



IPSWITCH

Installing and Configuring WhatsUp Gold

This guide provides information about installing and configuring WhatsUp Gold v15.0



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System Requirements

Operating system and virtual environment requirements

Ipswitch supports WhatsUp Gold operating on the following Windows operating systems:

- Microsoft Windows 7 Ultimate edition (32-bit and 64-bit)
- Microsoft Windows Vista Ultimate edition with Service Pack 2 (32-bit and 64-bit)
- Microsoft Windows Vista Business edition with Service Pack 2 (32-bit and 64-bit)

Ipswitch supports WhatsUp Gold operating on the following Windows Server platforms:

- Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2008
- Microsoft Windows Server 2003

WhatsUp Gold will operate on any supported operating system on the following hypervisor architectures:

- VMware ESX versions 3.5, 4.0
- VMware ESXi versions 3.5, 4.0, and 4.1
- Microsoft Hyper-V Server 2008 R2



Important: If WhatsUp Gold is hosted on VMWare ESX, ESXi or Microsoft Hyper-V Server 2008, to avoid licensing issues, make sure that you assign a static MAC address to the virtual machine that WhatsUp Gold is operating on.

Database requirements

WhatsUp Gold requires a database to maintain data about monitored devices, store system configurations, and save user specified customizations. The database may be co-located with the WhatsUp Gold installation, or may be hosted on a remote machine. Data services for WhatsUp Gold can be provided by the following database servers:

If you install WhatsUp Gold on:	You have these database options:			
	Microsoft SQL Server 2005 Express Edition 32-bit Local/Remote	Microsoft SQL Server 2005 Standard or Enterprise 32-bit or 64-bit Local/Remote	Microsoft SQL Server 2008 or 2008 R2 Standard or Enterprise 32-bit or 64-bit Local/Remote	Microsoft SQL Server Cluster 2005, 2008, or 2008 R2 Enterprise or Datacenter 32-bit or 64-bit Remote only
Windows 7 Ultimate	●	●	●	
Windows Vista Ultimate (SP2 recommended)	●	●	●	
Windows Vista Business (SP2 recommended)	●	●	●	
Windows Server 2003 SP2	●	●	●	●*
Windows Server 2003 R2 SP2	●	●	●	●*
Windows Server 2008 SP2	●	●	●	●
Windows Server 2008 R2	●	●	●	●

*Windows Enterprise or Datacenter



Important: If using Microsoft SQL Server Cluster 2005, 2008, or 2008 R2, WhatsUp Gold must be configured to use a remote database. Installing WhatsUp Gold on the same server as the database cluster is not supported.



Important: WhatsUp Gold does not support non-English versions of Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2.



Warning: WhatsUp Gold will not function properly if the 'no count' option for the SQL Server instance which hosts the WhatsUp Gold database or the replication feature of the SQL Server for the WhatsUp Gold database is enabled.

Web server requirements

Web services are required for the web-enabled functionality and reporting provided by WhatsUp Gold. These services are provided by one of the following web servers:

If you install WhatsUp Gold on: This IIS version will be used:

	IIS version 7	IIS version 6
Windows 7 Ultimate	●	
Windows Vista Ultimate (SP2 recommended)	●	
Windows Vista Business (SP2 recommended)	●	
Windows Server 2003 SP2		●
Windows Server 2003 R2		●
Windows Server 2008 SP2	●	
Windows Server 2008 R2	●	

The following is a list of the supported web servers and specific requirements for each version:

- Microsoft Internet Information Services (IIS) version 7 (Use with WhatsUp Gold on Windows Server 2008 R2, Windows Server 2008, Windows 7, or Windows Vista). WhatsUp Gold requires the following Web Server (IIS) Role Services at a minimum:
 - Web Server
 - ASP
 - Static Content
 - HTTP Redirection
 - Default Document



Note: The installation program will automatically install IIS 7 on platforms where it is supported, you can then verify that IIS 7 is installed and properly configured from the Turn Windows Features on or off dialog. (**Control Panel > Programs and Features > Turn Windows Features on or off**) Verify that **Web Server, ASP, Static Content, HTTP Redirection, and Default Document** Web Server (IIS) Roles Services have been installed and are enabled.

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- Microsoft IIS version 6 (Use with WhatsUp Gold on Windows Server 2003). WhatsUp Gold requires the following web server extensions:
 - ASP



Note: You must manually install IIS 6, using instructions provided in the Microsoft Windows documentation included with your operating system or the Installing and Configuring WhatsUp Gold guide.

Framework and accessibility requirements

WhatsUp Gold requires the Microsoft .NET Framework and other Microsoft packages in support of scripting and software accessibility. The following is a list of the required software framework and support packages:

- Microsoft .NET Framework 4.0, included in installation program
- Microsoft .NET Framework 3.5 and Microsoft .NET Framework 2.0, required by the installation program.



Important: Microsoft .NET Framework 3.5 and Microsoft .NET Framework 2.0 must be installed prior to running the installation program.

- Microsoft Windows Scripting Host v5.7 (or later)
- Microsoft SAPI 5.1 (required for Text-to-Speech actions)

Web and mobile interface requirements

The following web clients and mobile device interfaces are supported for use by WhatsUp Gold:

- WhatsUp Gold Web interface: Microsoft Internet Explorer 7.0, Microsoft Internet Explorer 8.0, Microsoft Internet Explorer 9.0, Firefox 3.6.x, Firefox 4.0, or Chrome 9.x
- WhatsUp Gold Mobile interface: Mobile Safari 2.2, Safari, 3.0, and Safari 4.0; Microsoft Internet Explorer Mobile 6.1.x, or Opera Mini 4.2

WhatsVirtual supported virtual environments

The WhatsVirtual plug-in supports virtual hosts and virtual machines running on the following virtual environments:

- VMware vCenter Server 4.0 and 4.1
- VMware ESX versions 3.5 and 4.0
- VMware ESXi 3.5, 4.0, and 4.1

Flow Monitor software requirements

WhatsUp Gold Flow Monitor has the same base system requirements as Ipswitch WhatsUp Gold v15. In addition, WhatsUp Gold Flow Monitor requires:

- Ipswitch WhatsUp Gold v15 Standard Edition, Premium Edition, MSP Edition, or Distributed Edition
- At least one routing device that supports NetFlow versions 1, 5, 7, and 9
- or -
At least one routing device that supports sFlow versions 2 and 5



Note: WhatsUp Gold Flow Monitor performs well in most installations that use SQL Server 2005 Express. However, some large data collections, that require 4 GB of data storage or more or where data is collected and archived over a long period of time, may require 32-bit MS SQL Server 2005 Standard or Enterprise Edition, 32-bit or 64-bit Microsoft SQL Server 2008 or 2008 R2 Standard or Enterprise Edition, or 32-bit or 64-bit Microsoft SQL Server Cluster 2005, 2008, or 2008 R2 (all editions except Microsoft SQL Server Express edition).

Hardware requirements and recommendations

The following hardware requirements provide a minimum baseline for choosing hardware to support your WhatsUp Gold installation.

