

**RSA Identity Governance and Lifecycle Data Sheet  
for  
IBM DB2 Database**



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## REVISION HISTORY

Revision Number	Description
Version 2.1	Updated supported list of capabilities for Account and Application Role

## PURPOSE

This data sheet provides the configuration information required to create a new DB2 connector.

## SUPPORTED SOFTWARE

- *RSA Identity Management and Governance 6.9.1 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 Database Express C Version 10.5 and later

## PREREQUISITES

- Install DB2 Database Express C 10.5.
- To configure this connector two files must be taken from the end-point vendor (DB2):
  1. db2jcc.jar
  2. db2jcc\_license\_cu.jar
- Upload required JAR files in DB2 Connector Template:
  1. Go to AFX → Connector Templates → DB2 Connector template.
  2. Upload JAR files: db2jcc.jar, db2jcc\_license\_cu.jar.

## *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 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 account has been created at the configured password vault for storing the password.

## CONFIGURATION

To set up a new instance of DB2 connector, complete the following:

1. Login to your RSA Identity Governance and Lifecycle instance.
2. Go to AFX > Connectors.
3. Click Create Connector.

4. Configure each of the three sections: General, Settings and Capabilities.

## General

The following table helps you with the parameters asked on the “General” screen while creating the connector.

Field Name	Value
Name	DB2 Connector
Description	DB2 Database Connector
Server	AFX Server
Connector Template	DB2
State	Active
Export As Template	N/A

## Settings

The connection settings required to connect RSA Identity Governance and Lifecycle to IBM DB2 are as follows:

Field Name	Value
Driver Class	COM.ibm.db2os390.sqlj.jdbc.DB2SQLJDriver
Driver URL	jdbc:db2://[host]:[port]/[database]
User Name	Username for the DB2 administrator
Static Password	Select this option if you want to provide the password manually and enter the password for the DB2 administrator.
Dynamic Password	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 menu, 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.

## Capabilities

The following commands are supported by the RSA Identity Governance and Lifecycle IBM DB2 connector:

- CreateAccount
- DeleteAccount
- UpdateAccount

- EnableAccount
- DisableAccount
- AddAppRoleToAccount
- RemoveAppRoleFromAccount
- AddEntToAccount
- RemoveEntFromAccount
- AddRoleToAccount
- RemoveRoleFromAccount
- LockAccount
- UnlockAccount
- CreateGroup
- DeleteGroup
- AddEntToGroup
- RemoveEntFromGroup
- AddAppRoleToAppRole
- RemoveAppRoleFromAppRole
- AddEntToAppRole
- RemoveEntFromAppRole
- CreateRole
- DeleteRole
- AddRoleToRole
- RemoveRoleFromRole
- AddEntToRole
- RemoveEntFromRole

Note: Following set of capabilities from the above list are only supported in *RSA Identity Governance and Lifecycle 7.0.1 and later versions*

1. Update/enable/disable/lock/unlock account
2. Add/remove application role to/from application role
3. Add/remove entitlement to/from application role

## Command Input Parameters

### CreateAccount

Field Name	Value
Parameter Name	User
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	User Name
Mapping	\${AccountTemplate.Name}
Description	User Name

Field Name	Value
SQL command	GRANT DBADM, CREATETAB, BINDADD, CONNECT, CREATE_NOT_FENCED, IMPLICIT_SCHEMA, LOAD ON DATABASE TO USER \${User}

### DeleteAccount

Field Name	Value
Parameter Name	User
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	User Name
Mapping	\${Account.Name}
Description	User Name

Field Name	Value
SQL command	REVOKE DBADM, CREATETAB, BINDADD, CONNECT, CREATE_NOT_FENCED, IMPLICIT_SCHEMA, LOAD ON DATABASE FROM USER \${User}

### UpdateAccount

Field Name	Value
Parameter Name	Account
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Account Name
Mapping	\${Account.Name}

Description	Account Name
-------------	--------------

Field Name	Value
Parameter Name	Name
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	User Full Name
Mapping	\${AccountTemplate.Name}
Description	User Full Name

