

ServerObserver

Network Monitor 5.0

ServerObserver Network Monitor 5.0 Guide book

April 20, 2007

Overview

The scope of the **ServerObserver Network Monitor 5.0 Guide book** is limited to information about the installing and configuration of *SONM* and does not include information about monitoring specific applications or services using *SONM*.

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SERVEROBSERVER NETWORK MONITOR 5.0

System Requirements

Hardware

1. Intel Pentium III Class CPU (500Mhz or higher)
2. 256MB recommended
3. 300MB recommended

Operation System

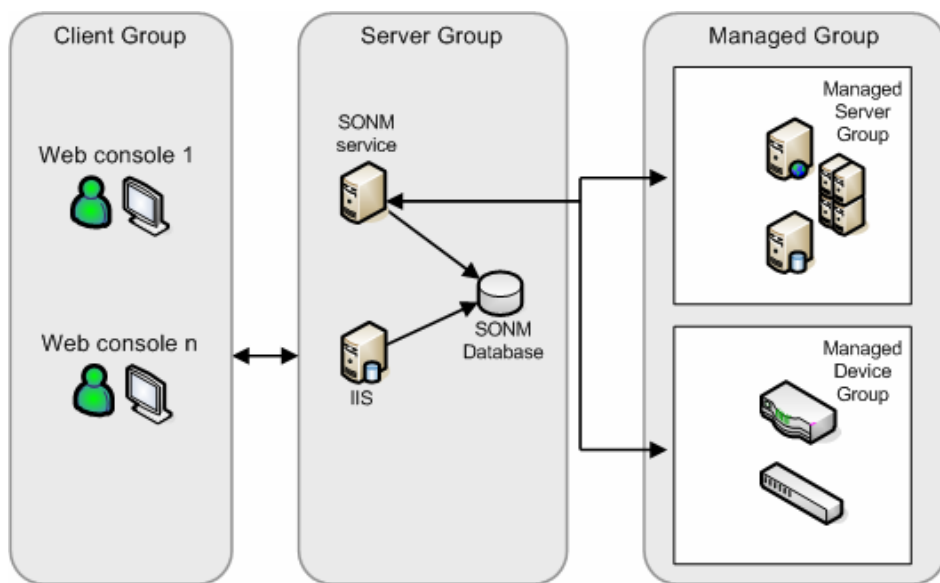
1. Microsoft Windows 2000 Pro/Server
2. Microsoft Windows XP Pro
3. Microsoft Windows Server 2003 Family

Application

1. Microsoft Internet Explorer 6.0+, FireFox 1.0+ (Windows Version) – for Web access
2. IIS 5.x+ (with .NET Framework 2.0) – for operating [WebStation](#)

System structure

ServerObserver Network Monitor™ System consists of [Server Group](#), [Client Group](#), and [Managed Group](#).



Client Group

- Internet Explorer or Firefox, the administrator and operator console.

Server Group

- The basic management unit is the Server Group that includes one SONM

-
- database, one ServerObserver Network Monitor service and one Web server.
- ServerObserver Network Monitor service – It collects and analyzes the performance counter. If problems occurred, it triggers the actions.
 - Database – The Microsoft SQL Server™ server or MSDE2000 that stores configuration information and operations data that is produced by the monitoring process.
 - Web server – The Microsoft Internet Information Server™ that provides the console.

Managed Group

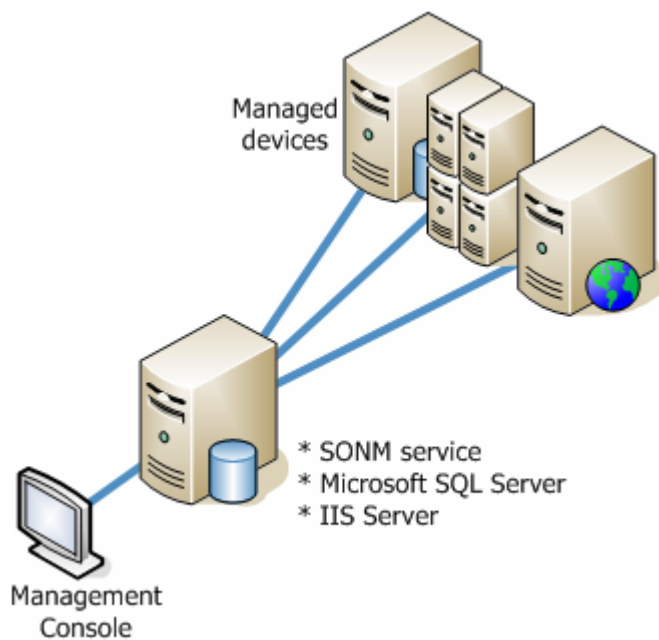
- The managed devices that is, Linux, UNIX, Windows and Network devices.

DEPLOYMENT

This chapter explains how to use this guide book to deploy ServerObserver Network Monitor™.

