile to add a new password vault profile to use with this connector. RSA Identity Governance and Lifecycle uses this profile to retrieve the appropriate credentials from the password vault during connector deployment and connection tests.



## Select types of account data to collect

Select 'Users' as identity data type as applicable.

## Mapping for user attributes

**User Data:** The following table lists the parameters on the "Mapping for user attributes" screen.

Field Name	Value
<i>Users Data Query</i>	(Required). Query to return user attribute values. The column names resulting from the query will be used in the fields. Example: select user_id, first_name, last_name, email, supervisor from t_users
<i>User ID</i>	(Required). User ID column name resulting from <Users Data Query>.
<i>Admin</i>	Admin column name resulting from <Users Data Query>. And select respective value is User ID, Name, Title etc. of User
<i>Business Unit Id</i>	Business Unit Id column name resulting from <Users Data Query>. And select Business Unit Id value is Name or Backup Business Owner or Backup Technical Owner of Business Unit from drop down
<i>Backup Supervisor</i>	Backup Supervisor column name resulting from <Users Data Query>. And select respective value is User ID, Name, Title etc. of User
<i>Business Unit Admin</i>	Business Unit Admin column name resulting from <Users Data Query>. And select respective value is User ID, Name, Title etc. of User
<i>Department</i>	Department column name resulting from <Users Data Query>.
<i>Email Address</i>	Email Address column name resulting from <Users Data Query>.
<i>First Name</i>	First Name column name resulting from <Users Data Query>.
<i>Is Terminated</i>	Is Terminated column name resulting from <Users Data Query>.
<i>Job Code</i>	Job code column name resulting from <Users Data Query>.
<i>Job Status</i>	Job Status column name resulting from <Users Data Query>.

<i>Join Date</i>	Join Date column name resulting from <Users Data Query>.
<i>Last Name</i>	Last Name column name resulting from <Users Data Query>.
<i>Location</i>	Location column name resulting from <Users Data Query>.
<i>Supervisor</i>	Supervisor column name resulting from <Users Data Query>.
<i>Technical Advisor</i>	Technical Advisor column name resulting from <Users Data Query>. And select respective value is User ID, Name, Title etc. of User.
<i>Termination Date</i>	Termination Date column name resulting from <Users Data Query>.
<i>Title</i>	Title column name resulting from <Users Data Query>.
<i>Unique ID</i>	Unique ID column name resulting from <Users Data Query>.

# Account Data Collector

## Configuration

The configuration of the Account data Collector is completed through a number of screens. This section helps you to fill in the values for each screen.

### Collector Description

The following table lists the parameters on the “Collector Description” screen.

Field Name	Value
<i>Collector Name</i>	DB2 Account Data Collector
<i>Description</i>	Description for ADC (For example: DB2 Account Collector)
<i>Business Source</i>	Select Database from available list
<i>Data Source Type</i>	Select the required application
<i>Agent</i>	Appropriate agent (By default, AveksaAgent)
<i>Status</i>	Active
<i>Copy from</i>	The existing Database collector from which to copy a configuration (by default, this is blank)
<i>Scheduled</i>	Select yes to schedule collection

### Configuration Information

The following table lists the parameters on the “Configuration Information” screen.

Field Name	Value
<i>DB Type</i>	Choose DB type as a database configured in prerequisites steps if it is present in the already defined list, else select “Custom”
<i>Driver Class</i>	You can get this information from the documentation of this driver i.e. jar file downloaded for this collector. For e.g. COM.ibm.db2os390.sqlj.jdbc.DB2SQLJDriver

<i>URL</i>	Syntax is like jdbc:[subprotocol]: [subsubprotocol:][databasename];[attributes].  For any database you need to provide the schema or database name and the port assigned to this one at the time of its creation. For e.g. jdbc:db2:@//<Hostname where database is running>:<Database port>/<Database name>
<i>User Name</i>	Username to login to database (Make sure that this user has all privileges on these tables for e.g. "sys as sysdba")
<i>Static Password</i>	Select this option to provide the password manually and enter the password for the DB2 user.
<i>Dynamic Password</i>	Select this option to use a configured password vault to manage the endpoint credentials.  After you select this option, either select a previously configured password vault profile from the drop-down, or click Create Profile to add a new password vault profile to use with this connector. RSA Identity Governance and Lifecycle uses this profile to retrieve the appropriate credentials from the password vault during connector deployment and connection tests.

