

SQL Database Migration

Goliath Performance Monitor v11.7

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Legal Notices

SQL Database Migration Guide for Goliath Performance Monitor v11.7

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Overview

This migration document will cover the process of migrating from your current Goliath Database to a new SQL Server. It will also facilitate migrating from one drive to another. There are 3 areas that will be covered:

- 1. Preparing the Goliath Server for the database transition
- 2. Migrating the database to its new location
- 3. Updating the Goliath Configuration

Please note, when migrating database from one SQL Server version to another there are some limitations. SQL Server versions 2008R2 and older cannot directly migrate to SQL Server versions 2014 and newer. If this is what you'll be trying to do you'll need to first migrate the database to SQL Server version 2012, increase the database's compatibility mode to 2012, and then from the 2012 instance migrate to the newer version.

I. Preparing the Goliath Server

Please follow the instructions below in order to prepare the Goliath server for the database transition.

- 1. Log into the server where Goliath Performance Monitor is installed
- 2. Open Windows Services
- 3. Stop the 'MonitorIT Server Service'

II. Detach the Database from its original location

Now that the service is stopped we can begin the migration process. Please follow the below steps:

- 1. Open SQL Server Management Studio and connect to the appropriate SQL Server and Instance that is running the database
- 2. Right click on the database, and go to 'Properties'
- 3. A 'Database Properties' pane will appear, in the left-hand menu of the pane choose the 'Options' page
- 4. On the options page, use the **'Compatibility level'** drop down menu to ensure that the highest level is selected. If it is not, please make the change. When finished click **'OK'** to close the pane.
- 5. Right click on the database, and go to 'Tasks' and then click 'Detach'
 - a. The two common database names are 'MonitorIT' and 'GoliathDB'



6. A 'Detach Database' window will appear, check the boxes for 'Drop Connections' and 'Update Statistics'

U	C	etach Databas	е		_ D ×
Select a page	Script 🔻 🚺 Help				
	Databases to detach:				
	Database Name	Drop Connections	Update Statistics	Status	Message
	MonitorIT	✓	✓	Not rea	2 Active connection(s)

- 7. Select **'OK'** to start the detaching process.
 - a. Please note, depending on the size of the database this could take 2-20 minutes
 - b. While the database is detaching you can identify the progress at the bottom left hand corner of the database
 - c. If any error messages occur preventing you for detaching the database, repeat #6 above without checking the boxes

Ū		Detach Databas	e		_ 🗆 X
Select a page	🖾 Script 👻 🚺 He	lp			
	Databases to detact	h:			
	Database Name	Drop Connections	Update Statistics	Status	Message
	MonitorIT	1	v	Detach	
Connection					
Server: GPM-DEV01\GOLIATHSQL					
Connection: GOLIATH\heather hanlon					
View connection properties					
Progress					
Executing					
	<	Ш			>
				0	K Cancel

- 8. When the database is finished detaching, the 'Detach Database' window will disappear
- 9. Using Windows File Explorer, navigate to the location of the database.
- 10. Copy the file and paste it into its new location as appropriate
 - a. Depending on the circumstances, this would be to a new drive or a new SQL Server all together

III. Migrate Database to the new SQL Server

In this section we will cover the steps necessary to attach your Goliath Performance Monitor database to the new SQL Server or location.

Attach the new database

- 1. Open SQL Server Management Studio and connect to the new database server/location
- 2. Right click on Databases and choose 'Attach..'



3. The 'Attach Databases' window will appear, click the 'Add' button to locate the database file

U	At	tach Datab	ases		_		x
Select a page	🖾 Script 🝷 🚺 Help						
	Databases to attach:						
	MDF File Location	1	Datab	ase Name	Attach As		C
	٢		_		_		>
	Database details:			Add	Re	nove	
6 	Original File Name	File Type	Current File Pat	h	Message		
Server							
GPM-DEV01\GOLIATHSQL							
Connection: GOLIATH\heather hanlon							
Wew connection properties							
Progress				Add Catalog	Rei	move	
C Ready							
					ОК	Cancel	

4. Use the tree to navigate to the database file and once selected click 'OK'

Locate Database File	es - GPM-DEV01\GOLIA
Select the file:	
th ⊂ C ⇒ SRECYCLE BIN ⇒ SRECYCLE BIN ⇒ Logs ⇒ Pogran Fles → MSSOL ⇒ MSSOL ⇒ MSSOL ⇒ MSSOL ⇒ MSSOL ⇒ MSSOL ⇒ System Volume I	L Server 11 OOLAT Backup Bann DATA model and model and MSDED at and MSDED at and MSDED at and Install resplate Data Ferplate Data formation
Selected path:	D:\Program Hies\Microsoft SQL Server\MSSQL11
Files of type:	Database Files(*.mdf) v
File name:	Monitori T.mdf
	OK Cancel

6 SQL Database Migration Copyright © 2018 Goliath Technologies v11.7 - November 2018 5. This will bring you back to the **'Attach Databases'** window, in the **'Database Details'** section at the bottom of the pane, if there is a log file displayed select the **'Log'** file type and then click **'Remove'**. If there is not one, continue to the next step.

