

WIND RIVER

Wind River[®] Product Installation and Licensing

DEVELOPER'S GUIDE

2.0

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1

Overview

This document guides you through the process of installing Wind River products and managing your licenses for those products.

This guide is designed for developers - end users of Wind River software. For instructions on advanced tasks for license or system administrators, see the *Wind River Product Installation and Licensing Administrator's Guide*.

The tasks described in this guide include:

- Obtaining a license file for a developer workstation.
- Installing Wind River products on a single developer's workstation.
- Installing patches, service packs, and BSPs.
- Removing Wind River products.
- Setting up license borrowing.

Additional Documentation

In addition to this guide, see the *Developer Install Guide* for more information on product installation and licensing. This at-a-glance guide is included in hard copy in your product shipment.

For information on getting started with your product, and for the latest release information, see your product's getting started guide and release notes, which are available on the Web at

documentation.windriver.com

This Web site also offers the complete documentation set for your product.

Once you have installed your Wind River products, documentation is also available at *installDir/docs* and from the Workbench online help.

2

Licensing and Installation Workflow

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2.1 How Licensing Works

Many Wind River products are license-managed. This means that your organization buys a *license* that allows your developers to run a certain number of copies (also known as *seats*) of a Wind River product simultaneously.

To run a license-managed product, each development host must have its own license file, obtained from the Wind River licensing Web site. Licensing tasks can be completed either before or after installation tasks.

2.1.1 Types of Workstation License

There are three different types of workstation license:

Node-locked License

Node-locked licenses are best for products installed on a single development workstation. The products are not shared over the network, but they can be used

by anyone with physical access to the workstation. The products can function when the workstation is disconnected from the network.

Floating License

Floating licenses allow you to share a pool of license seats among a group of users. For example, suppose 30 developers use Wind River Workbench, but only ten copies of Workbench are running at any given time. In this scenario, you only require ten floating license seats of Workbench. When all ten seats are allocated, no other instances of Workbench can start.

Your organization buys a specific number of seats for each product, and when they are all in use, no other developers can use that product until someone else finishes. The development workstation must be connected to the network to request a license from the license server.

Unique-User License

Unique-user licenses are similar to floating licenses in that they allow you to share a pool of license seats among a group of users. Unique-user licenses differ in that they only allocate a seat for each unique user that is using a license-managed product.

As with floating licenses, your organization buys a specific number of seats of each product. But unlike floating licenses, the license server generates a usage report, which your organization sends to Wind River each quarter. Wind River reviews the usage reports for adherence to your license agreement.

The development workstation must be connected to the network to request a license from the license server.

2.2 Overview of Licensing and Installation Tasks for Workstations

To run a license-managed product, each development host must have its own license file, obtained from the Wind River licensing Web site. Licensing tasks can

be completed either before or after installation tasks. You must complete the following tasks before you can run license-managed Wind River products.

Step 1: Obtain a Product Activation file for your workstation.

Log in to the Wind River licensing Web site, add a development computer to your account, and generate a Product Activation file. For detailed information, see [3. Obtaining Node-Locked Workstation Licenses](#).

Step 2: Install Wind River products on your workstation.

For installation instructions, see [4. Installing Wind River Products](#).

Step 3: Activate your workstation license.

If you installed your license-managed products using a temporary license (also known as *temporary activation*), you or your license administrator must permanently activate those products. For more information, see [6. Permanently Activating a Temporary License](#).

3

Obtaining Node-Locked Workstation Licenses

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3.1 Obtaining a Node-Locked License File

Complete the following steps to obtain a node-locked license file for a development workstation.

