

# **Installation and Licensing Guide**

for the IAR Embedded  
Workbench™

## **COPYRIGHT NOTICE**

© Copyright 2001 IAR Systems. All rights reserved.

No part of this document may be reproduced without the prior written consent of IAR Systems. The software described in this document is furnished under a license and may only be used or copied in accordance with the terms of such a license.

## **DISCLAIMER**

The information in this document is subject to change without notice and does not represent a commitment on any part of IAR Systems. While the information contained herein is assumed to be accurate, IAR Systems assumes no responsibility for any errors or omissions.

In no event shall IAR Systems, its employees, its contractors, or the authors of this document be liable for special, direct, indirect, or consequential damage, losses, costs, charges, claims, demands, claim for lost profits, fees, or expenses of any nature or kind.

## **TRADEMARKS**

IAR, IAR Embedded Workbench, IAR MakeApp, ICC, XLINK, and XLIB are trademarks owned by IAR Systems. IAR visualSTATE is a registered trademark owned by IAR Systems. C-SPY is a registered trademark in Sweden by IAR Systems.

All other products are trademarks or registered trademarks of their respective owners. Product features, availability, pricing and other terms and conditions are subject to change by IAR Systems without prior notice.

## **EDITION NOTICE**

First edition: April 2001

Part number: ILG-1

# Contents

Figures .....	v
Preface .....	vii
<b>Who should read this guide</b> .....	vii
<b>What this guide contains</b> .....	vii
<b>Document conventions</b> .....	vii
Introduction .....	1
<b>How IAR licensing works</b> .....	1
<b>Stand-alone and network licenses</b> .....	1
Stand-alone licenses .....	1
Network licenses .....	2
<b>Moving a license between computers</b> .....	2
Moving the license temporarily .....	2
Moving the license permanently .....	2
<b>Upgrading a product</b> .....	3
<b>If you need more information</b> .....	3
Installing a product with a stand-alone license .....	5
<b>Stand-alone licenses</b> .....	5
<b>System requirements</b> .....	5
<b>Installing a stand-alone license</b> .....	6
Installing the software .....	6
Activating the license .....	10
<b>Upgrading a product using a stand-alone license</b> .....	13
Locating the license number and permanent key .....	13
Installing the product upgrade .....	14
Installing a product with a network license .....	19
<b>Network licenses</b> .....	19
The license server software .....	19
The IAR Embedded Workbench™ software .....	19

<b>System requirements .....</b>	<b>20</b>
<b>Installing a network license .....</b>	<b>20</b>
Installing the license server software .....	21
Activating the license .....	23
Installing the IAR Embedded Workbench™ on client computers .....	26
<b>Alternative installation procedure .....</b>	<b>29</b>
<b>Using an already installed license server .....</b>	<b>30</b>
<b>Upgrading a product using a network license .....</b>	<b>31</b>
Locating the license number and permanent key .....	31
Upgrading the license server software .....	31
Upgrading the client software .....	33
<b>Adding more users to a network license .....</b>	<b>37</b>
<b>Transferring a license .....</b>	<b>39</b>
<b>Moving a license using a dongle .....</b>	<b>39</b>
Moving a stand-alone license .....	39
Moving a network license .....	39
<b>Transferring a license to another computer .....</b>	<b>40</b>
Installing the product on the new computer .....	40
Creating the transfer ID on the old computer .....	41
Creating the target ID on the new computer .....	42
Creating the license transfer code on the old computer .....	44
Activating the license on the new computer .....	45
<b>Index .....</b>	<b>47</b>

