

Tech Note

Introduction

Many customers inquire whether Viewpoint will work with Microsoft SQL Server 2000 (MS SQL Server). Viewpoint can be configured to run with MS SQL Server, but **SonicWALL does not provide any technical support for this configuration**. Due to the number of inquiries, this document is provided only as a courtesy to our advanced SQL Server savvy customers that want to use this configuration. This document presents a procedure to remove the MSDE database from Viewpoint and configure it to use a new MS SQL 2000 Server database.

Important Disclaimer! SonicWALL Viewpoint 2.x uses a Microsoft MSDE database which is included with the purchase. MS SQL license must be purchased separately for use with Viewpoint. SonicWALL will only provide Technical Support for configurations using the included MSDE database. SonicWALL will not provide Technical Support for Viewpoint installations configured to use MS SQL Server. It is recommended that you have the technical expertise to install, maintain, backup and recover the MS SQL 2000 Server database before proceeding with this configuration.

The procedure in this document shows how to configure a Viewpoint with a new MS SQL database. The procedure does not include import of existing data from the existing MSDE database. SonicWALL will not provide any support to migrate data from MSDE to MS SQL.

Note: Ensure you apply the latest patch/service-pack to the SQLServer 2000 installation. There are known issues with the unpatched version of SQLServer 2000.

Procedure

- 1) Ensure the product is completely installed and the system is rebooted.
- 2) Stop all SNWL ViewPoint services.
- 3) Stop and disable the MSDE service SQLAgent\$SNWL. To disable the MSDE service SQLAgent\$SNWL, right click on the service; select Properties; select the Disabled option from the Startup Type menu; and click Apply.
- 4) Stop and disable the MSDE service MSSQL\$SNWL. To disable the MSDE service SQLAgent\$SNWL, right click on the service; select Properties; select the Disabled option from the Startup Type menu; and click Apply.
- 5) Backup the existing c:\sgmsConfig.xml.

Tech Note

- 6) SGMS uses the username/password found in the sgmsConfig.xml file, and the username/password found in Tomcat's web.xml file to access the database. The username and password are encrypted, so we need to encrypt the new username and password that you want to use, and replace it in these files.
 - a. Encrypt the new username and password
 - i. Change to the <viewpoint_directory>bin directory and use the TEAV.class utility to create the new encrypted strings. Run the following commands and save the encrypted strings for the next steps:
 1. ..\jre\bin\java -cp . TEAV <username>
 2. ..\jre\bin\java -cp . TEAV <password>
 - b. Replace the entries in the sgmsConfig.xml file as follows:
 - i. Find and open 'c:\sgmsConfig.xml'
 - ii. Search for: <Parameter name="dbuser". In the value="xxxx" portion of this string, replace the 'xxxx' with the newly encrypted username string generated with the java command.
 - iii. Search for: <Parameter name="dbpassword". In the value="xxxx" portion of this string, replace the 'xxxx' with the newly encrypted password string generated with the java command.
 - c. Replace these same values in Tomcat's web.xml file.
 - i. Find and open <viewpoint_directory>\Tomcat\webapps\sgms\WEB-INF\web.xml
 - ii. Search for: <param-name>dbuser</param-name> Replace the value between the <param-value> tag below to be the newly encrypted username string.
 - iii. Search for: <param-name>dbpassword</param-name> Replace the value between the <param-value> tag below to be the newly encrypted password string.

- 7) Edit c:\sgmsConfig.xml and modify the following lines:

```
<Parameter name="dbhost" value="127.0.0.1\SNWL"/>  
<Parameter name="dburl" value="jdbc:inetdae7a:127.0.0.1/SNWL"/>  
<Parameter name="dbuser" value="BAB7E1B9875CF081"/>  
<Parameter name="dbpassword" value="EE80851182B4B962FC3E0EDF1F00275A"/>
```

to

```
<Parameter name="dbhost" value="127.0.0.1"/>  
<Parameter name="dburl" value="jdbc:inetdae7a:localhost:1433"/>  
<Parameter name="dbuser" value="Username"/>  
<Parameter name="dbpassword" value="Password"/>
```

Note: Replace 127.0.0.1 and localhost if the SQLServer 2000 database is running on a remote machine and not on the ViewPoint server.

Note: Replace Username and Password with the encrypted strings generated earlier with the java command in step 6.

- 8) Backup the existing <viewpoint_directory>\Tomcat\webapps\sgms\WEB-INF\web.xml.