Field Name	Value
SQL command	UPDATE TESTAFX_ACCOUNT SET NAME=\${Name} WHERE ACCOUNT=\${Account}

### EnableAccount

Field Name	Value
Parameter Name	Account
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Account Name
Mapping	\${Account.Name}
Description	Account Name

Field Name	Value
SQL command	UPDATE TESTAFX_ACCOUNT SET ENABLED=1 WHERE ACCOUNT=\${Account}

### DisableAccount

Field Name	Value
Parameter Name	Account
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Account Name
Mapping	\${Account.Name}
Description	Account Name

Field Name	Value
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SQL command	UPDATE TESTAFX_ACCOUNT SET ENABLED=0 WHERE ACCOUNT=\${Account}
-------------	--

### AddAppRoleToAccount

Field Name	Value
Parameter Name	Account
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Account Name
Mapping	\${Account.Name}
Description	User Name

Field Name	Value
Parameter Name	AppRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Application role
Mapping	\${ApplicationRole.Name}
Description	Application role

Field Name	Value
SQL command	INSERT INTO TESTAFX_ACCOUNT_APPROLE (ACCOUNT,APPROLE) VALUES (\${Account},\${AppRole})

### RemoveAppRoleFromAccount

Field Name	Value
Parameter Name	Account
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Account name
Mapping	\${Account.Name}
Description	Account name

Field Name	Value
Parameter Name	AppRole
Type	STRING
Default Value	-

Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Application role
Mapping	\${ApplicationRole.Name}
Description	Application role

Field Name	Value
SQL command	DELETE FROM TESTAFX_ACCOUNT_APPROLE WHERE ACCOUNT=\${Account} AND APPROLE=\${AppRole}

### AddEntToAccount

Field Name	Value
Parameter Name	User
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	User Name
Mapping	\${Account.Name}
Description	User Name

Field Name	Value
Parameter Name	ResourceType
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Type
Mapping	
Description	Resource Type

Field Name	Value
Parameter Name	Resource
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Name
Mapping	\${Entitlement.Resource}
Description	Resource Name

Field Name	Value
Parameter Name	Action

Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Action
Mapping	#{Entitlement.Action}
Description	Action

Field Name	Value
SQL command	GRANT #{Action} ON #{ResourceType} #{Resource} TO USER #{User}

### RemoveEntFromAccount

Field Name	Value
Parameter Name	User
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	User Name
Mapping	#{Account.Name}
Description	User Name

Field Name	Value
Parameter Name	ResourceType
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Type
Mapping	
Description	Resource Type

Field Name	Value
Parameter Name	Resource
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Name
Mapping	#{Entitlement.Resource}
Description	Resource Name

Field Name	Value
Parameter Name	Action
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Action
Mapping	\${Entitlement.Action}
Description	Action

Field Name	Value
SQL command	REVOKE \${Action} ON \${ResourceType} \${Resource} FROM USER \${User}

### AddRoleToAccount

Field Name	Value
Parameter Name	User
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	User Name
Mapping	\${Account.Name}
Description	User Name

Field Name	Value
Parameter Name	RoleName
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Role Name
Mapping	
Description	Role Name

Field Name	Value
SQL command	GRANT ROLE \${RoleName} TO USER \${User}

### RemoveRoleFromAccount

Field Name	Value
Parameter Name	User
Type	STRING
Default Value	-

Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	User Name
Mapping	\${Account.Name}
Description	User Name

Field Name	Value
Parameter Name	RoleName
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Role Name
Mapping	
Description	Role Name

Field Name	Value
SQL command	REVOKE ROLE \${RoleName} FROM USER \${User}

### LockAccount

Field Name	Value
Parameter Name	Account
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Account Name
Mapping	\${Account.Name}
Description	Account Name

Field Name	Value
SQL command	UPDATE TESTAFX_ACCOUNT SET ISLOCKED=1 WHERE ACCOUNT=\${Account}

### UnlockAccount

Field Name	Value
Parameter Name	Account
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Account Name
Mapping	\${Account.Name}

Description	Account Name
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Field Name	Value
SQL command	UPDATE TESTAFX_ACCOUNT SET ISLOCKED = 0 WHERE ACCOUNT = \${Account}