# Figures

1: Entering name, company, and license number .....	7
2: Entering the QuickStart key .....	7
3: Selecting the license lock type .....	8
4: Selecting the installation directory .....	9
5: Selecting the installation type .....	9
6: Selecting the program folder .....	10
7: The license activation program .....	11
8: Selecting how to register .....	12
9: Installing the permanent key .....	13
10: Entering name and company .....	14
11: The permanent key when upgrading .....	15
12: Selecting the upgrade installation directory .....	15
13: Selecting the installation type .....	16
14: Selecting the program folder .....	17
15: Entering name, company, and license number .....	21
16: Selecting the license lock type .....	22
17: Selecting the program folder .....	22
18: The license activation program .....	23
19: Selecting how to register .....	24
20: Installing the permanent key .....	25
21: Entering name, company, and license number .....	26
22: Providing the permanent key .....	27
23: Selecting the installation directory .....	27
24: Selecting the installation type .....	28
25: Selecting the program folder .....	28
26: Entering the license number .....	30
27: Entering name and company .....	32
28: Selecting the license lock type .....	32
29: Selecting the program folder .....	33
30: Entering name and company .....	34
31: The permanent key when upgrading .....	35

32: Selecting the upgrade installation directory .....	35
33: Selecting the installation type .....	36
34: Selecting the program folder .....	37
35: The license transfer process .....	40
36: Selecting the license to transfer .....	41
37: Receiving the transfer ID .....	41
38: Importing the license.....	42
39: Reading the transfer ID from file .....	43
40: Receiving the target ID .....	43
41: Reading the target ID from file .....	44
42: Receiving the license transfer code.....	45
43: Reading the license transfer code from file .....	46

# Preface

Welcome to the Installation and Licensing Guide for the IAR Embedded Workbench™. It contains detailed information about how to install an IAR Embedded Workbench™ product, how to activate and register the license, and how to install a product upgrade. This guide is a complement to the QuickStart card that is included in your product package.

---

## Who should read this guide

You should read this guide if you:

- Have purchased a stand-alone license and need more information about installation and licensing than is available on the QuickStart card.
- Are a network or system administrator responsible for installing a network license and client software.

---

## What this guide contains

This guide contains the following chapters:

- *Introduction* gives a general introduction to the installation and licensing procedure and describes the differences between different license types.
- *Installing a product with a stand-alone license* describes step by step how to install and activate a single-user license. It also describes how to upgrade or re-install the IAR Embedded Workbench™.
- *Installing a product with a network license* gives a step-by-step description of how to install both the license server software and the client software in a multi-user environment. This chapter also describes how to upgrade both the license server and the client software.
- *Transferring a license* gives detailed descriptions of how to move a license to another computer, either temporarily or permanently.

---

## Document conventions

This guide uses the following typographic conventions:

Style	Used for
computer	Text that you enter or that appears on the screen, and names of files and directories.
<b>bold</b>	Names of menus, menu commands, buttons, and dialog boxes that appear on the screen.
<i>reference</i>	A cross-reference within or to another part of this guide.

Table 1: Typographic conventions used in this guide





# Introduction

This chapter introduces the IAR Systems licensing system. It gives an overview of the installation and license activation procedure, and of the different license types.

---

## How IAR licensing works

Each IAR Embedded Workbench™ product comes with a software license. There are two types of IAR *license keys* associated with a license:

- The *QuickStart key*, which allows you to use the product for 30 days after installation
- The *permanent key*, which opens up the product for permanent usage

You install the IAR Embedded Workbench™ using the QuickStart key. This allows you to start using the product immediately after installation and 30 days onward. The QuickStart key is included in the product package and is printed on the CD cover.

During the 30-day period, you must *activate* your license by registering the product with IAR Systems. After registration, you will obtain the permanent key from IAR Systems. By installing the permanent key, the product is opened up for permanent usage. Registering the product also entitles you to one year of free upgrades and prioritized technical support.

Since it can take up to 5 business days until you receive the permanent key, you should register the product as soon as possible after installation.

**Note:** If you do not activate and register your product, you will be unable to run it after the 30-day period.

---

## Stand-alone and network licenses

When purchasing the IAR Embedded Workbench™ you can choose between two kinds of licenses: the stand-alone license for single users and the network license for multiple users. Network licenses are also known as *floating licenses*.

### STAND-ALONE LICENSES

A *stand-alone license* is a single-user license, locked either to the computer where the software is installed, or to a hardware lock (dongle). A *dongle* is a device you attach to the computer's parallel port. By moving the dongle to another computer, the license is moved with it.

