Installing and Licensing
MPLAB® XC C Compilers

Note the following details of the code protection feature on Microchip devices:

• Microchip products meet the specification contained in their particular Microchip Data Sheet.

• Microchip believes that its family of products is one of the most secure families of its kind on the market today, when used in the intended manner and under normal conditions.

• There are dishonest and possibly illegal methods used to breach the code protection feature. All of these methods, to our knowledge, require using the Microchip products in a manner outside the operating specifications contained in Microchip's Data Sheets. Most likely, the person doing so is engaged in theft of intellectual property.

• Microchip is willing to work with the customer who is concerned about the integrity of their code.

• Neither Microchip nor any other semiconductor manufacturer can guarantee the security of their code. Code protection does not mean that we are guaranteeing the product as "unbreakable."

Code protection is constantly evolving. We at Microchip are committed to continuously improving the code protection features of our products. Attempts to break Microchip's code protection feature may be a violation of the Digital Millennium Copyright Act. If such acts allow unauthorized access to your software or other copyrighted work, you may have a right to sue for relief under that Act.

Trademarks

Microchip received ISO/TS-16949:2009 certification for its worldwide headquarters, design and wafer fabrication facilities in Chandler and Tempe, Arizona; Gresham, Oregon and design centers in California and India. The Company's quality system processes and procedures are for its PIC® MCUs and dsPIC® DSCs, KEELOQ® code hopping devices, Serial EEPROMs, microperipherals, nonvolatile memory and analog products. In addition, Microchip's quality system for the design and manufacture of development systems is ISO 9001:2000 certified.

QUALITY MANAGEMENT SYSTEM
CERTIFIED BY DNV
═ ISO/TS 16949 ═

XC INSTALLER & LICENSE MANAGER

Table of Contents

NOTES:

Chapter 1. About the Installer and License Manager

This section describes the MPLAB® XC C Compilers and their related installers and license managers.

> **Note:** For more on the XC License Manager (XCLM), see the documentation that was installed with the XCLM:
> `<default OS application folder>/Microchip/xclm/doc`
> where `<default OS application folder>` is the default folder where your computer places applications, e.g., Windows OS places applications under `C:\Program Files`. This location is operating system (OS) dependent.

- MPLAB XC C Compilers
- XC Installer
- XC License Manager

1.1   MPLAB® XC C COMPILERS

Please see the Microchip website (**http://www.microchip.com**) for more information about available MPLAB XC C compilers and related device support. Each compiler is available in editions that give you increasing optimization levels.

1.2   XC INSTALLER

The GUI installer will install and license a compiler on your PC or network license server.

Windows 8 Customers

The installer will need to run in Windows 7 Compatibility mode to function correctly. To set this mode:

1. Right click on the installer executable.
2. In the file properties window, click on the Compatibility tab.
3. Under "Compatibility mode", check "Run the program in compatibility mode for" and select "Windows 7".

1.3   XC LICENSE MANAGER

The XC License Manager (XCLM) is a cross-platform license manager. The XCLM is a modification of the Reprise License Manager™ (RLM) for managing its language tool licensing. Documentation on the RLM is also located in the XCLM `doc` folder mentioned previously.

XC Installer & License Manager

NOTES:

Chapter 2. Installing and Licensing Your Compiler

In general, you will use the screens in the language tool installer to set up your tool and tool licensing. However, if you need to use more advanced options, you can use the command line version of the installer to set up advanced licensing options. See **Chapter 1. "About the Installer and License Manager"** for the location of the document on the command line version.

The license manager has the following configurations:

• Install a Free Compiler
• Install a Compiler and Activate a 60 Day Evaluation
• Install a Compiler and Create a License with an Activation Key
• Network License Server/Client Setup
• Other Options
• Upgrading the Compiler
• Uninstalling the Compiler

XC Installer & License Manager
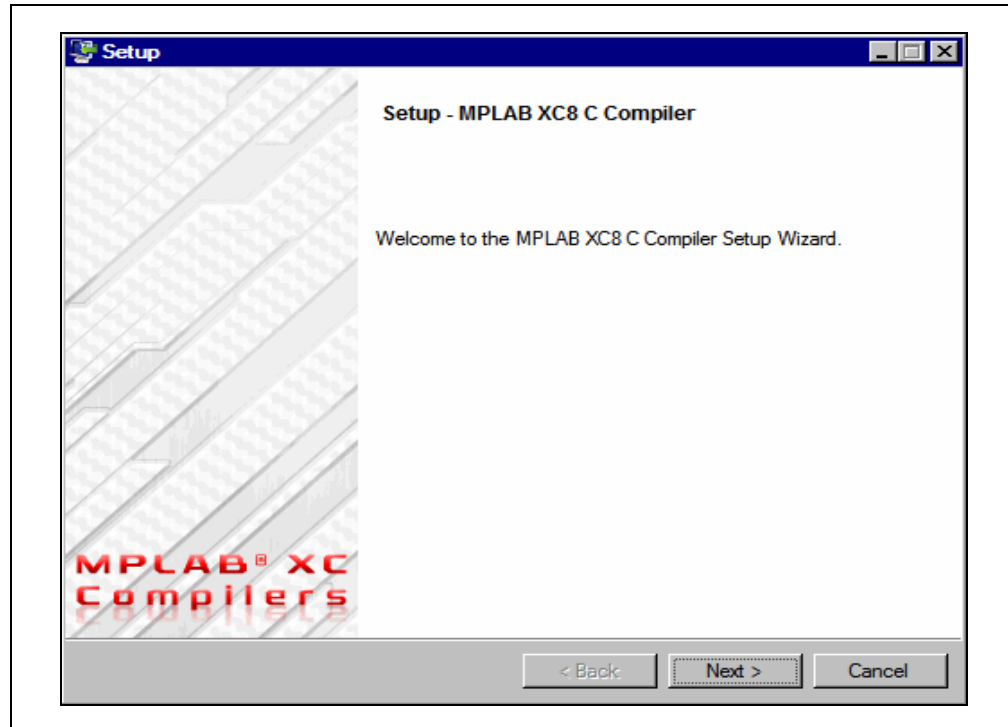
2.1   INSTALL A FREE COMPILER

The typical installation of a compiler is for a single user on one computer. The compiler can be installed for free and does not have to be purchased.

You may install up to three (3) licenses.

Step 1: Welcome

Launch the compiler installation executable. An "MPLAB Certified" splash screen will appear and then disappear. Then the Welcome screen will appear. Click **Next** to continue.

FIGURE 2-1:   WELCOME SCREEN

© 2012 Microchip Technology Inc.
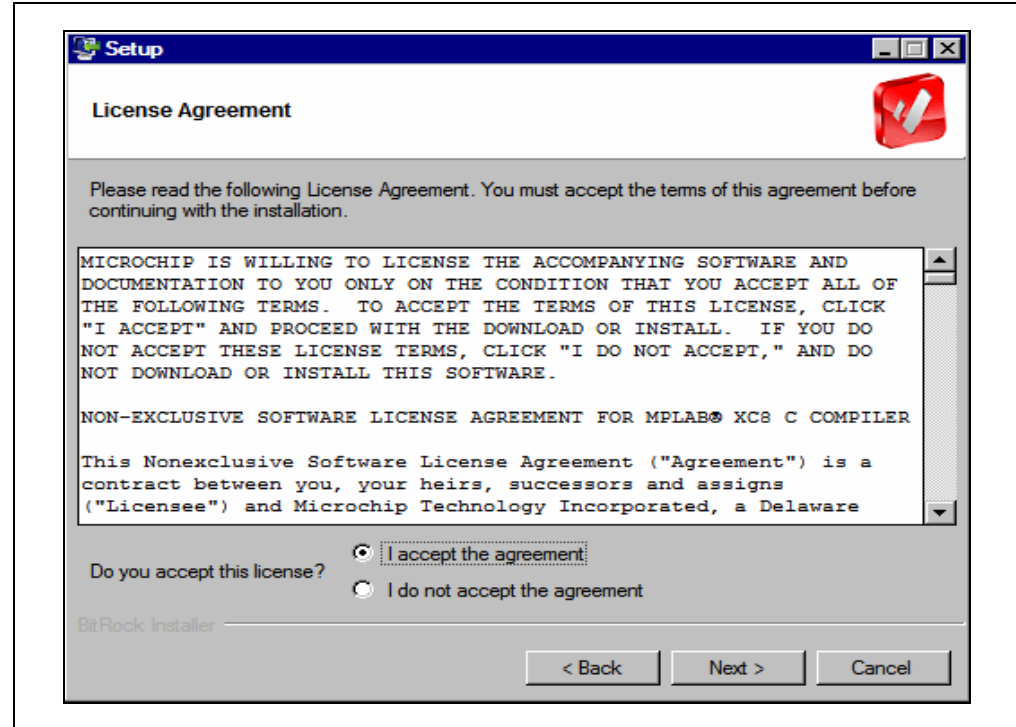
Step 2: License Agreement

Read the license agreement and accept the agreement to proceed. When you accept, **Next** will become available and you may click it to continue.

If you do not agree, the installation will terminate.

FIGURE 2-2:   LICENSE AGREEMENT SCREEN
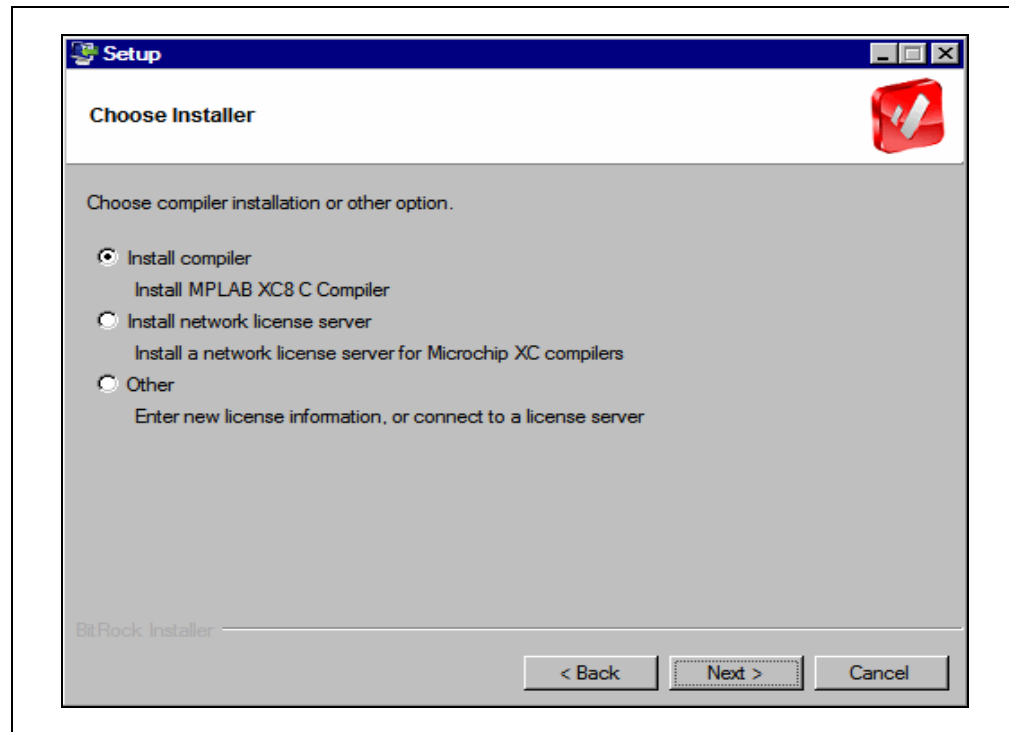
XC Installer & License Manager

Step 3: Choose Installer

Choose "Install Compiler". Click **Next** to continue.
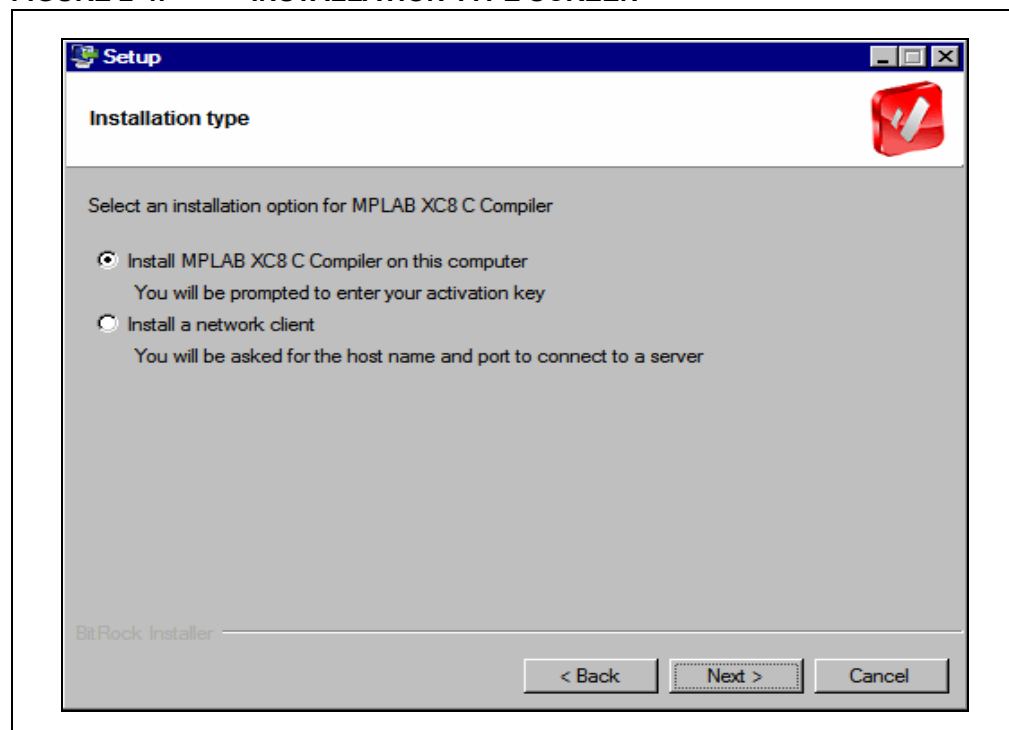
FIGURE 2-3: CHOOSE INSTALLER SCREEN

Step 4: Installation Type

Choose "Install MPLAB XC8 C Compiler on this computer." Click **Next** to continue.

FIGURE 2-4: INSTALLATION TYPE SCREEN

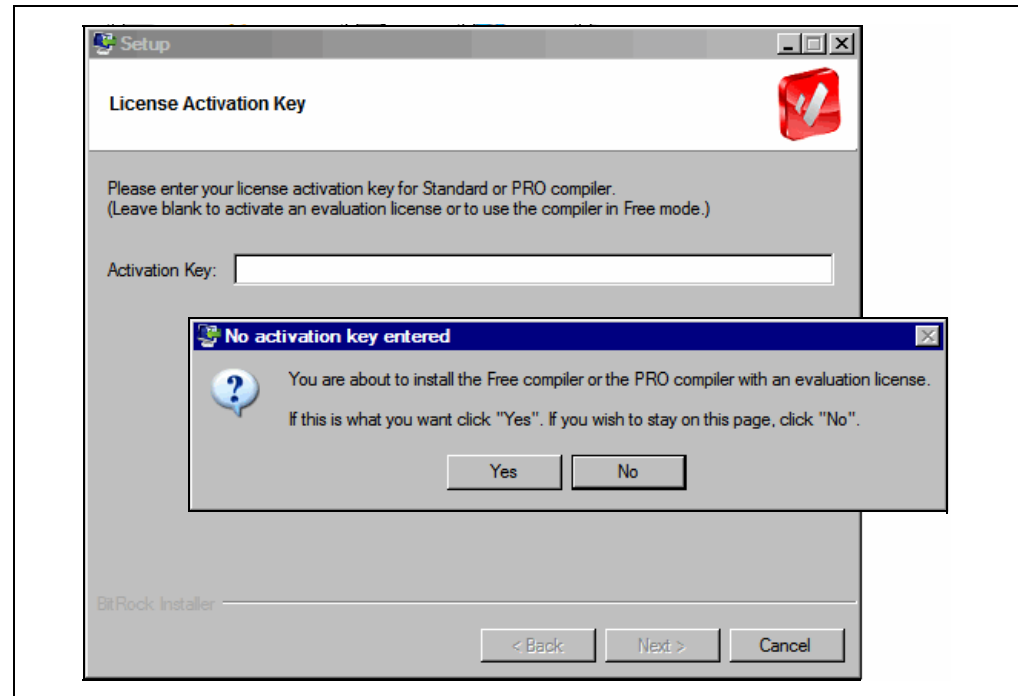### Step 5: License Activation Key

Leave this text box blank. Click **Next** to continue.

