




Metrix

Tech Note: DB Migrator Instructions

Metrix - All Versions
2022

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Introduction

The DB Migrator tool is used to migrate data from the Metrix database to a SQL Server database.

Contact Information

eProductivity Software Support

Web Site:	https://communities.efi.com
US Phone:	1.855.334.4HLP (1.855.334.4457)
UK Phone:	+44 (0) 800.783.2737
EU Phone:	+49.2102.745.4500
E-Mail:	metrix.support@efi.com

Metrix Support hours are 8:00 am to 5:00 pm Eastern Standard Time (Eastern Daylight Time during summer), Monday – Friday. You may contact support at the above numbers or via our customer portal at communities.efi.com.

Regular European Service Desk hours are 9:00 am to 5:15 pm Greenwich Mean Time (British Summer Time during summer), Monday – Friday.

Outside of these hours, you may leave a voice mail message and an on-call support representative will be paged. Response time is based on the severity of the issue.

Note For problems involving infrastructure (i.e., computers, networks, operating systems, backup software, printers, third-party software, etc.), contact the appropriate vendor. eProductivity Software cannot support these types of issues.

Getting Started

About This Guide

This guide provides instructions for migrating data from a Metrix database to a SQL Server database, and for migrating data from SQL Server to HyperSonic.

Requirements

Metrix 2013 or newer.

In order to migrate the data from the Metrix database to a SQL Server database, you will need 2 GB of memory on the Metrix Data Server computer.

Ensure your Metrix Data Server meets the minimum system requirements to perform the migration.

The SQL Server must be pre-configured according to the *Metrix Administration Guide*.

Additional Sources

Metrix Administration Guide

Migrating from Metrix Database to SQL Server on Windows

1. Quit any Metrix clients that are running.
2. Stop the Metrix Database Server.

Note In earlier versions of Metrix, there are two apps for the Data Server: Start Metrix Database Server and Stop Metrix Database Server. Newer versions have just one app for the data server; you can stop the server from the UI.
3. Using a plain text editor, open the metrix.properties file at C:\ProgramData\EFI\Metrix\metrix.properties.
4. Copy and paste the following SQL Server connection strings to metrix.properties.
 jdbc.driver2=com.microsoft.sqlserver.jdbc.SQLServerDriver
 jdbc.URL2=jdbc:sqlserver;
 jdbc.user2=SQL AUTHENTICATED USER
 jdbc.password2=YOUR PASSWORD
5. Save the metrix.properties file and close it.
6. **Metrix 2017.3 and earlier:** Launch Metrix Data Server
Metrix 2018.1 and later: Do not launch Metrix Data Server (it should still be shut down from step 2). If Metrix Data Server is running, DbMigrator.exe will report an error that it cannot open the HyperSonic database.
7. Run DbMigrator.exe, which is found in C:\Program Files\EFI\Metrix\.
8. DB Migrator will not show you any progress indicator in a GUI. There will be a log file called DbMigrator.log which can be found in C:\ProgramData\EFI\Metrix\Logs\DbMigrator.log. Open the log file in a text editor and you will see this at the beginning:
 10:46:23.525 [main] INFO applications.DbMigrator -
 10:46:23.526 [main] INFO applications.DbMigrator -
 =====
 10:46:23.526 [main] INFO applications.DbMigrator - This utility copies Metrix data from one database vendor to another vendor.
 10:46:23.526 [main] INFO applications.DbMigrator - FROM db: Hypersonic Server
 dbUrl:jdbc:hsqldb:hsqldb;
 10:46:23.527 [main] INFO applications.DbMigrator - TO db: Microsoft(R) SQL Server
 dbUrl:jdbc:sqlserver;

```

10:46:23.527 [ main] INFO applications.DbMigrator -
10:46:23.527 [ main] INFO applications.DbMigrator - NOTE1: The 'from' db will not be altered in
anyway.
10:46:23.527 [ main] INFO applications.DbMigrator - NOTE2: All users should already have Metrix
closed by now.
10:46:23.527 [ main] INFO applications.DbMigrator -
=====
10:46:23.527 [ main] INFO applications.DbMigrator -
10:46:23.529 [ main] INFO applications.DbMigrator - Started DbConv version 1.1 at Fri Jun 05 10:46:23
PDT 2015
10:46:23.529 [ main] INFO applications.DbMigrator - Does the destination database already exist?
10:46:23.608 [ main] ERROR applications.DbMigrator - isDatabase2AlreadyThere?
java.sql.SQLException: Table not found in statement [SELECT COUNT(*) FROM Stuff]
10:46:23.608 [ main] ERROR applications.DbMigrator - NOTE: Initially the second database is NOT
suppose to be there so an error here is GOOD ;- )
10:46:23.608 [ main] INFO applications.DbMigrator - No. Clear to proceed with new database.
10:46:23.608 [ main] INFO applications.DbMigrator -
10:46:23.880 [ main] INFO applications.DbMigrator - Connecting to previous 'MetrixDataServer' ... OK.
10:46:23.996 [ main] INFO applications.DbMigrator - Connecting to Hypersonic Server OK.
10:46:23.996 [ main] INFO applications.DbMigrator - Creating blank Metrix table structure in Hypersonic
Server
10:46:24.183 [ main] INFO a.sqb - --- About to create new plant and system database tables...
10:46:24.222 [ main] INFO a.sqb - --- About to create new project database tables...
This tells us the migration can begin. When completed there will be a line at the bottom that looks like
this:
10:48:16.482 [          main] INFO          applications.DbMigrator - Time taken      1.88 minutes
If you see something other than the above, contact Metrix Support at metrixsupport@efi.com