**Note:** A dongle is part of your product package only if you have explicitly ordered it.

### NETWORK LICENSES

A *network license* is a multi-user license, located on a *license server computer* and used by multiple users on a network.

The network license is locked either to the computer where the license server software is installed, or to a dongle that you attach to the computer's parallel port. The dongle, which is included in the product package when you purchase a network license, allows you to move the network license to another server computer. Using a dongle is the recommended default, since it will be easier for you to recover from a server failure.

The network license can be used on all *client computers* on the network where the IAR Embedded Workbench™ is installed. However, the network license is made for a maximum number of concurrent users, and the license server software keeps track of the current number of users.

---

## Moving a license between computers

Although you lock your IAR license to one computer, it is possible to move the license temporarily to another computer by using a dongle, or to transfer it permanently using the license transfer functionality.

### MOVING THE LICENSE TEMPORARILY

If you regularly work on two or more computers, you should lock your license to a dongle. By installing the IAR Embedded Workbench™ on each of your computers, and locking the license to a dongle, you only need to move the dongle when switching to another computer.

See *Moving a license using a dongle*, page 39, for a detailed description of the procedure.

**Note:** If you need a license that can be moved easily between different PCs, contact your nearest IAR office or your local distributor and you will be offered a dongle. Do not install the product until you have received the dongle.

### MOVING THE LICENSE PERMANENTLY

If you need to transfer your license permanently to another computer—for example, when upgrading to a new PC—you should use the license transfer functionality. It allows you to export the license from one computer and import it to another computer.

See *Transferring a license to another computer*, page 40, for a detailed description of the procedure.

---

## Upgrading a product

You perform a product upgrade on the same computer where a previous version of the same product already is installed. An upgrade does not change the license type of the existing product—stand-alone license or network license. You must continue using the same license type and license lock after installing the upgrade.

You can replace your existing product installation with the upgrade, that is, use exactly the same installation directory. In that case, you first need to create back-up copies of all files you may have modified. You should then uninstall the previous product version, before you install the upgrade.

To uninstall the IAR Embedded Workbench™, select the appropriate **Uninstall IAR Embedded Workbench** item from the **Start** menu. If you have created your own project files in the installation directory, they will remain intact.

For details about upgrading a stand-alone license, see *Upgrading a product using a stand-alone license*, page 13.

For information about upgrading a network license, see *Upgrading a product using a network license*, page 31.

---

## If you need more information

If this guide does not answer your questions or solve your problems concerning the installation or licensing:

- 1 Read the `readme.htm` file for recent information that may not be included in this guide. This file is available on the product CD in the `Doc` directory.
- 2 Check the technical notes and frequently asked questions (FAQs) on the Technical Support pages on the IAR website: [www.iar.com](http://www.iar.com)
- 3 Contact your IAR software distributor. If they are unable to assist you, contact IAR Technical Support. The address information is available on the product box.

Be prepared to provide the following information: your license number, the type of license lock you use, when and where you purchased the product, and a detailed description of the problem.

If you need more information

# Installing a product with a stand-alone license

This chapter describes the stand-alone license, how to install and activate it, and how to re-install or upgrade your installation.

---

## Stand-alone licenses

The stand-alone license, which is intended for single users, locks the license to specific hardware. You can choose to lock your stand-alone license either to a dongle or to the computer's internal hardware:

- The standard choice is to lock the license to the computer's internal hardware. This means that the license can only be used on this specific computer. Use this alternative if you regularly work on a single computer.
- The stand-alone license can be locked to a dongle, which is a device you attach to the computer's parallel port. This means that the license can be used on another computer by moving the dongle. Use this alternative if you regularly work on two or more computers.

The dongle is generic which means that both IAR Embedded Workbench™ and IAR MakeApp™ can lock to the same dongle. You only need one dongle even if you run the IAR Embedded Workbench and/or IAR MakeApp on the same computer for several different target processors.

