

QNX[®] Software Development Platform 6.5.0 Service Pack 1

Installation Guide

For Windows[®], Linux[®], and QNX[®] Neutrino[®] hosts

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About This Guide	v
What's in this guide?	vii
Typographical conventions	vii
Before you start	vii
Getting started with the documentation	viii
Technical support	ix
1 QNX Neutrino RTOS Hosts	1
Before you start	3
System requirements	3
BIOS settings	4
Installing QNX SDP 6.5.0 SP1	4
Errors while booting	5
Activating QNX SDP	5
Activating automatically	5
Activating manually	6
Commercializing your evaluation software	6
Uninstalling QNX SDP 6.5.0 and SP1	7
Determining your base directory	7
2 Microsoft Windows Hosts	9
Before you start	11
System requirements	11
Installing QNX SDP 6.5.0 SP1	12
Activating QNX SDP	12
Activating automatically	13
Activating manually	13
Commercializing your evaluation software	14
Uninstalling QNX SDP 6.5.0 and SP1	14
Determining your base directory	16
3 Linux Hosts	17
Before you start	19

System requirements	19
Installing QNX SDP 6.5.0 SP1	20
Activating QNX SDP	20
Activating automatically	21
Activating manually	21
Commercializing your evaluation software	21
Uninstalling QNX SDP 6.5.0 and SP1	22
Determining your base directory	23

About This Guide

What's in this guide?

Thank you for choosing the QNX Software Development Platform version 6.5.0. This guide tells you how to install QNX SDP 6.5.0 Service Pack 1 from a DVD. Please read this preface for information that applies to all host OSs, and then refer to the chapter for your specific OS (QNX Neutrino, Microsoft Windows, or Linux).

Typographical conventions

Throughout this manual, we use certain typographical conventions to distinguish technical terms. In general, the conventions we use conform to those found in IEEE POSIX publications. The following table summarizes our conventions:

Reference	Example
Commands	make
Environment variables	PATH
File and pathnames	/dev/null
Keyboard keys	Enter
Variable names	<i>stdin</i>
User-interface components	Cancel

We use an arrow (→) in directions for accessing menu items, like this:

You'll find the **Other...** menu item under **Perspective→Show View**.

We use notes and cautions to highlight important messages:



Notes point out something important or useful.



CAUTION: Cautions tell you about commands or procedures that may have unwanted or undesirable side effects.

Before you start

Before you install this software, please note the following:

- The DVD includes QNX SDP SP1 for all host OSs for creating software for all supported targets.
- You must have already installed QNX SDP 6.5.0.
- It isn't possible to uninstall just QNX SDP 6.5.0 SP1; if you uninstall it, you'll completely uninstall QNX SDP 6.5.0.

- On Linux and Windows hosts, QNX SDP includes the QNX Momentics Tool Suite, which you can use to develop applications to run on the QNX Neutrino RTOS on a separate target system.
- QNX SDP for self-hosted QNX Neutrino systems includes the QNX Neutrino RTOS and the QNX Momentics Tool Suite.
- QNX SDP includes everything you need to build for *all* supported target platforms (ARM, MIPS, PowerPC, SH-4, and x86). There are also special versions of QNX SDP for x86 targets only.
- Don't install the x86-only version of 6.5.0 SP1 on the full version of 6.5.0, or the full version of SP1 on the x86-only version of 6.5.0, or else you'll end up with an inconsistent set of software.
- We post CRC and MD5 checksums with the packages in the Download area on our website. If you download a CD or DVD image or an installer from our website, make sure that its checksum matches that given on the website. On Unix-style OSs (e.g. QNX Neutrino, Linux), you can use the `cksum` utility to calculate the CRC checksum. Microsoft doesn't support such utilities on Windows, but they're available from third parties.
- QNX SDP 6.5.0 can coexist with QNX SDP 6.4.0, 6.4.1, and QNX Momentics 6.3, but if you want 6.5.0 to replace 6.4.1, 6.4.0, or 6.3, you must uninstall the older versions and any updates to them before installing 6.5.0.
Coexistence with QNX Momentics 6.2.1 is supported only on Windows hosts (we didn't support Linux hosts in 6.2.1).
- For information about new features and known issues in QNX SDP, see the release notes. The online documentation includes a copy, but for the most up-to-date version, go to our website, www.qnx.com, log into your myQNX account, and then go to **Downloads**→**QNX Software Development Platform 6.5.x**.
- For information about using BSPs with QNX SDP 6.5.0, see the BSP Migration Guide in the BSPs and Drivers project on Foundry27.