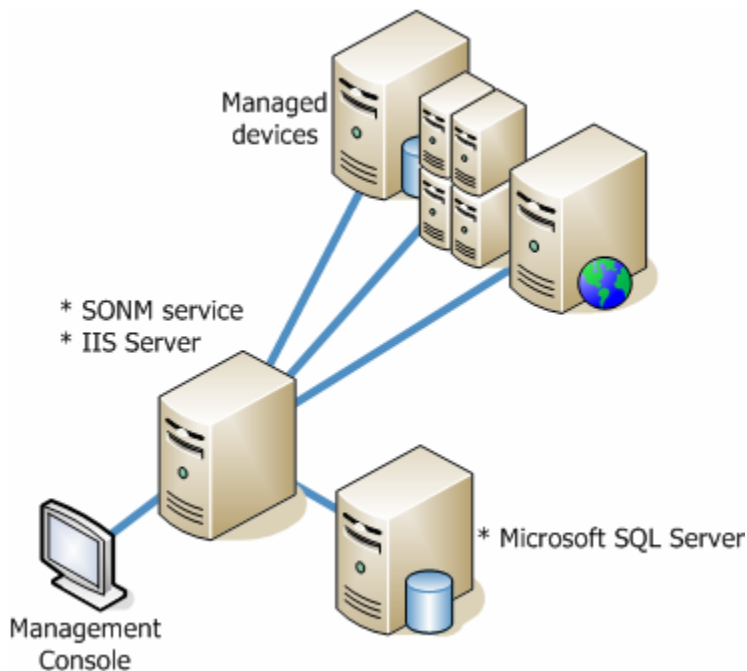
Simple deployment

- If you have less than 100 devices to manage, you can accomplish this by installing all SONM components on a single computer.



Typical deployment

- If the number of managed devices grows, you can expand your server group by installing the Microsoft SQL Server on separate computer.



INSTALL

There are two install files. One installs the ServerObserver Network Monitor service. Another installs the web console.

Server Suite

The Server Suite contains the main engine and related files. The ServerObserver Network Monitor service which is the NT service collects the performance counter data and analyzes these data.

The SONM uses the SQL Server 2000 or MSDE 2000 (Microsoft SQL Server Desktop Engine 2000) for storing the data.

Refer to the [Installing MSDE 2000](#) chapter for further details.

WebStation Suite

The WebStation Suite contains the web console application which is based on the .NET Framework 2.0. So you must install the .NET Framework 2.0 before installing this suite.

Refer to the [Initializing WebStation](#) chapter for further details.

Installing MSDE (Microsoft SQL Server Desktop Engine) 2000

Download MSDE 2000

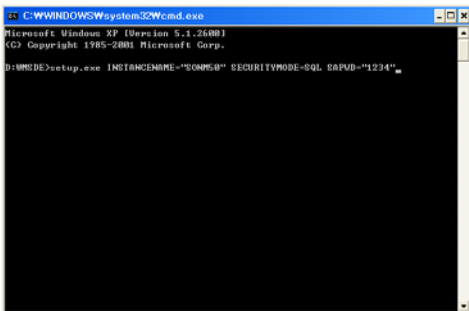
Download the install file from the MSDE 2000 homepage. Ctrl + Click the below link and change your language from the [Change Language] combo box.

<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=8e2dfc8d-c20e-4446-99a9-b7f0213f8bc5>

Click **SQL2000.MSDE-KB884525-SP4-x86-ENU.EXE** download button in the bottom of the page

Install

- Execute the downloaded file. Then it makes the folder and unzips.
- Change the current directory and execute the following command.
- `setup.exe INSTANCENAME="SONM50" SECURITYMODE=SQL SAPWD="1234"`
- **INSTANCENAME** – If there were another Microsoft SQL Server or MSDE2000 on the same computer, you might need to install for a named instance. Specify the named instance of the MSDE2000. If you specified the instance name is SONM50, its service name is **MSSQL\$SONM50**. When you connect to this MSDE2000, you must type the SQL Server name is **computer_name SONM50**.
- **SECURITYMODE** – Specify the authentication mode based on Windows accounts and a named SQL Server login ID and password. You might need to specify **SQL** because the SONM does not support the authentication mode based on Windows accounts.
- **SAPWD** – Specify the strong **sa** password.



[CAUTION 1] The ServerObserver Network Monitor service depends on the SQL Server. It is important to verify that the SQL Server is running successfully before running the ServerObserver Network Monitor service.

[CAUTION 2] When uninstall the MSDE 2000, it does not delete the database you added. Refer to the http://download.microsoft.com/download/1/B/D/1BDF5B78-584E-4DE0-B36F-C44E06B0D2A3/ReadmeSql2k32desksp4.htm#_uninstalling_sp4 for further details.