A pop-up window will verify that you want to leave the License Key blank. Click **Yes**.

FIGURE 2-5:   LICENSE ACTIVATION KEY SCREEN

Step 6: Install Free or Evaluation Compiler

Select "Run the compiler in free mode". Click **Next** to continue.

FIGURE 2-6:   FREE OR EVALUATION SCREEN
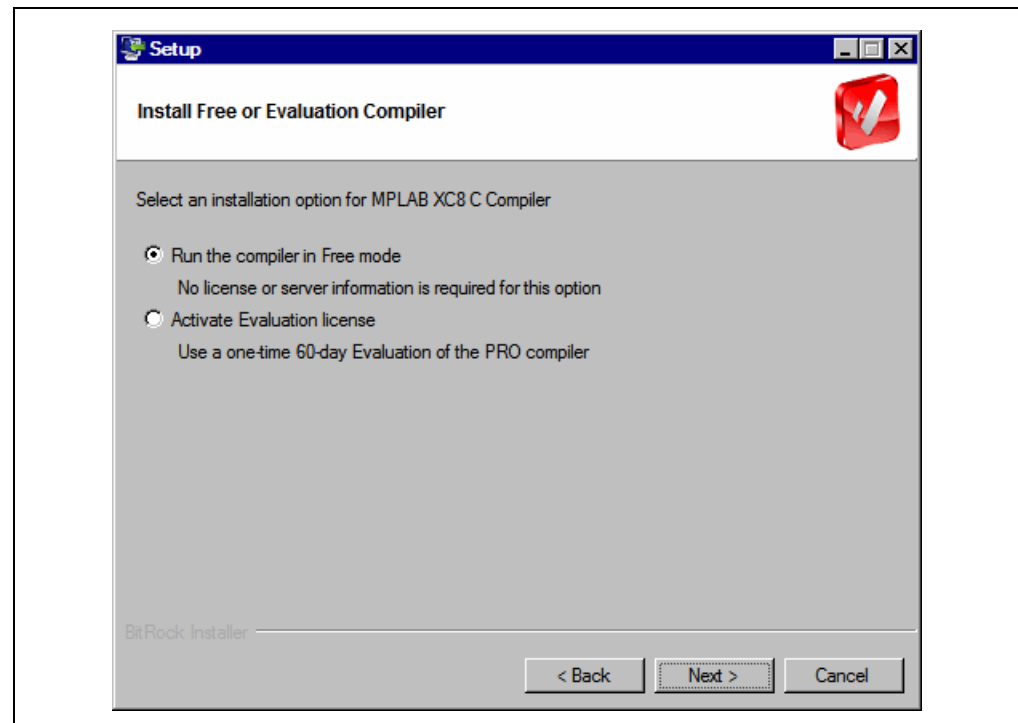
XC Installer & License Manager

Step 7: Installation Directory

Enter or browse to a location to install your compiler. It is recommended that you use the default location displayed in the dialog. Click **Next** to continue.

FIGURE 2-7: **INSTALLATION DIRECTORY SCREEN**

Step 8: Ready to Install and Installing

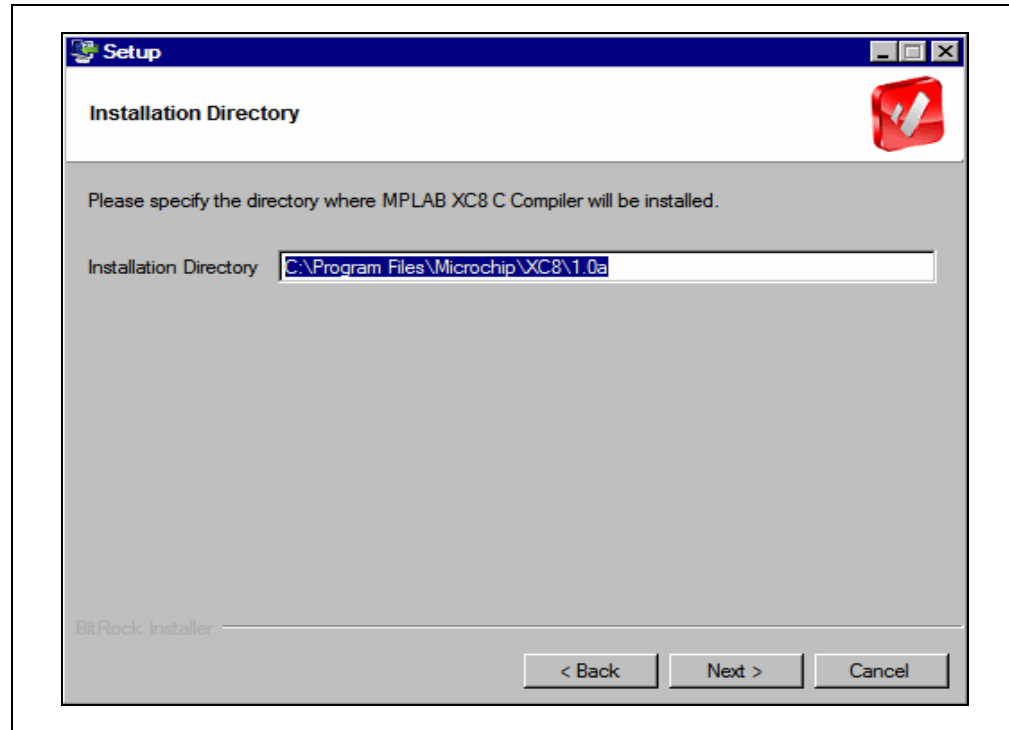You are now set up to install the compiler. This is your chance to make changes to the install by using the **Back** button. If you are ready to install, click **Next** to continue.

The next dialog shows the progress of the install. When it is complete, click **Next** to continue.
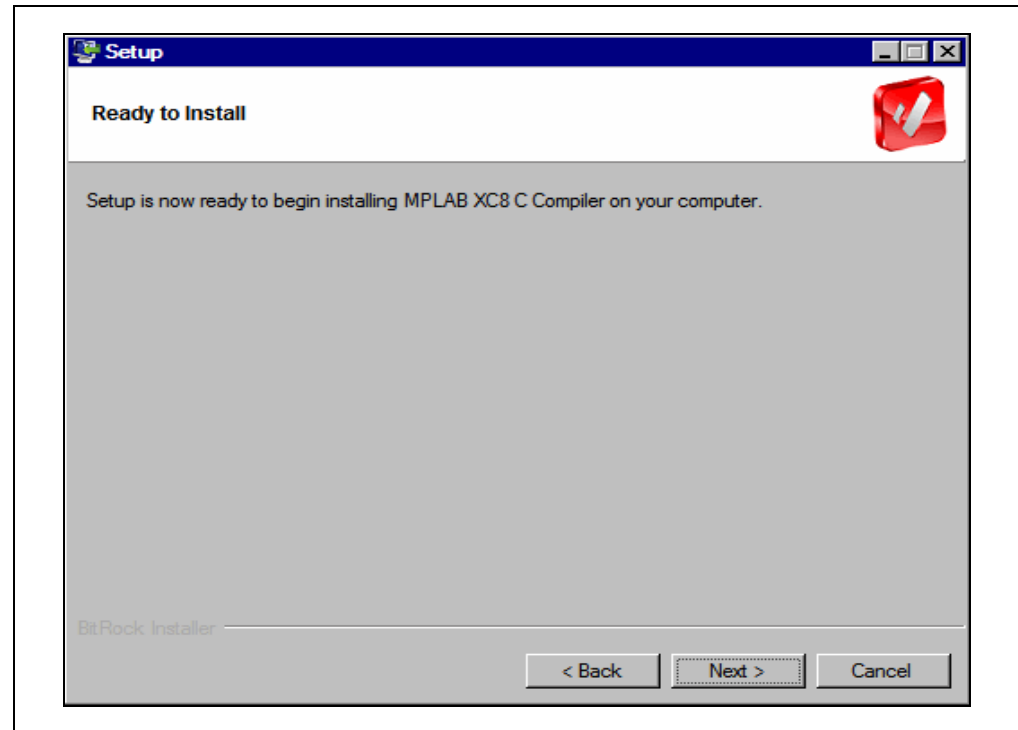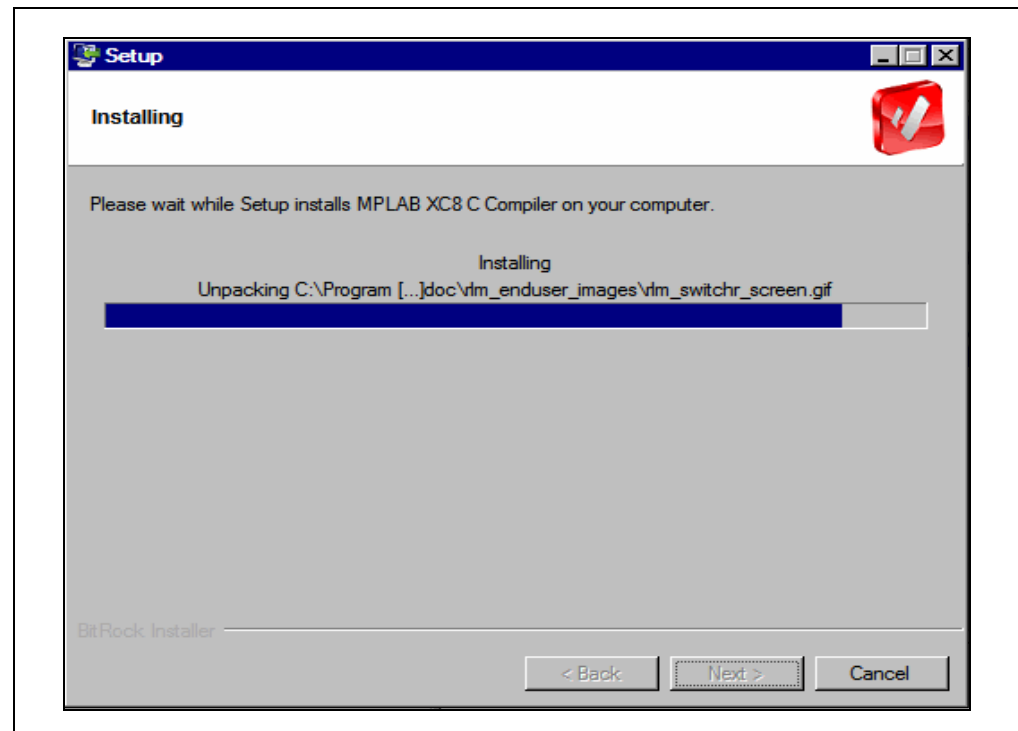
FIGURE 2-8:   **READY TO INSTALL SCREEN**

FIGURE 2-9:   **INSTALLING SCREEN**
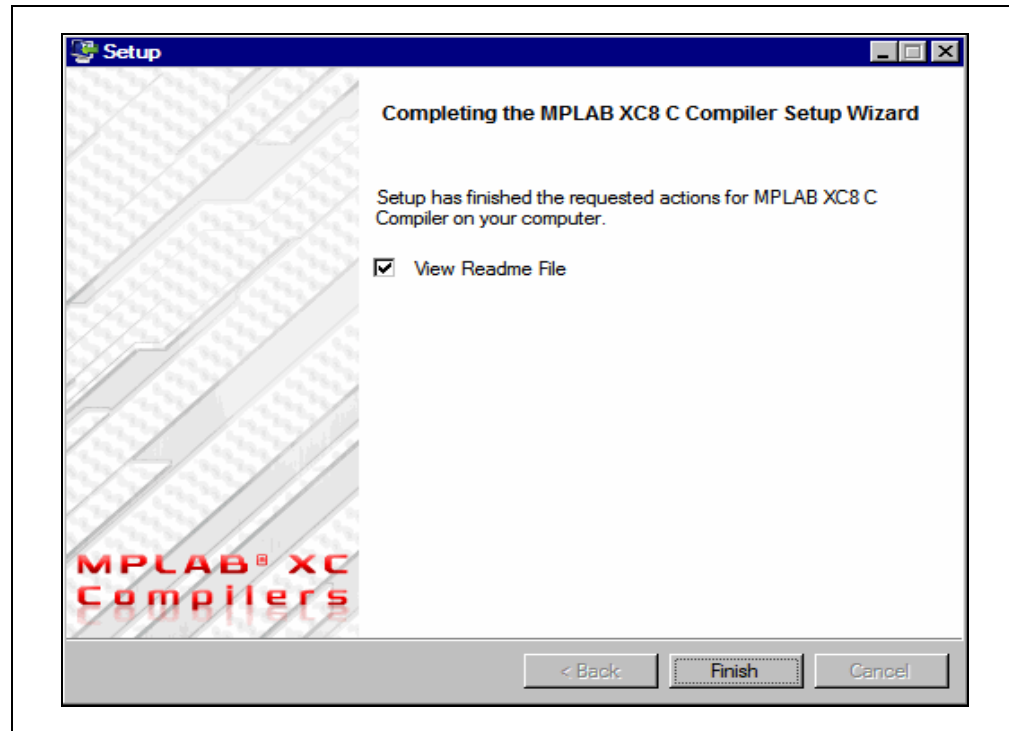
Step 9: Completing Setup

The compiler has now been installed and licensed. Click **Finish** to complete the install.
If you wish to make changes, you can run the installer again and update your install.

FIGURE 2-10:   COMPLETING SETUP SCREEN

2.2 INSTALL A COMPILER AND ACTIVATE A 60 DAY EVALUATION

The typical installation of a compiler is for a single user on one computer. You can choose to activate a one-time evaluation for each compiler that will last for 60 days. During these 60 days, this license will cause the compiler to operate as a PRO compiler.

You may install up to three (3) licenses.

Step 1: Welcome

Launch the compiler installation executable. An "MPLAB Certified" splash screen will appear and then disappear. Then the Welcome screen will appear. Click **Next** to continue.

FIGURE 2-11:   WELCOME SCREEN
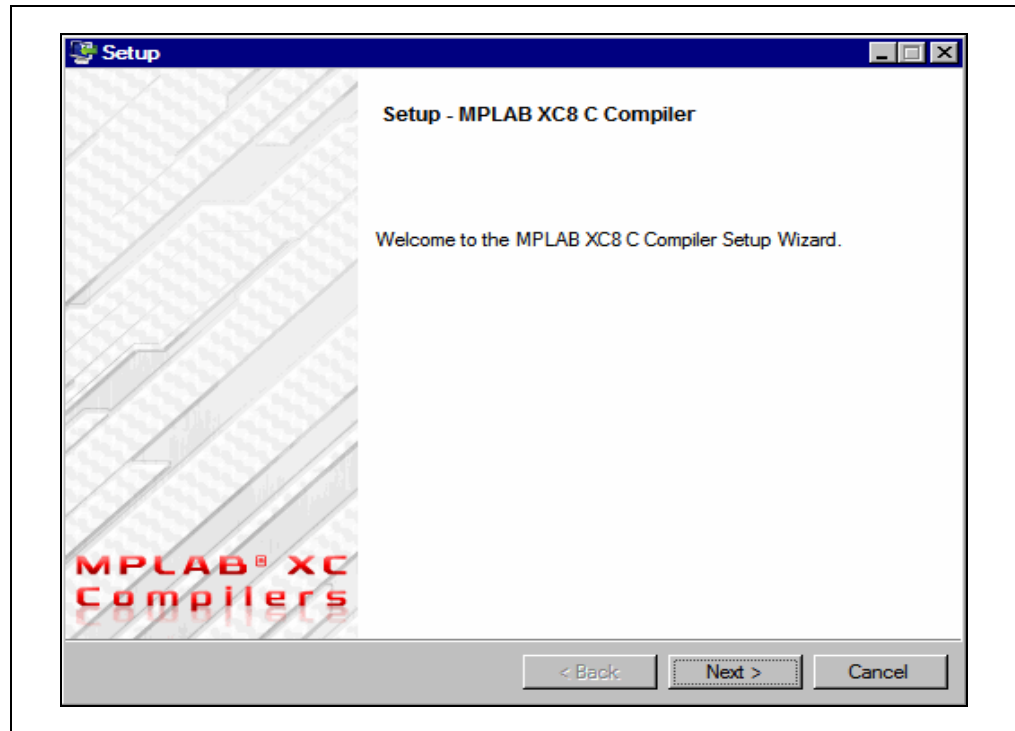
XC Installer & License Manager

Step 2: License Agreement

Read the license agreement and accept the agreement to proceed. When you accept, **Next** will become available and you may click it to continue.

If you do not agree, the install will terminate.

