

How to Move an HP Systems Insight Manager SQL 2008 Database from a Local to a Remote Server White Paper



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## Introduction

This white paper describes how to move an HP Systems Insight Manager SQL Server 2008 R2 database from a local server to a remote server.

## Enabling Remote Connection to SQL Server 2008 R2

## Enabling SQL Server and Windows Authentication mode

1. Log in to SQL Server using SQL Server Management Studio on local SQL Server with Windows® Authentication user. The Windows account authenticates SQL Server.

Figure 1: Connecting to the server

Microsoft*	erver <sup>°</sup> 2008
Server type:	Database Engine
Server name:	WIN-K4JAX5724GV
Authentication:	Windows Authentication
User name:	WIN-K4JAX5724GV\Administrator
Password:	
Connect	Remember password     Cancel Help Options >>

2. In Object Explorer, right-click the instance name and select **Properties**.

Figure 2: Object Explorer

3. On the left side, select **Security**, and change Server authentication to **SQL Server and Windows Authentication mode**. If this setting is already selected, then SQL Server authentication is enabled.

Figure 3: Server Properties

🚪 Server Properties - R1L1E1	84-¥M3
Select a page	🛒 Script 🕶 📑 Help
🚰 General	
Memory	Course of the office from
	Server authentication
	O Windows Authentication mode
🚰 Database Settings	SQL Server and Windows Authentication mode
Advanced	
	Login auditing
	C None
	Ealled logins only
	O S <u>u</u> ccessful logins only
	C Both failed and successful logins
	Server proxy account
	Enable ser <u>v</u> er proxy account
	Proxy account:
	Password:
Connection	
Server:	Options
R1L1E1B4-VM3	Enable Common Criteria compliance
Connection:	Enable C2 audit tracing
RILLEIB4-VM3V4dministrator	Cross database ownership chaining
View connection properties	
Progress	
Ready	
1945 <sup>9</sup>	
	OK Cancel

4. Restart the SQL Server so that the changes can take effect.

5. Right-click the instance name again, and select **Restart**.

Figure 4: Object Explorer

🝢 Microsoft SQL Server Manag	emer	nt Studio	
<u> </u>	wob	<u>⊂</u> ommu <mark>ni</mark> ty <u>H</u> elp	
🗄 🏩 New Query   🛅   📸 📸	Ta   D	è   💕 🔩 🖳	Ø 🚯 🛙
Object Explorer			• ₽ ×
Connect 🕶 📑 📰 👕 😰			
R1L1E1B4-VM3 (SQL Server     Databases		<u>C</u> onnect	dministrator)
⊞		Disconnect	
		Register	
🛨 🧰 Management		New <u>Q</u> uery	
		<u>S</u> tart	
		Stop	
		Pa <u>u</u> se	
		R <u>e</u> sume	
		Rest <u>a</u> rt	
		Reports +	
		Refresh	
		Properties	

6. Select **Yes**.

Figure 5: Information dialog

Microsoft S	5QL Server Management Studio
?	Are you sure you want to restart the MSSQLSERVER service on R1L1E1B4-VM3?
	<u>Yes</u> <u>N</u> o

7. Wait for the service to stop and start.

Figure 6: Attempting to stop service



8. Both SQL Server and Windows authentication have been enabled. You can now log in to SQL Server with your current Windows account or your created account.

#### NOTE:

If SQL Server 2008 Express R2 is installed locally, SQL authentication fails with Microsoft SQL Server error 18456. Use one of the following procedures to authenticate the SQL login.

- Enable the sa login using Transact-SQL.
  - 1. In Object Explorer, connect to an instance of Database Engine.
  - 2. On the Standard bar, click New Query.
  - 3. Copy and paste the following example into the query window and click Execute. The following example enables the sa login and sets a new password. ALTER LOGIN SA ENABLE ; GO ALTER LOGIN SA WITH PASSWORD = `<enterStrongPasswordHere>' ;
    - GO
- Enable the sa login using Management Studio.
  - 1. In Object Explorer, expand **Security**, expand **Logins**, right-click **sa**, and click **Properties**.
  - On the General page, you might have to create and confirm a password for the sa login.
  - 3. On the Status page, in the Login section, click **Enabled**, and then click **OK**.