	Recommended	Required
Processor(s)	WhatsUp Gold: Dual-core Flow Monitor: Quad-core	WhatsUp Gold: Single-core Flow Monitor: Dual-core
Processor speed	2 GHz or more	2 GHz
RAM	WhatsUp Gold: 4 GB Flow Monitor: +4 GB	WhatsUp Gold: 2 GB Flow Monitor: +2 GB
Hard drive space for application, SQL Server Express Edition database application, and supporting framework	3 GB	2 GB
Hard drive space for database and database logs	WhatsUp Gold: 8 GB or more Flow Monitor: +16 GB or more	WhatsUp Gold: 4 GB Flow Monitor: +8 GB
Network interface card	1 Gbps	100 Mbps
CD-ROM or DVD-ROM	Required if installing from CD-ROM. Not required for download installations.	Required if installing from CD-ROM. Not required for download installations.
Video display resolution	1280 x 1024 or higher	1024 x 768
Sound card	SAPI-capable sound card required for Text-to-Speech actions	Not required
Modem and phone line	Required for pager, SMS, and beeper actions; modem pooling is not supported	Not required
GSM modem	Required for SMS Direct actions	Not required

Installing WhatsUp Gold using WhatsUp Setup



Note: The *Release Notes* (<http://www.whatsupgold.com/WUG15relnotes>) contain the most up-to-date information about installing WhatsUp Gold. Read the release notes prior to installing to be aware of any potential installation issues.



Note: If you are installing WhatsUp Gold on a Windows 2003 Server, you must first install IIS 6.0 on the server prior to running the installation utility. For information on how to install and configure IIS, see *Installing IIS on Windows Server 2003* (on page 25).

Before installing WhatsUp Gold

Installing WhatsUp Gold is a simple straightforward process, however there are several decisions that you must make, and options that you should be aware of before you install WhatsUp Gold.

- You can choose to use either the bundled Microsoft SQL Server 2005 Express Edition, installed by the WhatsUp Gold installation program, or an existing Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2 to store the data collected by WhatsUp Gold. See *Installing WhatsUp Gold using advanced options* (on page 12) for more information.
- You can choose to create and use a SQL Server user account other than the recommended 'sa' SQL Server account. See *Installing WhatsUp Gold* (on page 9) for more information.



Important: If you want to change the SQL Server user account, the account you want to use must have the same permissions as the 'sa' account. The password you create must meet any password complexity rules enforced by the local server or domain.

- You can choose to use port 80 or some other port for the WhatsUp Gold web site that is created and runs on the IIS web server. See *Installing WhatsUp Gold* (on page 9) for more information.



Note: It is recommended that port 80 be used for the WhatsUp Gold web site. If another port number is used, the URL for the WhatsUp Gold web site will require that port number to be appended to the hostname or IP address when forming the URL. For example if you chose 8888 as the port number instead of 80 your URL for a WhatsUp Gold install on the local host would be: `localhost/nmconsole:8888`



Note: If port 80 is used by a current IIS web site, you must either allow WhatsUp Gold to disable that web site and take over port 80, or choose another port.

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- You can choose to use a non-default database name for the WhatsUp Gold and Flow Monitor databases. See *Installing WhatsUp Gold using advanced options* (on page 12) for more information.



Note: The default database name for the WhatsUp Gold database is `WhatsUp`, the default name for the Flow Monitor database is `Netflow`, and the default name for the Flow Monitor Archive database is `NFArchive`.



Note: The Netflow Archive database will use the Flow Monitor database name with the letters 'Ar' appended to the end. If you have changed the Flow Monitor database name to `NetFlowDB`, the NetFlow Archive database will be `NetFlowDBAr`.

- You can choose to create a non-default Windows user account for WhatsUp Gold (default: `WhatsUpGold_User`). See *Installing WhatsUp Gold using advanced options* (on page 12) for more information.
- You can choose to use Windows Authentication to access an existing remote Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2. See *Using Windows Authentication for remote database access* for more information.



Note: The installation instructions in this document apply only to WhatsUp Gold Standard Edition and WhatsUp Gold Premium Edition. For installation instructions for WhatsUp Gold Distributed Edition or WhatsUp Gold MSP Edition, see *WhatsUp Gold Distributed Edition Deployment Guide* (<http://www.whatsupgold.com/WUG15dsdg>) or *WhatsUp Gold MSP Edition Deployment Guide* (<http://www.whatsupgold.com/WUG15mspdg>).

Running WhatsUp Setup

The WhatsUp Setup program allows you to license and install all of your WhatsUp software using a single interface. After you have selected the products you want to install, the WhatsUp Setup program calls each of the individual product installation programs. Once all of the installation programs have successfully completed their installations, the WhatsUp Setup program closes.

To run the WhatsUp Setup program:

- 1 Log in directly to Microsoft Windows using the *Administrator* account (if you do not have an account called *Administrator*, use an account that has full administrative privileges to the computer).



Caution: We do *not* recommend using Terminal Services or Remote Desktop to install any WhatsUp product.

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- 2 Start the WhatsUp Setup:
 - If you downloaded an electronic version of the WhatsUp Setup, double-click on the downloaded file.
 - If you purchased a WhatsUp Setup CD-ROM, insert the CD-ROM into the appropriate drive. If it does not run automatically, click **Start**, select **Run**, then enter the CD path followed by `AutoRun.exe` (for example, `D:\AutoRun.exe`).

The Install Options dialog appears.

- 3 Select the products you want to install.



Note: The WhatsUp Setup program detects any currently installed Ipswitch WhatsUp branded software and determines which installation options are available (**New Installation, Upgrade, Repair or Un-install**). This information is displayed to the right of the product name and version.

- 4 Click **Next**. The License Information dialog appears.
- 5 Enter your WhatsUp Gold Activation Key or select an alternative activation method.



Note: You must enter your Activation Key made up of the Serial Number and the Username And Password (UAP) appended to the end of your Serial Number, which combined are a total of 23 characters.



Note: If you are installing using the installation application downloaded from the web link provided in the purchase confirmation email, the Activation Key box will be pre-populated with your Activation Key.

The following is an example of an activation key, which is made up of the serial number and UAP and the to be entered in **Activation Key**.

Serial Number (15 characters)	UAP (8 characters)	Activation Key (23 characters)
01MTBDK5TN99NQ1	XKQKC966	01MTBDK5TN99NQ1XKQKC966

Click **Next**. The Installation Summary screen appears.

- 6 Read the product installation list to ensure that the products and versions you want to install are going to be installed by the WhatsUp Setup.
- 7 Click **Next**. The WhatsUp Setup invokes the installation program for each of the products you selected for installation.



Note: Each product's install program will be invoked and will run separately. For more information, see the install instructions for the products you selected for installation.

When all of the selected products have been installed, the Installation Complete dialog appears.

- 8 Click **Finish**. The WhatsUp Setup closes.

Installing WhatsUp Gold



Note: The installation instructions in this document apply only to WhatsUp Gold Standard Edition and WhatsUp Gold Premium Edition. For installation instructions for WhatsUp Gold Distributed Edition or WhatsUp Gold MSP Edition, see *WhatsUp Gold Distributed Edition Deployment Guide* (<http://www.whatsupgold.com/WUG15dsdg>) or *WhatsUp Gold MSP Edition Deployment Guide* (<http://www.whatsupgold.com/WUG15mspdg>).



