



Information Steward Repository Utility

- SAP BusinessObjects Information Steward 4.0.2 Patch 4

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Repository utility overview

Normally, you create the Information Steward repository during installation. However, you can use the IS Repository utility (`ISRepositoryUtility`) in the following situations:

- You want to recover your repository from a backup.
- You want to reset the contents of your repository, such as when moving from a development to production environment or when you want change the database type.

Caution:

If you reset your repository by using the `create` mode of the Repository utility, you will lose all your existing contents.

Run the Repository utility from the command line.

On Windows platforms:

- `ISRepositoryUtility.bat` is installed to the `<SAP_BusinessObjects>\InformationSteward\MM\bin` directory by default.
- The Repository utility uses the parameter values in the `InstallUtility.properties` file in the `<SAP_BusinessObjects>\InformationSteward\MM\config` directory by default.

On UNIX platforms:

- `ISRepositoryUtility.sh` is installed to the `<SAP_BusinessObjects>/InformationSteward/MM/bin` directory by default.
- The Repository utility uses the parameter values in the `InstallUtility.properties` file in the `<SAP_BusinessObjects>/InformationSteward/MM/config` directory by default.

You can override the default parameter values in `InstallUtility.properties` by either of the following actions:

- As a best practice, make a backup of the `InstallUtility.properties` file and then change the parameter values in `InstallUtility.properties`.
- Enter the parameters with their new values in the command line when you run the Information Steward Repository utility.

Related Topics

- [Creating a new repository](#)
- [Recovering the repository](#)
- [Completing the repository recovery](#)
- [Repository utility parameters](#)

1.1 Creating a new repository

To create a new Information Steward repository and associate it with the current Central Management Console (CMS) system database:

1. Create a database to use for the Information Steward repository.

For a list of supported database types, consult the *Product Availability Matrix* located at <http://service.sap.com/PAM>.

Note:

To use an Oracle database for the Information Steward repository, ensure that the JDBC driver exists in the following directory:

- On Windows platforms, `<SAP_BusinessObjects>\InformationSteward\MM\lib\ext`
- On UNIX platforms, `<SAP_BusinessObjects>/InformationSteward/MM/lib/ext`

If the JDBC driver is not in this directory, you must download and install it. For more information, see “Running the JDBC Install utility” in the *Installation Guide*.

2. Stop your web application to prevent users from accessing the Information Steward repository during recovery.
3. Make a back up of the `InstallUtility.properties` file, which is the default configuration file for the `ISRepositoryUtility` command.
 - On windows platforms, back up the properties file located in `<SAP_BusinessObjects>\InformationSteward\MM\config\InstallUtility.properties`.
 - On UNIX platforms, backup the properties file located in `<SAP_BusinessObjects>/InformationSteward/MM/config/InstallUtility.properties`.
4. Open `InstallUtility.properties` and change the values of the connection parameters to the values of the repository you created in step 1.

For example, if you have a new Microsoft SQL Server database, change the values of the following parameters:

- `repoServer`
- `repoServerPort`
- `repoDatabase`
- `repoConnectionString`
- `repoDatabaseEngine`
- `racString` (only if your database is Oracle RAC)
- `user`

5. If you want to overwrite an existing repository, change the value of the `-o` parameter to `true`.

Caution:

The utility will delete all objects in the repository if you specify the `-o true` parameter.

6. On the machine where you performed the Primary installation type for Information Steward, run `ISRepositoryUtility` from the command line.

- a. Open a command window and change to the `bin` directory where Information Steward is installed.

For example, on Windows platforms type the following:

```
cd C:\Program Files (x86)\SAP BusinessObjects\InformationSteward\MM\bin
```

- b. Enter the `ISRepositoryUtility` command and specify the `create` mode.

For example, type the following:

```
ISRepositoryUtility create boePassword "myPass1" password "myPass2"
```

Note:

The password for both the CMS database and the Information Steward repository must be specified in the command line. Do not store passwords in the configuration or properties files.