The previous troubleshooting is skipped if Microsoft SQL 2008 Express R2 (bundled with HPSIM 7.0) or Microsoft SQL Server 2008 (SP2) – 10.0.4000.0 (X64) [Express Edition] (installed locally) is used Use the Import & Export utility installed with the database. If you use this utility, skip steps 7-13 in the section Moving the database from a local to a remote server.

## Enabling remote connection on SQL Server Surface Area Configuration

- 1. Open SQL Server Surface Area Configuration.
- 2. Right-click the server and click **Facets**.

Figure 7: SQL Server 2008 Surface Area Configuration

File Edit View Debug Tools Window Community   Image: Security Image: Security Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Image: Security   Image: Security Image: Security Image: Security Im	😾 Microsoft SQL Serve	r Management Studio
New Query Image: Pause   Object Explorer Image: Pause   Image: Connect Start   Image: Pause Restart   Policies Image: Pause   Restart Policies   Policies Image: Pause   Restart Policies   Policies Image: Pause   Restart Policies   Policies Image: Pause   Start PowerShell Reports	File Edit View Del	bug Tools Window Community
Object Explorer   Connect    Image: Database	😫 New Query 🛛 🛅 🗍	),   💕 🔲 🎒   🌉 🖕
Connect Image: Im	Object Explorer	<b>→</b> ╄ ×
WIN-K4JAXS   Database   Connect   Security   Security   Replicatio   Manager   New Query   Activity Monitor   Start   Stop   Pause   Resume   Restart   Policies   Facets   Start PowerShell   Reports	Connect 🕶 📑 📑	T 🛃 🍒
Refresh Properties	<ul> <li>■ WIN-K4JAX5</li> <li> <ul> <li>■ Database</li> <li>■ Security</li> <li>■ Server O</li> <li>■ Replicatio</li> <li>■ Managen</li> </ul> </li> </ul>	Connect Disconnect Register New Query Activity Monitor Start Stop Pause Resume Resume Restart Policies Facets Start PowerShell Reports Refresh Properties

3. Select **Surface Area Configuration** in the Facet box. All services should be set to **False**.

Figure 8: SQL Server 2008 Surface Area Configuration

ect a page	Script - Help	
General		
	Facet: Journace Area Conrigurati	n
	Description: Surface area configuratio	n for features of the Database Engine. Only the features required by your bled. Disabling up used features being protect, your convert by reducing the sur
		sida, bisabiling anasoa roadaros noips prococe yoar sorver by roadaring the sar
	Facet properties:	
	21 41 22	
		Ealco
	ClrIntegrationEnabled	False
	DatabaseMailEnabled	False
	OleAutomationEnabled	False
	RemoteDacEnabled	False
	ServiceBrokerEndpointActive	False
	SoapEndpointsEnabled	False
	SqlMailEnabled	False
	WebAssistantEnabled	Property value 'WebAssistantEnabled' is not available.
	APCITIUSTICITETIONEU	Edite
onnection		
nnection WIN-K4JAX5724GV [sa] ew connection properties	AdHocRemoteQueriesEnabled	
nnection WIN-K4JAX5724GV [sa] aw connection properties ogress	AdHocRemoteQueriesEnabled The OPENROWSET and OPENDATASOURCE remote servers: Enable these functions only	functions support ad hoc connections to remote data sources without linked o
nnection WIN-K4JAX5724GV [sa] ew connection properties ogress Ready	AdHocRemoteQueriesEnabled The OPENROWSET and OPENDATASOURCE remote servers. Enable these functions only	functions support ad hoc connections to remote data sources without linked o if your applications and scripts call them.
onnection WIN-K4JAX5724GV [sa] iew connection properties rogress Ready	AdHocRemoteQueriesEnabled The OPENROWSET and OPENDATASOURCE remote servers. Enable these functions only	functions support ad hoc connections to remote data sources without linked o if your applications and scripts call them.