**Note:** If you want to lock your license to a dongle, you have to order it specifically when buying your IAR product.

---

## System requirements

To install and run the IAR Embedded Workbench™, you need the following:

- A PC with Windows 95/98, Windows ME, Windows 2000, or Windows NT 4.
- A Pentium processor with at least 64 Mbytes of RAM allowing you to fully utilize and take advantage of the product features.
- 100 Mbytes of free disk space, and an additional 10 MBytes of free disk space on the Windows system drive.
- A web browser and Adobe Acrobat Reader to be able to access all the product documentation.

Notice that in Windows NT, you must have administrator's rights to the system in order to install software.

---

## Installing a stand-alone license

The IAR Embedded Workbench™ installation is a three-stage procedure:

- First you install IAR Embedded Workbench™ using the QuickStart key, which allows you to use the product for 30 days.
- During this 30-day period, you must activate your license by registering the product with IAR Systems. Within 5 business days, you will receive the permanent key for your license.
- Finally you install the permanent key. This opens up the product for permanent usage.

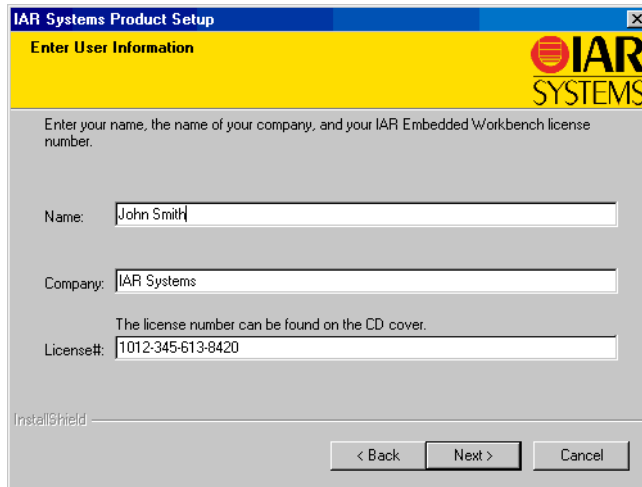
**Note:** The permanent key will be locked to the computer from which you register the product. This means that you must install the QuickStart key and the permanent key on the same computer.

If you are to install a product upgrade, you should not follow the installation procedure described below. Instead, follow the instructions in *Upgrading a product using a stand-alone license*, page 13.

### INSTALLING THE SOFTWARE

- 1 Make sure the date is set correctly on your computer. The date must not be changed until you have installed the permanent key.
- 2 Insert the IAR Embedded Workbench™ installation CD. The installation program should start automatically. If it does not, run the `autorun.exe` program from the CD.
- 3 Select **Install the IAR Embedded Workbench™**.
- 4 You must accept the license agreement when prompted. By clicking the **Accept** button, you confirm that you have read and understood the license agreement.

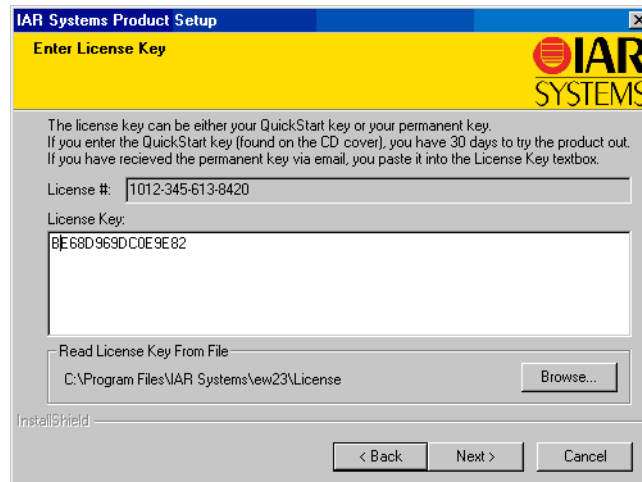
- 5 Enter your name, company, and the 17-character license number printed on the CD cover:



The screenshot shows the 'IAR Systems Product Setup' window with the 'Enter User Information' tab selected. The window has a yellow header bar with the IAR Systems logo. Below the header, there is a text box for 'Name' containing 'John Smith', a text box for 'Company' containing 'IAR Systems', and a text box for 'License #' containing '1012-345-613-8420'. A note above the license number field states: 'The license number can be found on the CD cover.' At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