FIGURE 2-12:   **LICENSE AGREEMENT SCREEN**
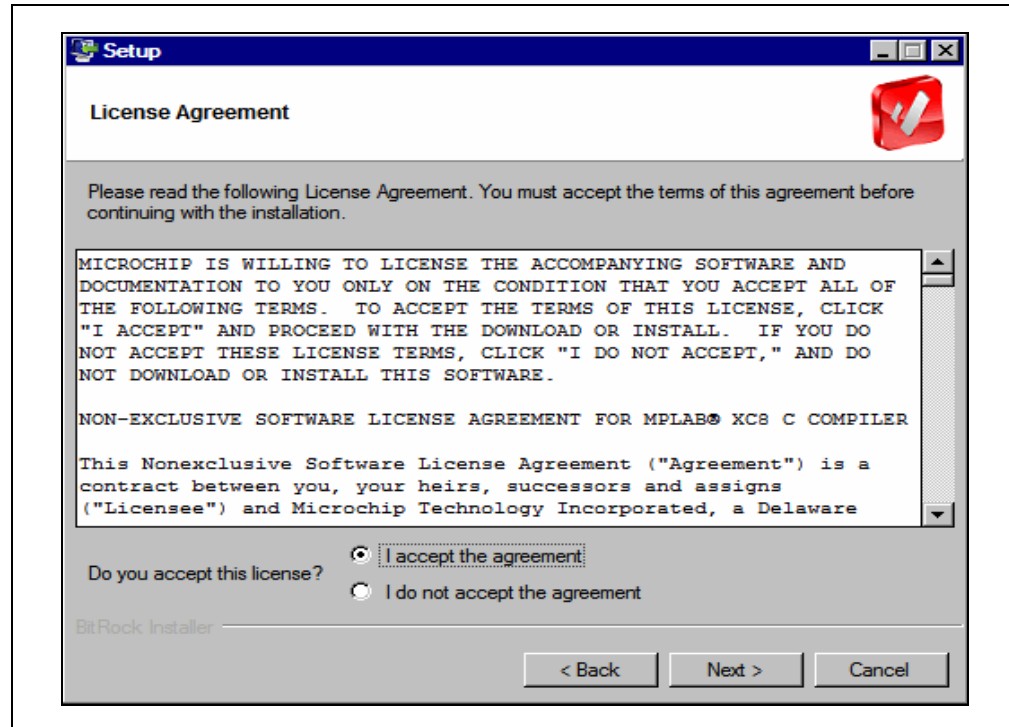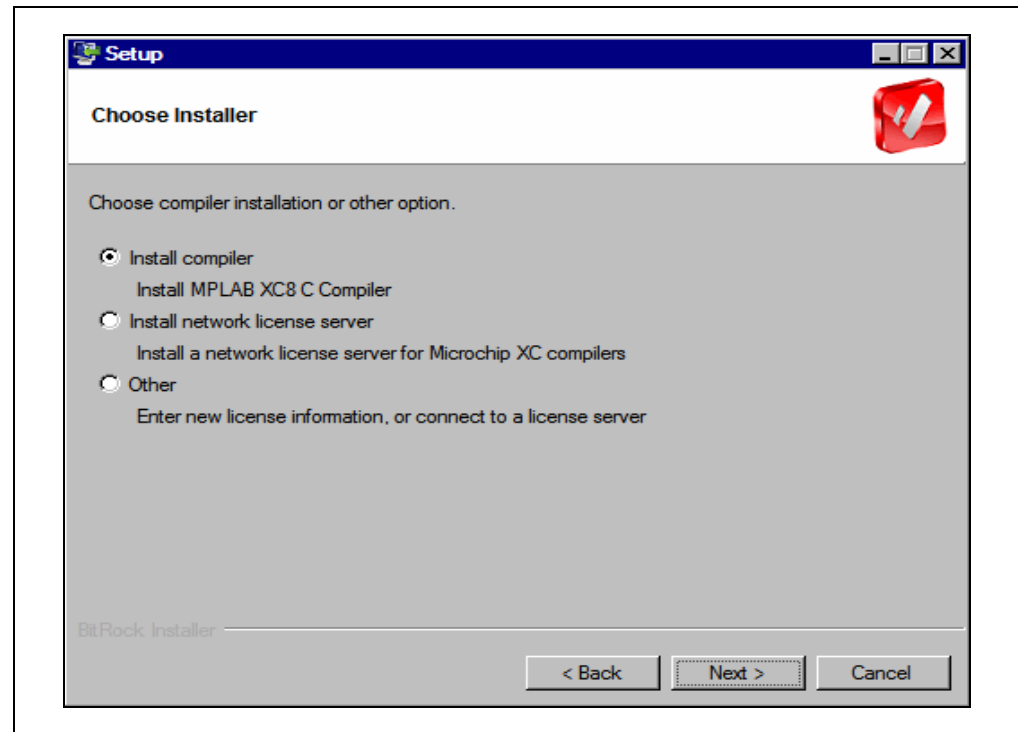
Step 3: Choose Installer

Choose "Install Compiler". Click **Next** to continue.

FIGURE 2-13:   CHOOSE INSTALLER SCREEN

Step 4: Installation Type

Choose "Install MPLAB XC8 C Compiler on this computer." Click **Next** to continue.

FIGURE 2-14:   INSTALLATION TYPE SCREEN
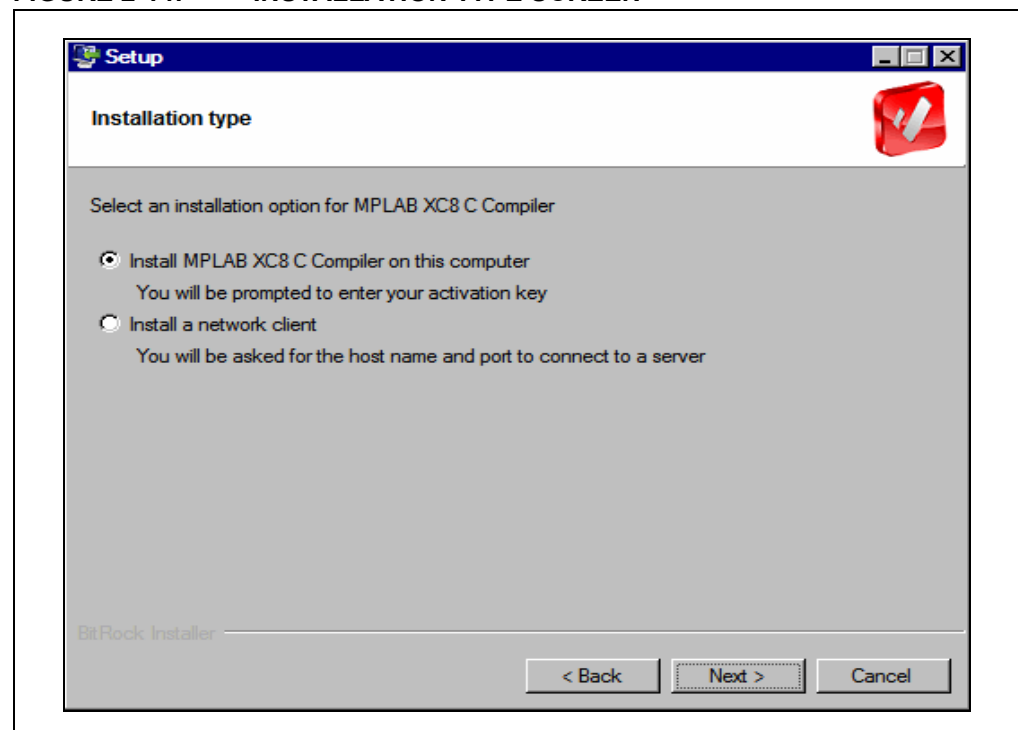
Step 5: License Activation Key

Leave this text box blank. Click **Next** to continue.

A pop-up window will verify that you want to leave the License Key blank. Click **Yes**.

FIGURE 2-15:   LICENSE ACTIVATION KEY SCREEN
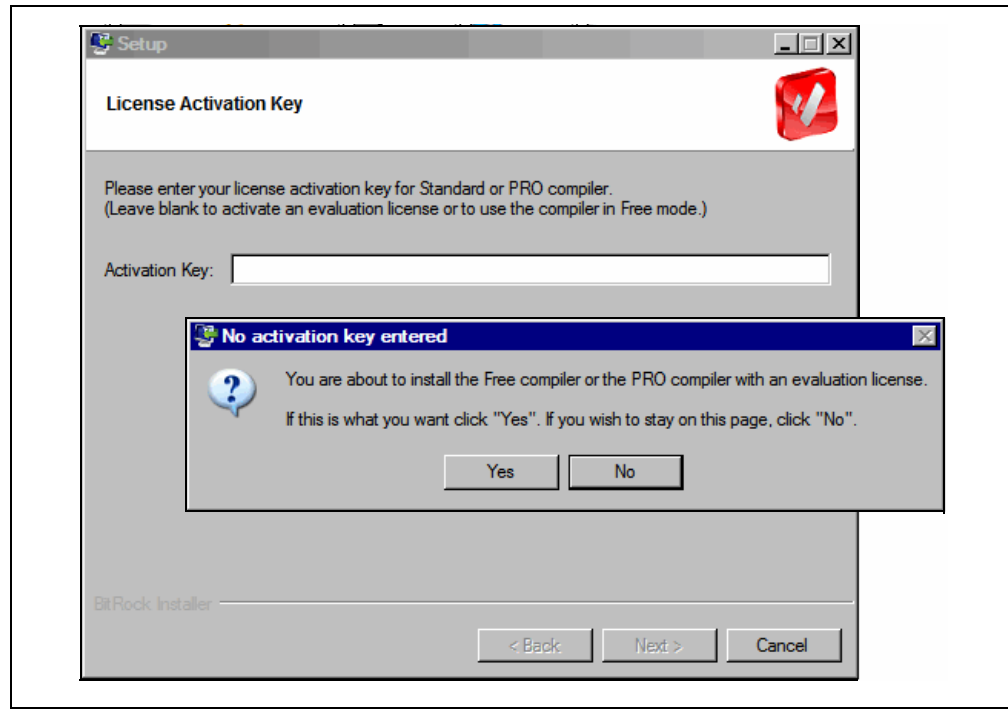
Step 6: Install Free or Evaluation Compiler

Select "Activate Evaluation license". Click **Next** to continue.

A pop-up window will display the results of the activation. Another pop-up window will announce when the activation is complete. Click **OK**.

FIGURE 2-16:   FREE OR EVALUATION SCREEN
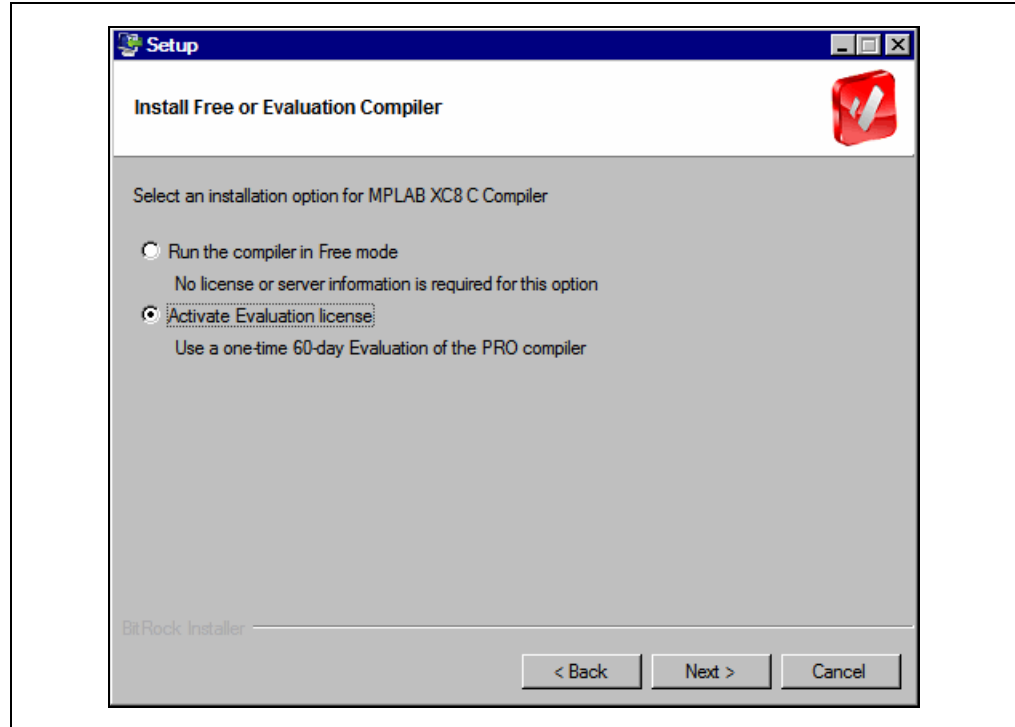
Step 7: Installation Directory

Enter or browse to a location to install your compiler. It is recommended that you use the default location displayed in the dialog. Click **Next** to continue.

FIGURE 2-17:   **INSTALLATION DIRECTORY SCREEN**
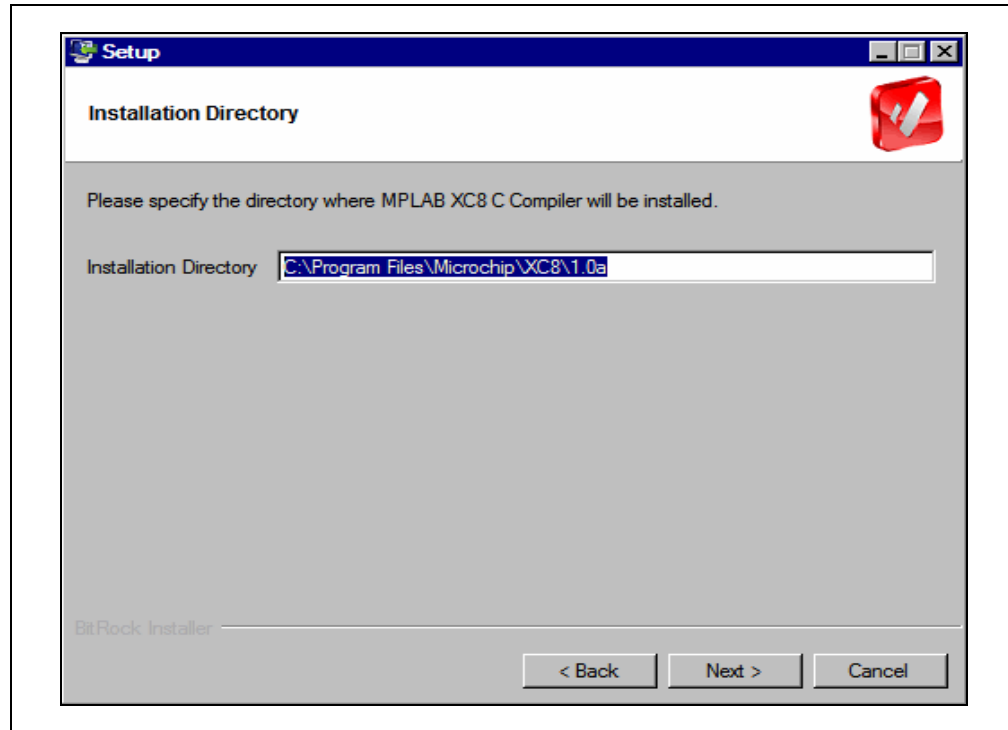
Step 8: Ready to Install and Installing

You are now set up to install the compiler. This is your chance to make changes to the install by using the **Back** button. If you are ready to install, click **Next** to continue.

The next dialog shows the progress of the install. When it is complete, click **Next** to continue.