#### 4. Log in to SQL Server.

#### Figure 9: Connect to the server

Microsoft   Server type:   Database Engine   Server name:   WIN-K4JAX5724GV     Authentication:   User name:   WIN-K4JAX5724GV\Administrator     Password:   Remember password     Connect	Just Connect to Server		×
Server type:       Database Engine         Server name:       WIN-K4JAX5724GV         Authentication:       Windows Authentication         User name:       WIN-K4JAX5724GV\Administrator         Password:       Image: Remember password         Connect       Cancel       Help       Options >>	SQL S	<b>erver</b> <sup>•</sup> 2008	E H
Server name:       WIN-K4JAX5724GV         Authentication:       Windows Authentication         User name:       WIN-K4JAX5724GV\Administrator         Password:       Image: Remember password         Connect       Cancel       Help       Options >>	Server type:	Database Engine	◄
Authentication:       Windows Authentication         User name:       WIN-K4JAX5724GV\Administrator         Password:       Image: Remember password         Connect       Cancel       Help       Options >>	Server name:	WIN-K4JAX5724GV	•
User name: WIN-K4JAX5724GV\Administrator  Password: Remember password Connect Cancel Help Options >>	Authentication:	Windows Authentication	•
Password:  Remember password  Connect Cancel Help Options >>	User name:	WIN-K4JAX5724GV\Administrator	<b>-</b>
Remember password     Connect Cancel Help Options >>	Password:		
Connect Cancel Help Options >>		Remember password	
	Connect	Cancel Help Options >	

Figure 10: Microsoft SQL Server Management Studio



## Moving the database from a local to a remote server

- 1. Stop and disable the Systems Insight Manager service running on the local server.
- 2. Open SQL Server Management Studio on the local server:

Programs→Microsoft SQL Server 2008 SQL Server Management Studio

Figure 11: Connecting to the remote SQL Server

🛃 Connect to Server	×
SQL S	Server <sup>®</sup> 2008
Server type:	Database Engine
Server name:	WIN-K4JAX5724GV
Authentication:	Windows Authentication
User name:	WIN-K4JAX5724GV\Administrator
Password:	
	Remember password
Connect	t Cancel Help Options >>

- 3. With default settings in the Connect to Server window, click Connect.
- 4. Record the database name (for example, *Insight\_v50\_xxxxxxx*).

- 5. Create a new SQL Server 2008 database on the target database server.
  - a. Open SQL Server Management Studio on the target database server: Programs→Microsoft SQL server 2008→SQL Server Management Studio.
  - b. Right-click **Database**, and then select **New Database**.

Figure 12: Creating a database



- c. Enter the name of the database recorded in step 4, and then click **OK** with the default settings selected.
- 6. On the local database server, right-click the name of the Insight database (for example, Insight\_v50\_xxxxxxxx).

#### 7. Select Tasks→Export data.





8. In the Welcome to SQL Server Import and Export Wizard window, click Next.

Figure 14: Import and Export Wizard



9. In the **Choose a Data Source** window, use the default settings of **Windows Authentication**, or choose the authentication method you used for your database. Click **Next**.

Figure 15: C	Choose a	Data	Source
--------------	----------	------	--------

🚉 SQL Server Impor	t and Export Wizard	
Choose a Data Select the source	Source from which to copy data.	A A A A A A A A A A A A A A A A A A A
<u>D</u> ata source:	📑 SQL Native Client	•
<u>S</u> erver name:	R1L1E1B4-VM4	•
Authentication	Authentication	
O Use S <u>Q</u> L Serve	er Authentication	
<u>U</u> ser name:		
<u>P</u> assword:		
Da <u>t</u> abase:	Insight_v50_0_32951666	
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>Finish &gt;&gt;</u>	Cancel

10. In the Choose a Destination window, select the target database server from the list. Select the database created in Step 5 from the **Database** list at the bottom of the window.

Figure	16:	Choose	а	Destination
--------	-----	--------	---	-------------

🚉 SQL Server Import an	d Export Wizard	
Choose a Destinati Specify where to copy	<b>on</b> data to.	
<u>D</u> estination:	📑 SQL Native Client	•
<u>S</u> erver name:	R1L1E1B4-VM3	•
Authentication Use <u>W</u> indows Auth	entication	
Use SQL Server Au	thentication	
<u>D</u> ser name. <u>P</u> assword:		
Da <u>t</u> abase:	Insight_v50_0_32951666	N <u>e</u> w
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>Fi</u> nish >>	Cancel

11. In the Specify Table Copy or Query dialog window, select **Copy data from one or more tables or views**, and then click **Next**.