Getting started with the documentation

After you've installed QNX SDP, you'll find an extensive set of HTML documentation:

- On Linux and Windows development hosts, you can read it in the Integrated Development Environment's help system. On Linux, use the `qde` command to start the IDE; on Windows, use the desktop icon.
- On self-hosted QNX Neutrino systems, you can read it in the Photon helpviewer, or you can use a web browser to display:

```
${QNX_TARGET}/usr/help/product/momentics/bookset.html
```


The “roadmap” page contains links to the various HTML booksets that accompany the OS. We recommend that you start with *Welcome to the QNX Software Development Platform* for an overview of QNX SDP. Next, see *10 Steps to Developing a QNX Program: Quickstart Guide* for a short tutorial that will help you get started, and then refer to the other documents (*System Architecture*, *QNX Neutrino Programmer’s Guide*, *Library Reference*, *Utilities Reference*, and so on).

You can install and work with multiple versions of QNX Neutrino. Whether you’re using the command line or the IDE, you can choose which version of the OS to build programs for. For more information, see the *IDE User’s Guide* or the *QNX Neutrino Programmer’s Guide*.

Technical support

To obtain technical support for any QNX product, visit the **Support** area on our website (www.qnx.com). You’ll find a wide range of support options, including community forums.

For questions about installing and using QNX SDP, see the QNX Momentics Getting Started forum on our Foundry27 site, <http://community.qnx.com>. There are other forums for specific topics, including the QNX Neutrino RTOS, development tools, networking, Board Support Packages, and so on.

In this chapter...

Before you start	3
System requirements	3
BIOS settings	4
Installing QNX SDP 6.5.0 SP1	4
Errors while booting	5
Activating QNX SDP	5
Commercializing your evaluation software	6
Uninstalling QNX SDP 6.5.0 and SP1	7
Determining your base directory	7



If you've already installed an evaluation version of QNX SDP 6.5.0, and you've purchased and received a commercial QNX license or you've received an evaluation extension license, please go to “Commercializing your evaluation software,” below.

Before you start

- For QNX Neutrino self-hosted development, it's possible to have more than one version of QNX SDP installed on your computer at the same time, by having them in separate partitions. If you want to retain an earlier released version of QNX SDP or QNX Momentics, install 6.5.0 in a new partition.

When you boot, you're asked to choose the partition by its number. If you're then prompted to choose from multiple `.diskroot` files, choose the one that corresponds to the partition that you already chose.

- In text mode, we support only the US keyboard layout.
- If you install QNX Neutrino in a partition on a Windows machine and later use Windows software to create another partition, you'll lose your QNX Neutrino partition.
- The Neutrino boot process can dynamically add block I/O (i.e. disk) drivers, letting you boot on systems with newer controllers. The mechanism is simple and not proprietary to QNX Software Systems, so third parties can offer enhanced block drivers without any intervention on our part. For more information, see “Updating disk drivers” in the Controlling How Neutrino Starts chapter of the QNX Neutrino *User's Guide*.