Note: If you are installing WhatsUp Gold on a Windows 2003 Server, you must first install IIS 6.0 on the server prior to running the installation utility. For information on how to install and configure IIS, see *Installing IIS on Windows Server 2003* (on page 25).



Note: To launch the WhatsUp Gold installation program, you must run the WhatsUp Setup. For more information see *Running WhatsUp Setup* (on page 8).

To install WhatsUp Gold using the installation program:

- 1 Read the Welcome screen.



Tip: Click a link to view a Help resource.

Click **Next**. The License Agreement dialog appears.

- 2 Read the license agreement. If you accept the terms of the license agreement, select **I accept the terms of the license agreement**.
 - To print a copy of the license agreement, click **Print**. The license agreement is sent to the default printer.
 - If you do not accept the terms of the license agreement, click **Cancel** to exit the installation program.

Click **Next** to continue. The Enter Microsoft SQL Server 2005 Express Edition Paths dialog appears.

- 3 Select the install directories for Microsoft SQL Server 2005 Express Edition. The application and data files are installed in default directories. To change the locations, click **Browse** to find and select a different directory for the application files or the data files.



Important: Make sure that you have a large capacity drive selected for data storage. The data files for WhatsUp Gold can reach a maximum size of 22 GB.



Important: During the initial installation, databases are created for WhatsUp Gold Flow Monitor. These initial databases are limited in size, but are increased the first time the Flow Monitor collector initializes. If at least 16 GB of disk space are available when the collector initializes, the maximum size of the Flow Monitor databases is increased to 4 GB each (16 GB total including transaction logs). If less than 16 GB is available, the maximum size of the Flow Monitor databases is limited proportionately to the amount of free disk space. If your license includes WhatsUp Gold Flow Monitor, we strongly recommend that you verify that you have at least 16 GB of free disk space before installing.

Click **Next**. The Specify the SQL "sa" Account Password dialog appears.



Important: If you want to change the SQL Server user account, the account you want to use must have the same permissions as the 'sa' account. The password you create must meet any password complexity rules enforced by the local server or domain.

- 4 Specify a **User Name** for the account and enter and confirm a **Password**. You also have the option to **Keep the default password**.

Click **Next**. The WhatsUp Gold installation directory dialog appears.

- 5 Select the installation directory for the WhatsUp Gold application files.

The default path is C:\Program Files\Ipswitch\WhatsUp. We recommend that you use the default path. After you select the installation directory, click **Next**. The Choose Port dialog appears.



Tip: The Program Files directory path may vary if on a 64 bit system (for example, Program Files (x86)). You can install WhatsUp Gold to a different location. To select a different location, click **Change**.



Note: If the installation program detects data from a previous installation of WhatsUp Gold, the Backup Web and Report Files dialog appears. We recommend that you select **Back up the existing Web and report files**, then click **Next**.

- 6 Choose a TCP port for the WhatsUp Gold web site. The installation program creates an IIS web site using this port. The default port is 80.



Note: It is recommended that port 80 be used for the WhatsUp Gold web site. If another port number is used, the URL for the WhatsUp Gold web site will require that port number to be appended to the hostname or IP address when forming the URL. For example if you chose 8888 as the port number instead of 80 your URL for a WhatsUp Gold install on the local host would be: localhost/nmconsole:8888



Note: If port 80 is used by a current IIS web site, you must either allow WhatsUp Gold to disable that web site and take over port 80, or choose another port.

Click **Next**. The Ready to Install the Program dialog appears.

- 7 Click **Install**. The WhatsUp Gold install program begins the installation.

When the installation program completes, the InstallShield Wizard Complete dialog appears.

Click **Finish**. The setup program closes. The WhatsUp Setup will appear, and the WhatsUp Gold Web interface will appear.

Installing WhatsUp Gold using advanced options



Note: The installation instructions in this document apply only to WhatsUp Gold Standard Edition and WhatsUp Gold Premium Edition. For installation instructions for WhatsUp Gold Distributed Edition or WhatsUp Gold MSP Edition, see *WhatsUp Gold Distributed Edition Deployment Guide* (<http://www.whatsupgold.com/WUG15dsdg>) or *WhatsUp Gold MSP Edition Deployment Guide* (<http://www.whatsupgold.com/WUG15mspdg>).



Note: If you are installing WhatsUp Gold on a Windows 2003 Server, you must first install IIS 6.0 on the server prior to running the installation utility. For information on how to install and configure IIS, see *Installing IIS on Windows Server 2003* (on page 25).



Note: To launch the WhatsUp Gold installation program, you must run the WhatsUp Setup. For more information see *Running WhatsUp Setup* (on page 8).

The WhatsUp Gold installation program provides advanced options that allow you to:

- Use an existing Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2 to store the data collected by WhatsUp Gold.
- Change the WhatsUp Gold and Flow Monitor database names.



Note: You can only change the default database names during the initial WhatsUp Gold installation. You cannot change the names of these databases following the initial installation.



Note: The default database name for the WhatsUp Gold database is *WhatsUp*, and the default name for the Flow Monitor database is *Netflow*.

- Create a new Windows user account for WhatsUp Gold and add the user to the local administrators group.



Note: The Windows user created during this step will enable all applications launched from the WhatsUp Web Interface through IIS to run and make connections with the WhatsUp database using Windows authentication.

Prerequisites for using an existing Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2

You can use an existing Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2 to store the data collected by WhatsUp Gold. To do this, you must meet the following requirements:

- Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2 English must be installed on the WhatsUp Gold host computer or another computer.



Important: Make sure that the "master" database for the existing SQL Server database instance that is hosting the WhatsUp database is configured to use case-insensitive collation.



Important: WhatsUp Gold does not support non-English versions of Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2.



Important: Make sure that, if WhatsUp Gold and the SQL Server is not located on the same physical machine (server), the system clocks are synchronized to the same time zone. If the system clocks are not synchronized, inaccurate data may occur in reports.

- Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2 must be configured to allow WhatsUp Gold to authenticate.
- If Microsoft SQL Server is installed on a remote computer, remote connections must be allowed. For more information, see *How to configure Microsoft SQL Server to allow remote connections* (<http://blogs.msdn.com/b/walzenbach/archive/2010/04/14/how-to-enable-remote-connections-in-sql-server-2008.aspx>).
- Use a Microsoft SQL Server user account to connect to the database.
- Microsoft SQL Server must be configured to have a user account that meets the following requirements:
 - Full administrator privileges to Microsoft SQL Server. WhatsUp Gold also supports accessing the database via an account with reduced administrative privileges. For instructions on how to make this modification, see the *Database Migration and Management Guide* (http://www.whatsupgold.com/wugdbmg_15).
 - User's language is set to (United States) English. This can be set in the properties for the login used by WhatsUp Gold.

If you need assistance configuring or verifying these prerequisites, contact your database administrator or refer to the *Microsoft SQL Server documentation* (<http://support.microsoft.com/ph/2855>).

To install WhatsUp Gold using advanced options:

- 1 If you are asked to install the required role services, click **Yes**. The installation program installs the required IIS components.



Note: When IIS is detected, but not all of the required role services are installed, you will be asked if you would like to install the IIS role services.