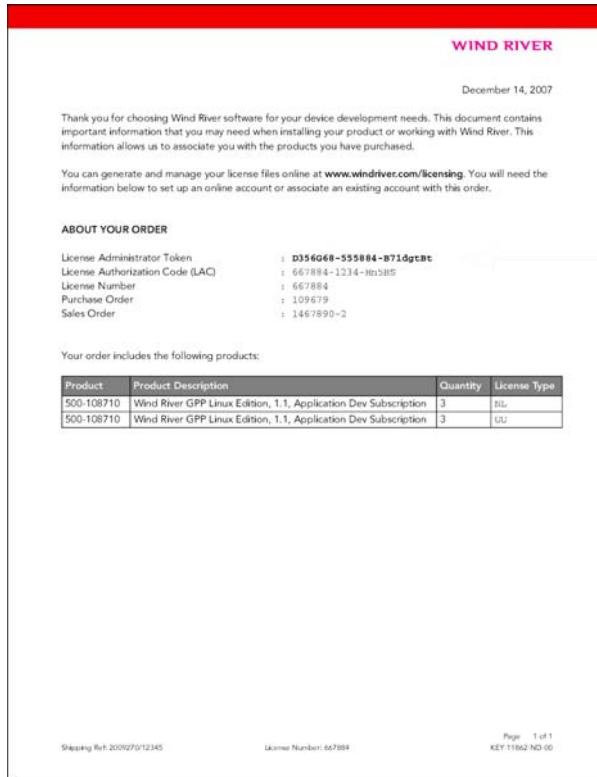
1. Log in to the Wind River licensing Web site and create your account.
2. Activate your license.
3. Add your development workstation as a new host.
4. Activate your products and get a license file for the workstation.

These tasks are described in greater detail in the following sections.

Step 1: Log in to the Wind River licensing Web site and create your account.

1. Locate your *License Administrator Essentials* sheet, as in [Figure 3-1](#). You will need information from it to complete this task.

Figure 3-1 **Sample License Administrator Essentials Sheet**



2. Go to <http://www.windriver.com/licensing>.
3. Check the list of products that can be activated from this site to be sure your product appears here. If it appears in the list, click **Login**.



NOTE: Some older products cannot be activated from the licensing Web site; to activate those products, see the installation information that was included with the products. If you do not have access to installation instructions for an older product, contact Wind River Customer Support or e-mail to license@windriver.com.

4. Log in to the site:
 - If you already have a Wind River **User ID** and **Password** (for example because you previously logged in to this site or the Wind River support site), type them and click **Login**.

or

- If you are not yet a registered user on any Wind River site, click **Register for a User ID and Password**. Type your user profile information, including your license number from the *License Administrator Essentials* or the *Developer Essentials* sheet. Type a password, confirm it, then click **Submit**.

Step 2: Activate your license.

1. Click **Activate your products** to open the **Add Licenses** screen. Type in your **License Number** and **License Administrator Token** from the *License Administrator Essentials* sheet.

If you expect to eventually manage several product licenses, also type in a label (for example, **VxWorks GPP 3.4** or **Alameda Campus**) to make it easier to identify this particular license in the future.

2. Click **Submit**. On the **Add Licenses Confirmation** screen, check to be sure all the information you typed in is correct.

Your license has now been added to your account. If you order additional Wind River products in the future, click **Manage Licenses** and then click **Add New License** to add the new products to your account.

Step 3: Add your development workstation as a new host.

Once your license has been activated, use the **Manage Hosts** screen to add information about the workstation. If you have any hosts already defined, they appear on this screen.

1. To add a host, click **Add New Host**.
2. On the **Create Host** screen, enter the host workstation's name, host ID, and other requested information.



NOTE: For descriptions of the fields, including instructions for finding your host ID, click **More information**.

3. When you have filled in all required fields, click **Create**. Your new host appears on the **Create Host Confirmation** screen.

Step 4: Activate your products and obtain a license file for the workstation.

1. After you have added the development workstation to your account, click **Manage Licenses** to activate the products you have purchased.
2. From the drop-down list next to the license on the **Manage Licenses** screen, select **Activate Products**.
3. Select the product you want to allocate to this workstation (look for **NL** in the **License Type** column). Click **Next**.
4. From the **Host Label** drop-down list, select this workstation, then click **Next**.
5. Confirm that you have selected the correct host, then click **Next**.
6. Click **Download** to download the license file immediately, or enter an e-mail address if you want the license file to be sent to the person responsible for this host workstation. If you entered an e-mail address, click **Send**.



NOTE: You can both download the license file and receive it in e-mail.

If you download the file, you must be sure to preserve the **.lic** ending on the license file or the file will not work properly. On Windows systems, you can do this by selecting **All Files** rather than **Text Document** from the **Save as type** drop-down list.

If you chose to send licenses by e-mail, the **E-mail Licenses Confirmation** screen displays to whom they were sent.