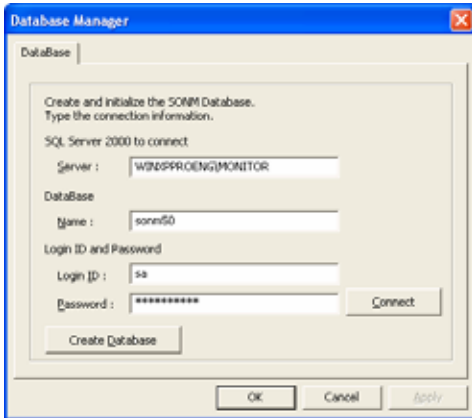
[MSDE 2000 Product Information] Refer to the <http://www.microsoft.com/sql/prodinfo/previousversions/msde/prodinfo.msp>

Connect to the Database

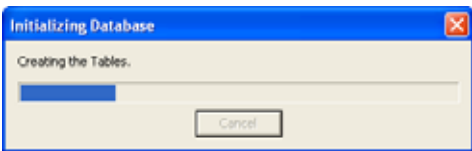
When the SONM installing finished, you must specify the connection information.

Initialize the Database

Click **Start**, click **All Programs**, click **ServerObserver 5** and click **Database Manager**.



- **Server** – Type the SQL Server to connect. Specify the **IP** or **NetBIOS** name to connect to the SQL Server 2000 with no named instance. Specify the **computer_name Instance_name** to connect to the MSDE 2000 with named instance.
- **Name** – Specify the database name. For example, **SONM50**.
- **Login ID/Password** – Specify the SQL Server login ID and password.
- **Connect** – Try to connect.
- **Create Database** – Creates the database, tables, views and stored procedures and initializes.
- When finished, click **OK** button and **restart** the ServerObserver Network Monitor service.



Initialize WebStation

You might need to initialize the **WebStation** after installing. The WebStation is the web console application which is based on the .NET Framework 2.0.

Download .NET Framework 2.0

Download the setup files at

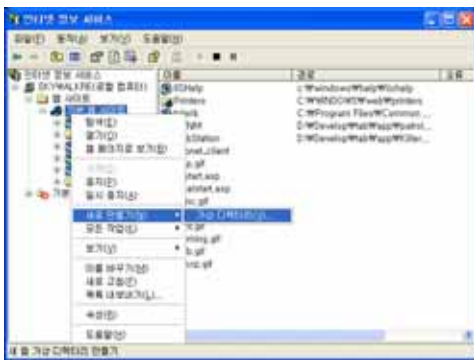
<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5&DisplayLang=en>

Install .NET Framework 2.0

Install the .NET Framework 2.0.

Add a virtual directory

Click **Start**, click **Control Panel**, click **Administrative Tools** and click **Internet Information Services**.



- Right click the **Default Web Site** and select **New /Virtual Directory**.
- Type the **Alias** is **WebStation**.
- Type the **Directory** is **Install_Path WebStation**.
- Set **Read** and **Run scripts** permission for the virtual directory.
- Specify the default document is **Default.aspx**.
- Specify the .NET Framework version if you are running one or more .NET Frameworks.
- Rename the **Install_Path WebStation Web.Config.x86** to **Web.Config**.
- Open this file by using the Notepad.
- Edit the **connectionString** property of the **add** tag.

```
<?xml version="1.0"?>
```

```
<configuration>
```

```
...
```

```
<connectionStrings>
```

```
  <add name="SONM50"
```

```
    connectionString="Server=(LOCAL);Database=SONM50;UID=sa;PWD=1234"
    providerName="System.Data.SqlClient"/>
```

```
</connectionStrings>
```

```
...
```

-
- Refer to the [Initialize the Database](#) chapter.

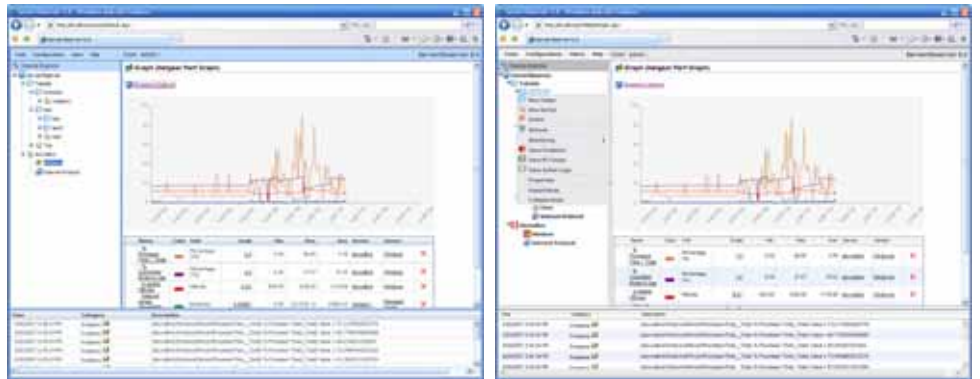
Connect to the WebStation

When finished, connect to the <http://localhost/webstation> page.

Basically, you can only login by **admin** account. The password is **sonnm**.

Note. Please change the password after login. Click “Change password” from the Users menu..

Theme – The users can change the theme when login.



Browser Support

Internet Explorer 6.0+

FireFox 1.0+

- JavaScript must be enabled on all browsers
- Caching on Internet Explorer must be activated
- Browser scripting on Internet Explorer must be enabled