"MonitorIT" database o	details:		
Original File Name	File Type	Current File Path	Message
MonitorIT.mdf	Data	D:\Program Files\Micros	
MonitorIT_log.ldf	Log	D:\Program Files\Micros	
		Add Catal	ng Remove

6. Then select '**OK'** to complete attaching the database. Once the database is successfully attached the window will disappear

VI. Connect Goliath Performance Monitor to the SQL Database

In this section we will cover the steps necessary to complete the migration process by creating the necessary DSNs and appropriately modifying the windows service.

NOTE: If Goliath Performance Monitor will be located on a different server then the SQL server, check the security properties for this database. You will need a Windows User with DBO rights to the database. This information will be needed for this section if applicable.

Create the Database DSNs

This section will cover the process for creating a connection to the database you have just attached to SQL.

- 1. Log into your Goliath Performance Monitor Server
- 2. Open the Run window and type 'C:\Windows\SysWOW64\odbcad32'
- 3. Once open, go to the System DSN tab:



<u>Note:</u> If you have an existing DSN for 'BreakoutRPM' name, select 'configure' and rename it to 'BreakoutRPM.Old'

4. Next click 'Add' and scroll through the list to select the driver type. We suggest using the SQL Native Client over the SQL Server option if it is available.

Create New Data Source	x
Select a driver for which you want to set up a data sour Name V Microsoft Paradox Driver (*.db) 6 Microsoft Paradox-Treiber (*.db) 6 Microsoft Text Driver (*.dt; *.csv) 6 Microsoft Text-Treiber (*.td; *.csv) 6 SQL Server 6 SQL Server Native Client 10.0 2 SQL Server Native Client 11.0 2	
< Back Finish Canc	el

- 5. Name the connection with the information listed below, when finished click 'Next'
 - a. Define the Name as 'BreakoutRPM'
 - b. Define Description as 'Primary GPM Database'
 - c. For **'Server'** use the dropdown menu to pick the appropriate server name and instance name if appropriate. If the dropdown menu is empty, manually type in the name

Cr	eate a New Data Source to SQL Server
	This wizard will help you create an ODBC data source that you can use to connect to SQL Server. What name do you want to use to refer to the data source? Name: Breakout RPM How do you want to describe the data source? Description: Primary Goliath Performance Monitor Database Which SQL Server do you want to connect to? Server: SVR-SQL01
	Finish Next > Cancel Help

6. Keep the default settings to use the Integrated Windows authentication to connect to the database and select **'Next'**

7. Check the box next to **'Change the default database to'** and select the appropriate database from the dropdown menu. Click **'Next'**

Ci	reate a New Data Source to SQL Server
	 Change the default database to: Attach database filename: Attach database filename: Use ANSI quoted identifiers. Use ANSI nulls, paddings and warnings. Use the failover SQL Server if the primary SQL Server is not available.
	< Back Next > Cancel Help

- 8. Keep the defaults for the additional options and click 'Finish
- 9. Select the 'Test Data Source' button to validate the connection. Click 'OK' to close all windows
 - a. If your SQL Server was local, but now it is is remote, go on to the next section for additional steps to complete.
 - b. If not the above, go to Windows Services and restart the MonitorIT Server Service and then once it is finished, wait about 3 minutes before opening the product.

VII. Configure the MonitorIT Server Service for Remote SQL Databases

When connecting to a remote SQL Server, it is necessary to modify the **MonitorIT Server** Windows Service with the appropriate logon rights to access the database.

- 1. Open Windows Services
- 2. Find the 'MonitorIT Server Service' in the list, right mouse click, and choose 'Properties'
- 3. Go to the 'Log on' tab

MonitorIT Server S	ervice Properties (Local Computer)
Log on as:	overy Dependencies
 Local System accou Allow service to i 	int interact with desktop
O This account:	Browse
Password:	
Confirm password:	
	OK Cancel Apply

- 4. Specify a Windows account that has DBO rights to the MonitorIT database you attached on the SQL Server (we recommend using the **'Browse'** function to ensure the account gets validated).
- 5. Click 'Apply' and then 'OK' to close the window
- 6. Select 'Start Service' and then 'Restart the Service'.
- 7. Once the service restart is complete, wait about 3 minutes before launching the product.