### Select types of account data to collect

You can select multiple account data types such as Accounts, User Account Mappings, Groups and Sub Groups as applicable.

### Mapping for account attributes

The following table lists the parameters on the "Mapping for account attributes" screen.

#### Account Data

Field Name	Value
<i>Accounts Data Query</i>	(Required). Query to return account data. The column names resulting from the query will be used in the fields. Example: select account,last_login_date from t_accounts
<i>Account ID/Name</i>	(Required). Account ID or Name column name resulting from <Accounts Data Query>.
<i>Last Login Date</i>	Last Login Date column name resulting from <Accounts Data Query>.

<i>Expiration Date</i>	Expiration Date column name resulting from <Accounts Data Query>.
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### *Mapping for user account mapping attributes*

The following table lists the parameters on the “Mapping for user account mapping attributes” screen.

#### *User Account Mappings Data*

<b>Field Name</b>	<b>Value</b>
<i>User Account Mappings Data Query</i>	(Required). Query to return user account mapping data. The column names resulting from the query will be used in the fields. Example: select account,user from t_user_account_mappings
<i>User ID</i>	(Required). User ID column name resulting from User <Account Mappings Data Query>.
<i>Account ID/Name</i>	Account ID or Name column name resulting from User <Account Mappings Data Query>.

### *Mapping for group attributes*

The following table lists the parameters on the “Mapping for group attributes” screen.

#### *Group Data*

<b>Field Name</b>	<b>Value</b>
<i>Groups Data Query</i>	(Required). Query to return group attribute values. The column names resulting from the query will be used in the fields. Example: select group_id, description from t_groups
<i>Group ID/ Name</i>	(Required). Group ID or Name column name resulting from <Groups Data Query>.
<i>Group admin</i>	Group admin column name resulting from <Groups Data Query>.
<i>Owner</i>	(Required). Owner column name resulting from <Groups Data Query>.

### Account Membership Data

The following table lists the parameters on the “Account Membership Data” screen.

Field Name	Value
<i>Account Membership Query</i>	(Required). Query to return account members of groups. The column names resulting from the query will be used in the fields. Example: select account_id, group_id from t_group_memberships where type = 'account'.
<i>Account ID/Name</i>	(Required). Account ID or Name column name resulting from <Account Membership Query>.
<i>Group ID/ Name</i>	(Required). Group ID or Name column name resulting from <Account Membership Query>.

### Mapping for subgroup attributes

The following table lists the parameters on the “Mapping for subgroup attributes” screen.

#### Subgroup Data

Field Name	Value
<i>Subgroup Membership Query</i>	(Required). Query to return sub-group members of groups. The column names resulting from the query will be used in the fields. Example: select sub_grp_id, group_id from t_group_memberships where type = 'group'
<i>Subgroup ID/Name</i>	(Required). Subgroup ID or Name column name resulting from <Subgroup Membership Query>.
<i>Group ID/ Name</i>	(Required). Group ID or Name column name resulting from <Subgroup Membership Query>.

# Entitlement Data Collector

## Configuration

The configuration of the Entitlement data Collector is completed through a number of screens. This section helps you to fill in the values for each screen.

### Collector Description

The following table lists the parameters on the “Collector Description” screen.

Field Name	Value
<i>Collector Name</i>	Name for the Database Entitlement Collector.
<i>Description</i>	Description for the EDC. Example, Database Entitlement Collector
<i>Data Source Type</i>	Select Database Directory.
<i>Business Source</i>	Select the required application.
<i>Agent</i>	Appropriate agent (by default, AveksaAgent)
<i>Status</i>	Active
<i>Copy from</i>	Select existing Database Entitlement collector if you want to copy its configuration. (This is blank by default.)
<i>Scheduled</i>	Select yes to schedule collection

### Configuration Information

The following table lists the parameters on the “Configuration Information” screen.