System requirements

	Minimum	Recommended
Processor	2 GHz or more Intel Pentium 4	2 GHz or more Intel Pentium 4
RAM	512 MB	1 GB
Disk space	3.0 GB	3.5 GB
Monitor	1024×768	1280×1024



CAUTION: Some x86 systems can run in System Management Mode (SMM), where the BIOS installs special code that runs when a System Management Interrupt (SMI) occurs. SMI interrupts may be generated by the motherboard or peripheral hardware, and can't be masked by the operating system. When SMM is entered, normal operations — including the OS — are suspended, and the SMI handler runs at a high priority. Avoid using systems where SMM can't be disabled, because it can destroy QNX Neutrino's realtime performance. The OS can't do anything about the delays that SMM introduces, nor can the OS even detect that the system has entered SMM.

You can also install the QNX Neutrino RTOS as a virtual machine on VMware Workstation 6.5 or 7.0, VMWare Player 3.0, and Microsoft VirtualPC 2007. To ensure that VMware is supported for your host, search the compatibility guide located at <http://www.vmware.com/resources/compatibility/search.php>. If you find problems with any virtualization environment, please post your findings in one of the forums in our Foundry27 community website.

QNX SDP 6.5.0 SP1 requires 250 MB of disk space; the version for x86 targets requires 220 MB.

BIOS settings

We recommend you use the following BIOS settings:

- Disable **Plug and Play OS**.
- Set any parallel ports and onboard serial ports to specific addresses, if possible, instead of using an automatic setting.
- Enable SATA if your system includes a SATA drive.
- If you want to boot QNX Neutrino from the DVD or CD — either to try it without installing it, or for troubleshooting — make sure that the appropriate drive is the first boot device.
- If your BIOS has an option for booting from “Other USB devices,” enabling it could make the BIOS take a very long time to start.

Installing QNX SDP 6.5.0 SP1

To install QNX SDP 6.5.0 SP1, do the following:

- 1 Log in as **root**.
- 2 Insert the QNX Software Development Platform 6.5.0 SP1 Installation DVD in the DVD drive.
- 3 Run `qnxsdp-6.5.0SP1-nnnnnnnnnnnn-nto.sh` (where *nnnnnnnnnnnn* is a build number), which you'll find in the root directory of the DVD.
- 4 Follow the instructions on your screen.

Errors while booting

If an error occurs while you're booting your system, the boot loader may display the error messages listed below, depending on the type of partition that you chose.

For a Power-Safe (**fs-qnx6.so**) filesystem, the boot loader may display the following messages:

Unsupported BIOS

The BIOS doesn't support INT13 LBA extensions.

Missing OS Image

The filesystem isn't an **fs-qnx6** one, or the **.boot** directory is empty.

Invalid OS Image

The selected file isn't an x86 startup boot image.

Disk Read Error

A physical I/O error occurred while reading the disk.

Ram Error A physical RAM error occurred while copying the boot image.

If an error occurs when you boot from a QNX 4 filesystem, the boot loader displays one of the following characters, and then the boot process halts:

s No OS signature was found.

D or ? An error occurred reading the disk.

For more information, see the Controlling How Neutrino Starts chapter of the QNX Neutrino *User's Guide*.

Activating QNX SDP

The QNX Momentics Tool Suite and certain related products require activation. If you don't activate the product within the specified timeframe, the product will cease to function until you activate it. No personal data is transferred during the activation process. If your license key indicates that you have a "named user" license, the activation requires that you provide an email address.

Activating automatically

If your development host is connected to the Internet, you can activate QNX SDP automatically.