FIGURE 2-18:   **READY TO INSTALL SCREEN**
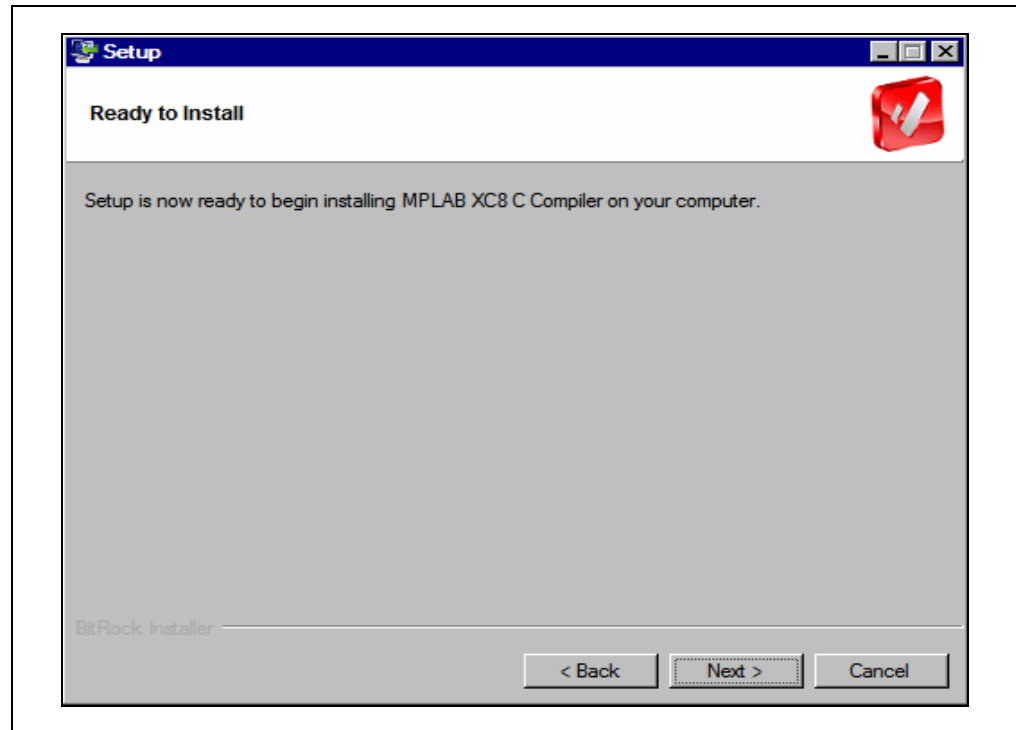
FIGURE 2-19:   **INSTALLING SCREEN**
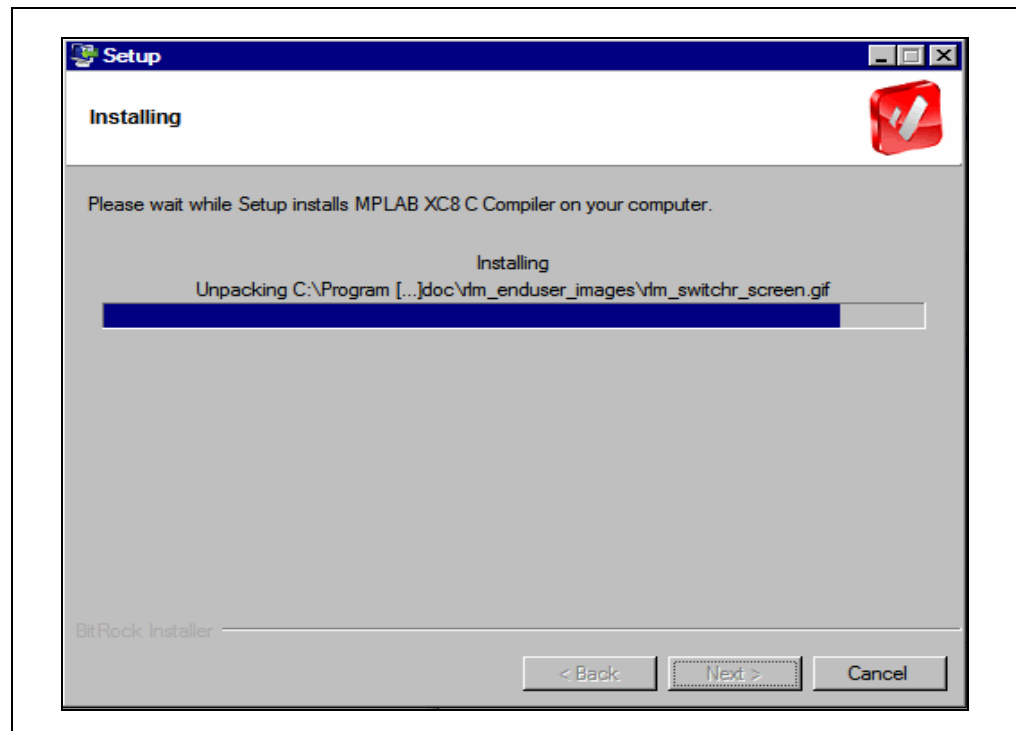
XC Installer & License Manager

Step 9: Completing Setup

The compiler has now been installed and licensed. Click **Finish** to complete the install.

If you wish to make changes, you can run the installer again and update your install.

FIGURE 2-20:   **COMPLETING SETUP SCREEN**

2.3 INSTALL A COMPILER AND CREATE A LICENSE WITH AN ACTIVATION KEY

The typical installation of a compiler is for a single user on one computer. To install and license your compiler, follow the steps below.

You may install up to three (3) licenses.

Step 1: Welcome

Launch the compiler installation executable. An "MPLAB Certified" splash screen will appear and then disappear. Then the Welcome screen will appear. Click **Next** to continue.

FIGURE 2-21: WELCOME SCREEN
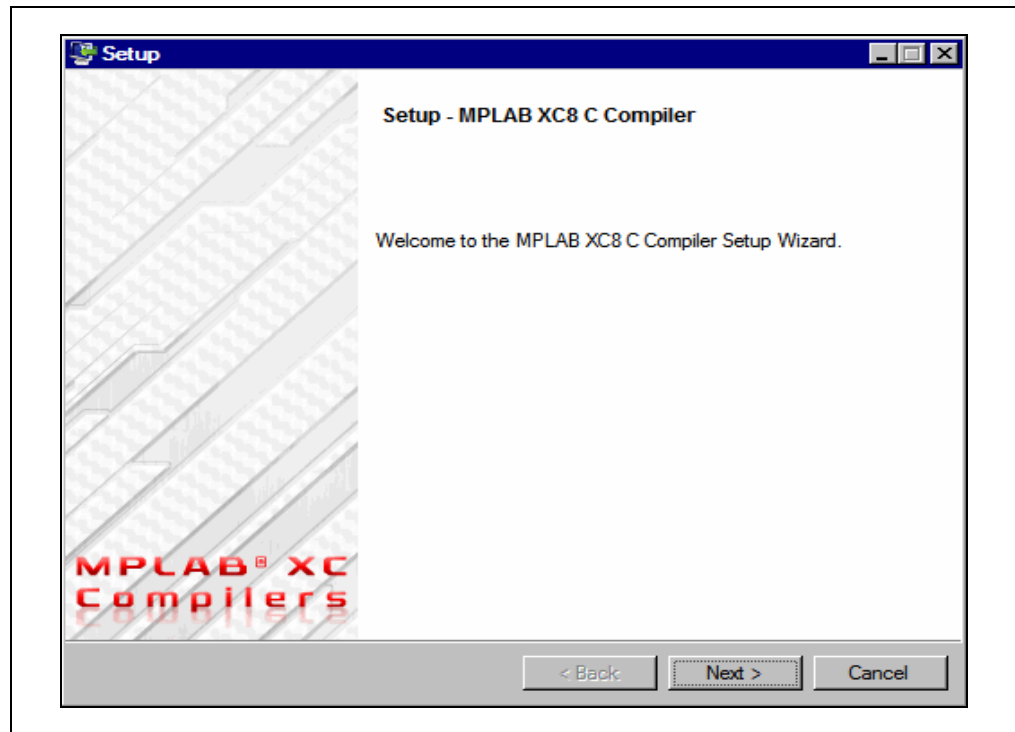
XC Installer & License Manager

Step 2: License Agreement

Read the license agreement and accept the agreement to proceed. When you accept, **Next** will become available and you may click it to continue.

If you do not agree, the install will terminate.

FIGURE 2-22: LICENSE AGREEMENT SCREEN

Step 3: Choose Installer

Choose "Install Compiler". Click **Next** to continue.

FIGURE 2-23:   CHOOSE INSTALLER SCREEN

Step 4: Installation Type

Choose "Install MPLAB XC8 C Compiler on this computer." Click **Next** to continue.

FIGURE 2-24:   INSTALLATION TYPE SCREEN
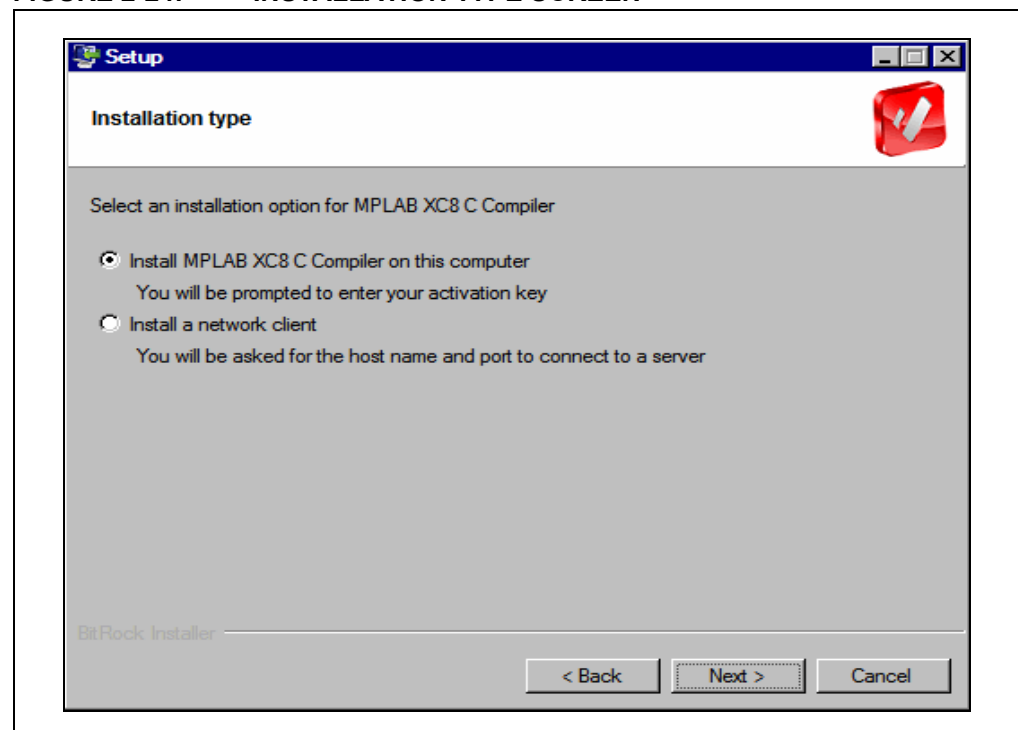
XC Installer & License Manager

Step 5: License Activation Key

Enter your license activation key here. You should have received this key when you purchased your compiler.

If you did not, please contact Microchip customer support at the following URL:

http://www.microchip.com/support

Click **Next** to continue.

A pop-up window will display the results of the activation. Another pop-up window will announce when the activation is complete. Click **OK**.

FIGURE 2-25:   **LICENSE ACTIVATION KEY SCREEN**
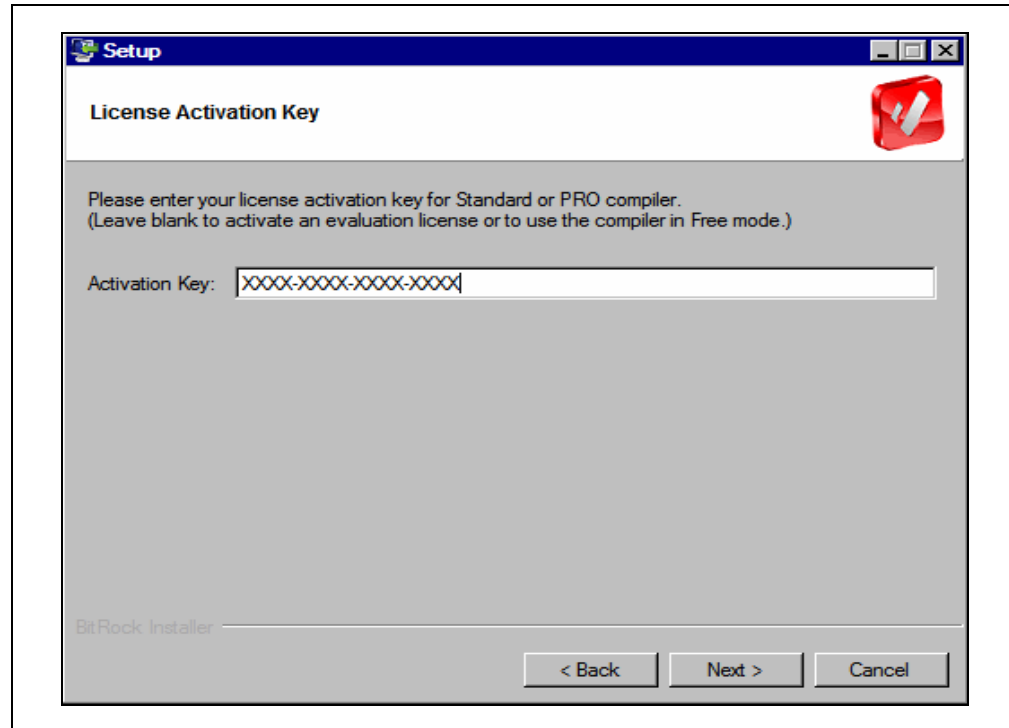
Step 6: Installation Directory

Enter or browse to a location to install your compiler. It is recommended that you use the default location displayed in the dialog. Click **Next** to continue.

FIGURE 2-26:   **INSTALLATION DIRECTORY SCREEN**
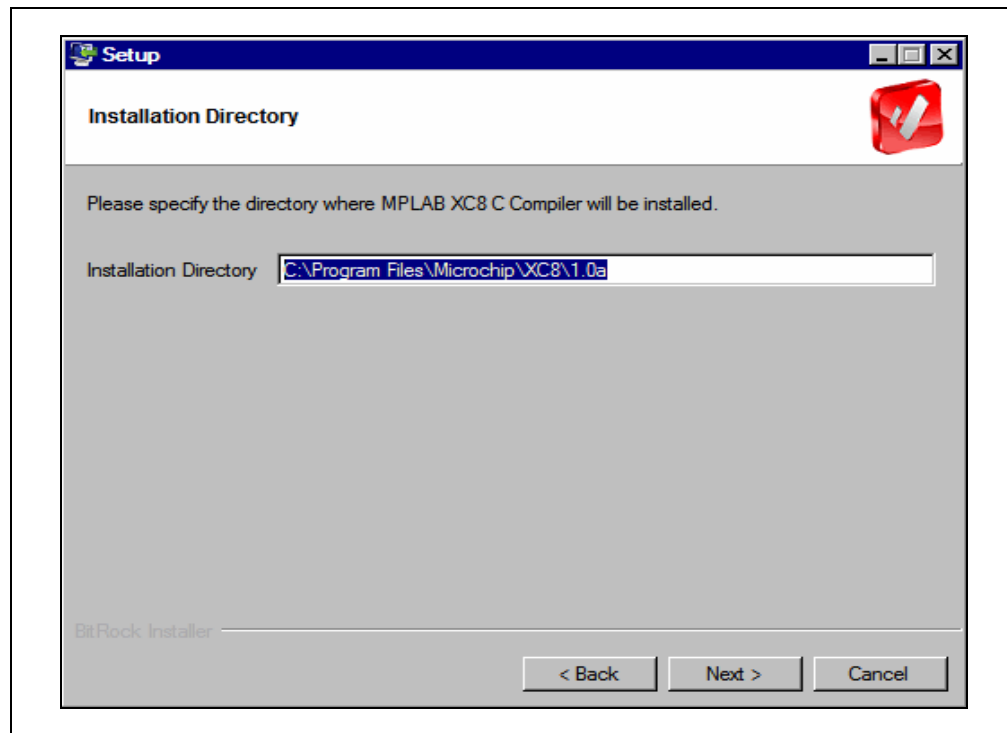
Step 7: Ready to Install and Installing

You are now set up to install the compiler. This is your chance to make changes to the install by using the **Back** button. If you are ready to install, click **Next** to continue.

The next dialog shows the progress of the install. When it is complete, click **Next** to continue.