Once you have the node-locked license file (**WRSLicense.lic**), see [4. Installing Wind River Products](#) for instructions on how to use it.

3.2 Editing License Files

Unless directed to do so by Wind River Customer Support, do not change any text in a license file. Doing so can invalidate the license file and cause it to stop working.

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Installing Wind River Products

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4.1 Before You Begin

Before you can install your Wind River products, make sure you have the following items available:

- Your product box, which includes:
 - installation media (discs or image files).
 - the *Developer Essentials* sheet
 - the *Getting Started* book
- Several gigabytes (GB) of disk space on your development workstation for Standard (recommended) installations.

The amount of disk space required varies for each product. Verify that you have adequate free space before you begin installation.

- Write permissions to your installation directory.

- Administrator or power user privileges (Windows hosts).
- For typical installations, either:
 - A Product Activation file to permanently activate your products during installation (see [3. Obtaining Node-Locked Workstation Licenses](#)).or
 - A license authorization code and Internet access to temporarily activate your products.
- For non-typical installations, installation keys (printed on your *Developer Essentials* sheet).

4.2 Installing Wind River Products

To install a Wind River product on your development workstation, complete the following steps.

1. Launch the installer by putting the disc into your drive, or by navigating to the product image, and running **setup.exe** on Windows, **setup_linux** on Linux, or **setup_solaris** on a Solaris system. If your product includes more than one disc, begin with the disc labeled **Install First**.



NOTE: If you are installing the product from a shared network directory, ensure that the directory name and path do not include spaces (such as in the directory name **Documents and Settings**). If there is a space character anywhere in the absolute path, some elements of the installation will not be available.



NOTE: If you are installing a product suite that includes more than one product (such as a Wind River Platform), be sure to choose the same installation directory for all products.

2. Read each installer screen and provide the requested information, then click **Next**.

3. From the **Choose Activation Type** screen, select the type of installation you want:

Temporary activation

Select this method if you wish to install and use the products for a limited time. However, to continue using them, you must later permanently activate this installation (using a license file).

When you select this option, the installer program automatically locates your **License Authorization Code (LAC)**. To use this method, you must have Internet access.

Permanent activation

Select this option if you have a Product Activation file. You do not need Internet access to install and activate Wind River products using this option.

When you select this option, you can browse to the directory location of your Product Activation file.

Advanced

When you click the **Advanced** button, a third option, **Manual activation (not typical)**, appears. Under this method, you install products by entering installation keys without activating your products. This is only performed when you do not have a Product Activation file, do not have an Internet connection, and prefer to set up your licensing manually.

I can only connect to the Internet through a proxy server.

Select this option if you do not have direct Internet access. An additional screen prompts you to enter details about the proxy server that you will use to send your requests. These details include the proxy server's IP address, port number, and whether it is a Web proxy or a SOCKS proxy. If you do not have the requested proxy server information, see your administrator.

Select an installation type, then enter the required information.

4. On the **Choose Installation Filters** screen, select **Standard Installation** or **Custom Installation**.



NOTE: Wind River recommends a standard installation, but if disk space is a problem, a customized installation allows you to install just those products and tools that you need.

You can also click the **Advanced** button on this screen to select host types. For single-workstation installations, your host type is pre-selected.

5. If you selected **Standard Installation**, the next screen shows you the products and features that will be installed; click **Install** to start the installation process.

If you selected **Custom Installation**, the next screen shows you the products and features that will be installed; by default, all products and features are selected. Unselect the products and features that you do not want to install, then click **Install** to start the installation process.



CAUTION: Use caution when unselecting features, as unselecting critical features could prevent the products from functioning properly.

In both standard and custom installation, you cannot reinstall products and features that are already installed. If you wish to reinstall, you must first remove the product. For information on removing products, see [5.5 Removing Wind River Products](#), p.23.

6. On the final screen, you can choose whether to create a **Start** menu entry (or **Applications** entry on UNIX hosts) and desktop shortcut for this installation.

If you installed using a Product Activation file, your Wind River products are now installed, activated, and ready for you to begin working with them.

If you installed using a license authorization code or installation keys, you may use your products now but you must permanently activate them to continue working with them. For information about how to do this, see [6. Permanently Activating a Temporary License](#).