### CreateGroup

Field Name	Value
Parameter Name	GroupName
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Group Name
Mapping	
Description	Group Name

Field Name	Value
SQL command	GRANT DBADM, CREATETAB, BINDADD, CONNECT, CREATE_NOT_FENCED, IMPLICIT_SCHEMA, LOAD ON DATABASE TO GROUP \${GroupName}

### DeleteGroup

Field Name	Value
Parameter Name	GroupName
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Group Name
Mapping	\${Group.Name}
Description	Group Name

Field Name	Value
SQL command	REVOKE DBADM, CREATETAB, BINDADD, CONNECT, CREATE_NOT_FENCED, IMPLICIT_SCHEMA, LOAD ON DATABASE FROM GROUP \${GroupName}

### AddEntToGroup

Field Name	Value
Parameter Name	GroupName
Type	STRING
Default Value	-
Is the parameter required?	Yes

Is the parameter encrypted?	No
Display Name	Group Name
Mapping	\${Group.Name}
Description	Group Name

Field Name	Value
Parameter Name	ResourceType
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Type
Mapping	
Description	Resource Type

Field Name	Value
Parameter Name	Resource
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Name
Mapping	\${Entitlement.Resource}
Description	Resource Name

Field Name	Value
Parameter Name	Action
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Action
Mapping	\${Entitlement.Action}
Description	Action

Field Name	Value
SQL command	GRANT \${Action} ON \${ResourceType} \${Resource} TO GROUP \${GroupName}

### RemoveEntFromGroup

Field Name	Value
Parameter Name	GroupName
Type	STRING

Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Group Name
Mapping	\${Group.Name}
Description	Group Name

Field Name	Value
Parameter Name	ResourceType
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Type
Mapping	
Description	Resource Type

Field Name	Value
Parameter Name	Resource
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Name
Mapping	\${Entitlement.Resource}
Description	Resource Name

Field Name	Value
Parameter Name	Action
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Action
Mapping	\${Entitlement.Action}
Description	Action

Field Name	Value
SQL command	REVOKE \${Action} ON \${ResourceType} \${Resource} FROM GROUP \${GroupName}

### AddAppRoleToAppRole

Field Name	Value
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Parameter Name	AppRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Application Role Name
Mapping	
Description	Application Role Name

Field Name	Value
Parameter Name	SubAppRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Application Role Name to add
Mapping	
Description	Application Role Name to add

Field Name	Value
SQL command	INSERT INTO TESTAFX_APPROLE (APPROLE,SUBAPPROLE) VALUES ({AppRole},{SubAppRole})

### RemoveAppRoleFromAppRole

Field Name	Value
Parameter Name	AppRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Application Role Name
Mapping	
Description	Application Role Name

Field Name	Value
Parameter Name	SubAppRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Application Role Name to remove
Mapping	
Description	Application Role Name to remove

Field Name	Value
SQL command	DELETE FROM TESTAFX_APPROLE WHERE APPROLE=\${AppRole} AND SUBAPPROLE=\${SubAppRole}

### AddEntToAppRole

Field Name	Value
Parameter Name	AppRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Application Role Name
Mapping	\${ApplicationRole.Name}
Description	Application Role Name

Field Name	Value
Parameter Name	Resource
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Name
Mapping	\${Entitlement.Resource}
Description	Resource Name

Field Name	Value
Parameter Name	Action
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Action
Mapping	\${Entitlement.Action}
Description	Action

Field Name	Value
SQL command	INSERT INTO TESTAFX_APPROLE_ENT (APPROLE,RESOURCENAME,ACTION) VALUES (\${AppRole},\${Resource},\${Action})

### RemoveEntFromAppRole

Field Name	Value
Parameter Name	AppRole

Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Application Role Name
Mapping	#{ApplicationRole.Name}
Description	Application Role Name

Field Name	Value
Parameter Name	Resource
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Name
Mapping	#{Entitlement.Resource}
Description	Resource Name

Field Name	Value
Parameter Name	Action
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Action
Mapping	#{Entitlement.Action}
Description	Action