```

9. Once DB Migrator has finished, shut down the Metrix Database Server
10. Edit the metrix.properties file to connect only to SQL Server.
Comment out the old HyperSonic database connection strings by adding a hash mark, #, at the beginning of each line.

```

# jdbc.driver=org.hsqldb.jdbcDriver
# jdbc.URL=jdbc:hsqldb:hsqldb
# jdbc.user=sa
# jdbc.password=

```

11. Modify the Microsoft SQL Server strings by removing the "2" from each line.

```

jdbc.driver2=com.microsoft.sqlserver.jdbc.SQLServerDriver
jdbc.URL2=jdbc:sqlserver;
jdbc.user2=SQL AUTHENTICATED USER
jdbc.password2=YOUR PASSWORD

```

12. Save the changes and launch Metrix.

Migrating from SQL Server to HyperSonic

To migrate from SQL Server to HyperSonic, swap the database strings as shown below:

```

jdbc.driver =com.microsoft.sqlserver.jdbc.SQLServerDriver
jdbc.URL =jdbc:sqlserver;
jdbc.user =SQL AUTHENTICATED USER
jdbc.password =YOUR PASSWORD

```

```
jdbc.driver2=org.hsqldb.jdbcDriver
jdbc.URL2=jdbc:hsqldb:hsq
jdbc.user2=sa
jdbc.password2=
```

Migrating Metrix Database from SQL Server to Postgres server on Windows

1. Start both the SQL and Postgres servers.
2. Quit any Metrix clients that are running.
3. Manually create an empty destination Postgres database named "metrix" in the Postgres server.
4. Using a plain text editor, open the metrix.properties file at C:\ProgramData\EFI\Metrix\metrix.properties.
5. Copy and paste the following PostgreSQL Server connection strings to C:\ProgramData\EFI\Metrix\metrix.properties:

```
jdbc.driver2=org.postgresql.Driver
jdbc.URL2=jdbc:postgresql://hostIP:5432/metrix
jdbc.user2=postgres
jdbc.password2=YOUR PASSWORD
```

6. Save the metrix.properties file and close it.
7. Run DbMigrator.exe, which is found in C:\Program Files\EFI\Metrix.
8. DbMigrator will not display any progress indicators in a GUI. After the successful completion of the database migration, there will be a log file called "DbMigrator.log" in C:\ProgramData\EFI\Metrix\Logs. You will see the following information at the end of the log file:

```
02.17-11:20:16.207 [      main] INFO      applications.DbMigrator -
02.17-11:20:16.207 [      main] INFO      applications.DbMigrator - SUCCESS
02.17-11:20:16.209 [      main] INFO      applications.DbMigrator - Time taken      4.00 seconds
```

8. Edit the metrix.properties file to connect only to PostgreSQL Server. Comment out the old SQL server database connection strings by adding a hashtag (#) at the beginning of each line:

```
# jdbc.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
# jdbc.URL=jdbc:sqlserver://YOUR IP:1433;DatabaseName=metrix;responseBuffering=adaptive;
# jdbc.user=AUTHENTICATED USER
# jdbc.password=YOUR PASSWORD
```

9. Modify the Postgres Server strings by removing the "2" from each line:

```
jdbc.driver=org.postgresql.Driver
jdbc.URL=jdbc:postgresql://hostIP:5432/metrix
jdbc.user=postgres
jdbc.password=YOUR PASSWORD
```

10. Save the changes and launch Metrix.
-