Field Name	Value
<i>DB Type</i>	Choose DB type as a database configured in prerequisites steps if it is present in the already defined list else select “Custom”

<i>Driver Class</i>	You can get this information from the documentation of this driver i.e. jar file downloaded for this collector. For e.g. COM.ibm.db2os390.sqj.jdbc.DB2SQLJDriver
<i>URL</i>	Syntax is like jdbc:[subprotocol]: [subsubprotocol:][databasename];[attributes].  For any database you need to provide the schema or database name and the port assigned to this one at the time of its creation. For e.g. jdbc:db2@//<Hostname where database is running>:<Database port>/<Database name>
<i>User Name</i>	Username to login to database (Make sure that this user has all privileges on these tables for e.g. "sys as sysdba")
<i>Static Password</i>	Select this option to provide the password manually and enter the password for the DB2 user.
<i>Dynamic Password</i>	Select this option to use a configured password vault to manage the endpoint credentials.  After you select this option, either select a previously configured password vault profile from the drop-down, or click Create Profile to add a new password vault profile to use with this connector. RSA Identity Governance and Lifecycle uses this profile to retrieve the appropriate credentials from the password vault during connector deployment and connection tests.

### Select types of entitlement data to collect

Collect resource-action and application role entitlements for Groups, Accounts and Users. You can select multiple entitlements data type for this option as applicable.

### Define General Column Names

The following table lists the parameters on the "Define General Column Names" screen.

<b>Field Name</b>	<b>Value</b>
<i>User Reference ID/Name</i>	Common User Reference ID or Name, column name returned by several queries
<i>Resource Fully Qualified Name</i>	Common Resource Fully Qualified Name
<i>Action ID/Name</i>	Common Action ID or Name, column name returned by several queries



<i>Application Role ID/Name</i>	Common Application Role ID or Name column name, returned by several queries
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### *Mapping for resource attributes*

The following table lists the parameters on the “Mapping for resource attributes” screen, while creating the Collector.

#### *Resource Data*

<b>Field Name</b>	<b>Value</b>
<i>Resources Data Query</i>	Query to return resource attribute values for resource-action entitlements. The column names resulting from the query will be used in the fields below. Example: select resource as FQN, Owner, Location from t_resources
<i>Resource ID/Name</i>	Resource ID or Name column name resulting from <Resources Data Query>.
<i>Resource Fully Qualified Name</i>	Resource Fully Qualified Name defined in Generic Column Names

### *Mapping for resource-action based entitlements*

The following table lists the parameters on the “Mapping for resource-action based entitlements” screen.

#### *Resource Entitlement Data*

<b>Field Name</b>	<b>Value</b>
<i>Resource Entitlements Query</i>	Query to return entitlement attribute values for resource-action entitlements. Example: select distinct resource as FQN, action from t_resource_ents
<i>Resource Fully Qualified Name</i>	Resource Fully Qualified Name defined in Generic Column Names.
<i>Action ID/Name</i>	Action ID/Name defined in Generic Column Names.

### *User Data*

The following table lists the parameters on the “User Data” screen, while creating the Collector.

Field Name	Value
<i>Ents. for Users Query</i>	Query to return resource-action entitlements granted to users. Example: select resource as FQN, action, user_id from t_resource_ents where type = 'user'
<i>Entitled User</i>	User Reference ID/Name defined in Generic Column Names
<i>Resource Fully Qualified Name</i>	Resource Fully Qualified Name defined in Generic Column Names.
<i>Action ID/Name</i>	Action ID/Name defined in Generic Column Names.

### Group Data

The following table lists the parameters on the “Group Data” screen, while creating the Collector.