Tech Note

- 9) Edit <viewpoint_directory>\Tomcat\webapps\sgms\WEB-INF\web.xml and modify the following lines:

```
<param-name>dbhost</param-name>
<param-value>127.0.0.1\SNWL</param-value>
<param-name>dburl</param-name>
<param-value>jdbc:inetdae7a:127.0.0.1/SNWL</param-value>
<param-name>dbuser</param-name>
<param-value>BAB7E1B9875CF081</param-value>
<param-name>dbpassword</param-name>
<param-value>EE80851182B4B962FC3E0EDF1F00275A</param-value>
```

to

```
<param-name>dbhost</param-name>
<param-value>127.0.0.1</param-value>
<param-name>dburl</param-name>
<param-value>jdbc:inetdae7a:localhost:1433</param-value>
<param-name>dbuser</param-name>
<param-value>Username</param-value>
<param-name>dbpassword</param-name>
<param-value> Password </param-value>
```

Note: Replace localhost and 127.0.0.1 if the SQL Server 2000 database is running on a remote machine and not on the ViewPoint server.

Note: Replace Username and Password with the encrypted strings generated earlier with the java command in step 5.

- 10) Backup the existing <viewpoint_directory>\SQL\bldMSDB.bat.
- 11) Go to the SQL Server 2000 Database. Before installing SonicWALL Viewpoint using Microsoft SQL Server 2000, complete the following procedure:
- Install Microsoft SQL Server 2000 on a server.
 - When prompted, select "Create a new instance of SQL Server, or install Client Tools" option.
 - When prompted, select the "Server and Client Tools" option.
 - When prompted, select the "Typical" setup type.
 - When prompted for an authentication mode during SQL Server 2000 installation, make sure to select **Mixed Mode**. Do not select **Windows Authentication Mode**. After successfully installing SQL server 2000, Service Pack 4 or later needs to be applied.
 - Once the database is installed, click **Start**, point to **Programs**, point to **Microsoft SQL Server**, and click **Enterprise Manager**.
 - Expand the Security tree. Right-click **Logins** and select **New Login**.
 - Create a SonicWALL Viewpoint database user (The non-encrypted text of the username you decided on in step 5 with the java command). For this database user, select the **SQL Server Authentication** mode option and enter the non-encrypted password for this user. Make sure to assign this user the **Database Creator** server role.
 - Exit from the SQL Server Enterprise Manager.



Tech Note

12) Edit <viewpoint_directory>\SQL\bldMSDB.bat and add values to the following lines:

```
SET USER=<Username>
SET PASSWORD=<Password>
SET DBHOST=<add the IP address of the SQLServer server here>
Search for the string "127.0.0.1\SNWL" in the bldMSDB.bat, replacing all these strings with
"%DBHOST%".
```

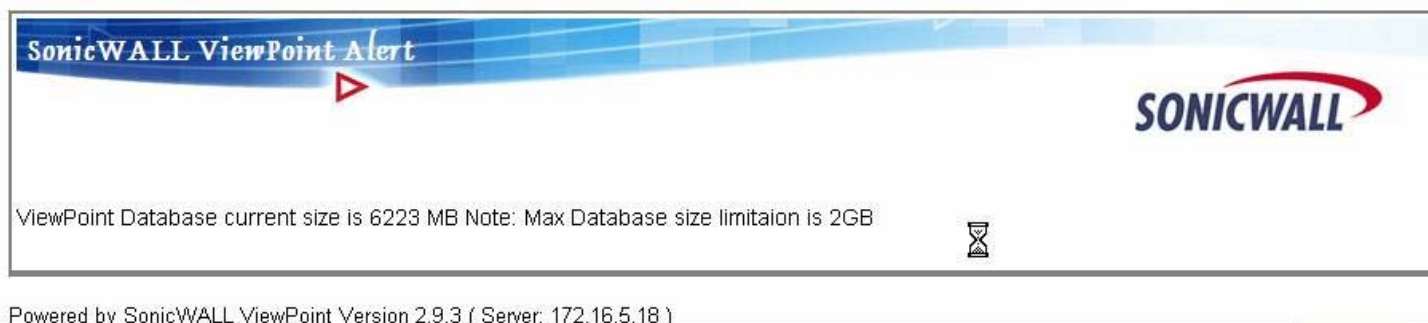
Note: Replace Username and Password with the clear-text (non-encrypted) strings of user name and password.

13) From the DOS prompt, in the <viewpoint_directory>\SQL directory, run the new bldMSDB.bat to create the ViewPoint objects.

14) Restart all SNWL ViewPoint services.

15) Confirm that the SGMSDB database is created in the SQLServer.

16) In the database health check alert message, viewpoint sends an alert message like the following:



This message can be safely ignored when ViewPoint works with SQL server 2000. There is no longer a 2GB limitation.

Last Updated: 8/09/05