Activating manually

if your machine isn't connected to the Internet, you must activate your software manually from a machine that is, by doing the following:

- 1 In the QNX SDP Activation dialog, click **Activate Manually**.
The Manual Activation dialog appears with an activate-prompt key. This dialog has a button that you can use to save the activate-prompt key in a file, `/etc/qnx/license/activate_prompt_key.txt`. Using this file eliminates the need to retype the key, which can be error-prone.
- 2 Transfer the activate-prompt key to the machine that's connected to the Internet.
- 3 Go to our website, www.qnx.com, log into your myQNX account, and choose **Manual Product Activation**.
- 4 Enter the activate-prompt key into the form that appears, and then click **Generate Response Key**. This will return an activate-response key.
- 5 Copy the activate-response key and paste it in a file.
- 6 Transfer the file into `/etc/qnx/license/activate_response_key.txt` on your QNX SDP development host.
- 7 If you closed the QNX SDP Activation dialog, open it again by selecting **Configure**→**Activate License** from the Launch menu, or by entering the following at a terminal prompt:

```
/etc/qnx/bin/qnxactivate -a
```
- 8 Choose **Activate Manually**, and use the **Load Response from File** button to load the activate-response key, and then click **Activate**.

If you choose not to activate at the time of installation, you can activate later by selecting **Configure**→**Activate License** from the Launch menu, or by entering the following at a terminal prompt:

```
/etc/qnx/bin/qnxactivate -a
```

Commercializing your evaluation software

If you installed an evaluation copy of QNX SDP 6.5.0, and you've now received a commercial QNX license, do the following to add your commercial license:

- 1 Choose **Configure**→**Add License** from the Launch menu.
- 2 Enter the license key.
- 3 After entering the license key, you'll be presented with the appropriate license agreement. You'll need to accept it in order to successfully add a license.

Uninstalling QNX SDP 6.5.0 and SP1



- It isn't possible to uninstall just QNX SDP 6.5.0 SP1.
- You should uninstall QNX products in the reverse order in which you installed them. To determine this order, use a command like this:

```
ls -lt `find base_directory -name "**uninstall*.sh" `
```

where *base_directory* is where you installed the QNX Software Development Platform.

To completely uninstall QNX SDP, simply erase or delete the partition you installed it in.

Determining your base directory

To determine the base directory for QNX SDP, open a command shell and use the `qconfig` command. For example:

```
$ qconfig
QNX Installations

Installation Name: QNX Software Development Platform 6.5.0
Version: 6.5.0
Base Directory: /usr/qnx650/
QNX_HOST: /usr/qnx650/host/qnx6/x86/
QNX_TARGET: /usr/qnx650/target/qnx6/
```

The base directory in this example is `/usr/qnx650/`, but it could be different on your machine, depending on where you installed QNX SDP.

In this chapter...

Before you start	11
System requirements	11
Installing QNX SDP 6.5.0 SP1	12
Activating QNX SDP	12
Commercializing your evaluation software	14
Uninstalling QNX SDP 6.5.0 and SP1	14
Determining your base directory	16



If you've already installed an evaluation version of QNX SDP 6.5.0, and you've purchased and received a commercial QNX license or you've received an evaluation extension license, please go to “Commercializing your evaluation software,” below.

Before you start

- In order to install QNX SDP, the QNX license file must be writable by everyone. If the installer stops and warns you that this file isn't writable, you can make it so by right-clicking on `C:\Program Files\QNX Software Systems\license` and choosing Properties. Make sure that the “Read-only” attribute isn't checked, click **Apply**, and then click **OK**. (Ref# 62419)
- We provide the Korn shell (`ksh.exe`), which you'll find under `${QNX_HOST}/usr/bin` (e.g. `C:\QNX650\host\win32\x86\usr\bin`). You may want to create desktop shortcuts for the executables you'll use often.
- On Windows, the QNX-provided `echo.exe` interprets the Windows `\` separator as an escape character. As a result, environment variable settings won't work if you use `\` as a path separator; use `/` instead. (Ref# 19924)
- If your `PATH` contains quotation marks, `ln-w` doesn't work properly. (Ref# 20046)
- If you install 6.5.0, and you then install 6.3.2, you need to move the cleanup utility `QNXWinCleanup.exe` from `$QNX_HOST` to `C:\WINDOWS`. (Ref# 56879)

System requirements

Host OS:

- Windows 7 Professional 32- and 64-bit
- Windows Vista Business 32- and 64-bit
- Windows XP Professional SP3
- Windows 2000 SP4

	Minimum	Recommended
Processor	Pentium III, 700 MHz	Pentium 4, 2 GHz or more
RAM	256 MB ^a	512 MB ^a
Disk space	2.5 GB ^a	3.4 GB ^a
Monitor	1024×768	1280×1024

^a Windows Vista requires an additional 512 MB of available RAM and disk space. The System Profiler in the IDE requires a minimum color depth of 16 bits. QNX SDP 6.5.0 SP1 requires 260 MB of disk space; the version for x86 targets requires 150 MB.

Installing QNX SDP 6.5.0 SP1

To install QNX SDP 6.5.0 SP1, do the following:

- 1 Boot into Windows and log in as a user with system-administrator privileges.
- 2 If you're using Windows Vista or Windows 7, disable User Account Control (UAC). (Ref# 77791).
- 3 Insert the QNX Software Development Platform 6.5.0 SP1 Installation DVD in the DVD drive. The installation should start automatically; if it doesn't, double-click `qnxsdp-6.5.0SP1-xxxxxxxxxxxx-win32.exe` (where `xxxxxxxxxxxx` is a build number), which you'll find in the root directory of the disk.



Java's AWT and Swing aren't supported in 16-color mode; they require a minimum of 256 colors. If you get a message, "Unable to run in graphical mode," run the installer in console mode, by typing this in a DOS prompt window:

```
drive: \qnxsdp-6.5.0SP1-xxxxxxxxxxxx-win32.exe -console
```

where *drive* is the drive letter for your DVD drive, and `xxxxxxxxxxxx` is the appropriate build number.

- 4 Follow the instructions on your screen.
- 5 Log out and log back in again, so that the environment is set up correctly.

Activating QNX SDP

The QNX Momentics Tool Suite and certain related products require activation. If you don't activate the product within the specified timeframe, the product will cease to function until you activate it. No personal data is transferred during the activation process. If your license key indicates that you have a "named user" license, the activation requires that you provide an email address.



If you install QNX SDP using a third-party windows explorer (e.g. Total Commander), the installer doesn't display the Activation window once the installation is complete. (Ref# 59359)

Workaround: Open the QNX SDP Activation dialog by selecting **Programs→QNX Software Development Platform 6.5.0→License Management→Activate License** from the Start menu, or by entering the following at the command prompt:

```
drive:\Program Files\QNX Software Systems\bin\qnxactivate -a
```

Activating automatically

If your development host is connected to the Internet, you can activate QNX SDP automatically.

Activating manually

If your machine isn't connected to the Internet, you must activate your software manually from a machine that is, by doing the following:

- 1 In the QNX SDP Activation dialog, click **Activate Manually**.
The Manual Activation dialog appears with an activate-prompt key. This dialog has a button that you can use to save the activate-prompt key in a file, `drive:\Program Files\QNX Software Systems\license\activate_prompt_key.txt`, where *drive* is the name of the drive where you installed QNX SDP. Using this file eliminates the need to retype the key, which can be error-prone.
- 2 Transfer the activate-prompt key to the machine that's connected to the Internet.
- 3 Go to our website, www.qnx.com, log into your myQNX account, and choose **Manual Product Activation**.
- 4 Enter the activate-prompt key into the form that appears, and then click **Generate Response Key**. This will return an activate-response key.
- 5 Copy the activate-response key and paste it in a file.
- 6 Transfer the file into `drive:\Program Files\QNX Software Systems\license\activate_response_key.txt` on your QNX SDP development host.
- 7 If you closed the QNX SDP Activation dialog, open it again by selecting **Programs→QNX Software Development Platform 6.5.0→License Management→Activate License** from the Start menu, or by entering the following at the command prompt:

```
drive:\Program Files\QNX Software Systems\bin\qnxactivate -a
```

- 8 Choose **Activate Manually**, and use the **Load Response from File** button to load the activate-response key, and then click **Activate**.

