

JobQue/X™ Installation Guide
HP-UX, AIX, Solaris, Linux, Windows
Version 1.10



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Introduction

The *JobQue/X Installation Guide* is designed to provide installation information for the JobQue/X software tool from Nobix. It refers to HP-UX, AIX, Solaris, Linux and Windows operating systems and pertains to both the server and client software installation guidelines.

JobQue/X is a software utility designed to help automate batch job scheduling and eliminate the need for manual intervention.

JobQue/X can control normal production runs and manage customized job queues and calendars. The program runs jobs automatically on any day and at any time, with dependencies that can be customized to suit the needs of the user.

The JobQue/X product is made up of seven main components. They are the:

- JobQue/X Server software (data component)
- Schedule Administration client program
- Scheduler Communications client program
- SCOM client program
- Scheduler Communications web interface
- Submit program
- Reporting client program

The Schedule Administration program is used to create and manage the various job queues and calendars. The Scheduler Communications program is an easy to use, menu-driven interface that provides JobQue/X's on-line management. The SCOM program also provides complete JobQue/X on-line management, but features a command line interface, while the Scheduler Communications web interface offers the same features via the Internet. The Submit program is used to submit a job to JobQue/X so that it can be integrated into

JobQue/X's scheduling operations. The Reporting program is used to create various types of reports that either list the schedules JobQue/X plans to run or the calendar dates in effect.

The JobQue/X Installation CD includes all of these components. The server software is to be installed on an HP-UX, AIX, Solaris, Linux or Windows host. The client programs, with the exception of SCOM, are to be installed on a Windows host. (The SCOM program is installed along with the server software; the remaining client programs are installed together on the Windows computer.)

System Requirements

The JobQue/X server software is to be installed on an HP-UX, AIX, Solaris, Linux or Windows host, specifically an HP9000 system running HP-UX 11.0 or later; a system running AIX 4.3 (or later); a system running Solaris 7.0 (or later); a system running Redhat Linux 7.0 (or later); or a system running Windows 2000, XP or 2003 on the server. A minimum of 20 Mb of hard drive space is required. If output files are to be stored for a significant amount of time, more drive space will be required.

The JobQue/X client software requires Windows 2000, XP or 2003 running on a Pentium-class processor. Microsoft .NET Framework 1.1 or later must also be installed on the computer. (The .NET Framework is available on the JobQue/X Installation CD.)

It is highly recommended that all web access to JobQue/X be provided by a secure server or a virtual private network (VPN), thus ensuring that any transferred data is encrypted. The web server must be configured and running on the same computer as the JobQue/X server software.

How this document is organized

[Chapter 1, "Installing JobQue/X Server,"](#) provides step-by-step instructions for installing the JobQue/X server software on to a system running one of the following: HP-UX, AIX, Solaris, Linux.

[Chapter 2, "Installing JobQue/X Server on a Windows Computer,"](#) provides step-by-step instructions for installing the JobQue/X server software on to a computer running Windows.

[Chapter 3, "Installing JobQue/X Client,"](#) explains how to install the JobQue/X client programs on a Windows computer.

Assumptions

This document assumes familiarity with Windows 2000, XP and/or 2003 computers, as well as the HP-UX, AIX, Solaris or Linux operating systems. It is intended for system administrators, managers and any other users involved in the maintenance of JobQue/X.

Readers should also be familiar with HP and Windows 2000/XP/2003 documentation published by the Hewlett-Packard Company and Microsoft Corporation.

Related documents

- *JobQue/X Administrator's Reference Guide (HP-UX, AIX, Solaris, Linux)*
- *JobQue/X Release Notes (HP-UX, AIX, Solaris, Linux, Windows)*
- Nobix Web site www.nobix.com

Technical support

Nobix provides various technical support plans, including 24x7 (with weekends and holidays) support coverage. Contact Nobix at 925.659.3500 for current technical support options.

Classes on how to use JobQue/X are available. Please check with JobQue/X for schedules and pricing.

The JobQue/X software uses the latest operating system technology and requires Windows 2000, XP or 2003 on the client and HP-UX 11.0 (or later), Redhat Linux 7.0 (or later), AIX 4.3 (or later), Solaris 7.0 (or later) or Windows 2000, XP or 2003 on the server.

Nobix strives for efficient and reliable software; however, if you encounter any problems that this manual does not address, or find an error, contact Nobix technical support:

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If you fax your question, include your name, phone number, and fax number on the cover sheet. Usually, we call you as soon as we receive your fax.