- 2 Read the Welcome screen.



Tip: Click a link to view a Help resource.

- 3 Clear **Hide advanced installation options**. This option must be cleared in order for you to use the advanced installation options.

Click **Next**. The License Agreement dialog appears.

- 4 Read the license agreement. If you accept the terms of the license agreement, select **I accept the terms of the license agreement**.

- To print a copy of the license agreement, click **Print**. The license agreement is sent to the default printer.
- If you do not accept the terms of the license agreement, click **Cancel** to exit the installation program.

- 5 Select one of the <MSSQL> Installation options, then click **Next**.



Note: If you want to use an existing local or remote installation of Microsoft SQL Server 2005, or Microsoft SQL Server 2008 or 2008 R2 in support of WhatsUp Gold, select the option allowing you to choose an existing Microsoft SQL Server 2005 or Microsoft SQL Server 2008 or 2008 R2 database.

- 6 If you selected to use an existing local or remote installation of Microsoft SQL Server 2005, or Microsoft SQL Server 2008 or 2008 R2 for use with WhatsUp Gold, the Database Server Login dialog appears. Enter the database server address and SQL Server authentication information in this dialog.



Important: Make sure that the "master" database for the existing SQL Server database instance that is hosting the WhatsUp database is configured to use case-insensitive collation.



Tip: If you cannot remember your database server's hostname, click **Browse** to see a list of all database servers detected on the domain. Database servers to which you can connect but which are not configured on the same domain as the computer where you are installing WhatsUp Gold are not shown. The Browse dialog scans your entire domain, so it may take some time before showing you a list of database servers.

- a) In **Database server that you are installing to**, enter the hostname, or hostname and instance of your database server.



Note: If you are using a database instance other than the default instance, you must include the instance name using the format <Server_Name>\<Instance_Name>.

- b) In **SQL Server Authentication**, enter the correct **Login ID** and **Password**.



Important: If you want to change the SQL Server user account, the account you want to use must have the same permissions as the 'sa' account.

- c) Click **Next**. The installation program attempts to validate the credentials you entered and checks for the existence of WhatsUp Gold databases on the database server. If WhatsUp Gold databases are found on the database server, the setup program alerts you and asks if you want to continue.
- Select **Yes** to upgrade the databases and continue the installation.
 - Select **No** to select another Microsoft SQL Server. After the credentials are validated, the Enter Microsoft SQL Server 2005 Express Edition Paths dialog appears.
- 7 If you selected to install Microsoft SQL Server 2005 Express Edition on the local machine, the Enter Microsoft SQL Server 2005 Express Edition Paths dialog appears. Perform the following:
- a) Select the install directories for Microsoft SQL Server 2005 Express Edition. The application and data files are installed in default directories. To change the locations, click **Browse** to find and select a different directory for the application files or the data files.



Important: Make sure that you have a large capacity drive selected for data storage. The data files for WhatsUp Gold can reach a maximum size of 22 GB.



Important: During the initial installation, databases are created for WhatsUp Gold Flow Monitor. These initial databases are limited in size, but are increased the first time the Flow Monitor collector initializes. If at least 16 GB of disk space are available when the collector initializes, the maximum size of the Flow Monitor databases is increased to 4 GB each (16 GB total including transaction logs). If less than 16 GB is available, the maximum size of the Flow Monitor databases is limited proportionately to the amount of free disk space. If your license includes WhatsUp Gold Flow Monitor, we strongly recommend that you verify that you have at least 16 GB of free disk space before installing.

- b) Click **Next**. The Specify the SQL "sa" Account Password dialog appears.

- c) Specify a **User Name** for the account and enter and confirm a **Password**. You also have the option to **Keep the default password**.



Important: If you want to change the SQL Server user account, the account you want to use must have the same permissions as the 'sa' account. The password you create must meet any password complexity rules enforced by the local server or domain.

Click **Next**. The **Database Names** dialog appears.

- 8 If you selected to use an existing local Microsoft SQL Server 2008 or 2008 R2 database or an existing remote Microsoft SQL Server 2005 database, use the Microsoft SQL Server 2005 Express Edition Paths dialog to install the Microsoft SQL Server 2005 Express Edition client tools (required for installations of WhatsUp Gold that use Microsoft SQL Server databases). Perform the following to select install directories for the Microsoft SQL Server 2005 Express Edition database tools:
 - a) Select the install directories for the Microsoft SQL Server 2005 Express Edition tools. The application and data files are installed in default directories.
 - b) To change the locations, click **Browse** to find and select a different directory for the application files or the data files.



Note: If you selected to use an existing Microsoft SQL Server 2005 database installed on the local server, the database tools will already be installed.

Click **Next**. The **Database Names** dialog appears.

- 9 Type any changes you want to make to the **WhatsUp database** and **Netflow database** names.



Note: The database names must be in English and must use alpha-numeric characters (A-Z, a-z, 0-9 and the underscore character "_").



Note: You can only change the default database names during the initial WhatsUp Gold installation. You cannot change the names of these databases following the initial installation.



Note: The default database name for the WhatsUp Gold database is `WhatsUp`, and the default name for the Flow Monitor database is `Netflow`.



Note: The Netflow Archive database will use the Flow Monitor database name with the letters 'Ar' appended to the end. The default name for the Flow Monitor Archive database is `NFArchive`.

Click **Next**. The Choose Destination Location dialog appears.

- 10 Select the installation directory for the WhatsUp Gold application files.

The default path is C:\Program Files\Ipswitch\WhatsUp. We recommend that you use the default path. After you select the installation directory, click **Next**. The Choose Port dialog appears.



Tip: The Program Files directory path may vary if on a 64 bit system (for example, Program Files (x86)). You can install WhatsUp Gold to a different location. To select a different location, click **Change**.



Note: If the installation program detects data from a previous installation of WhatsUp Gold, the Backup Web and Report Files dialog appears. We recommend that you select **Back up the existing Web and report files**, then click **Next**.

Click **Next**. The Choose Port dialog appears.

- 11 Choose a TCP port for the WhatsUp Gold web site. The installation program creates an IIS web site using this port. The default port is 80.



Note: It is recommended that port 80 be used for the WhatsUp Gold web site. If another port number is used, the URL for the WhatsUp Gold web site will require that port number to be appended to the hostname or IP address when forming the URL. For example if you chose 8888 as the port number instead of 80 your URL for a WhatsUp Gold install on the local host would be: localhost/nmconsole:8888



Note: If port 80 is used by a current IIS web site, you must either allow WhatsUp Gold to disable that web site and take over port 80, or choose another port.

Click **Next**. The Specify a Windows user account and password dialog appears.

- 12 Specify a User Name for the Windows user account and enter and confirm a Password.

Click **Next**. The Ready to Install the Program dialog appears.

- 13 Click **Install**. The WhatsUp Gold install program begins the installation.

- 14 When the installation program completes, the InstallShield Wizard Complete dialog appears.

Click **Finish**. The setup program closes. The WhatsUp Setup will appear, and the WhatsUp Gold Web interface will appear.

Activating WhatsUp Gold for new or upgraded licenses

If WhatsUp Gold is installed using the installation application downloaded from the Web link provided in the purchase confirmation email, the program is fully functional immediately after installation.