FIGURE 2-27:   READY TO INSTALL SCREEN
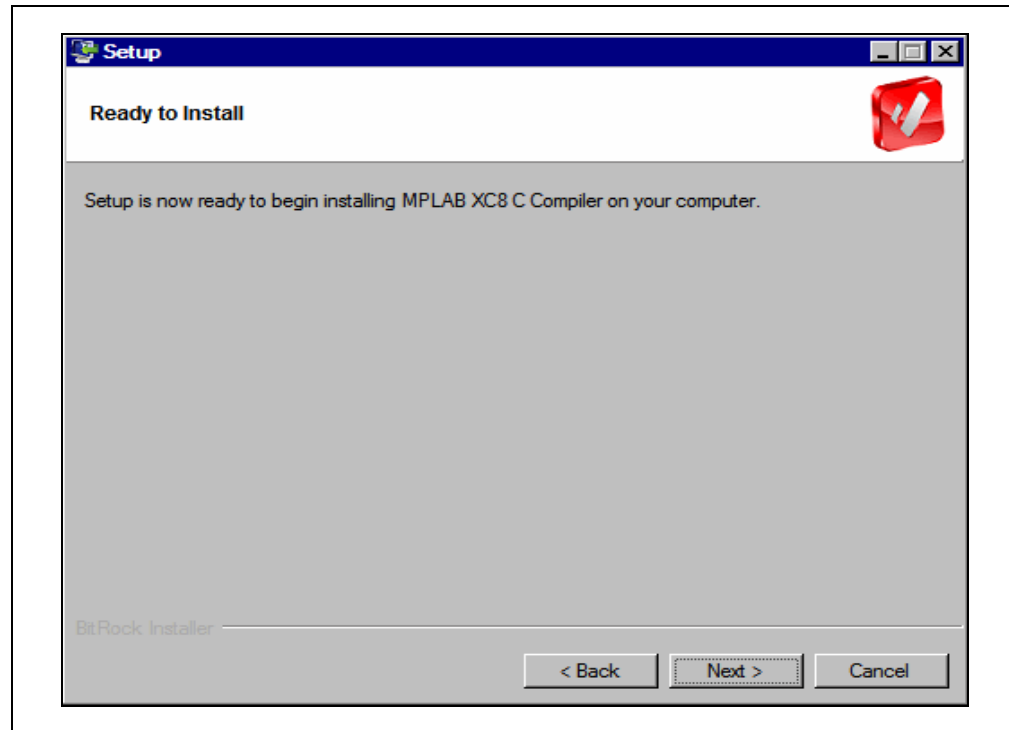
FIGURE 2-28:   INSTALLING SCREEN
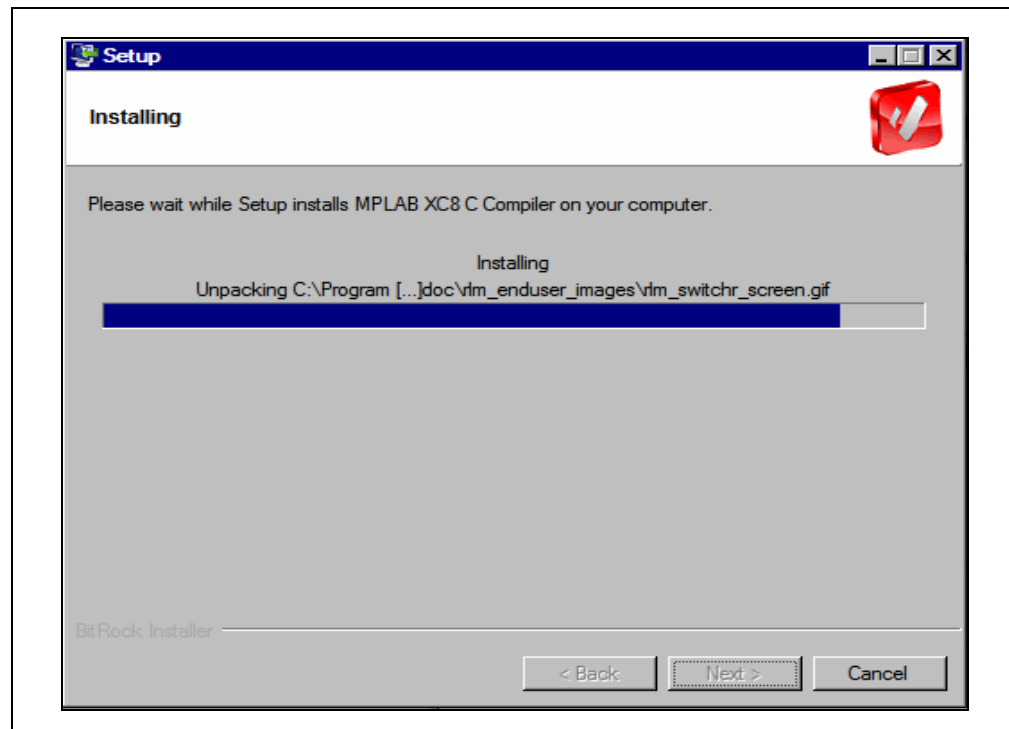
Step 8: Completing Setup

The compiler has now been installed and licensed. Click **Finish** to complete the install.

If you wish to make changes, you can run the installer again and update your install.

FIGURE 2-29:   COMPLETING SETUP SCREEN

2.4   NETWORK LICENSE SERVER/CLIENT SETUP

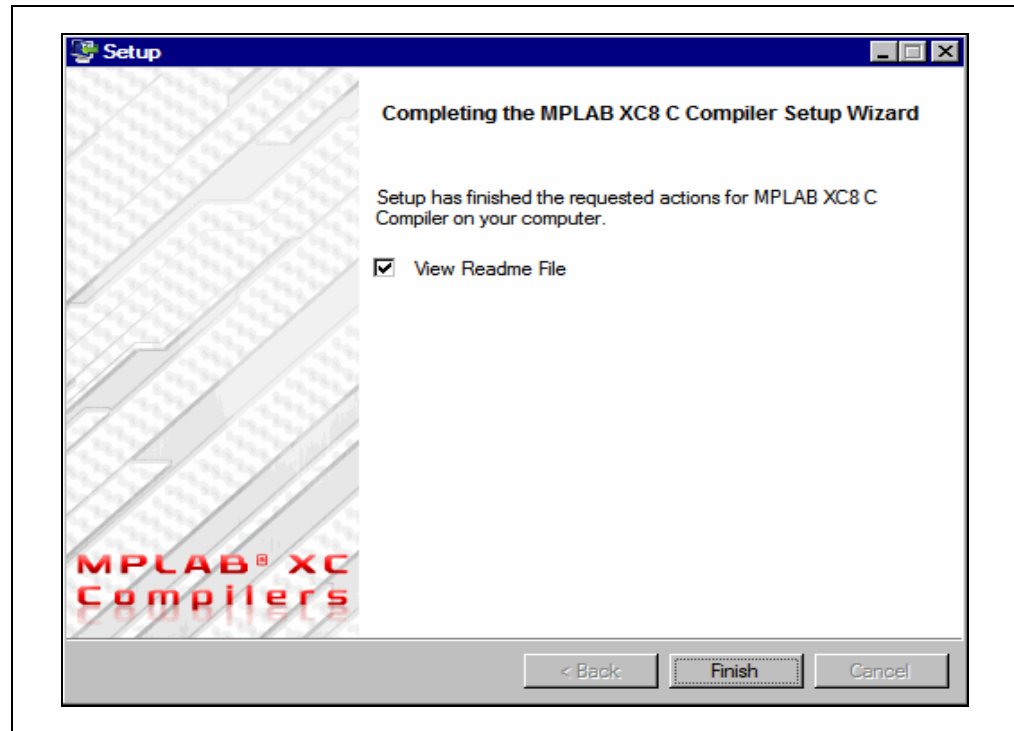You may use a computer network to set up a license server and client(s). To do this, use one computer to host the license server and license files. Then other network computers will contain a compiler and a license manager that is configured to acquire licenses from the license server.

Only computers with operating systems supported by the MPLAB XC C compilers may be used to host the license server. Specifically, Windows® Server platforms are not supported. Currently supported compiler operating systems are listed in the MPLAB XC C compiler release notes.

To install the license server, please follow the steps in **Section 2.4.1 "Install a License Server on a Network Computer"**. These will install the network-specific license files onto your computer. You may install to only one license server.

Once installed, the license server can be found by navigating to the bin directory of the xclm folder, which is located in the default Microchip installation directory. The server can be started by running the rlm executable.

To install a license client, please follow the steps in **Section 2.4.2 "Install a Compiler and Connect to the Network Configuration (Client)"**. This installation process will ask for details about the network license server.

Once configured, compiler executions on the network license client will connect to the network license server to check out a license. This license will be available for immediate use. However, when the compiler is exited, there is a 60-minute delay before that server license can be used by other clients.

FIGURE 1-1:   **NETWORK LICENSE CLIENT/SERVER MODEL**
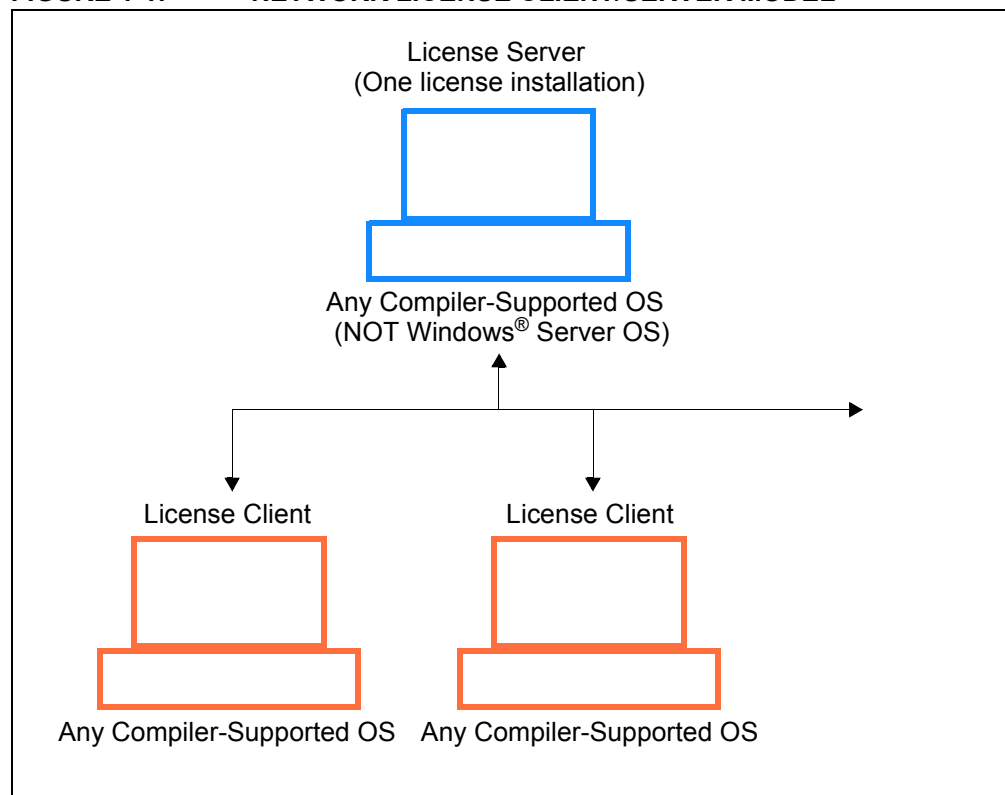
2.4.1 Install a License Server on a Network Computer

To install the license server on a network computer, follow the steps below.

Step 1: Welcome

Launch the compiler installation executable. An "MPLAB Certified" splash screen will appear and then disappear. Then, the Welcome screen will appear. Click **Next** to continue.

FIGURE 2-30: WELCOME SCREEN
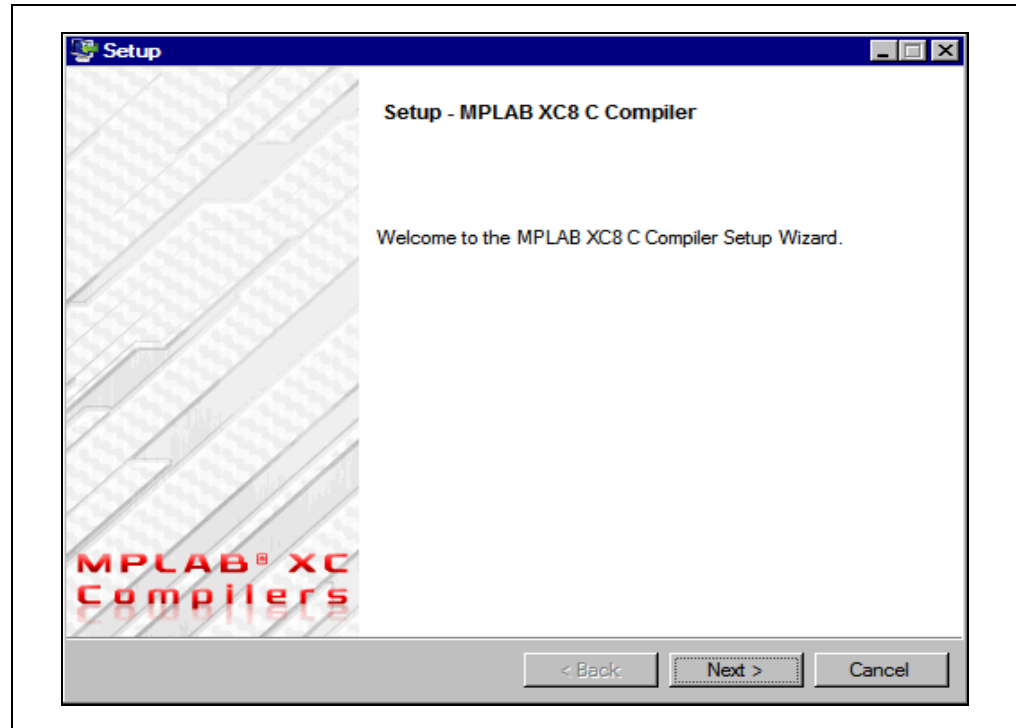
Step 2: License Agreement

Read the license agreement and accept the agreement to proceed. When you accept, **Next** will become available and you may click it to continue.

If you do not agree, the install will terminate.

FIGURE 2-31:   **LICENSE AGREEMENT SCREEN**

Step 3: Choose Installer

Choose "Install network license server" and click **Next** to continue.

FIGURE 2-32:   CHOOSE INSTALLER SCREEN

XC Installer & License Manager
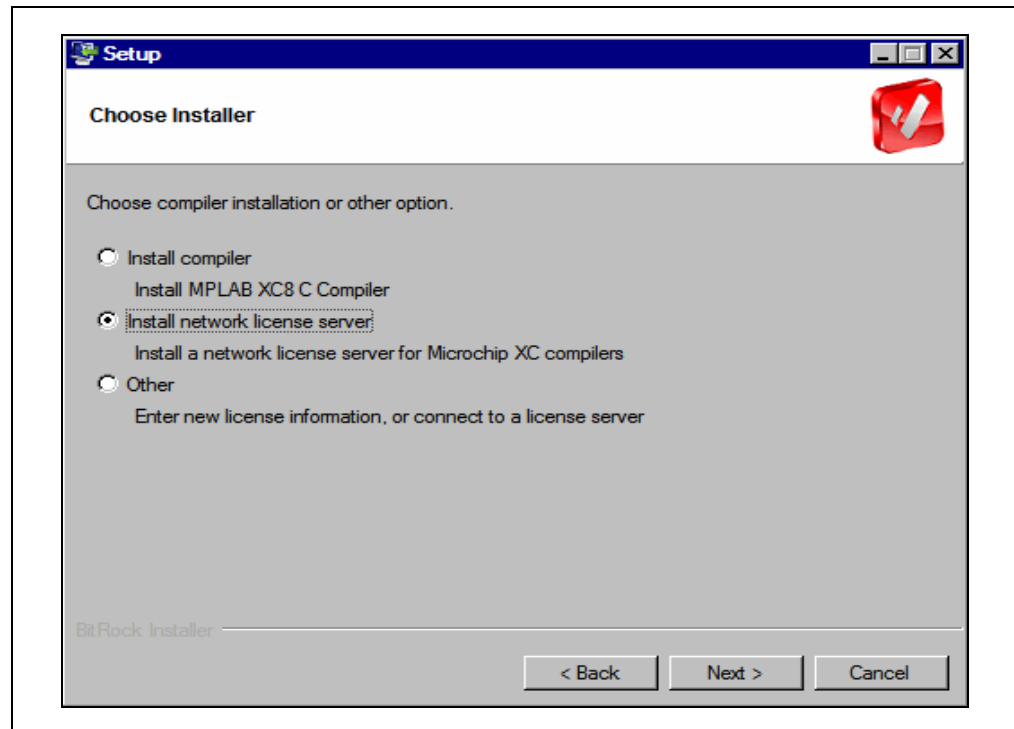
Step 4: License Activation Key
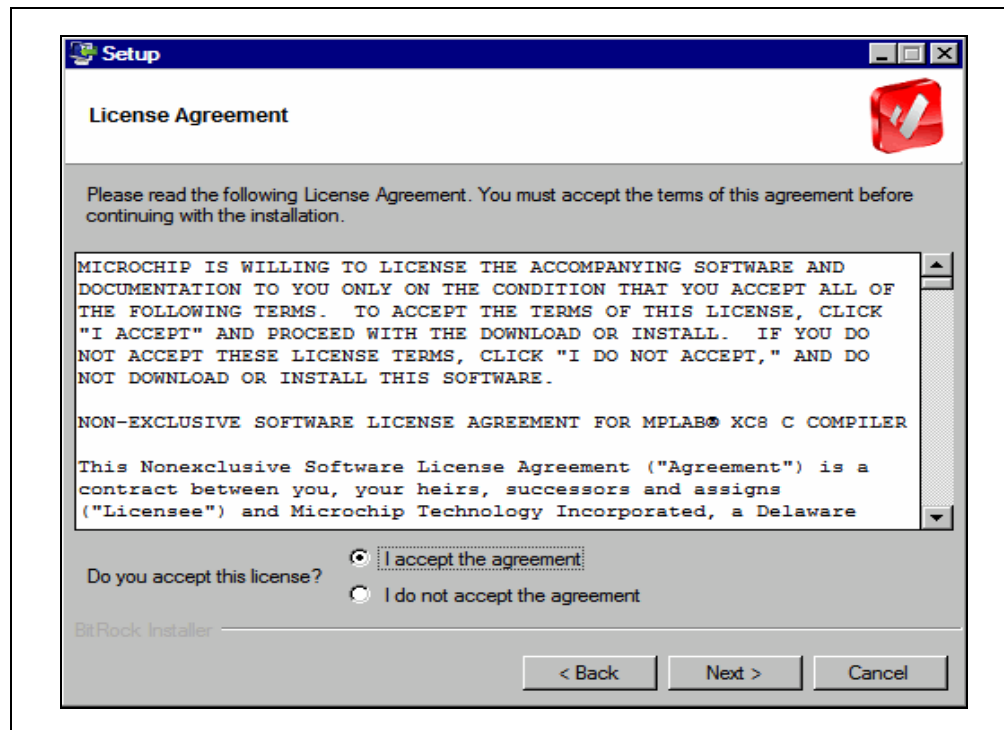
Enter your license activation key here. You should have received this key when you purchased your compiler.