If you choose not to activate at the time of installation, you can activate later by selecting **Programs**→**QNX Software Development Platform 6.5.0**→**License Management**→**Activate License** from the Start menu, or by entering the following at the command prompt:

```
drive: \Program Files\QNX Software Systems\bin\qnxactivate -a
```

where *drive* is the name of the drive where you installed QNX SDP.

Commercializing your evaluation software

If you installed an evaluation copy of QNX SDP 6.5.0, and you've now received a commercial QNX license, do the following to add your commercial license:

- 1 Choose **Programs**→**QNX Software Development Platform 6.5.0**→**License Management**→**Add License** from the Start menu, or enter the following at the command prompt:

```
base_directory\install\qnxmdp\6.5.0\AddLicense.exe
```

where *base_directory* is where you installed QNX SDP (see “Determining your base directory,” below).

- 2 In the QNX SDP License Key Entry dialog, fill in the field with the license-key information.
- 3 When you've finished entering the information, click **Add** to save the license-key information and configure your QNX SDP tools to use this file.
- 4 After entering the license key, you'll be presented with the appropriate license agreement. You'll need to accept it in order to successfully add a license.

Uninstalling QNX SDP 6.5.0 and SP1



- It isn't possible to uninstall just QNX SDP 6.5.0 SP1; if you uninstall it, you'll completely uninstall QNX SDP 6.5.0.
- Use the 6.5.0 SP1 uninstaller, not the one for 6.5.0.

- You should uninstall QNX products in the reverse order in which you installed them. To determine this order, open a **bash** shell and use a command like this:

```
ls -lt '$QNX_HOST/usr/bin/find base_directory -name
"*uninstall*.exe"'
```

where *base_directory* is where you installed the QNX Software Development Platform.

To uninstall QNX SDP, do the following:

- 1 Log in as a user with system-administrator privileges.
- 2 If you're using Windows Vista or Windows 7, disable User Account Control (UAC). (Ref# 77791).
- 3 Do one of the following:
 - Choose **Programs**→**QNX Software Development Platform 6.5.0SP1**→**Uninstall QNX Software Development Platform 6.5.0SP1** from the Start menu.
 - or:
 - Choose **Add or Remove Programs** from the Control Panel, select "QNX Software Development Platform 6.5.0SP1", and then click the **Remove** button.
 - or:
 - On Windows Vista or Windows 7, choose **Programs and Features**, select "QNX Software Development Platform 6.5.0SP1", and then click **Uninstall/Change**.
 - or:
 - Go to the directory that contains the **QNX650** folder and run `QNX650_uninstall\qnxsdp\6.5.0SP1\uninstaller.exe`.
- 4 When prompted, restart your machine.



CAUTION: When you uninstall QNX SDP, Windows schedules the uninstaller for removal the next time you restart your system. If you don't restart your system, and you reinstall QNX SDP, its uninstaller will be removed the next time you restart your system. (Ref# 62183)



- In some cases, if you uninstall QNX SDP, the Add or Remove Programs window still lists some BSPs and DDKs. Press F5 while in Add or Remove Programs to refresh the list and show what's actually installed.
- If the uninstaller doesn't fully remove all the components, you can use the `QNXWinCleanup` utility to clean up your machine. You can find this utility and documentation for it in the `Utilities` directory on the DVD, or on our website.
- If you have other versions of QNX SDP installed, you need to explicitly choose which version of it that you want to use after you uninstall 6.5.0 SP1.

Determining your base directory

To determine the base directory for QNX SDP, open a command shell and use the `qconfig` command. For example:

```
C:\>qconfig
QNX Installations

Installation Name: QNX Software Development Platform 6.5.0
Version: 6.5.0
Base Directory: C:/QNX650/
QNX_HOST: C:/QNX650/host/win32/x86/
QNX_TARGET: C:/QNX650/target/qnx6/
```

The base directory in this example is `C:/QNX650/`, but it could be different on your machine, depending on where you installed QNX SDP.