If the license is not automatically activated during the installation or if you are upgrading from a previous version, you can manually activate WhatsUp Gold.



Important: Make sure that you activate WhatsUp Gold before starting the application. If the application is not activated before the polling engine is started, the engine will not start and a message telling you that the license has expired is written to the log. The application is not functional until after it has been activated.

To activate WhatsUp Gold manually:



Note: Before you start the manual activation process, make sure that you have your product Activation Key available to use in the activation program.

- 1 Click **Start > Programs > Ipswitch WhatsUp Gold > Manage WhatsUp Gold License**. The activation program appears.
- or -
If you run the WhatsUp Gold console at the end of the installation, it displays an Invalid License dialog. Click the **Purchase/Unlock** to start the license activation process.
- 2 Follow the on-screen instructions to complete the product activation.



Note: When the activation is complete, a confirmation page indicates the license has been activated. If the activation does not complete successfully, you may be behind a proxy or firewall that is blocking the activation request. In this case, click the **Offline** button, then follow the onscreen instructions.

For more help and information about licensing, go to the *MyIpswitch licensing portal* (<http://www.myipswitch.com/>).



Tip: You can view information about your installation via the About WhatsUp Gold dialog, located on both the console and web interface from **Help > About WhatsUp**. The About WhatsUp Gold dialog displays your license type, serial number, product edition, registered user, maximum devices. From the About WhatsUp Gold dialog, you can click **Plugins** to view the plugin licensing information.

Upgrading WhatsUp Gold

The installation program can automatically upgrade WhatsUp Gold v12 and later. The installation program delivers new application files and upgrades the database. The installation program automatically upgrades databases on Microsoft SQL Server Desktop Edition, Microsoft SQL Server 2005 Express Edition, Microsoft SQL Server 2005, and Microsoft SQL Server 2008 or 2008 R2.



Note: WhatsUp Gold v12.3 or later introduces automatic database upgrades. It is no longer necessary to manually execute SQL scripts to upgrade a non-standard database.



Note: If you are using Microsoft SQL Server 2000, you must upgrade to Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2 prior to upgrading WhatsUp Gold. Microsoft SQL Server 2000 is no longer supported by WhatsUp Gold.



Tip: To upgrade from an older version than WhatsUp Gold v12, you must follow a supported upgrade path. For more information on supported upgrade paths, see the *Updating from versions 8.x, 2005, or 2006 to v14.x* (<http://www.whatsupgold.com/wug14upgrade>) Knowledge Base article or refer to the *WhatsUp Gold Answers repository* (<http://whatsup.custhelp.com>).

If the database is currently hosted on Microsoft SQL Server Desktop Edition or Microsoft SQL Server 2005 Express Edition but you want to migrate your database to Microsoft SQL Server 2005, Microsoft SQL Server 2008 or 2008 R2, or Microsoft SQL Server Cluster 2005, 2008, or 2008 R2, complete the upgrade on the existing database, then follow the steps outlined in the *WhatsUp Gold Database Migration and Management Guide* (http://www.whatsupgold.com/wugdbmg_15).

To upgrade WhatsUp Gold:



Note: To launch the WhatsUp Gold installation program, you must run WhatsUp Setup. For more information see *Running WhatsUp Setup* (on page 8).

- 1 On the WhatsUp Setup Install Options dialog, select the WhatsUp Gold version you want to which you want to upgrade. The status will show a message detailing the version being upgraded.

Installing and Configuring WhatsUp Gold v15.0

- 2 If you are asked to install the required role services, click **Yes**. The installation program installs the required IIS components.



Note: When IIS is detected, but not all of the required role services are installed, you will be asked if you would like to install the IIS role services.



Note: You will need to install IIS if you are upgrading from a WhatsUp Gold installation that uses the WhatsUp Gold web server, as it is no longer supported, or if you are installing on Windows Server 2003 (you must install IIS6 for Windows Server 2003). When installing on operating systems that support IIS7, the installation program will automatically install IIS7 if it is not installed.

- 3 The Welcome dialog appears. It provides the WhatsUp Gold version to which the setup program will upgrade the installed WhatsUp Gold system.
- 4 Read the Welcome screen.



Tip: Click a link to view a Help resource.

- 5 Click **Next**. The License Agreement dialog appears.
- 6 Read the license agreement. If you accept the terms of the license agreement, select **I accept the terms of the license agreement**.
 - To print a copy of the license agreement, click **Print**. The license agreement is sent to the default printer.
 - If you do not accept the terms of the license agreement, click **Cancel** to exit the installation program.

Click **Next**. The Back Up Existing Database dialog appears.

- 7 Since the installation program makes changes to the WhatsUp Gold database, we strongly recommend that you select **Yes, back up the existing database**.

Click **Next**. The Back Up Web and Report Files dialog appears.

- 8 If you have modified any of the Web or Report files, select **Back up the existing Web and report files**. If this option is selected, the existing Web and report files are copied to a backup folder before the upgrade begins. We recommend that you select this option.

Click **Next**. The Choose Port dialog appears.

- 9 Choose a TCP port for the WhatsUp Gold web site. The installation program creates an IIS web site using this port. The default port is 80.



Note: It is recommended that port 80 be used for the WhatsUp Gold web site. If another port number is used, the URL for the WhatsUp Gold web site will require that port number to be appended to the hostname or IP address when forming the URL. For example if you chose 8888 as the port number instead of 80 your URL for a WhatsUp Gold install on the local host would be: localhost/nmconsole:8888



Note: If port 80 is used by a current IIS web site, you must either allow WhatsUp Gold to disable that web site and take over port 80, or choose another port.



Note: If you selected to use port 80 on the Choose Port dialog and port 80 is in use by an existing web site, a message will appear that asks if you want the WhatsUp Gold installation program to take over port 80 for use by the 'WhatsUp Gold web site. If you want the WhatsUp Gold installation program to take over port 80, click **Yes**. Otherwise, click **No**. The dialog closes and the Choose Port dialog appears.

Click **Next**. The Ready to Install the Program dialog appears.

10 Click **Install**. The installation program upgrades the necessary components.

11 When the installation program completes, the InstallShield Wizard Complete dialog appears.

Click **Finish**. The setup program closes. The WhatsUp Setup will appear, and the WhatsUp Gold Web interface will appear.

Updating user accounts after upgrade

When upgrading from WhatsUp Gold v14.x or earlier to WhatsUp Gold v15.0 or later, user accounts that had been granted the Manage User user right may not have access to portions of the web interface, such as the Admin Panel on the Admin tab. It may appear as if these user accounts have all of the available user rights, however the user account does not actually have any of the new user rights released in the WhatsUp Gold v15.0 or later releases, and the account will need to be updated before the user rights actually assigned to the user account are displayed properly.

To update a user account following upgrade:

- 1** Navigate to the Manage Users dialog (**Admin > Manage Users**)
- 2** Select the user account you want to update, then click **Edit**. The Edit User Account dialog appears.
- 3** Without making any changes, click **OK**. The user account is updated
- 4** Log out of the WhatsUp Gold web interface, then log back in to the WhatsUp Gold web interface.
- 5** Verify that the user account displays the user rights actually assigned to the account.