If you did not, please contact Microchip customer support at the following URL:

http://www.microchip.com/support

If you do not need to activate any licenses, just leave this field blank and click **Next**.

A pop-up window will display the results of the activation. Another pop-up window will announce when the activation is complete. Click **OK**.

FIGURE 2-33:   SERVER LICENSE ACTIVATION SCREEN
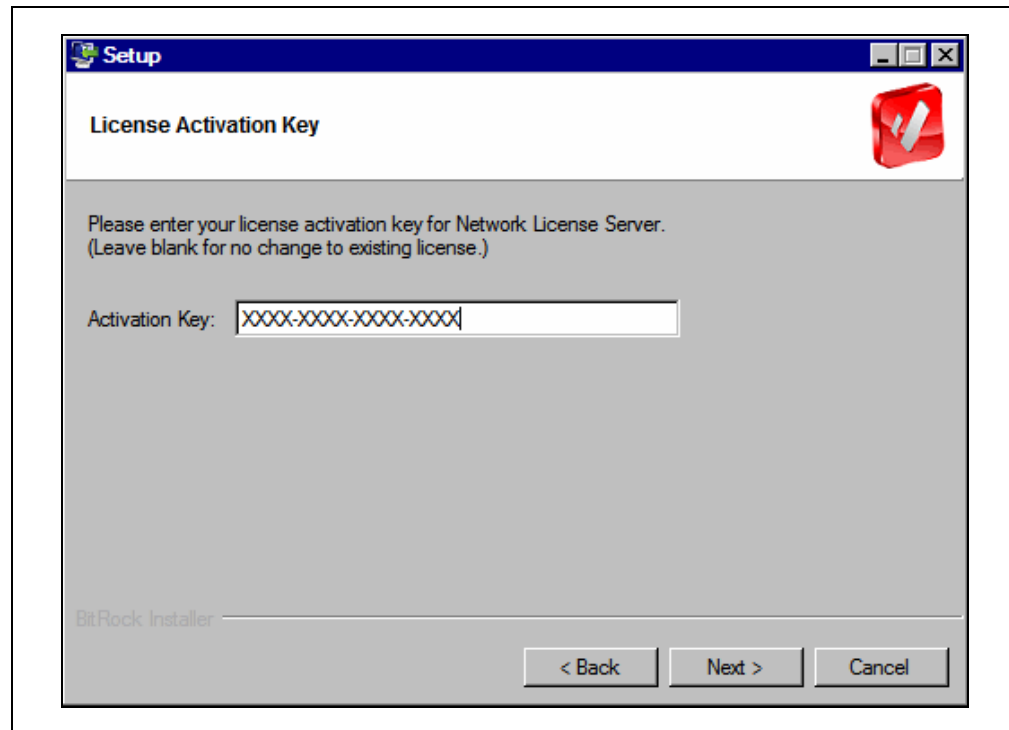
Step 5: Ready to Install Network License Server

You are now ready to install the network license server.

Clicking **Next** will display the next dialog which shows the progress of the install. When it is complete, click **Next** to continue.

FIGURE 2-34:   READY TO INSTALL SCREEN
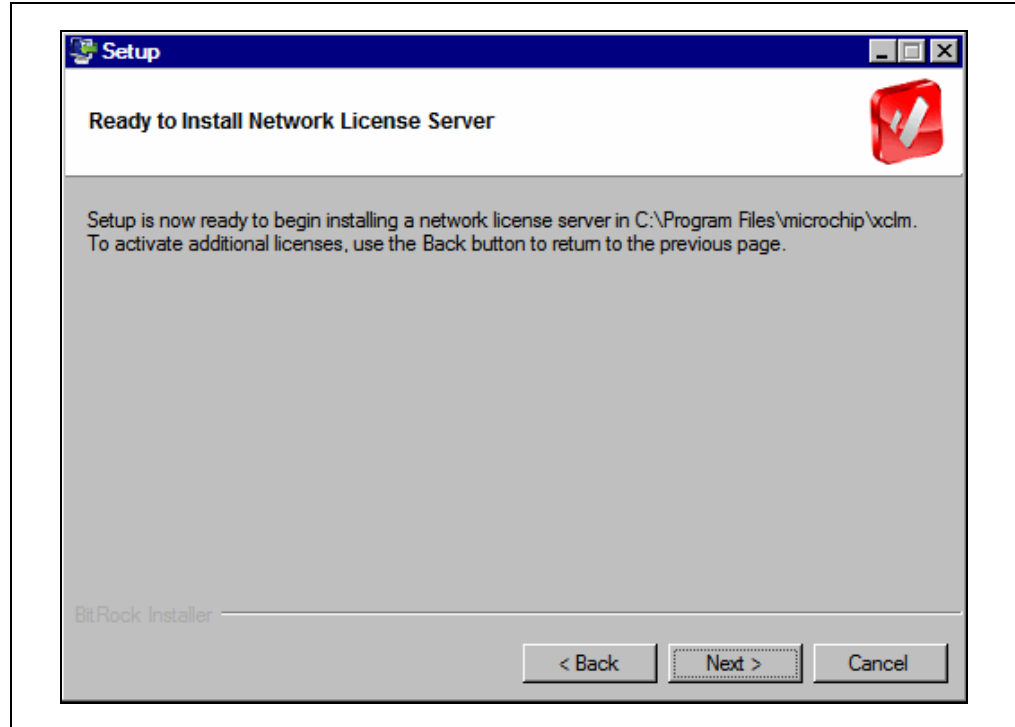
Step 6: Completing Setup

The license server has now been installed. Click **Finish** to complete the install.

If you wish to make changes, you can run the installer again and update your install.

FIGURE 2-35:   COMPLETING SETUP SCREEN
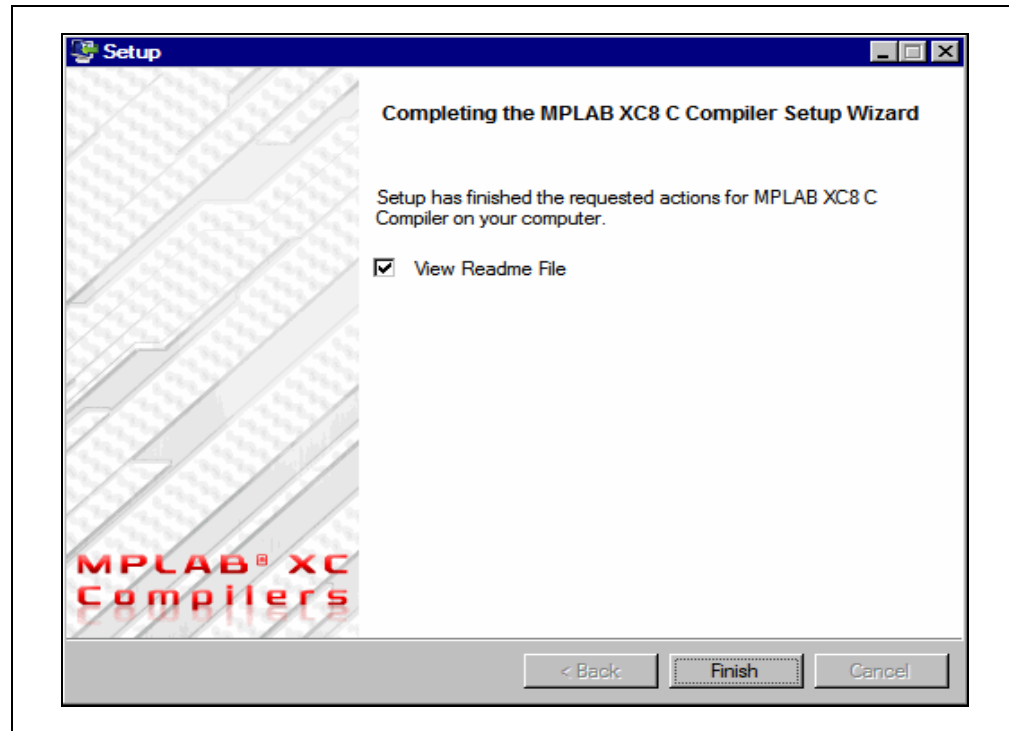
2.4.2 Install a Compiler and Connect to the Network Configuration (Client)

When the compiler runs on the network license client, the license manager will check out licenses from the network license server. This section summarizes how the network client compiler is installed.

Step 1: Welcome

Launch the compiler installation executable. An "MPLAB Certified" splash screen will appear and then disappear. Then the Welcome screen will appear. Click **Next** to continue.

FIGURE 2-36:   **WELCOME SCREEN**
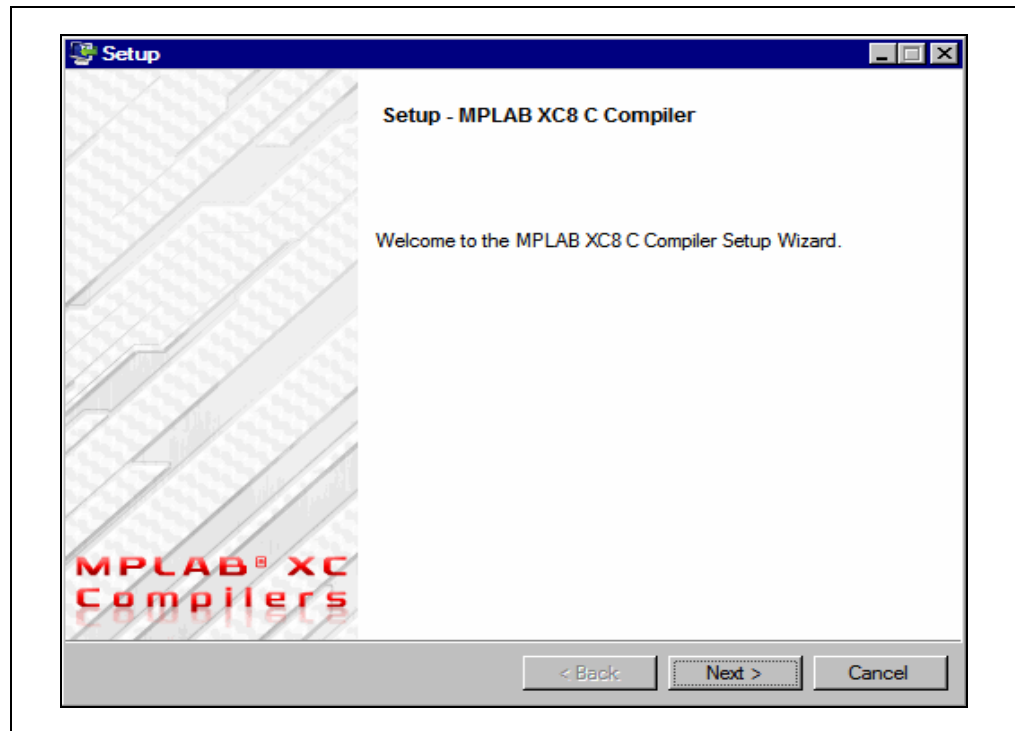
XC Installer & License Manager

Step 2: License Agreement

Read the license agreement and accept the agreement to proceed. When you accept, **Next** will become available and you may click it to continue.

If you do not agree, the install will terminate.

FIGURE 2-37:   LICENSE AGREEMENT SCREEN

© 2012 Microchip Technology Inc.

Step 3: Choose Installer

Choose "Other". Click **Next** to continue.

FIGURE 2-38:   CHOOSE INSTALLER SCREEN
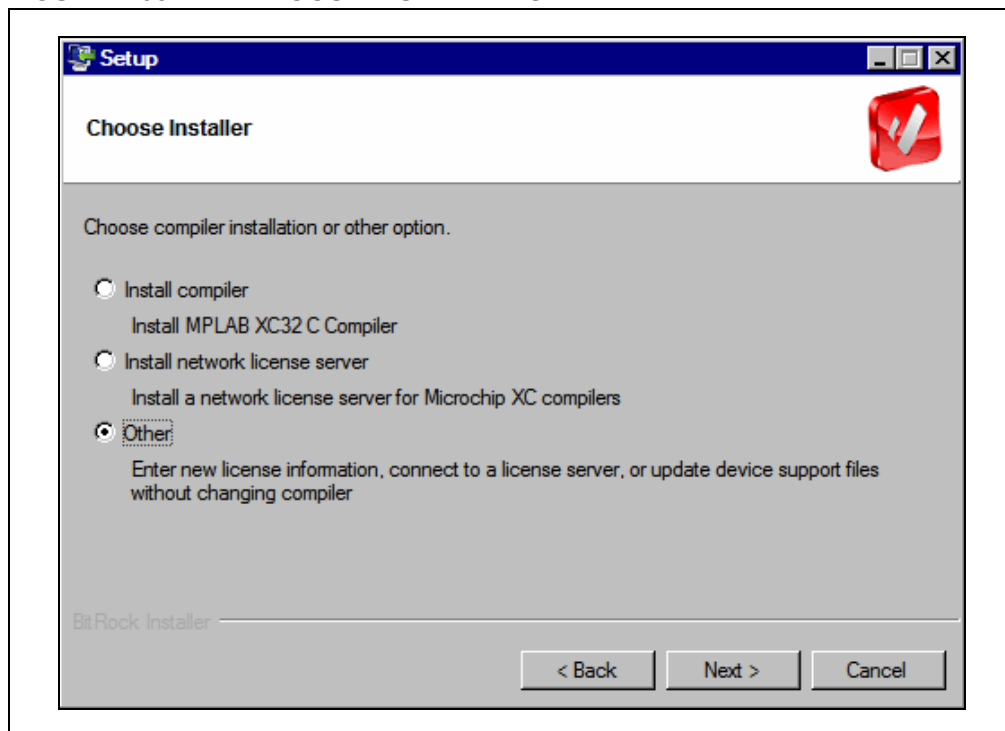
XC Installer & License Manager

Step 4: Other Options

Choose "Network license server information" and click **Next** to continue.