If you were not able to install, see your license administrator.

4.3 Installing a Service Pack

A service pack is a cumulative collection of software patches that have been tested together and that adds or repairs functionality. For information on installing software patches and BSPs, see [5. Using the Product Maintenance Tool](#).

If a service pack is available for your Wind River product, you can install it with either of the following methods:

- **DVD**

If you have received the service pack on a disc, launch the installer by putting the disc into your drive, or by navigating to the product image, and running the **setup** program appropriate to your host type.

- **Download**

Download the service pack from the Wind River online support site at <http://www.windriver.com/support>. Unzip the service pack zip file into your installation directory (usually **WindRiver**) and run the **setup** program appropriate to your host type.

In either method, the service pack is installed with the same installer program that you used earlier in this chapter to install your Wind River products.

Service packs are installed as additions to a previous installation; they do not overwrite existing product installations. Furthermore, because the installer program uses the same Product Activation file as your existing installation, no additional installation keys are needed.

4.4 Non-Typical Installations

This section describes atypical installation scenarios. You may not need the instructions in this section, depending on the products you have already installed, and the specific constraints of your workgroup's environment.

4.4.1 Installing Workbench into an Existing Eclipse Environment

Wind River Workbench provides a complete Eclipse framework. You do not need to install Eclipse separately. However, if you have your own customized Eclipse installation, and you prefer to integrate Workbench into it, you must:

1. Install Wind River Workbench (as described in this chapter).
2. Follow the instructions in *Wind River Workbench User's Guide: Using Workbench in an Existing Eclipse Environment* to integrate Wind River Workbench into your existing Eclipse installation.

4.4.2 Incremental Installation

An incremental product installation can be performed in situations such as the following:

- You installed only certain features of a Wind River product (by selecting **Custom** rather than **Standard** installation) and now wish to add the excluded features.
- You are installing complementary Wind River products (for example, adding On-Chip Debugging to your existing installation of Wind River Workbench).

When you do an incremental installation, you can again choose **Standard** or **Custom** mode. In a standard installation, the installer program installs only those products or features that are not yet present in your installation directory. If you select **Custom** installation, the installer program shows you a full list of the products or features available for installation.

In both standard and custom installation, you cannot reinstall products and features that are already installed. If you wish to reinstall, you must first remove the product. For information on removing products, see [5.5 Removing Wind River Products](#), p.23.

5

Using the Product Maintenance Tool

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5.1 Introduction

The Wind River Product Maintenance Tool is provided with products from Wind River Workbench 3.0 forward. It is a special mode of the same installer program you used to install your products in [4. *Installing Wind River Products*](#). You can use the Maintenance Tool to do the following:

- Install a patch or a BSP.
- Remove a product installation.
- Update the installer program itself.

These tasks are described in the sections below.

5.1.1 Launching the Maintenance Tool

To start the Maintenance Tool, do the following:

From the Windows GUI

Select **Start > All Programs > Wind River > Product Maintenance > Installation** at *path to product installation*.

The *path to product installation* is your the directory path to your installation, given with space characters instead of symbols such as : and / or \.

From the Windows Command Line

On Windows, execute the following commands from a command prompt:

```
% cd installDir\maintenance\wrInstaller\hostType  
% wrInstaller.exe
```

From the Linux and Solaris GUI

Select **Applications** (the main menu on the panel) > **Wind River > Product Maintenance > Installation** at *path to product installation*.

From the Linux and Solaris Command Line

On Linux and Solaris, execute the following commands from the command shell:

```
% cd installDir/maintenance/wrInstaller/hostType  
% wrInstaller.exe
```

5.2 Updating the Installer Program

The installer program uses electronic software delivery (ESD) to update itself. To update the installer, follow the steps below.

1. Launch the Maintenance Tool as described in [5.1.1 Launching the Maintenance Tool](#), p.18.

If any updates to the installer are available, the **Installer Updates** screen appears.

If the **Installer Updates** screen does not appear, or if you do not want to update the installer program, click **Skip**. You can continue with other Maintenance Tool tasks (see [5.3 Applying Software Patches](#), p.19, [5.4 Downloading and Installing Board Support Packages](#), p.20, and [5.5 Removing Wind River Products](#), p.23). However, Wind River recommends that you install any available updates.