Repairing WhatsUp Gold



Note: To launch the WhatsUp Gold installation program, you must run WhatsUp Setup. For more information see *Running WhatsUp Setup* (on page 8).

To repair WhatsUp Gold:

- 1 On the WhatsUp Setup Install Options dialog, select the WhatsUp Gold version you want to which you want to repair. Continue with WhatsUp Setup using instructions provided in *Running WhatsUp Setup* (on page 8). The Welcome dialog of the WhatsUp installation program will appear.
- 2 Select **Repair** to reinstall all program features installed by the previous setup.



Tip: Select **Remove** to uninstall WhatsUp Gold.

Click **Next**. The Back Up Existing Database dialog appears.

- 3 Since the installation program makes changes to the WhatsUp Gold database, we strongly recommend that you select **Yes, back up the existing database**.

Click **Next**. The Back Up Web and Report Files dialog appears.

- 4 If you have modified any of the Web or Report files, select **Back up the existing Web and report files**. If this option is selected, the existing Web and report files are copied to a backup folder before the upgrade begins. We recommend that you select this option.

Click **Next**. The Setup Type dialog appears.

- 5 Select **Repair IIS configuration** to repair the current IIS configuration.



Tip: Select **Don't change current IIS configuration**, if you do not want to change the current IIS configuration.

Click **Next**. The Ready to Install the Program dialog appears.

- 6 When the installation program completes, the InstallShield Wizard Complete dialog appears.

Click **Finish**. The setup program closes. The WhatsUp Setup will appear, and the WhatsUp Gold Web interface will appear.

Uninstalling WhatsUp Gold

To uninstall WhatsUp Gold:

- 1 Launch the install program from the WhatsUp Setup:
 - a) Run the WhatsUp Setup. For more information, see *Running WhatsUp Setup* (on page 8). On the Install Options dialog, select the WhatsUp Gold product option, then click **Next**.



Note: The WhatsUp Setup program detects any currently installed Ipswitch WhatsUp branded software and determines which installation options are available (**New Installation, Upgrade, Repair** or **Un-install**). This information is displayed to the right of the product name and version.

- b) On the License Information dialog, select **Use existing installed license**, then click **Next**.
 - c) On the Installation Summary dialog, ensure that the currently installed version of WhatsUp Gold is displayed as the product selected for repair or uninstall, then click **Next**. The Welcome dialog of the Whatsup Gold Installation program will appear.
 - d) Select **Remove** to uninstall WhatsUp Gold.



Tip: Select **Repair** to reinstall all program features installed by the previous setup.

Click **Next**.

- OR -

- 2 Launch the install program from the Programs and Features dialog:
 - a) Navigate to the Control Panel dialog (**Start > Control Panel**).
 - b) Click **Uninstall a Program**. The Uninstall or change a program dialog will appear and populate with all of the installed programs.
 - c) Select the version of **Ipswitch WhatsUp Gold** you want to uninstall.
 - d) Click **Uninstall**. The Whatsup Gold installation program will appear.
- 3 Select one of the following options:
 - If you want to remove WhatsUp Gold but maintain your configuration data, select **Keep my configuration data, but uninstall Ipswitch WhatsUp Gold v15**. The configuration data includes device definitions, custom monitors, users, recurring reports and historical poll data.
 - If you want to remove your configuration data and uninstall Ipswitch WhatsUp Gold v15, select **Remove my configuration data and uninstall Ipswitch WhatsUp Gold v15**.

- If you selected **Remove my Configuration data and uninstall Ipswitch WhatsUp Gold v15** and you want to remove the WhatsUp SQL Server Express Edition instance created during the install, select **Also, remove the WhatsUp instance of SQL Server Express**.



Note: If you remove the configuration data, it cannot be recovered. If you maintain your configuration data, you can re-install WhatsUp Gold and restore the saved configuration.



Note: If you remove the WhatsUp instance of SQL Server Express, any other database created on the instance will be lost.

A confirmation screen will appear.

- 1 Click **Yes** to remove WhatsUp Gold. The Setup Status dialog appears.

The setup status dialog shows the status of the uninstall. When the uninstall is complete, the Uninstall Complete dialog appears.

- 2 Select **Yes, I want to restart my computer now**.

Click **Finish**. The Uninstall Complete dialog closes and your computer will shutdown and restart.

About device count limits

WhatsUp Gold is licensed by the number of monitored devices. After the number of monitored devices has been reached, you cannot add new devices to WhatsUp Gold.

To view the number of devices your license allows and the number of devices you have currently configured:

- 1 From the console, select **Help > About WhatsUp**. The About WhatsUp dialog appears.

- or -

From the web interface, select **Help > About WhatsUp**. The About WhatsUp dialog appears.



- 2 **Maximum Devices** indicates the number of devices your license allows you to monitor. The total number of devices currently configured in WhatsUp Gold is indicated in the first paragraph.



Tip: You can upgrade your license to include more devices through the *Ipswitch customer portal* (<http://www.myipswitch.com>).

About the Task Tray and Desktop Actions applications

WhatsUp Gold installs two task bar icons on your computer.

- The Task Tray icon  alerts you to the status of the application as a whole.
- The Desktop Actions icon  displays to indicate that the application for Sound and Text-to-Speech actions is turned on.



Note: Desktop Actions must be running for the Sound and Text-to-Speech actions to work.

WhatsUp Gold Icons

During normal operation, the Task Tray icon displays the worst state of all devices on your map.





Tip: You can enable tooltips to have the icon display any state change that occurs on the system. To do this, right-click on the icon and select or clear **Enable Tooltips**.



When the WhatsUp Gold service is stopped and the polling engine is not running, this icon appears:



In this case, you need to restart the WhatsUp Polling Engine service. If the polling engine is not running, WhatsUp Gold is not connected to the database, and nothing in the application functions properly.

- To turn off the Task Tray Application and icon , right-click on the icon, then click **Close Task Tray Application**.
- To turn off the Desktop Actions icon , right-click the icon, then click select **Close**.



Note: Sound and Text-to-Speech actions are disabled when you close the Desktop Actions icon.

Installing IIS on Windows Server 2003

Use the following procedure to enable the required IIS Web Extension and install IIS if it has not been installed.

The required Web Extension is Active Server Pages (ASP).



Note: You will need to provide your Windows Server 2003 Enterprise x64 Edition CD-ROM to copy files necessary to install IIS.

To install IIS and the required Web Extensions on Windows Server 2003:

- 1 Install Internet Information Services (IIS).
 - a) Navigate to the Programs and Features dialog (**Start > Settings > Control Panel > Add or Remove Programs**). The Add or Remove Programs dialog appears.
 - b) From the pane on the left side of the window, select **Add/Remove Windows Components**. The Windows Components Wizard appears.
 - c) Select **Application Server**.



Note: You will need to provide your Windows Server 2003 Enterprise x64 Edition CD-ROM to copy files necessary to install IIS.