7. After you create the repository, restart the Web Application Server and CMS.

Note:

If you run Data Insight profiling and rule tasks and you created a new repository with different connection information than in Step 1, you must access the SAP BusinessObjects Data Services Server Manager to associate the Information Steward job server with the new repository.

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Related Topics

- [Repository utility parameters](#)
- [Installation Guide: Configuring a Data Services Job Server for Data Insight](#)
- [Installation Guide: Running the JDBC Install utility](#)

1.2 Recovering the repository

To recover an Information Steward repository and synchronize it with the current CMS system database:

1. Stop your web application to prevent users from accessing the Information Steward repository during recovery.
2. Restore your Information Steward repository to a back up that you created with your database backup utility.
3. Make a backup of the `InstallUtility.properties` file, which is the default configuration file for the `ISRepositoryUtility` command.
 - On Windows platforms, back up this file `<SAP_BusinessObjects>\InformationSteward\MM\config\InstallUtility.properties`.
 - On UNIX platforms, back up this file `<SAP_BusinessObjects>/InformationSteward/MM/config/InstallUtility.properties`.
4. Open the `InstallUtility.properties` file to edit it.

- a. Enter the path and file name of the recovery report file that the utility will generate for this recover operation.

For example: `reportFilePath=<SAP_BusinessObjects>/MM/log/ISRepoUtil_Recovery_report`

- b. Verify that the values of the following parameters are accurate for the database you are using for your Information Steward repository:

- `repoServer`
- `repoServerPort`
- `repoDatabase`
- `repoConnectionString`
- `repoDatabaseEngine`
- `racString` (if your database is Oracle RAC)

For valid values and other information about these parameters, see [Repository utility parameters](#).

5. On the machine where you performed the **Primary** installation type for Information Steward, run `ISRepositoryUtility` from the command line.
 - a. Open a command window and change to the bin directory where the `ISRepositoryUtility` script is located.

For example, on Windows platforms:

```
cd C:\Program Files (x86)\SAP BusinessObjects\InformationSteward\MM\bin
```

- b. Enter the `ISRepositoryUtility` command, the `recover` mode, the password to connect to the CMS, the repository password, and the path of the recovery report file.

For example:

```
ISRepositoryUtility recover
boePassword "myPass1" password "myPass2"
reportFilePath "C:<SAP_BusinessObjects>\InformationSteward\MM\log\recovery_report.log"
```

Note:

The recovery report file will contain information about the Information Steward repository objects that were updated or created and those objects that require further action.

6. Look for the completion message in the command line or in the log `<SAP BusinessObjects>\InformationSteward\MM\log\ISRepositoryUtility_<timestamp>.log`.

When the utility completes successfully, the following message appears:

```
Utility has completed successfully.
```

7. Restart the web application.

Note:

When the recovery has finished, the Update Search Index utility is automatically scheduled to run five minutes later.

After the `ISRepositoryUtility` utility completes, the following objects will be recovered to their status when the database backup was taken:

- Metadata Management Integrator Sources
- Metadata Management utility configurations (except for Purge, Calculate Scorecard, Computer Report Lineage, and Update Search Index)

- Metadata Management Source groups
- Data Insight profile and rule tasks
- Data Insight Connections
- Data Insight Projects (except for Enterprise Project)

Note:

Schedules and Data Insight profile and rule tasks that have been deleted after the database backup was created will not be recovered. Therefore, they will be deleted from the recovered repository.

Remember:

You must complete the repository recovery by taking the actions indicated by the messages in the recovery report file.

Related Topics

- [Completing the repository recovery](#)

1.3 Completing the repository recovery

After you run the Repository utility in `recover` mode, you might need to take additional actions to synchronize the CMS system database.