If there is any error while connecting to the remote server of the Export Wizard such as Named pipes provider could not open a connection to sql server, verify the following steps:

- a. Click Start → All Programs → Microsoft SQL Server 2008 R2 → Configuration tools → SQL Configuration Manager → SQL Native Client 10.0.
- b. Right-click Client Protocols, and then click Properties → Promote TCP/IP ahead of named pipes. Make sure this setting is enabled.
- c. Check the network name of the remote server. To eliminate network resolution issues, try to connect to the remote server from the local SQL Server machine through sqlcmd or try to set up the linked server with the IP address of the remote machine instead of the name of the remote machine.

Figure 17: Specify Table Copy or Query

📴 SQL Server Import and Export Wizard				
Specify Table Copy or Query Specify whether to copy one or more tables and views or to copy the results of a query from the data source.				
• <b>Copy data from one or more tables or views</b> Use this option to copy all the data from the existing tables or views in the source database.				
Write a query to specify the data to transfer Use this option to write an SQL query to manipulate or to restrict the source data for the copy operation.				
<u>H</u> elp <u>K</u> ack <u>N</u> ext > <u>Fi</u> nish >>  Cancel				

12. In the Select Source Tables and Views window, select the "select all" check box, and then click **Next**. A window appears.

Figure 18: Select Source Tables and Views

🔜 SQL Server Import and Export Wizard		IX
Select Source Tables and Views Choose one or more tables and views to copy.		
Tables and views:		_
Source	Destination	▲
[Insight_v50_0_32951666].[dbo].[associ	🛅 [Insight_v50_0_32951666].[dbo].[associ	
🔽 📰 [Insight_v50_0_32951666].[dbo].[authe	🛅 [Insight_v50_0_32951666].[dbo].[authe	
🔽 📰 [Insight_v50_0_32951666].[dbo].[categ	🛅 [Insight_v50_0_32951666].[dbo].[categ	
🔽 📰 [Insight_v50_0_32951666].[dbo].[Chang	🛅 [Insight_v50_0_32951666].[dbo].[Chang	
🔽 📰 [Insight_v50_0_32951666].[dbo].[CIM	[Insight_v50_0_32951666].[dbo].[CIM	
🔽 💼 [Insight_v50_0_32951666].[dbo].[CIM	🛅 [Insight_v50_0_32951666].[dbo].[CIM	
🔽 📰 [Insight_v50_0_32951666].[dbo].[CIM	[Insight_v50_0_32951666].[dbo].[CIM	
🔽 📰 [Insight_v50_0_32951666].[dbo].[CIM	[Insight_v50_0_32951666].[dbo].[CIM	
🔽 📰 [Insight_v50_0_32951666].[dbo].[CIM	[Insight_v50_0_32951666].[dbo].[CIM	
🔽 📰 [Insight_v50_0_32951666].[dbo].[CIM	[Insight_v50_0_32951666].[dbo].[CIM	
🔽 📰 [Insight_v50_0_32951666].[dbo].[CIM	[Insight_v50_0_32951666].[dbo].[CIM	
🔽 📰 [Insight_v50_0_32951666].[dbo].[CIM	[Insight_v50_0_32951666].[dbo].[CIM	
🖂 🧮 Ilasiah 050 0 220516661146a1101M	🦛 Ilasiah 050 0 22051666174651701M	
Optimize for many tables		
Bun in a transaction		
	Edit Mappings Preview	
<u>H</u> elp < <u>B</u> ack	<u>N</u> ext > <u>Fi</u> nish >>  Cancel	

13. Click Yes.

14. In the Run Package window, the **Run immediately** box is checked with an information box at the bottom of the window. Keep this default setting and click **Next**.

Figure 19: Pop-up Window

📃 SQL Server Import and Export Wiza	rd			
Run Package				
<u>R</u> un immediately				
in SQL Server Express, Web, or Work Wizard creates, but cannot save it. To SQL Server Standard, Enterprise, Dev	kgroup, you can o save package: veloper or Eivalua	run the package s that the wizard o ation.	that the Import and creates, you must i	d Export upgrade to
<u>H</u> elp	< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish >>	Cancel

#### NOTE:

The Save and Execute Package window appears if the SQL Server chosen is Standard or Enterprise. It is not applicable to SQL Server 2008 Express (installed locally) or SQL Server 2008 Express R2 (bundled with HPSIM).