- d) Click **Next**. Setup installs IIS.
- 2 Allow Active Server Pages as a Web Service Extension.
 - a) Navigate to the Internet Information Services (IIS) Manager. (**Start > Settings > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**). The Internet Information Services Manager appears.
 - b) Select **Web Service Extensions** in the left pane. The Web Services Extensions dialog appears in the right pane.
 - c) Select **Active Server Pages**, and click **Allow**. The Active Server Pages extension is allowed.
- 3 Close the IIS Manager. You can now run the WhatsUp Gold installation program.

Using Windows Authentication for remote database access

Prerequisites

Before you begin, you must have access to the following:

- Remote Microsoft SQL Server server
- Computer on which to install WhatsUp Gold



Note: The computer on which you are going to install WhatsUp Gold must be on the same domain as the Microsoft SQL Server server.

- Domain user account (called user1 in this example)

For details regarding minimum hardware and software requirements, see System Requirements.

Overview

To configure a WhatsUp Gold installation to use Windows Authentication for remote Microsoft SQL Server database access:

- 1 Add the domain user to the Local Administrator group on the machine that will host WhatsUp Gold.
- 2 Add the domain user to the Local Administrator group on the machine that is hosting Microsoft SQL Server.
- 3 Add the domain user (e.g. user1) to the Microsoft SQL Server database using the Login dialog.
- 4 Assign the same permissions that are assigned to the Microsoft SQL Server 'sa' user to the Domain User (user1) in the Microsoft SQL Server database.
- 5 Install WhatsUp Gold with a local Microsoft SQL Server 2005 Express Edition database.
- 6 Run the Database Configuration utility and configure the WhatsUp Gold database connection to connect to the remote database using Windows Authentication.
- 7 Configure the ODBC driver to connect to the remote database using Windows Authentication.
- 8 Configure IIS to use the Domain User for the NMConsole application pool and change the anonymous access user account to the Domain User for the WhatsUp Gold web site.
- 9 Configure the IIS Services Control Manager to use the Domain User to run the WhatsUp Gold processes.

Creating and adding the domain user to the WhatsUp Gold and Microsoft SQL Server host machines

To add the domain user to the Local Administrators group on the machine that will host WhatsUp Gold:

- 1 Log in to Windows as a local administrator on the machine that will host WhatsUp Gold.
- 2 Create the domain user, or otherwise determine which domain user (e.g. user1) you want WhatsUp Gold to connect to the remote Microsoft SQL Server database.

Use the following steps to create a domain user:

- a) Open Microsoft Management Console by clicking the Start button , typing mmc into the Search box, and then pressing ENTER. If you are prompted for an administrator password or confirmation, type the password or provide confirmation.
 - b) In the left pane of Microsoft Management Console, click **Local Users and Groups**.
 - c) Click the **Users** folder.
 - d) Click **Action**, and then click **New User**.
 - e) Type the appropriate information in the dialog box, and then click **Create**.
 - f) When you are finished creating user accounts, click **Close**.
- 3 Add the selected domain user (e.g. user1) to the Local Administrator group.
 - a) In the left pane of Microsoft Management Console, click **Local Users and Groups**.
 - b) Double-click the **Groups** folder.
 - c) Right-click the Local Administrator group, and then click **Add to Group**.
 - d) Click **Add**, and then type the name of the user account.
 - e) Click **Check Names**, and then click **OK**.
 - 4 Restart the computer (optional, but recommended).

To add the domain user to the Local Administrators group on the machine that is hosting the Microsoft SQL Server database:

- 1 Log in to Windows as a local administrator on the machine that is hosting the Microsoft SQL Server database.



Note: The MSSQL server must be on the same domain as the WhatsUp Gold server.

- 2 Add the selected domain user (e.g. user1) to the Local Administrator group.
 - a) In the left pane of Microsoft Management Console, click **Local Users and Groups**.
 - b) Double-click the **Groups** folder.
 - c) Right-click the Local Administrator group, and then click **Add to Group**.
 - d) Click **Add**, and then type the name of the user account.
 - e) Click **Check Names**, and then click **OK**.
- 3 Restart the computer (optional, but recommended).

Adding the domain user as a Microsoft SQL Server database user

To create a SQL Server login that uses Windows Authentication (SQL Server Management Studio)

- 1 Launch the SQL Server Management Studio.
- 2 Add the domain user:
 - a) In SQL Server Management Studio, open Object Explorer and expand the folder of the server instance in which to create the new login.
 - b) Right-click the Security folder, select **New**, and then click **Login**.
 - c) On the General page, enter the domain user name (e.g. user1) in **Login name**.
 - d) Select **Windows Authentication**.
 - e) Click **OK**.
- 3 Provide the domain user (e.g. user1) with the same permissions as the Microsoft SQL Server system administrator (sa) user. The following is a guideline that provides the most common settings for the 'sa' user.
 - On the **Server Roles** page, select the `sysadmin` role.
 - On the User Mapping page - Select the `db_owner` role membership for each database. If you do not wish the domain user to have access to a specific database, do not provide `db_owner` (`dbo`) role membership for that database.
 - On the Status page in the Settings menu:
 - Select **Grant** for **Permission to connect to database engine**.
 - Select **Enabled** for **Login**.
- 4 Save your changes and exit SQL Server Management Studio.

Installing WhatsUp Gold and configuring the connection to the remote database

To configure WhatsUp Gold and connect to the remote database:

- 1 Log in to the machine that you using the domain user (e.g. user1) on the WhatsUp Gold server.
- 2 Install WhatsUp Gold. Use all of the default settings, allowing the Microsoft SQL Server 2005 Express Edition database to install locally.



Note: Because of service dependencies, you must allow the local database to install and run. It is possible remove this dependency later.

- 3 After the WhatsUp Gold installation completes, run **RemoteDBConfig.exe**, using Windows authentication, and point it at the remote database server. (**Start > Programs > Ipswitch WhatsUp Gold v15 > Utilities > Database Configuration Utility**)
 - a) Locate the `RemoteDBConfig.exe` file in the default location: `C:\Program Files (x86)\Ipswitch\WhatsUp`, or in the custom location where you installed WhatsUp Gold.

- b) Double-click the `RemoteDBConfig.exe` file. The Database Connection dialog appears.
- c) Check to make sure the Server Name is correct for the location of your local SQL server for WhatsUp Gold.
- d) Browse for the remote SQL server you want to use.
- e) In the Authentication section, select **Windows Authentication**.



Note: You must be logged in as the domain user (e.g. user1).

- f) Click **Connect**.
- g) Click **Continue** to update the databases.
- h) Click **Finish** to exit.



Note: If you see BCP errors, delete the WhatsUp and NetFlow databases on the remote SQL server and try running `RemoteDBConfig.exe` again.

Set up the ODBC connection on the machine hosting WhatsUp Gold

- 1 Set up the ODBC connection to use Windows Authentication and the remote SQL database server.
 - a) On 32-bit systems, click **Start > Settings > Control Panel**, then double-click the 32bit ODBC icon.
- or -
On 64-bit systems, locate the `C:\Windows\SysWOW64` folder, and double-click the `ODBCAD32.exe` icon.
 - b) Select the **System DSN** tab.
 - c) Select **NetFlow**.
 - d) Click **Configure**.
 - e) Select the remote SQL server from the **Server** list.
 - f) Click **Next**.
 - g) Select **With Windows NT authentication using the network login ID**.
 - h) Continue clicking Next, accepting the current settings. Save the changes and exit.
 - i) Repeat steps b through g for all other sources.