2. To install the updates listed on the **Installer Updates** screen, click **Install**.

The installer program shows a progress bar, and then restarts itself automatically.

5.3 Applying Software Patches

A software patch typically fixes one feature or adds or replaces a small number of files in your existing installation. There are two ways to install patches to Wind River software: by downloading the patch and then installing it; or by running the Maintenance Tool, which detects whether patches are available for your products.



NOTE: Patches cannot be installed with a silent or unattended installation method.

Download

1. Log in to the Wind River online support Web site:
<http://www.windriver.com/support>
2. Select the **Downloads** tab, then use the filter fields to find available patches for your product.
3. Unzip the patch's zip file into your *installDir*/**updates** directory.
4. Launch the Maintenance Tool as described in [5.1.1 Launching the Maintenance Tool](#), p.18.
5. Select **Patch**. The next screen displays patches applicable to your product.
6. Select the patch you wish to install, and click **Next**.

The installer program shows a progress bar; then you can click **Finish**.

ESD

Patches to Wind River products are available through electronic software delivery (ESD). To install a service pack in this way, do the following:

1. Launch the Maintenance Tool as described in [5.1.1 Launching the Maintenance Tool](#), p.18.
2. If any patches are available for your product, you can select **Patch**.
The next screen displays patches applicable to your product.
3. Select the patch you wish to install, and click **Next**.

The installer program shows a progress bar; then you can click **Finish**.

Reinstalling a Patch

Once you have installed a patch, the Maintenance Tool will not offer it for reinstallation (it will not appear in the list of patches available for installation). For information on removing a patch, see [5.5.3 Removing Patches](#), p.25.

5.4 Downloading and Installing Board Support Packages

Wind River provides *board support packages* (BSPs) for both the VxWorks and Wind River Linux operating systems. Although the specific details of a BSP vary considerably between VxWorks and Linux, BSPs serve the same purpose on each operating system. That is, BSPs provide the necessary code to run your customized VxWorks or Wind River Linux operating system instance on specific target hardware. BSPs provided by Wind River can be used for development on available hardware or can be used as a base for BSP development for your custom hardware.



NOTE: Wind River recommends that, when developing for custom hardware, you try to customize an existing BSP instead of trying to write your BSP from scratch.

For more information on BSP development, see the *VxWorks BSP Developer's Guide* or the *Wind River Linux Platforms Users Guide*.

5.4.1 When Should You Download a BSP?

Many VxWorks and Wind River Linux distributions provide board support packages directly on the product installation media. However, new BSPs and updates are continuously added to the BSP Web page. Therefore, to have access to the latest board support packages and updates, you must visit the BSP Web page.

If the BSP you wish to use for development is included on your installation media, check the BSP Web site to be sure that yours is the latest version. If the BSPs included on your installation media are not suitable for your development, see the BSP Web site for a full list of available BSPs.

Compatibility

The Wind River installation program does not verify version compatibility between your Wind River products and BSPs. For compatibility information, see the documentation that accompanies the BSP.

5.4.2 Navigating the BSP Web Site

The Wind River public Web site provides you with access to a listing of all available Wind River BSPs. The BSP main page is:

http://www.windriver.com/products/bsp_web/

You can also navigate to this page from the Wind River Web site home page by selecting **Products > Board Support Packages**.



NOTE: This Web page is publicly accessible, but you must have a valid Online Support login in order to download a BSP **.zip** file.

Locating a Specific BSP

From the BSP main page, you can choose to locate a specific BSP by:

Architecture

This is the generic processor family to which the desired CPU belongs. For example, ARM or PowerPC. If you know the architecture family for your development processor, use this category.

Hardware Vendor

This is a list of hardware vendors for the development boards that are supported by the Wind River BSPs. If you know the manufacturer of the development board for the BSP you wish to use, use this category.



NOTE: This category is organized by hardware development board vendors, not by processor manufacturer. In many cases, the CPU manufacturer is not the board vendor.

Market

This is the general market targeted by the development board or processor. For example, processors that are targeted for use in medical equipment are grouped into one category while processors targeted for the automotive market are grouped into that category.