FIGURE 2-39:   **OTHER OPTIONS SCREEN**

               © 2012 Microchip Technology Inc.
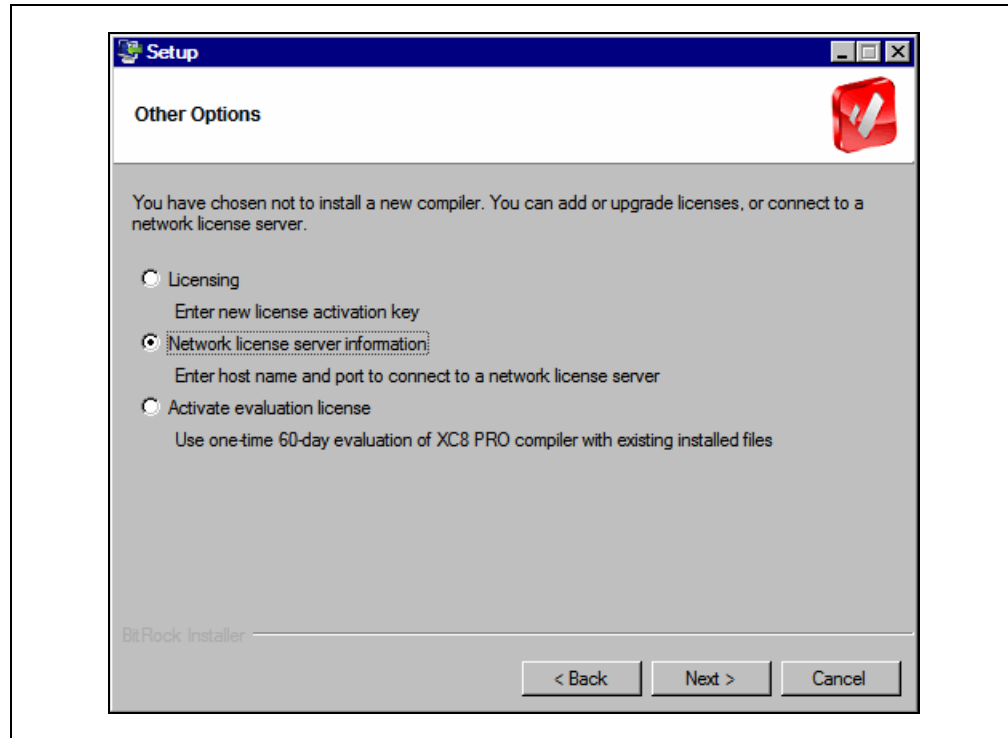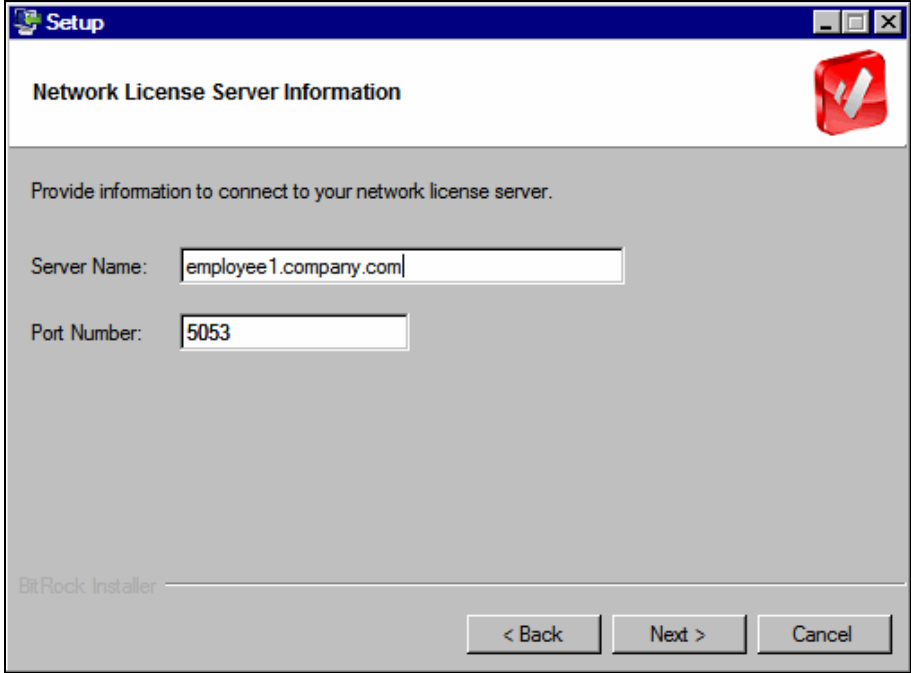
Step 5: Network License Server Information

Enter information about the network license server here. This information should be provided by your local network administrator.

Server Name refers to the IP address or host name of the network license server where licenses are hosted.

Port Number is the port which the network server will use to distribute licenses. A default port of 5053 is already filled in. The network license server will always run on this port, unless otherwise specified.

FIGURE 2-40:   NETWORK LICENSE SERVER SCREEN

Step 6: Installation Directory

Enter or browse to a location to install your compiler. It is recommended that you use the default location displayed in the dialog. Click **Next** to continue.

FIGURE 2-41:   **INSTALLATION DIRECTORY SCREEN**
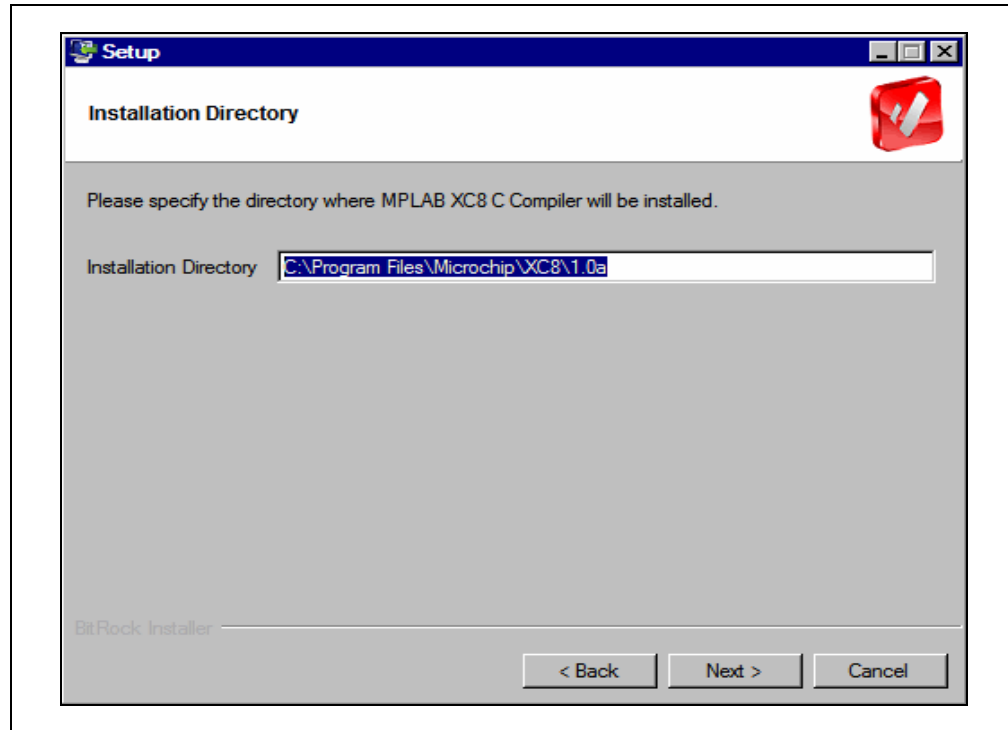
Step 7: Ready to Install and Installing

You are now set up to install the compiler. This is your chance to make changes to the install by using the **Back** button. If you are ready to install, click **Next** to continue.

The next dialog shows the progress of the install. When it is complete, click **Next** to continue.

FIGURE 2-42:   READY TO INSTALL SCREEN
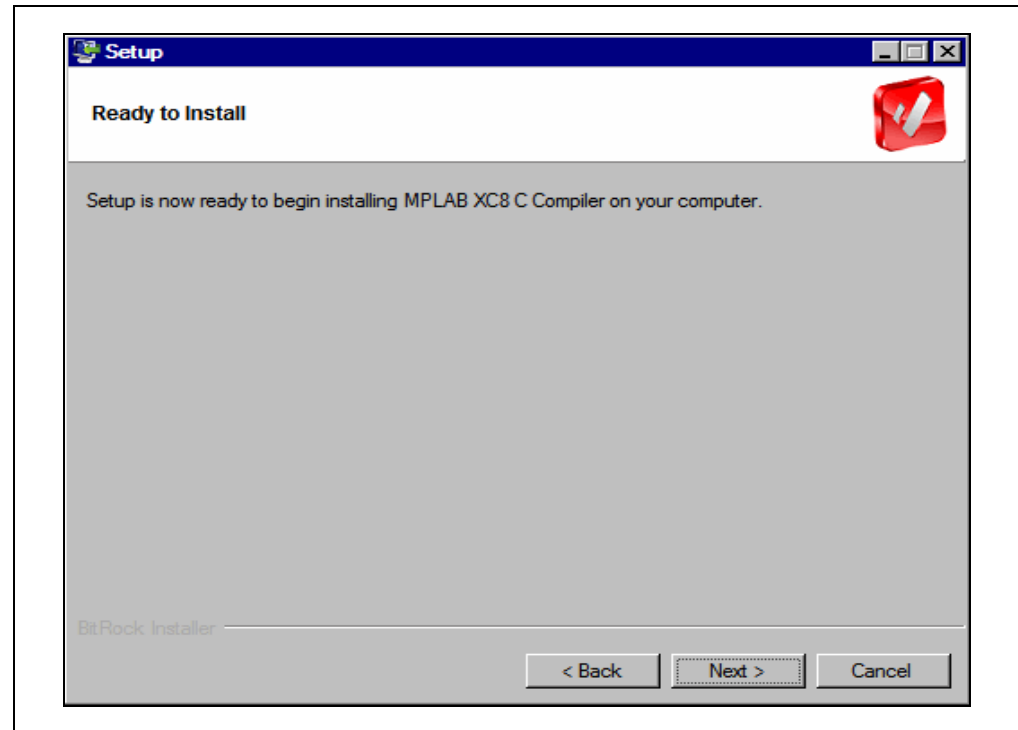
FIGURE 2-43:   INSTALLING SCREEN
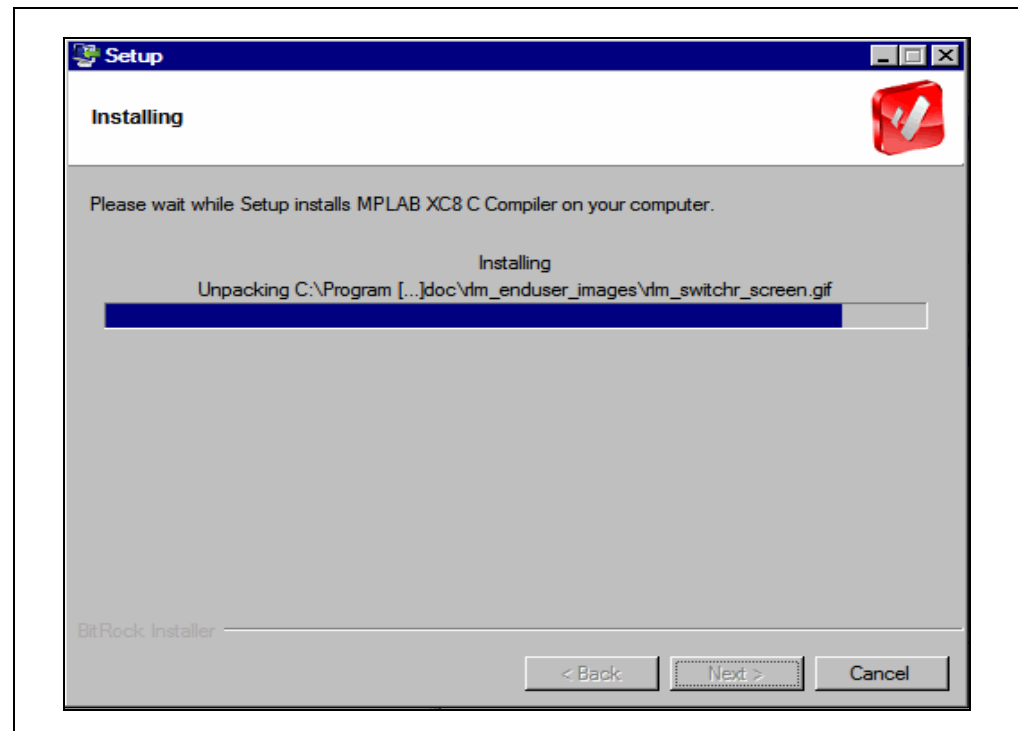
Step 8: Completing Setup

The compiler has now been installed and licensed. Click **Finish** to complete the install.

If you wish to make changes, you can run the installer again and update your install.

FIGURE 2-44: **COMPLETING SETUP SCREEN**
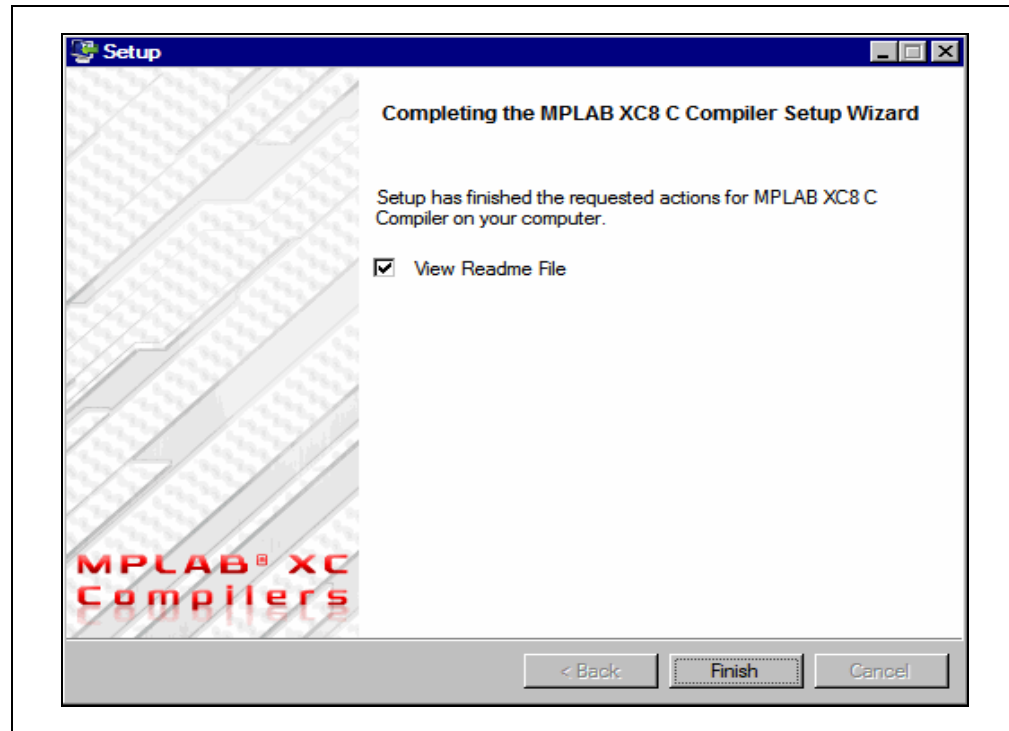
2.5   OTHER OPTIONS

In addition to the installations mentioned previously, you may use the installer to activate a license, reconfigure a client machine, or activate and download an evaluation license.

Step 1: Welcome

Launch the compiler installation executable. An "MPLAB Certified" splash screen will appear and then disappear. Then the Welcome screen will appear. Click **Next** to continue.

FIGURE 2-45:   WELCOME SCREEN
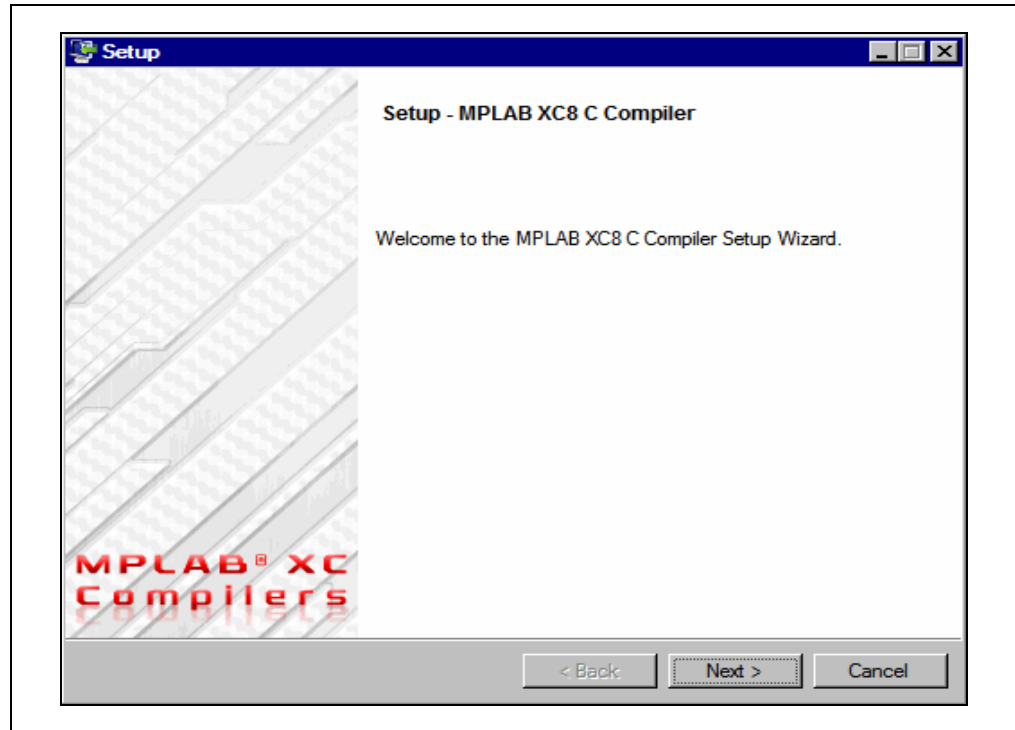
Step 2: License Agreement

Read the license agreement and accept the agreement to proceed. When you accept, **Next** will become available and you may click it to continue.