Figure 20: Save and Execute Package window

🔜 SQL Server Import and Export Wizard	
Save and Execute Package Indicate whether to save the SSIS package.	
<ul> <li>Execute immediately</li> <li>Save SSIS Package</li> <li>SQL Server</li> <li>File system</li> <li>Package protection level:</li> <li>Encrypt sensitive data with user key</li> <li>Password:</li> <li>Retype password:</li> </ul>	
<u>H</u> elp < <u>B</u> ack <u>N</u> ext > <u>F</u> init	sh>>  Cancel

### Figure 21: Complete the Wizard

📃 SQL Ser	ever Import and Export Wizard 📃 🗖	×
	<b>Complete the Wizard</b> Verify the choices made in the wizard and click Finish.	
Click Fi	nish to perform the following actions:	
• The	e package will copy 371 tables.	
• The • The	) package will not be saved. ) package will be run immediately.	
<u>H</u> elp	Sext ≥ <u>Finish</u> Cancel	

15. After the tasks have completed, stop and disable the SQL Service. Data is successfully migrated from the source database server to the target database server.

🔒 sql	Server Import and Export Wizard		
Per C	forming Operation lick the Stop button to interrupt the operation.		-
	10 Remaining	11 Total 1 Success	0 Error 0 Warning
<u>D</u> eta	ills:		
	Action	Status	Message
0	Initializing Data Flow Task	Success	
۲	Initializing Connections	In progress	
	Setting SQL Command		
	Setting Source Connection		
	Setting Destination Connection		
	Validating		
	Prepare for Execute		
	Pre-execute		
	Copying Rows		
	Post-execute		
	Cleanup		
		Stop	<u>R</u> eport •
			Close

Figure 22: Performing Operation

## Systems Insight Manager Installation Directory

# Manually re-registering a new database by altering the HPSIM configuration files

- Create a backup of the database.props, database.admin, databaseadminupd.tpl and databaseupdate.tpl files located in *<installation directory>\HP\Systems* Insight Manager\config.
- 2. You must modify some settings for the new database changes in Systems Insight Manager in each of the following property files: database.props, database.admin, databaseadminupd.tpl and databaseupdate.tpl files. Update these files with the following information, and then save the files.
  - a. Change the value after hp.Database.hostName=source-server-name to targetserver-name.
  - b. Change the value after hp.Database.instancename=source-server-name \\source-instance to target-server-name\\target\_database\_instance.
  - c. If the database user account is a local user account, change the value after hp.Database.username=source-server-name to target-server-name\\username.
  - d. If moving to a different SQL server, it may use a different port. If this is the case, update the value after hp.Database.portNumber= to the new port number.
- 3. Create a backup of the hpsim-ds.xml file located in the *<installation* directory>\HP\Systems Insight Manager\jboss\server\hpsim\deploy directory. Do not place the backup file in this directory.
- 4. Modify the hpsim-ds.xml file located in the *<installation directory>*\HP\Systems Insight Manager\jboss\server\hpsim\deploy directory.
  - a. Locate the line with the <connection-url> XML tag; it will look similar the following: <connectionurl>jdbc:jtds:sqlserver://dbServerName:1433/Insight v50 0 ###; loginTimeout=20;domain=dbServerName;instance=sourceinstance</connection-url>
  - b. Change the dbServerName text from the old SQL Server host name to match the new SQL Server host name.
  - c. If moving to a different SQL server it may use a different port. If this is the case update the port number that follows the first dbServerName (for example, *dbServerName*:1433).
  - d. If the target database has a different database instance, update the instance name after the instance = parameter.
- 5. Start the Systems Insight Manager service.

# Automated re-registration of a database by executing the <code>mxreconfig</code> command

# mxreconfig -m sqlredirect -s dbserver -b dbname -a dbuserDomain\dbuser -p dbport

The path for executing the mxreconfig command is as follows:

<Installed Directory>\HP\System Insight Manager\mxreconfig\bin

- -m (mode option specifies reconfiguration mode)
- -s (dbserver parameter name of the new database server)
- -b (dbname parameter name of the new database)
- -a (dbuser parameter name of the database user with administrative privileges; must include domain name)
- -p (dbport parameter port number to access the new database server)

## For more information

For more information on Systems Insight Manager, visit the HP website (<u>http://www.hp.com/go/hpsim</u>).

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