Chapter 3

Linux Hosts

In this chapter...

Before you start	19
System requirements	19
Installing QNX SDP 6.5.0 SP1	20
Activating QNX SDP	20
Commercializing your evaluation software	21
Uninstalling QNX SDP 6.5.0 and SP1	22
Determining your base directory	23



If you've already installed an evaluation version of QNX SDP 6.5.0, and you've purchased and received a commercial QNX license or you've received an evaluation extension license, please go to "Commercializing your evaluation software," below.

Before you start

- If you're running **selinux** (secure Linux), disable it before installing QNX SDP. Otherwise, after you've entered the license key and clicked Next, the installation will fail with this error:

```
java.lang.UnsatisfiedLinkError: no qnxlic in java.library.path
```

- In order to run the installer and the IDE on Ubuntu 64-bit, you need to install the 32-bit libraries:

```
sudo apt-get install ia32-libs
```

Answer yes to all the questions. (Ref# 70567)

- In order to install QNX SDP, the QNX license file must be writable by everyone. If the installer stops and warns you that this file isn't writable, you can make it so by typing:

```
chmod a+rw /etc/qnx/license/licenses
```

(Ref# 62419)

System requirements

Host OS:

- Linux Red Hat Enterprise Linux 5.4 Desktop 32- and 64-bit
- Red Hat Fedora 12
- Ubuntu Workstation 9.10, 11.04, and 12.04 32- and 64-bit
- openSUSE 11.2

	Minimum	Recommended
Processor	Pentium III, 700 MHz	Pentium 4, 2 GHz or more
RAM	256 MB	512 MB
Disk space	2.2 GB	3.1 GB
Monitor	1024×768	1280×1024

The System Profiler in the IDE requires a minimum color depth of 16 bits.

QNX SDP 6.5.0 SP1 requires 250 MB of disk space; the version for x86 targets requires 140 MB.

Installing QNX SDP 6.5.0 SP1

To install QNX SDP 6.5.0 SP1, do the following:

- 1 Boot into Linux and log in as **root**, or as a user with administrative privileges on Ubuntu.
- 2 Insert the QNX Software Development Platform 6.5.0 SP1 Installation DVD in the DVD drive.
- 3 If the system offers to run **autorun**, choose Yes; otherwise run **qnxsdp-6.5.0SP1-*nnnnnnnnnnnnnnnn*-linux.bin** (where *nnnnnnnnnnnnnnnn* is a build number), which you'll find in the root directory of the DVD.

If you use **sudo** (as would be the case on Ubuntu), specify the **-E** option to preserve the environment. For example:

```
sudo -E path_to_installer/qnxsdp-6.5.0SP1-nnnnnnnnnnnnnnnn-linux.bin
```



If your system won't let you execute from a DVD, unmount the DVD and remount it by hand.

- 4 Follow the instructions on your screen.
- 5 Log out and log back in again, so that the environment is set up correctly.

Activating QNX SDP

The QNX Momentics Tool Suite and certain related products require activation. If you don't activate the product within the specified timeframe, the product will cease to function until you activate it. No personal data is transferred during the activation process. If your license key indicates that you have a "named user" license, the activation requires that you provide an email address.



On some distributions, the activation dialog doesn't appear automatically. (Ref# 68599)

Workaround: Log out and back in again, and then start the activation program manually:

```
/etc/qnx/bin/qnxactivate -a
```

Activating automatically

If your development host is connected to the Internet, you can activate QNX SDP automatically.