If you report a limitation or problem, we will either fix it or provide a workaround as soon as possible.

If you will allow us dial-up access to your computer, please have the dial-up number and passwords available. We do not sign on to every computer; however, sometimes it is easier to solve a problem when we can see it happen.

If you cannot find an answer in this manual, contact us!

Chapter 1

Installing JobQue/X Server

The installation procedure differs depending on the type of computer the JobQue/X server software is being installed on. This chapter describes how to install JobQue/X on HP-UX, AIX, Solaris and Linux servers. For installation instructions for Windows computers, go to [Chapter 2, “Installing JobQue/X Server on a Windows Computer.”](#)

To install the JobQue/X server software on a system, access to a terminal and a CD ROM drive is required. JobQue/X requires a system running HP-UX 11.0 (or later), Redhat Linux 7.0 (or later), AIX 4.3 (or later) or Solaris 7.0 (or later).

Installation Procedure

First Time Server Installation

- 1 Log on as root:

```
%login: root
```

- 2 Insert the JobQue/X Installation CD into the CD ROM and mount the drive to a directory. (The Installation CD assumes the installation directory is called ‘cdrom’.) Some computers mount the drive automatically. The JobQue/X software resides in a directory on the CD in tar format.

```
%mount /dev/dsk/<hardware-location> /cdrom
```

where <hardware-location> is the location of the CD ROM and <cdrom> is the JobQue/X directory.

- 3 Install the JobQue/X software:

```
%/cdrom/Unix/INSTALL
```

- 4** When prompted, confirm you want to proceed with this first time installation.
- 5** When prompted, confirm you want to proceed with the installation of the `/etc/services/` configuration.

The installation script on the Installation CD determines what type of system is being used and installs the appropriate software.

- 6** Follow the instructions indicated.
- 7** Once the software installation is complete, you will be prompted for a Software Activation Key. Type the activation key (key is not case-sensitive). Make sure to include all numbers, letters and dashes for the key. (Nobix delivers the Software Activation Key with the JobQue/X software package or via fax/email.)

If you choose to enter the key later, press ENTER when prompted to enter the key. When you are ready to enter the key, sign on as root, confirm you are in the `/opt/jobque` directory, and enter:

```
./etc/addkey.sh
```

- 8** When prompted, confirm the key is correct.
The installation is complete.
- 9** Once the installation is finished, un-mount the JobQue/X Installation CD.

```
umount /cdrom
```

where `<cdrom>` is the JobQue/X directory.

Chapter 2

Installing JobQue/X Server on a Windows Computer

The installation procedure differs depending on the type of computer the JobQue/X server software is being installed on. This chapter describes how to install JobQue/X on a Windows computer. For installation instructions for HP-UX, AIX, Solaris or Linux computers, go to [Chapter 1, “Installing JobQue/X Server.”](#)

To install the JobQue/X server software on a system, access to a computer and a CD ROM drive are required, as well as the ability to log on as a domain administrator to a Windows 2000, XP or 2003 computer.

Installation Procedure

First Time Server Installation

- 1** Log on to the Windows 2000/XP/2003 computer as a domain administrator.
- 2** Insert the JobQue/X CD into your CD ROM drive.

The *JobQue/X 1.10 Setup* program appears. (If the setup program did not start automatically, run **setup.exe** from the CD.)

The server software cannot be installed until the Microsoft .NET Framework application is installed. To install this application, follow the steps below. If already installed, skip to [Step 10](#).

- 3** Using Windows Explorer, locate the JobQue 1.10 directory and open to the DotNetFramework1.1 folder.
- 4** Run **dotnetfx.exe** by double-clicking on it.
- 5** Click “**Yes**” when the system prompts you to install Microsoft .NET Framework 1.1.

The installation files are extracted and the Microsoft .NET Framework 1.1 Setup assistant appears.

- 6** Read the License Agreement. Select the “**I agree**” option if you agree and click **Install**. If you do not agree to the terms of the agreement, select the “**I do not agree**” option and click **Cancel**.

The installation starts as the .NET Framework files begin loading.

- 7** Click **OK** when setup confirms a successful installation.
- 8** Return to Windows Explorer, locate the root directory of the JobQue/X CD, and run **setup.exe** by double-clicking on it.

The *JobQue/X 1.10 Setup* program appears.

- 9** Click on **Install JobQue Server**.