Platform

This is a list of available Wind River products that include BSP support. You can use this category to see a list of all BSPs available for your specific Wind River product and version.

5.4.3 Downloading and Installing a BSP

This section provides detailed instructions for downloading and installing BSPs for products from Wind River Workbench 3.0 forward.

The BSP Download Page

Once you have located your desired BSP, you must download and install the associated **.zip** file. To get to the download page, find the correct entry in the BSP list and click **More** (this button appears at the far right end of the specific BSP entry line). This link brings you to the BSP technical details page.

If a version of the BSP is available for download, a link to a downloadable **.zip** file appears at the top of the page under the **BSP Sales Contact** field. Certain BSPs are only available as part of a product distribution. If this is the case, the **Product Availability** field indicates that the BSP is available on CD-ROM (or DVD-ROM). If you do not have the product CD (or DVD) for this BSP, contact Wind River Customer Support for assistance.

Installing a BSP with the Maintenance Tool

Downloaded BSPs are placed in your *installDir/updates* directory. To install a new BSP, follow the steps below.

1. Launch the Maintenance Tool as described in [5.1.1 Launching the Maintenance Tool](#), p.18.

If any BSPs are available for your product, or if you have downloaded BSPs into your *installDir/updates* directory, the next screen displays them.

2. Choose the BSPs you wish to install.

The installer program shows a progress bar; then you can click **Finish**.

5.5 Removing Wind River Products

This section describes the process for removing Wind River products from a system.

5.5.1 Preparing to Uninstall

If you are uninstalling a Wind River product in preparation for reinstalling a newer version, or you are moving the product to a new development workstation and you want to continue working with it, you may first wish to archive some files before uninstalling.

Archiving Downloaded Plug-Ins

If you installed any third-party plug-ins in the installation directory of your Wind River product and you want to preserve them, you must move them outside the installation directory. For more information about working with plug-ins, see *Wind River Workbench User's Guide: Integrating Plug-Ins*.

Preserving Workbench Project Files

To preserve the state of Workbench projects and be able to recreate them after reinstalling the product, copy the following files to a location outside the Workbench installation directory:

Project File	Description
.project	Eclipse platform project file containing general information about the project.
.wrproject	Workbench project file containing mostly general build properties.
.wrfolder	Workbench project file containing folder-level build properties (located in subfolders of your projects).
.wrmakefile	Workbench managed build makefile template used to generate makefiles.
*.makefile	Workbench managed build extension makefile fragments (for example, for VxWorks image projects or some Platform projects).
*.wpj	VxWorks Image project file containing specific data not managed directly by Workbench but by the TCL engine.

For user-defined projects, all makefiles must also be version-controlled.

5.5.2 Uninstalling Through the Maintenance Tool

To remove Wind River products, it is recommended that you use the Maintenance Tool provided with your product. The Maintenance Tool can uninstall many products at the same time.



NOTE: The Maintenance Tool removes all Wind River products from Wind River Workbench 3.0 forward; it does not uninstall products from previous releases.

To remove a product, follow the steps below.

1. Launch the Maintenance Tool as described in [5.1.1 Launching the Maintenance Tool](#), p. 18.
2. Select **Remove**.

The Maintenance Tool screen shows a nested list of products and features that can be removed. You can click on an item in the list to see its component features.



NOTE: This list can be generally useful, even if you are not planning to uninstall: it's a quick way to see a complete list of all the products and features you currently have installed.

3. Select the products or features you want to remove.

Some files are not removed in the uninstallation process. Object files, the Product Activation file, and any files that the user has added to the installation are not removed. If you want to remove these files, you must do so manually.

5.5.3 Removing Patches

When you install a patch, it overwrites existing files in your product installation. Therefore, if you were to remove the patch, it would leave behind an incomplete installation.

For this reason, patches are not separately uninstallable. If you have a damaged installation, you must remove the product as a whole and reinstall. Follow the steps in [5.5.2 *Uninstalling Through the Maintenance Tool*](#), p.24, to remove the product, and then reinstall it as described in [4. *Installing Wind River Products*](#).

5.5.4 Uninstalling a Development Workstation License File

If you are uninstalling a Wind River product from a development workstation, the uninstallation process described in [5.5 *Removing Wind River Products*](#), p.23, does not remove the license file.