Figure 1: Entering name, company, and license number

- 6 Enter the 16-character QuickStart key printed on the CD cover:



The screenshot shows the 'IAR Systems Product Setup' window with the 'Enter License Key' tab selected. The window has a yellow header bar with the IAR Systems logo. Below the header, there is a text box for 'License #' containing '1012-345-613-8420'. Below that is a large text box for 'License Key' containing 'BE68D969DC0E9E82'. A note above the license key field states: 'The license key can be either your QuickStart key or your permanent key. If you enter the QuickStart key (found on the CD cover), you have 30 days to try the product out. If you have recieved the permanent key via email, you paste it into the License Key textbox.' At the bottom, there is a section titled 'Read License Key From File' with a text box containing 'C:\Program Files\IAR Systems\eww23\License' and a 'Browse...' button. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

Figure 2: Entering the QuickStart key

**Note:** If you are re-installing the software and you have already registered it, you should enter or read in the permanent key instead of the QuickStart key.

- 7 Select the type of license lock you wish to use, either **My computer** or **Hardware dongle**:

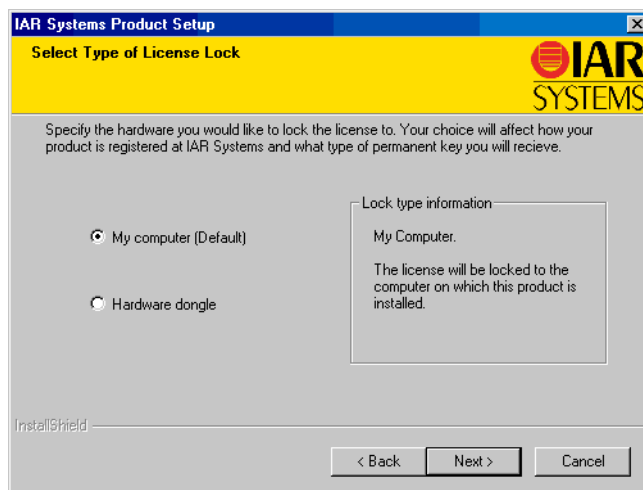


Figure 3: Selecting the license lock type

If you choose Hardware dongle, you must now attach the dongle to the parallel port. Do not choose this option if you have not received a dongle.



- 8 Accept the default installation directory or specify a directory of your choice:

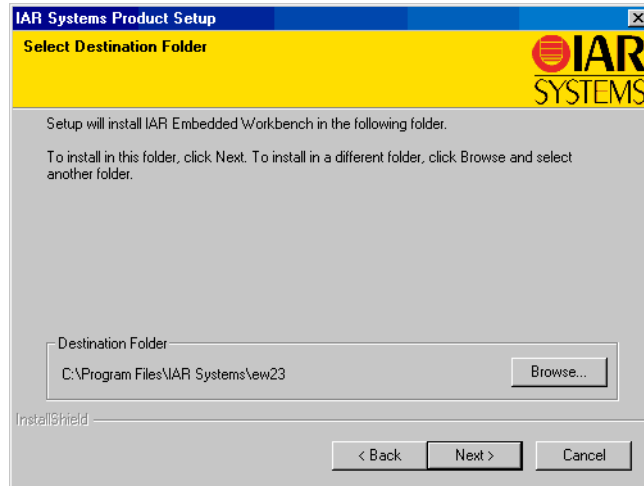


Figure 4: Selecting the installation directory

- 9 Select either a **Full** or a **Custom** installation:

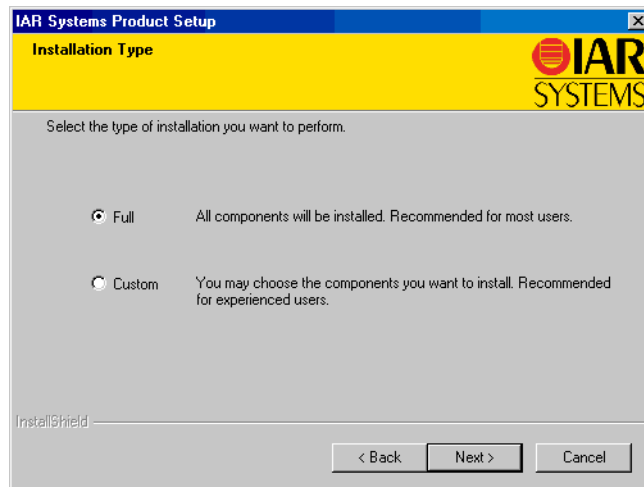


Figure 5: Selecting the installation type

If you choose Custom, select the components you want to install in the next dialog box.

- 10 Select where to place the IAR Embedded Workbench™ icons in the Windows **Start** menu:

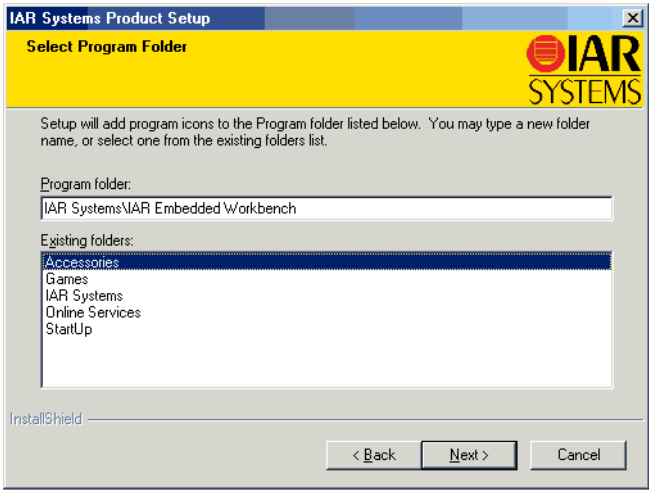


Figure 6: Selecting the program folder

- 11 Review the settings for the installation and click **Next** to install the program files.

## ACTIVATING THE LICENSE

At this point, you can use the IAR Embedded Workbench™ for a period of 30 days. To open up the product for permanent usage, you have to activate the license: first register the product with IAR Systems to receive a permanent key, and then install the permanent key.

If you do not register the product, you will be unable to run the software after the 30-day period.

## Registering the product

- 1 When the program files have been installed, a license activation program is started:

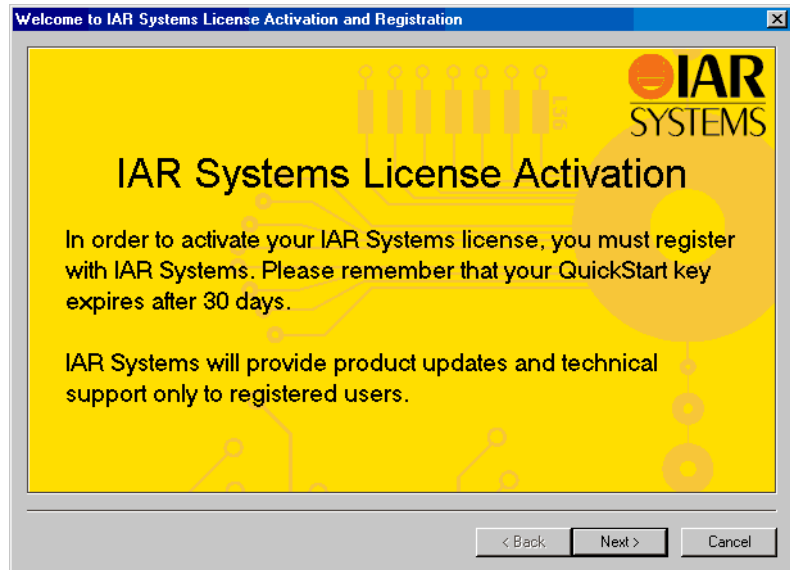


Figure 7: The license activation program

- 2 The next dialog box shows the product information to be sent to IAR Systems. Verify that the product information is correct.
- 3 In the next dialog box, enter your contact information. You are required to fill in all fields with boldface labels.