The JobQue/X Setup Wizard appears. It will guide you through the required installation steps.

- 10** Read the Setup Wizard instructions and click **Next** to continue.
- 11** Read the License Agreement. Select the “**I Agree**” option if you agree and click **Next**. If you do not agree to the terms of the agreement, select the “**I Do Not Agree**” option and click **Cancel**.
- 12** Select how you want JobQue/X to run- as a service or as a part of the user’s logon session. If JobQue/X is installed as a service, its background processes are started when the computer is started and JobQue/X will run continuously until it is manually stopped. Users logging on and off will not affect JobQue/X. If you choose to run it as part of the user’s logon session, JobQue/X will have to be started manually (using the Start-Programs menu) and it will stop running whenever the user logs off the computer. Nobix recommends choosing the “**Install & run JobQue/X Server as a service**” option, especially if JobQue/X is to be used in a production environment. Click **Next** to continue.
- 13** Select the folder where the installer will install JobQue/X by using the default folder or browsing to a different one. You can click **Disk Cost...** to view the available drives along with each drive’s available and required disk space. Near the bottom of the screen, you may choose to install JobQue/X just for your use or for anyone who uses this computer. Nobix recommends choosing the “**Everyone**” option. Click **Next** to continue.

- 14** Click **Next** to confirm and start the installation.

The JobQue/X server files begin loading.

- 15** As the files are loading you will be prompted for a Software Activation Key. Type the activation key (key is not case-sensitive). Make sure to include all numbers and letters for the key. (Nobix delivers the Software Activation Key with the JobQue/X software package or via fax/email). Click **Next** to continue.

If you choose to enter the key later, click **Cancel** when prompted to enter the key. When you are ready to enter the key, follow the instructions in the “[Adding a Software Activation Key](#)” section of this chapter.

- 16** Once all the files are loaded you will be asked if you want to start the JobQue/X server software. Click **Yes** if you want to start the JobQue/X server immediately or click **No** if

you prefer to start the server later. Consult the [“For Windows Machines”](#) section of Chapter 8 in the *JobQue/X Administrator’s Reference Guide* for instructions on starting the server.

17 The installation is complete. Click **Close** to exit the Setup Wizard.

Running JobQue/X as a Service

When installing JobQue/X server software on a Windows computer, you can choose between installing it as a service or simply running it as part of the user’s logon session. This section discusses the differences between these two options.

When JobQue/X is installed as a service it will appear as *JobQue Scheduling* in Windows’ Services window. As a service, JobQue/X’s background processes will start operating when the computer is started and continue to run whenever the computer is running, regardless if a user is logged on to the computer or not. (JobQue Scheduling’s ‘Startup Type’ must be set to **Automatic** in the Services window in order to make this occur.)

When installed as a service, the Scheduler Communications program can be used to start, pause and resume JobQue/X’s scheduler operations (for example, jobs can be started, schedules can be suspended, etc.). However, actually stopping JobQue/X from running must be done through the Services window.

JobQue/X’s ‘Startup Type’ can be set to **Automatic**, **Manual** or **Disabled** in the Services window. If set to Manual, JobQue/X’s background processes will not start automatically. In this case, there are two ways to start JobQue/X. The first option is to manually start the JobQue Scheduling service in the Services window. Alternatively, JobQue/X can be started using the JobQue/X Server interface. (See the [“For Windows Machines”](#) section of Chapter 8 in the *JobQue/X Administrator’s Reference Guide* from more information.) Once JobQue/X is running, the Scheduler Communications program can be used to control its scheduler operations.



Note: When JobQue/X is started using the JobQue/X Server interface, its background processes become part of the user’s session so they will stop completely when the user logs off the computer.

If JobQue/X’s ‘Startup Type’ is set to Disabled, then the only way to start JobQue/X’s background processes is by using the JobQue/X Server interface. Again, its background processes become part of the user’s session and JobQue/X will stop running when the user logs off.

Nobix recommends choosing the **“Install & run JobQue/X Server as a service”** option, especially if JobQue/X is to be used in a production environment, since it will not be affected by users logging on and off the computer.

If you choose to run JobQue/X as part of a user’s session instead of installing it as a service, the only way to start JobQue/X’s background processes is to use the JobQue/X Server interface. Once it is started, JobQue/X becomes part of the user’s session and the processes are stopped when the user logs off the computer. (This method may be preferable for users who are simply performing an evaluation of JobQue/X.)