Field Name	Value
SQL command	DELETE FROM TESTAFX_APPROLE_ENT WHERE APPROLE=#{AppRole} AND RESOURCENAME=#{Resource} AND ACTION=#{Action}

### CreateRole

Field Name	Value
Parameter Name	RoleName
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Role Name
Mapping	
Description	Role Name

Field Name	Value
SQL command	CREATE ROLE \${RoleName}

### DeleteRole

Field Name	Value
Parameter Name	RoleName
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Role Name
Mapping	
Description	Role Name

Field Name	Value
SQL command	DROP ROLE \${RoleName}

### AddRoleToRole

Field Name	Value
Parameter Name	ParentRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Parent Role Name
Mapping	
Description	Parent Role Name

Field Name	Value
Parameter Name	ChildRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Child Role Name
Mapping	
Description	Child Role Name

Field Name	Value
SQL command	GRANT ROLE \${ChildRole} TO ROLE \${ParentRole}

### RemoveRoleFromRole

Field Name	Value
Parameter Name	ParentRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Parent Role Name
Mapping	
Description	Parent Role Name
Field Name	Value
Parameter Name	ChildRole
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Child Role Name
Mapping	
Description	Child Role Name

Field Name	Value
SQL command	REVOKE ROLE \${ChildRole} FROM ROLE \${ParentRole}

### AddEntToRole

Field Name	Value
Parameter Name	RoleName
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Role Name
Mapping	
Description	Role Name

Field Name	Value
Parameter Name	ResourceType
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Type
Mapping	

Description	Resource Type
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Field Name	Value
Parameter Name	Resource
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Name
Mapping	#{Entitlement.Resource}
Description	Resource Name
Field Name	Value
Parameter Name	Action
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Action
Mapping	#{Entitlement.Action}
Description	Action

Field Name	Value
SQL command	GRANT #{Action} ON #{ResourceType} #{Resource} TO ROLE #{RoleName}

### RemoveEntFromRole

Field Name	Value
Parameter Name	RoleName
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Role Name
Mapping	
Description	Role Name

Field Name	Value
Parameter Name	ResourceType
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Type

Mapping	
Description	Resource Type

Field Name	Value
Parameter Name	Resource
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Resource Name
Mapping	\${Entitlement.Resource}
Description	Resource Name

Field Name	Value
Parameter Name	Action
Type	STRING
Default Value	-
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	Action
Mapping	\${Entitlement.Action}
Description	Action

Field Name	Value
SQL command	REVOKE \${Action} ON \${ResourceType} \${Resource} FROM ROLE \${RoleName}

**Note:** The SQL queries mentioned for above capabilities are for reference. These can be customized as per the requirement. The stored procedures can also be used as SQL command for capabilities.

## LIMITATIONS

- As of now, there is no mapping supported for roles and profiles.
- CreateAccount and CreateGroup are not directly supported by DB2. DB2 uses external authentication mechanism such as OS, NTLM or LDAP. So, CreateAccount and CreateGroup are process of granting the access to DB to external users and groups.
- DeleteAccount and DeleteGroup are not directly supported by DB2. DB2 uses external authentication mechanism such as OS, NTLM or LDAP. Deleting an account or group from DB2 means revoking the privileges given to an external user or group.

- While adding or removing entitlements from account, group or role, the resource type may be database, tablespace, table or views. It means privileges can be granted on or revoked from DB, tablespace, table or view.

## TROUBLESHOOTING

This section describes common errors when configuring the RSA Identity Governance and Lifecycle components for DB2 and solutions.

- **After configuring dynamic password on the connector settings page, the connector fails to deploy and the following error is displayed: Password Vault Error.**

*This may happen if there is an error in retrieving the password using the mentioned profile. You need to check if the values provided in the profile for password retrieval are valid and adequate permissions are present on the vault for fetching the password.*

- **Can I use the DB2 connector template for DB2 based application where user/entitlement data of the application is stored in DB2 tables?**

Yes.

*The DB2 connector template can be used for managing DB2 database accounts, groups, roles as well as for any DB2 based application. In case of DB2 based applications, the input parameters and the SQL query specific for any capability can be customized as per the requirement.*



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