- 4 In the next dialog box, select how to register:

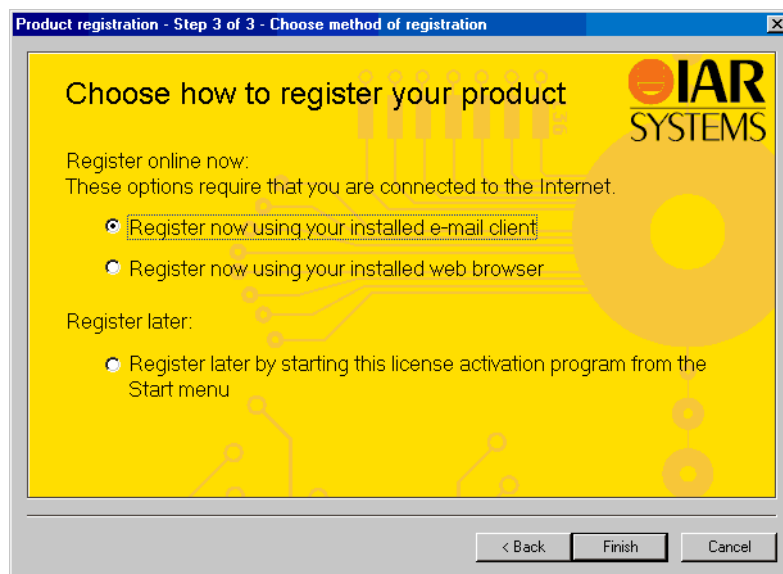


Figure 8: Selecting how to register

- If you choose to register now using your installed E-mail client, an E-mail message is automatically sent to IAR Systems. If this should fail, you will be notified with instructions on how to send the information yourself.
- If you choose to register now using your installed web browser, make sure to click the **Submit** button on the resulting web page to send the information to IAR Systems.
- If you choose to register later, the information you entered is saved. However, you must remember to run the license activation program at a later time to send the information to IAR Systems. You do this by selecting **IAR Systems License Activation** in the **Start** menu.

- 5 Finish the activation program and the installation program.

### Installing the permanent key

Within 5 business days after sending in your registration, the permanent key will be sent to you via the E-mail address that you entered into the registration form. Install the permanent key as follows:

- I Select and copy the permanent key from the E-mail message, according to the instructions included in the message.

- 2 Start the **IAR Systems License Manager** from the **Start** menu.
- 3 In the License Manager window, click the **Install License** button.
- 4 Paste the permanent key into the text field:

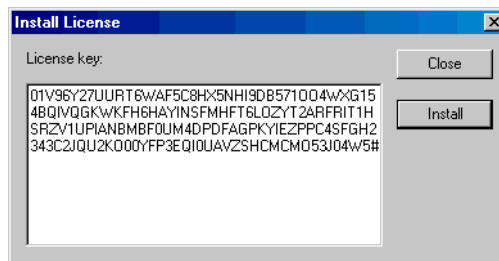


Figure 9: Installing the permanent key

- 5 Click **Install**.

You are now finished with the IAR Embedded Workbench™ installation.

## Upgrading a product using a stand-alone license

You perform a product upgrade on the same computer where a previous version of the same product already is installed. You cannot change the license type and license lock when installing the upgrade.

### LOCATING THE LICENSE NUMBER AND PERMANENT KEY

Product upgrades use the same license number and permanent key as your existing product. In most cases, they are automatically made available to the installation program, but in some cases you have to provide them yourself. You will notice if this is the case when you run the installation program.

- The license number and permanent key can be found by using the IAR License Manager. Start the **IAR Systems License Manager** from the **Start** menu. Locate your product in the window, and double-click the license listed below the product to display the license number and permanent key.
- The license number can also be found in the letter accompanying the upgrade, or on the CD cover of the original product.
- The permanent key can also be found in the E-mail message you received from IAR Systems after you registered the original product.