1. Open the recovery report file that the Repository utility created in the file path that you specified in the `reportFilePath` parameter.
2. If you see the following message in the recovery report file, you can skip the rest of this procedure.

```
All objects are in sync. No further
action required.
```

3. If you see the following message in the recovery report file, review the subsequent messages to obtain the names of the objects that require additional actions.

```
Update the missing information in the
Central Management Console for the placeholder object(s)
listed below:
```

Possible placeholder objects that require additional information include:

- Metadata Management integrator sources
 - Data Insight connections
4. Go to the Central Management Console (CMC) home page and click **Information Steward**.
 5. For Metadata Management integrator sources:
 - a. Expand the **Metadata Management** node and click the **Integrator Sources** node in the navigation tree on the left.
 - b. Select the name of the integrator source from the list on the right.
 - c. If you want to keep this integrator source, click **Action > Properties** and enter the connection properties (which include the server, port, database, user name, and password).
 - d. If you want to delete this integrator source, click **Manage > Delete**.

6. For Data Insight connections:

- a. Click the **Connections** node in the navigation tree on the left.
- b. Select the name of the connection from the list on the right.
- c. If you want to keep this connection, click **Action > Properties** and enter the connection properties (which include the server, port, database, user name, and password).
- d. If you want to delete this integrator source, click **Manage > Delete**.

1.4 Repository utility parameters

By default, the Repository utility uses the parameter values in the `InstallUtility.properties` file. You can override the default parameter values by either of the following actions:

- As a best practice, make a backup of the `InstallUtility.properties` file and then change the parameter values in `InstallUtility.properties`.
- Enter the parameters with their new values in the command line when you run this utility.

Note:

You must always specify the passwords for both the CMS database and the Information Steward repository in the command line when you run the Repository utility.

Parameter	Accepted Values	Required	Description
-c	Absolute path of the configuration file Default: <code><SAP_BusinessObjects>/MM/config/InstallUtility.properties</code>	No	Location and name of the configuration file whose parameter values this utility will use
-h	None	No	Show all parameters and their descriptions Note: All parameters and their descriptions will also display if you specify no parameters when you run <code>ISRepositoryUtility</code> .
-m	create, recover Default: create	Yes	Operation mode

Parameter	Accepted Values	Required	Description
-o	true, false Default: false	No	Overwrite if creating a new repository and an existing repository is specified
report FilePath	Absolute path of the recovery report file	Yes if mode is recover	Location of the recovery report file that this utility will generate when running in the recover mode The path must be enclosed with double quotation marks. For example: <pre>reportFilePath "C:\Program Files (x86)\SAP BusinessObjects\InformationSteward\MM\log\report.log"</pre>
boeUser	Any value accepted by the CMS	Yes	Administrator user account to connect to the CMS
boePassword	Any value accepted by the CMS	Yes	Administrator user account password to connect to the CMS
boeServer	Any value accepted by the CMS	Yes	CMS server name (Optional) Followed by a colon and the CMS port number. For example, cms1:6400
boeAuthenticationr	Any value accepted by the CMS Default: secEnterprise	Yes	Authentication method to connect the user to the CMS
user	Any value accepted by the database type	Yes	Information Steward repository user name
password	Any value accepted by the database type	Yes	Information Steward repository password
repoServer	Any value accepted by the database type	Yes	Information Steward repository server name
repoServer Port	Integer value	Yes	Port to communicate with the Information Steward repository server

Parameter	Accepted Values	Required	Description
repoDatabaseEngine	See the list in the Description column.	Yes	Information Steward repository database type: <ul style="list-style-type: none"> • For DB2: DB2 v9 • For Microsoft SQL Server: MS SQL Server 2008 or MS SQL Server 2005 • For Oracle: Oracle 11, Oracle 10, Oracle 9, or Oracle RAC • For SAP HANA: SAP HANA
repoDatabase	Any value accepted by the database server	Yes	Information Steward repository database name
repoConnectionString	Any value accepted by the database server	Yes	Information Steward repository connection information: <ul style="list-style-type: none"> • For DB2: ODBC data source name • For Microsoft SQL Server: If the SQL Server is an instance name, use this parameter to pass it. For example: <pre>repoConnectionString SQLServerExpress</pre> • For Oracle: TNSNAME defined in <code>tnsnames.ora</code> • For SAP HANA: ODBC data source name
racString	Any value accepted by the database server	No	Additional Oracle RAC connection information

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