You must manually remove it by navigating to the *installDir/license* directory and deleting the file, usually named **WRSLicense.lic**.

6

Permanently Activating a Temporary License

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6.1 Introduction

If you used a Product Activation file (**install.txt**) when installing Wind River products, those products are permanently activated and require no further action.

If you used a license authorization code (LAC) or installation key to temporarily activate your products, you can use those products for a limited time, but you must obtain a license file to permanently activate your products.



NOTE: The length of a temporary activation varies by product, but is typically no less than 30 days. Wind River license-managed tools display a warning as they approach expiration.

Permanent activation means that a product may be used to the fullest extent of its license.

6.2 Activating Temporary Licenses

There are two ways to permanently activate Wind River products that were issued temporary licenses:

- You can create and install a license file for your development workstation.

or

- On the development workstation, you can set an environment variable to access a license server.

6.2.1 Permanent Activation with a License File

The easiest (and recommended) way to activate temporary licenses is to obtain a license file.

1. Follow the instructions in [3. Obtaining Node-Locked Workstation Licenses](#) to create the appropriate license file(s).
2. Name the new file **WRSLicense.lic**.
2. Copy the file into the *installdir/***license** directory of the development workstation.



NOTE: Each node-locked development workstation requires a separate license file, generated using that workstation's host ID.

6.2.2 Setting an Environment Variable to Access a License Server

The second way to permanently activate temporary licenses is to set an environment variable to point to a license server.



NOTE: In order to use this method, your license administrator must first obtain a server license file and install a license server.

1. Create an environment variable on the workstation called **WRSD_LICENSE_FILE**.
2. Set the value of this variable to the *port@servername* indicated in the **SERVER** line of the Product Activation file you downloaded from the licensing Web site.

For example, the **SERVER** line may look like the following:

```
SERVER jupiter hostID 27000
```

In this example, the server name is **jupiter** and the port number is **27000**, so you would set the variable to **27000@jupiter**.

Once the variable is set, this permanently activates the temporary licenses.

6.2.3 Reinstalling the Product

When you go from temporary to permanent activation, you do *not* typically need to remove and then reinstall the product. However, if you do reinstall, note that the uninstallation process does not remove the license file. You must remove the old license file manually, by navigating to the *installDir/license* directory and deleting the file, usually named **WRSLicense.lic**.

7

Configuring Borrowing of Wind River Product Licenses

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7.1 Understanding Borrowing

Many Wind River products are license-managed, which means that they check for a valid license on startup. If a product installation is configured to use a license from a pool of *floating* or *unique-user* licenses, the development workstation must be connected to the network in order to retrieve a license from the license server.

Borrowing is a feature that allows you to retrieve a license and continue to use it after disconnecting from the network, essentially turning a floating or unique-user license into a node-locked license for a defined period of time (for more information on types of licenses, see [2.1.1 Types of Workstation License](#), p.3).

For example, if you are planning to travel with a laptop and want to use a license-managed product while in-flight or after you arrive at your destination, you must borrow a license before you leave. However, if you plan to use the product only from a computer that is always connected to the network, then you do not need to use this feature.

7.2 Do You Need to Configure Borrowing?

If your system includes floating or unique-user licenses for Wind River products, and you intend to use those products while disconnected from the network, you must configure your development workstation to borrow the appropriate license.

If your system includes only node-locked licenses, then you can freely use Wind River products as soon as your installations are permanently activated. For information on permanent and temporary activation, see [6. *Permanently Activating a Temporary License*](#).

7.3 Initiating Borrowing

To borrow a license for a Wind River product, you must do the following:

1. Ensure that your administrator has configured your development workstation for borrowing.
2. Keep the workstation connected to the network (with access to the license server) while initiating borrowing.

7.3.1 Borrowing by Running the Application

Once the workstation has been configured for borrowing, work with your administrator to determine a new borrow period; then run the license-managed product.

The license will be borrowed, and will remain allocated until the return date you specified, even if you reconnect to the network before the borrow return date.

7.3.2 Disconnect from the Network

The steps in [7.3 *Initiating Borrowing*](#), p.32, can be repeated for any number of borrow periods and products. Once this is complete, you can disconnect the development workstation from the network.