Field Name	Value
<i>Ents. For Groups Query</i>	Query to return resource-action entitlements granted to groups. Example: select resource as FQN, action, user_id from t_resource_ents where type = 'group'
<i>Entitled Group</i>	User Reference ID/Name defined in Generic Column Names
<i>Resource Fully Qualified Name</i>	Resource Fully Qualified Name defined in Generic Column Names.
<i>Action ID/Name</i>	Action ID/Name defined in Generic Column Names.

### Account Data

The following table lists the parameters on the “Account Data” screen, while creating the Collector.

Field Name	Value
<i>Ents. For Accounts Query</i>	Query to return resource-action entitlements granted to user accounts. Example: select resource as FQN, action, user_id from t_resource_ents where type = 'account'

<i>Entitled Account</i>	User Reference ID/Name defined in Generic Column Names
<i>Resource Fully Qualified Name</i>	Resource Fully Qualified Name defined in Generic Column Names.
<i>Action ID/Name</i>	Action ID/Name defined in Generic Column Names.

### *Mapping for application role attributes*

#### *Application Role Data*

The following table lists the parameters on the “Mapping for application role attributes” screen, while creating the Collector.

<b>Field Name</b>	<b>Value</b>
<i>Application Roles Query</i>	Query to return application role attribute values for application-role entitlements. Example: select distinct approle from t_approle_defs
<i>Application Role ID/Name</i>	Application Role ID/Name defined in Generic Column Names

#### *Resource-Action Entitlements Data*

The following table lists the parameters on the “Resource-Action Entitlement Data” screen, while creating the Collector.

<b>Field Name</b>	<b>Value</b>
<i>Resource-Action Entitlements of App Roles Query</i>	Query to return resource-action entitlement sub-components of application role entitlements that were collected above. Example: select approle_parent as approle, resource as FQN, action from t_approle_members where type = 'resource'
<i>Application Role ID/Name</i>	Application Role ID/Name defined in Generic Column Names
<i>Resource Fully Qualified Name</i>	Resource Fully Qualified Name defined in Generic Column Names.
<i>Action ID/Name</i>	Action ID/Name defined in Generic Column Names.

### Child Application Roles Data

The following table lists the parameters on the “Child Application Roles Data” screen, while creating the Collector.

Field Name	Value
<i>Child App Roles of App Roles Query</i>	Query to return application role entitlement children of application role entitlements that were collected above. Example: select approle_parent as approle, approle_child from t_approle_members where type = 'app-role'
<i>Child Application Role ID/Name</i>	Child Application Role ID or Name column name resulting from Child App Roles of App Roles Query
<i>Application Role ID/Name</i>	Application Role ID/Name defined in Generic Column Names

### Mapping for application role based entitlements

The following tables lists the parameters on the “Mapping for application role based entitlements” screen.

#### Group Data

The following table lists the parameters on the “Group Data” screen.

Field Name	Value
<i>App Roles for Groups Query</i>	Query to return application role entitlements granted to groups. Example: select approle, user_id from t_approle_ents where type = 'group'
<i>Entitled Group</i>	User Reference ID/Name defined in Generic Column Names
<i>Application Role ID/Name</i>	Application Role ID/Name defined in Generic Column Names

#### Account Data

The following table lists the parameters on the “Account Data” screen.

Field Name	Value
<i>App Roles for Accounts Query</i>	Query to return application role entitlements granted to user accounts. Example: select approle, user_id from t_approle_ents where type = 'account'

<i>Entitled Account</i>	User Reference ID/Name defined in Generic Column Names
<i>Application Role ID/Name</i>	Application Role ID/Name defined in Generic Column Names

### *User Data*

The following table lists the parameters on the “User Data” screen.

<b>Field Name</b>	<b>Value</b>
<i>App Roles for Users Query</i>	Query to return application role entitlements granted to users. Example: select approle, user_id from t_approle_ents where type = 'user'
<i>Entitled User</i>	User Reference ID/Name defined in Generic Column Names
<i>Application Role ID/Name</i>	Application Role ID/Name defined in Generic Column Names

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