JobQue/X can be installed as a service later (even if it was originally installed to run only as part of a user’s session) by executing the **installutil.exe** program which resides under the Microsoft .NET Framework installation directory.

Adding a Software Activation Key

Once JobQue/X is installed, there are two ways to add a valid Software Activation Key.

Option One:

- 1 Go to Start-Programs-JobQue Server-Tools-New Activation Key.
- 2 Type the Activation Key as it appears in the key card that you received. Click **Next** to continue.
- 3 Once the key is validated, click **Done**.



Note: You'll need to stop and re-start JobQue/X to activate the key.

Option Two

- 1 Go to Start-Programs-JobQue Server-Start JobQue Server.
- 2 Select Help-About JobQue/X Server.
- 3 Click the **New Activation** button.
- 4 Type the Activation Key as it appears in the key card that you received. Click **Next** to continue.
- 5 Once the key is validated, click **Done**.



Note: You'll need to stop and re-start JobQue/X to activate the key.

Uninstalling JobQue/X Server

To uninstall the JobQue/X server use the Add/Remove Programs tool on the Control Panel.

- 1 Log on to Windows as a domain administrator.
- 2 Open the Add/Remove Programs window by going to Start-Settings-Control Panel-Add/Remove Programs.
- 3 Select *JobQue/X Server* and follow the instructions to remove JobQue/X from the computer.
- 4 Once the uninstall is complete, restart the computer to ensure the changes take affect.

Chapter 3

Installing JobQue/X Client



Note: To install the JobQue/X client programs on a system, access to a computer and a CD ROM drive are required, as well as the ability to log on as a domain administrator to a Windows 2000, XP or 2003 computer.

Installation Procedure

First Time Client Installation

- 1 Log on to the Windows 2000/XP/2003 computer as a domain administrator.
- 2 Insert the JobQue/X CD into your CD ROM drive.

The *JobQue/X 1.10 Setup* program appears. (If the setup program did not start automatically, run *setup.exe* from the CD.)

The JobQue/X client cannot be installed until the Microsoft .NET Framework application is installed. To install this application, follow the steps below. If already installed, skip to [Step 10](#).

- 3 Using Windows Explorer, locate the JobQue 1.10 directory and open to the DotNetFramework1.1 folder.
- 4 Run **dotnetfx.exe** by double-clicking on it.
- 5 Click “**Yes**” when the system prompts you to install Microsoft .NET Framework 1.1.
The installation files are extracted and the Microsoft .NET Framework 1.1 Setup assistant appears.
- 6 Read the License Agreement. Select the “**I agree**” option if you agree and click **Install**. If

you do not agree to the terms of the agreement, select the “**I do not agree**” option and click **Cancel**.

The installation starts as the .NET Framework files begin loading.

- 7** Click **OK** when setup confirms a successful installation.
- 8** Return to Windows Explorer, locate the JobQue 1.10 directory, and run **setup.exe** by double-clicking on it.

The *JobQue/X 1.10 Setup* program appears.

- 9** Click on **Install JobQue Client**.

The JobQue Admin Client Setup Wizard appears. It will guide you through the required installation steps.

- 10** Read the Setup Wizard instructions and click **Next**.
- 11** Read the License Agreement. Select the “**I Agree**” option if you agree and click **Next**. If you do not agree to the terms of the agreement, select the “**I Do Not Agree**” option and click **Cancel**.
- 12** Select the folder where the installer will install JobQue/X by using the default folder or browsing to a different one. You can click **Disk Cost...** to view the available drives along with each drive’s available and required disk space. Near the bottom of the screen, you may choose to install JobQue/X just for your use or for anyone who uses this computer. Nobix recommends choosing the “**Everyone**” option. Click **Next** to continue.

- 13** Click **Next** to confirm and start the installation.

The JobQue/X client files begin loading.

- 14** Once the installation is complete, click **Close** to exit the Setup Wizard.

Uninstalling JobQue/X Client Programs

To uninstall the JobQue/X client programs use the Add/Remove Programs tool on the Control Panel.

- 1** Log on to Windows as a domain administrator.
- 2** Open the Add/Remove Programs window by going to Start-Settings-Control Panel-Add/Remove Programs.
- 3** Select *JobQue/X Windows Interface* and follow the instructions to remove JobQue/X from the computer.
- 4** Once the uninstall is complete, restart the computer to ensure the changes take affect.