If you do not agree, the install will terminate.

FIGURE 2-46: **LICENSE AGREEMENT SCREEN**

Step 3: Choose Installer

Choose "Other". Click **Next** to continue.

FIGURE 2-47:   CHOOSE INSTALLER SCREEN
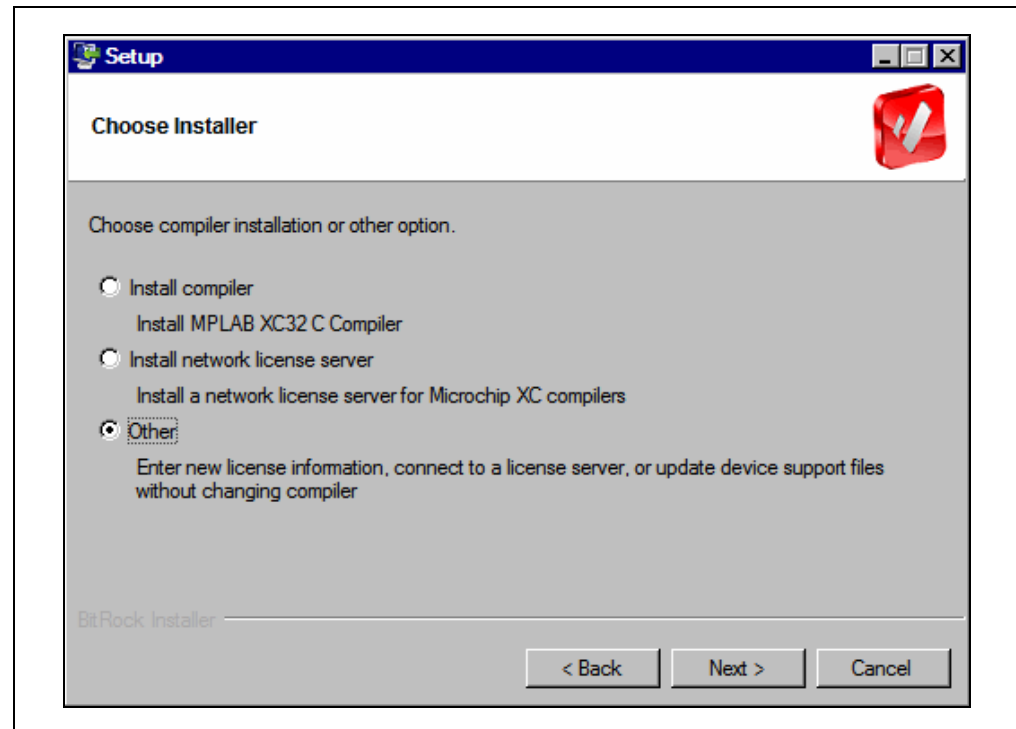
Step 4: Choose Other Options

Choose an option and click **Next** to continue. A summary of these options follows.

FIGURE 2-48: **OTHER OPTIONS SCREEN**
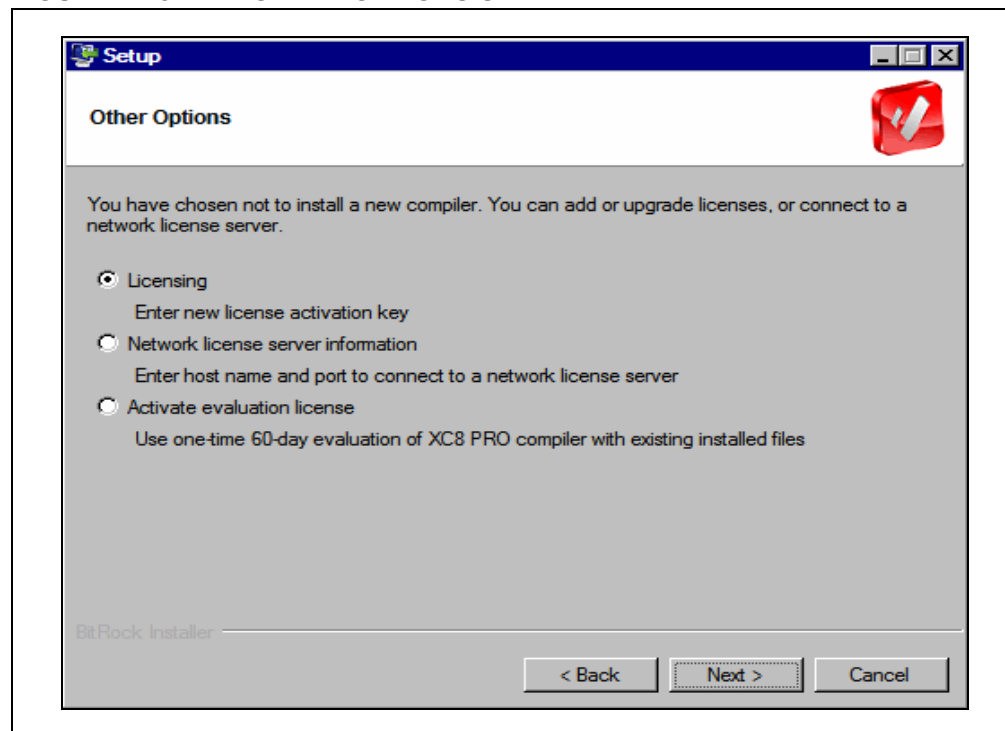
Licensing

This option can be used only to activate licenses. No other files will be installed.

Network License Server Information

This option is used to reconfigure a client machine in a network configuration. Every installation of a network client contains a configuration that points to a network server. If this network server changes the IP address or host name, this option should be used to reconfigure the server information. See **Section 2.4.2 "Install a Compiler and Connect to the Network Configuration (Client)"** for details.
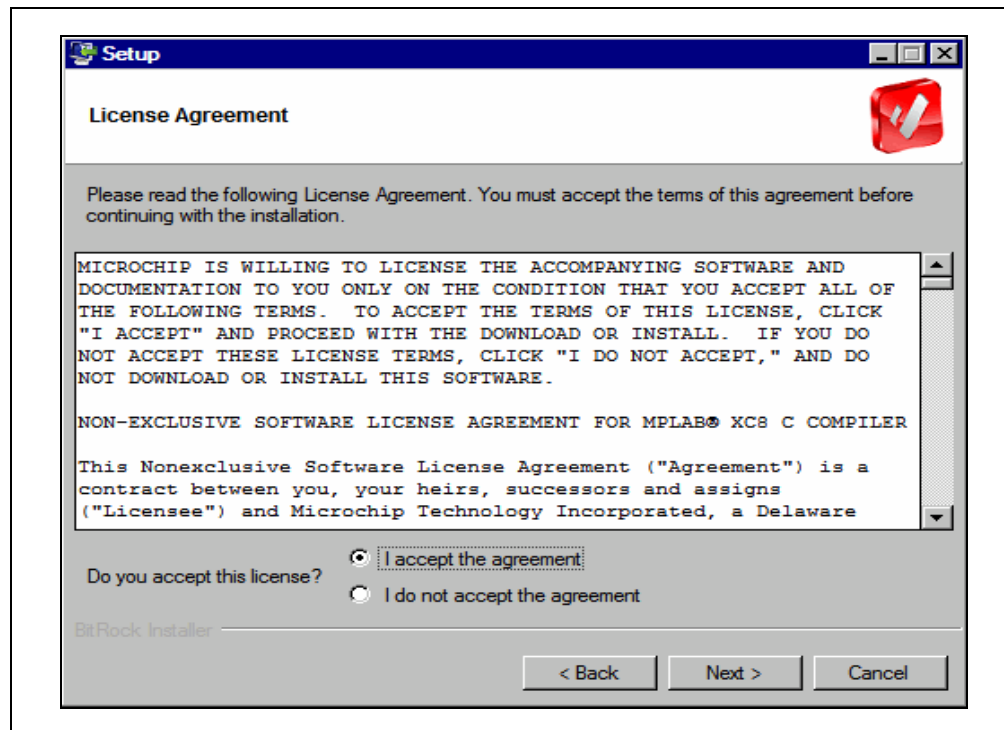
Activate Evaluation License

This option can be used to activate and download an evaluation license. Selecting this option will download the evaluation license which corresponds to the installer. For example, running this option on the XC32 installer will only activate the license for the XC32.

Every computer can activate an evaluation license once for each compiler without having to purchase and receive an activation key. This option can only be run once per compiler, during which a one-time 60-day evaluation license will be downloaded. Running this option for a second time will download the original evaluation license and will not reset the ending date of the evaluation.

2.6 UPGRADING THE COMPILER

To install updates to your compiler, run the update installer up to "License Activation Key". Instead of re-entering your activation key, just leave this text box blank and click **Next** to continue. A pop-up window will verify that you want to leave the License Key blank. Click **Yes**. The installer will then detect the license on your computer and continue to install the upgrade.

2.7 UNINSTALLING THE COMPILER

To uninstall the compiler, follow the steps below.

Step 1: Launch Uninstaller

Go to the compiler installation directory and launch "Uninstall MPLAB XC C Compiler". You will be asked if you want to uninstall. Click **Yes**.

FIGURE 2-49: UNINSTALL YES/NO DIALOG
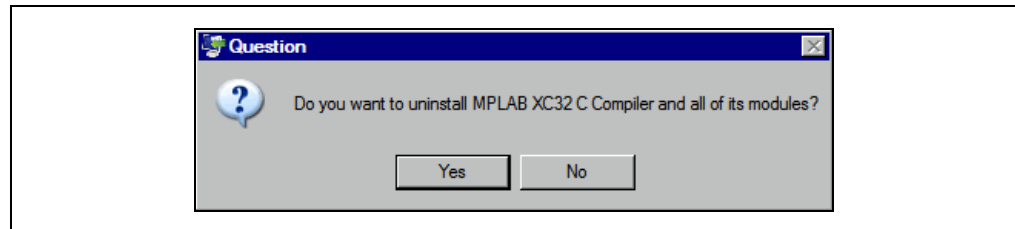
Step 2: Uninstalling

The uninstaller will proceed to remove all the compiler-related files from your system.

Step 3: Uninstall Complete

When the uninstall is done, it will display an "Uninstallation Complete" message. Click **OK** to finish.

> **Note:** The uninstaller does not remove directory structure or path references.

NOTES:

Index

Worldwide Sales and Service

AMERICAS

Corporate Office
2355 West Chandler Blvd.
Chandler, AZ 85224-6199
Tel: 480-792-7200
Fax: 480-792-7277
Technical Support:
http://www.microchip.com/
support
Web Address:
www.microchip.com

Atlanta
Duluth, GA
Tel: 678-957-9614
Fax: 678-957-1455

Boston
Westborough, MA
Tel: 774-760-0087
Fax: 774-760-0088

Chicago
Itasca, IL
Tel: 630-285-0071
Fax: 630-285-0075

Cleveland
Independence, OH
Tel: 216-447-0464
Fax: 216-447-0643

Dallas
Addison, TX
Tel: 972-818-7423
Fax: 972-818-2924

Detroit
Farmington Hills, MI
Tel: 248-538-2250
Fax: 248-538-2260

Indianapolis
Noblesville, IN
Tel: 317-773-8323
Fax: 317-773-5453

Los Angeles
Mission Viejo, CA
Tel: 949-462-9523
Fax: 949-462-9608

Santa Clara
Santa Clara, CA
Tel: 408-961-6444
Fax: 408-961-6445

Toronto
Mississauga, Ontario,
Canada
Tel: 905-673-0699
Fax: 905-673-6509

ASIA/PACIFIC

Asia Pacific Office
Suites 3707-14, 37th Floor
Tower 6, The Gateway
Harbour City, Kowloon
Hong Kong
Tel: 852-2401-1200
Fax: 852-2401-3431

Australia - Sydney
Tel: 61-2-9868-6733
Fax: 61-2-9868-6755

China - Beijing
Tel: 86-10-8569-7000
Fax: 86-10-8528-2104

China - Chengdu
Tel: 86-28-8665-5511
Fax: 86-28-8665-7889

China - Chongqing
Tel: 86-23-8980-9588
Fax: 86-23-8980-9500

China - Hangzhou
Tel: 86-571-2819-3187
Fax: 86-571-2819-3189

China - Hong Kong SAR
Tel: 852-2943-5100
Fax: 852-2401-3431

China - Nanjing
Tel: 86-25-8473-2460
Fax: 86-25-8473-2470

China - Qingdao
Tel: 86-532-8502-7355
Fax: 86-532-8502-7205

China - Shanghai
Tel: 86-21-5407-5533
Fax: 86-21-5407-5066

China - Shenyang
Tel: 86-24-2334-2829
Fax: 86-24-2334-2393

China - Shenzhen
Tel: 86-755-8864-2200
Fax: 86-755-8203-1760

China - Wuhan
Tel: 86-27-5980-5300
Fax: 86-27-5980-5118

China - Xian
Tel: 86-29-8833-7252
Fax: 86-29-8833-7256

China - Xiamen
Tel: 86-592-2388138
Fax: 86-592-2388130

China - Zhuhai
Tel: 86-756-3210040
Fax: 86-756-3210049

ASIA/PACIFIC

India - Bangalore
Tel: 91-80-3090-4444
Fax: 91-80-3090-4123

India - New Delhi
Tel: 91-11-4160-8631
Fax: 91-11-4160-8632

India - Pune
Tel: 91-20-2566-1512
Fax: 91-20-2566-1513

Japan - Osaka
Tel: 81-66-152-7160
Fax: 81-66-152-9310

Japan - Yokohama
Tel: 81-45-471- 6166
Fax: 81-45-471-6122

Korea - Daegu
Tel: 82-53-744-4301
Fax: 82-53-744-4302

Korea - Seoul
Tel: 82-2-554-7200
Fax: 82-2-558-5932 or
82-2-558-5934

Malaysia - Kuala Lumpur
Tel: 60-3-6201-9857
Fax: 60-3-6201-9859

Malaysia - Penang
Tel: 60-4-227-8870
Fax: 60-4-227-4068

Philippines - Manila
Tel: 63-2-634-9065
Fax: 63-2-634-9069

Singapore
Tel: 65-6334-8870
Fax: 65-6334-8850

Taiwan - Hsin Chu
Tel: 886-3-5778-366
Fax: 886-3-5770-955

Taiwan - Kaohsiung
Tel: 886-7-213-7828
Fax: 886-7-330-9305

Taiwan - Taipei
Tel: 886-2-2508-8600
Fax: 886-2-2508-0102

Thailand - Bangkok
Tel: 66-2-694-1351
Fax: 66-2-694-1350

EUROPE

Austria - Wels
Tel: 43-7242-2244-39
Fax: 43-7242-2244-393

Denmark - Copenhagen
Tel: 45-4450-2828
Fax: 45-4485-2829

France - Paris
Tel: 33-1-69-53-63-20
Fax: 33-1-69-30-90-79

Germany - Munich
Tel: 49-89-627-144-0
Fax: 49-89-627-144-44

Italy - Milan
Tel: 39-0331-742611
Fax: 39-0331-466781

Netherlands - Drunen
Tel: 31-416-690399
Fax: 31-416-690340

Spain - Madrid
Tel: 34-91-708-08-90
Fax: 34-91-708-08-91

UK - Wokingham
Tel: 44-118-921-5869
Fax: 44-118-921-5820

11/27/12