Configure WhatsUp Gold to use Windows Authentication

- 1 Run `NmConfig.exe` to configure WhatsUp Gold to use Windows authentication:
 - a) Click **Start > Programs > Ipswitch WhatsUp Gold v15.0 > Utilities > Database Configuration Utility**.
 - b) Select **Use Windows Authentication**.
 - c) Click **Connect**.
 - d) Ensure **Restart the WhatsUp services after the update** is selected.
 - e) Click **Save**.

Configure IIS on the machine hosting WhatsUp Gold

For operating systems that use IIS6, you must add the domain user account to the IIS_WPG group and change the identity for the NmConsole application pool to the domain user, and configure the account used for anonymous authentication to the domain user (e.g. user1). For operating systems using IIS7, you only need to change the identity for the NmConsole application pool, and configure the account used for anonymous authentication. The following procedures provide information on performing these tasks.

To add the domain user account (e.g. user1) to the IIS_WPG group on IIS6

- 1 On the desktop, right-click **My Computer**, and then click **Manage**.
- 2 In the Computer Management screen, under **System Tools**, expand **Local Users and Groups**, and then click **Groups**.
- 3 Right-click the **IIS_WPG** group, and then click **Add to Group**.
- 4 In the **IIS_WPG Properties** dialog box, click **Add**.
- 5 In the **Select User, Computers, or Groups** dialog box, in the **Enter the object names to select** box, type the account name on which you want your worker process to run (e.g. <Web domain>\user1), and then click **OK**.
- 6 In the IIS_WPG Properties dialog box, click **OK**.
- 7 Close the Computer Management screen.

To change the identity for the NmConsole application pool on IIS6

- 1 To change the account under which an application pool runs using IIS Manager
- 2 In IIS Manager, expand the local computer, expand **Application Pools**, right-click the NmConsole application pool, and then click **Properties**.
- 3 Click the **Identity** tab, and click **Configurable**. Configurable refers to registered user names.
- 4 In the **User name** and **Password** boxes, type the user name and password of the domain account (e.g. user1).
- 5 Click **OK**.

To change the identity for the NmConsole application pool on IIS7

- 1 Open IIS Manager. (**Control Panel > System and Security > Administrative Tools > Internet Information Services (IIS) Manager**)
- 2 In the Connections pane, expand the server node and click **Application Pools**. The Application Pools list populates.
- 3 On the Application Pools page, select the **NmConsole** application pool, and then click **Advanced Settings** in the Actions pane. The Advanced Settings dialog appears.
- 4 Select the Identity property under the Process Model heading, and then click the ... browse button. The Application Pool Identity dialog appears.
- 5 Select **Custom account** and click **Set**. The Set Credentials dialog appears.
- 6 Type the domain account name in the User name box (e.g. user1)
- 7 Type and confirm the password for the domain account (e.g. user1) in the Password text box
- 8 Click **OK**. The Set Credentials dialog closes.
- 9 Click **OK**. The Application Pool Identity dialog closes.
- 10 Click **OK**. The Advanced Settings dialog closes.
- 11 Exit the IIS Manager application.

To configure the account used for Anonymous authentication on IIS 6.0:

- 1 In IIS Manager, expand the local computer, right-click the **WhatsUpGold** website, and then click **Properties**. The WhatsUpGold Properties dialog appears.
- 2 Click the **Directory Security** tab.
- 3 In the Authentication and access control section, click **Edit**. The Authentication Methods dialog appears.
- 4 Select the **Enable anonymous access** check box.
- 5 Type the valid Windows user account you want to use for Anonymous access, or click **Browse** to locate it.
- 6 Click **OK**. The Authentication Methods dialog closes.
- 7 Click **OK**. The WhatsUpGold Properties dialog closes.
- 8 Exit the IIS Manager application.

To configure the account used for Anonymous authentication on IIS 7.0:

- 1 Open IIS Manager (**Control Panel > System and Security > Administrative Tools > Internet Information Services (IIS) Manager**).
- 2 Click the **Features View** tab, double-click **Authentication**. The Authentication page appears.
- 3 On the Authentication page, select **Anonymous Authentication**.
- 4 In the Actions pane, click **Edit**. The Edit Anonymous Authentication Credentials dialog appears.
- 5 Select Specific user, then click **Set**. The Set Credentials dialog appears.
- 6 Type a user name and password for the identity.

- 7 Click **OK**. The Set Credentials dialog closes.



Important: If you use the Network Service account, you grant anonymous users all the internal network access associated with that account.

- 8 Click **OK** to close the Edit Anonymous Authentication Credentials dialog box.
- 9 Exit the IIS Manager application.

Configure the Ipswitch Service Control Manager service to run under the domain user

To configure services on the WhatsUp Gold server:

- 1 Log in to the WhatsUp Gold server as user1.
- 2 Click **Start** and type `services.msc`. Press **Enter**. The Services dialog appears.
- 3 Locate **Ipswitch Service Control Manager** in the Name column and right-click it.
- 4 Select **Properties** from the list. The Properties dialog for the service appears.
- 5 Click the **Log On** tab.
- 6 Select **This account**.
- 7 Type or browse for user1. Enter and confirm the password for the user1 account.
- 8 Click **OK**.

Finding more information

Following are information resources for WhatsUp Gold. This information may be periodically updated and available on the *WhatsUp Gold web site* (<http://www.whatsupgold.com/support/index.aspx>).

- **Release Notes.** The release notes provide an overview of changes, known issues, and bug fixes for the current release. The notes also contain instructions for installing, upgrading, and configuring WhatsUp Gold. The release notes are available at **Start > Programs > Ipswitch WhatsUp Gold > Release Notes** or on the *WhatsUp Gold web site* (<http://www.whatsupgold.com/WUG15relnotes>).
- **Application Help for the console and web interface.** The console and web help contain dialog assistance, general configuration information, and how-to's that explain how to use the features. The Table of Contents is organized by functional area, and can be accessed from the main menu or by clicking **Help** in the console, or the **?** icon in the web interface.
- **Additional WhatsUp Gold resources.** For a listing of current and previous guides and help available for WhatsUp Gold products, see the *WhatsUp Gold web site* (<http://www.whatsupgold.com/support/guides.aspx>).
- **WhatsUp Gold optional plug-ins.** You can extend the core features of WhatsUp Gold by installing plug-ins. For information on available plug-ins and to see release notes for each plug-in, see *WhatsUp Gold plug-ins documentation* (<http://www.whatsupgold.com/support/guides.aspx>).
- **Licensing Information.** Licensing and support information is available on the *MyIpswitch licensing portal* (<http://www.myipswitch.com/>). The web portal provides enhanced web-based capabilities to view and manage Ipswitch product licenses.
- **Technical Support.** Use the WhatsUp Gold Support Site for a variety of WhatsUp Gold product help resources. From here you can view product documentation, search Knowledge Base articles, access the community site for help from other users, and get other Technical Support information. The Support Site is available on the *WhatsUp Gold web site* (<http://www.whatsupgold.com/support/index.aspx>).

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