

# Database management system reference

These topics describe the operations permissions and version information regarding the database management system (DBMS) or systems you use with DB Change Manager:

- [DBMS Operations Permissions](#)
- [Version Information Reference](#)
- [Version Information for DB2 for LUW](#)
- [Version Information for Oracle](#)
- [Version Information for SQL Server](#)
- [Version Information for Sybase](#)

## DBMS Operations Permissions

When DB Change Manager performs operations based on data source comparisons, there are minimal permissions required in some cases, dependent on data source platform and the action itself.

- [Permissions Required for DB2 for LUW](#)
- [Permissions Required for Oracle](#)
- [Permissions Required for SQL Server](#)
- [Permissions Required for Sybase](#)

### Permissions Required for DB2 for LUW

Task	Permissions for Own Objects	Permissions for All Objects
Archive and Compare		
Schemas Alter Schema		
Object Configuration		
Settings		
Compare Data	Select privilege on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.	Select privilege on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.
Synchronize/Mask /Move Data	Insert/Update/Delete privileges on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.	Insert/Update/Delete privileges on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.

### Permissions Required for Oracle

Task	Permissions for Own Objects	Permissions for All Objects
Archive and Compare Schemas	No special privileges required.	SELECT_CATALOG_ROLE
Alter Schema Object	No special privileges required.	DBA role to alter system objects
Configuration Settings	Not applicable	DBA role
Compare Data	Select privilege on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.	Select privilege on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.
Synchronize/Mask /Move Data	Insert/Update/Delete privileges on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.	Insert/Update/Delete privileges on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.

### Permissions Required for SQL Server

Task	Permissions for Own Objects	Permissions for All Objects
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Archive and Compare Schemas	No special privileges required. Encrypted stored procedures cannot be viewed.	No special privileges required. Encrypted stored procedures cannot be viewed.
Alter Schema Object	Permission to connect to the MSDB database. No special privileges for objects owned by the user.	sysadmin  On SQL Server 2000, you must enable <code>sp_configure</code> to allow updates, and have permission to connect to the MSDB database.
Configuration Settings	Not applicable	sysadmin
Compare Data	Select privilege on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.  Cannot view encrypted stored procedures.	Select privilege on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.  Cannot view encrypted stored procedures.
Synchronize/Mask /Move Data	Insert/Update/Delete privileges on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.	Insert/Update/Delete privileges on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.

## Permissions Required for Sybase

Task	Permissions for Own Objects	Permissions for All Objects
Archive and Compare Schemas	No special privileges required.  Stored procedures cannot be hidden.  <code>syscomment . text read</code> must be allowed in order to compare or archive stored procedures.	No special privileges required.  Stored procedures cannot be hidden.  <code>syscomment . text read</code> must be allowed in order to compare or archive stored procedures.
Alter Schema Object	No special privileges required.	<code>sa_role</code>  Enable <code>sp_configure</code> to allow updates
Configuration Settings	Not applicable	<code>sa_role</code>
Compare Data	Select privilege on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.  The compression comparison function is unavailable for Sybase at this time.	Select privilege on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.  The compression comparison function is unavailable for Sybase at this time.
Synchronize/Mask /Move Data	Insert/Update/Delete privileges on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.	Insert/Update/Delete privileges on the relevant tables and views.  Schema archive permissions on the database or schema objects used in the job.

## Version Information Reference

The following subtopics describe the version information used when comparing, archiving, or creating a configuration standard:

- [Version Information for DB2 for LUW](#)
- [Version Information for Oracle](#)
- [Version Information for SQL Server](#)
- [Version Information for Sybase](#)

## Version Information for DB2 for LUW

Parameter	Description
INST_NAME	Name of the current instance.

IS_INST_PARTITIONABLE	Indicates whether the current instance is a partitionable database server instance.  Possible return values are <b>0</b> , if it is NOT a partitionable database server instance, and <b>1</b> if it IS a partitionable database server instance.
NUM_DBPARTITIONS	The number of database partitions.  If it is NOT a partitioned database environment, this value is <b>1</b> .
INST_PTR_SIZE	The bit size of the current instance. Values are <b>32</b> or <b>64</b> .
RELEASE_NUM	The internal release number as returned by the db2level command.  For example, 03030106.
SERVICE_LEVEL	The service level as returned by the db2level command.  For example, DB2 v8.1.80.
BLD_LEVEL	The build level as returned by the db2level command.  For example, n041021.
PTF	The program temporary fix (PTF) identifier as returned by the db2level command.  For example, U498350.
FIXPACK_NUM	The FixPak number as returned by the db2level command.  For example, 9.

## Version Information for Oracle

On Oracle platforms, DB Change Manager provides a list of all products installed on the Oracle instance and their versions.

## Version Information for SQL Server

On SQL Server, the following parameters are included:

- Product Version (e.g. 9.00.3042.00)
- Platform (e.g. NT INTEL X86)
- Language
- Physical Memory
- Processor Count
- Processor Type
- Windows Version



For entries that contain internal values, the numeric attribute is also available for standard comparisons. For example, the Product Version attribute has a character and an internal value of "8.00.2039" and 524288, respectively. DB Change Manager supplies the Product Version as "8.00.2039," and the Product Version Internal Value as 524288.

## Version Information for Sybase

On Sybase platforms, two groups of configuration parameters are supplied:

- The Server Information group displays the results of executing `sp_server_info`, where the attribute name is the configuration parameter and the value is its value.
- The Version Information group, which contains the following parameters:
  - Build Number
  - Build Type
  - Compilation Date & Time
  - Compilation Kernel
  - Compilation OS Bit Size
  - Compilation OS Platform
  - EBF Version
  - Post Build Type
  - Product
  - Product Code
  - Version