Activating manually

If your machine isn't connected to the Internet, you must activate your software manually from a machine that is, by doing the following:

- 1 In the QNX SDP Activation dialog, click **Activate Manually**.
The Manual Activation dialog appears with an activate-prompt key. This dialog has a button that you can use to save the activate-prompt key in a file, `/etc/qnx/license/activate_prompt_key.txt`. Using this file eliminates the need to retype the key, which can be error-prone.
- 2 Transfer the activate-prompt key to the machine that's connected to the Internet.
- 3 Go to our website, www.qnx.com, log into your myQNX account, and choose **Manual Product Activation**.
- 4 Enter the activate-prompt key into the form that appears, and then click **Generate Response Key**. This will return an activate-response key.
- 5 Copy the activate-response key and paste it in a file.
- 6 Transfer the file into `/etc/qnx/license/activate_response_key.txt` on your QNX SDP development host.
- 7 If you closed the QNX SDP Activation dialog, open it again by entering the following at a terminal prompt:

```
/etc/qnx/bin/qnxactivate -a
```
- 8 Choose **Activate Manually**, and use the **Load Response from File** button to load the activate-response key, and then click **Activate**.

If you choose not to activate at the time of installation, you can activate later by entering the following at a terminal prompt:

```
/etc/qnx/bin/qnxactivate -a
```

Commercializing your evaluation software

If you installed an evaluation copy of QNX SDP 6.5.0, and you've now received a commercial QNX license, do the following to add your commercial license:

- 1 Type the following at a terminal prompt:

```
base_directory/install/qnxsdp/6.5.0/AddLicense.bin
```

where `base_directory` is where you installed QNX SDP (see “Determining your base directory,” below).

- 2 In the QNX SDP License Key Entry dialog, fill in the field with the license-key information.
- 3 When you've finished entering the information, click **Add** to save the license-key information and configure your QNX SDP tools to use this file.
- 4 After entering the license key, you'll be presented with the appropriate license agreement. You'll need to accept it in order to successfully add a license.

Uninstalling QNX SDP 6.5.0 and SP1



- It isn't possible to uninstall just QNX SDP 6.5.0 SP1; if you uninstall it, you'll completely uninstall QNX SDP 6.5.0.
- Use the 6.5.0 SP1 uninstaller, not the one for 6.5.0.
- You should uninstall QNX products in the reverse order in which you installed them. To determine this order, use a command like this:

```
ls -lt `find base_directory -name "*uninstall*.bin" `
```

where *base_directory* is where you installed the QNX Software Development Platform.

To uninstall QNX SDP, do the following:

- 1 Boot into Linux and log in as **root**, or as a user with administrative privileges on Ubuntu.
- 2 Go to a directory outside the *base_dir* directory (see “Determining your base directory,” below) and run the uninstaller:
 - If you use **sudo** (as would be the case on Ubuntu), you must specify the **-E** option to preserve the environment:


```
sudo -E
base_dir/_uninstall/qnxsdp/6.5.0SP1/uninstaller.bin
```
 - On other Linux hosts, type:


```
base_dir/_uninstall/qnxsdp/6.5.0SP1/uninstaller.bin
```



The command-line prompt doesn't return after a successful uninstallation. (Ref# 161467)

Workaround: Press Ctrl-C.

- 3 Log out and back in again.



- If the uninstaller doesn't fully remove all the components, you can use the **QNXLinuxCleanup** utility to clean up your machine. You can find this utility and documentation for it in the **Utilities** directory on the DVD, or on our website.
- If you have other versions of QNX SDP installed, you need to explicitly choose which version of it that you want to use after you uninstall 6.5.0 SP1.

Determining your base directory

To determine the base directory for QNX SDP, open a command shell and use the **qconfig** command. For example:

```
$ qconfig
QNX Installations

  Installation Name: QNX Software Development Platform 6.5.0
                Version: 6.5.0
  Base Directory: /opt/qnx650/
                QNX_HOST: /opt/qnx650/host/linux/x86/
                QNX_TARGET: /opt/qnx650/target/qnx6/
```

The base directory in this example is **/opt/qnx650/**, but it could be different on your machine, depending on where you installed QNX SDP.