## INSTALLING THE PRODUCT UPGRADE

Before you install the upgrade, decide if you wish the upgrade to completely *replace* your existing product installation, or if you wish to keep your existing installation and install the upgrade in another directory. If you wish to replace, first do as follows:

- Make copies of linker command files, libraries, and any other product files you have modified in your existing installation. These files will otherwise be overwritten. Your own project files will remain intact.
- Uninstall the current version of the product by selecting the appropriate **Uninstall IAR Embedded Workbench** item from the **Start** menu.

Then perform the following steps on the computer where you currently have the product installed:

- 1 Insert the IAR Embedded Workbench™ installation CD. The installation program should start automatically. If it does not, run the `autorun.exe` program from the CD.
- 2 Select **Install the IAR Embedded Workbench™**.
- 3 You must accept the license agreement when prompted. By clicking the **Accept** button, you confirm that you have read and understood the license agreement.
- 4 Enter your name and company. The 17-character license number should already be filled in. If it is not, you must enter the license number of the product you are upgrading; see *Locating the license number and permanent key*, page 13.

**IAR Systems Product Setup**

**Enter User Information**

Enter your name, the name of your company, and your IAR Embedded Workbench license number.

Name: John Smith

Company: IAR Systems

The license number can be found on the CD cover.

License#: 1012-345-613-8420

InstallShield

< Back Next > Cancel

Figure 10: Entering name and company

- 5 The permanent key should already be filled in. If it is not, you must provide the permanent key of the product you are upgrading; see *Locating the license number and permanent key*, page 13.

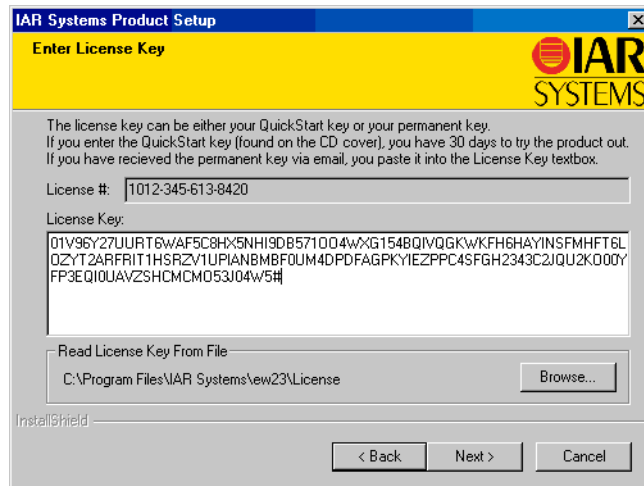


Figure 11: The permanent key when upgrading

- 6 Accept the default installation directory or specify a directory of your choice:

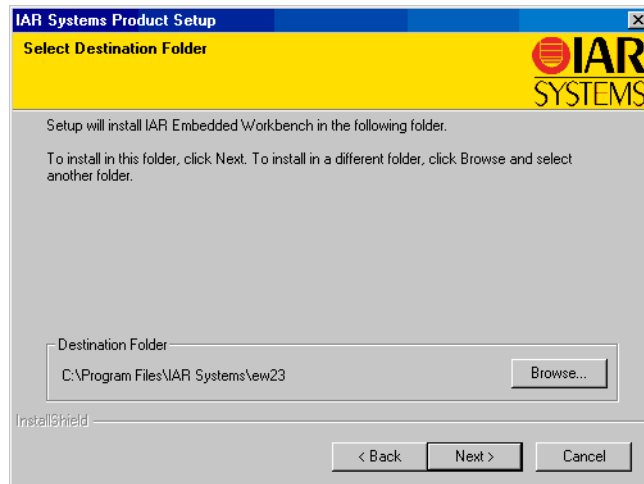


Figure 12: Selecting the upgrade installation directory

**Note:** If you want the installation directory to be the same as in the previous installation, make sure you have first uninstalled the previous version. See *Installing the product upgrade*, page 14.

- 7 Select either a **Full** or a **Custom** installation:

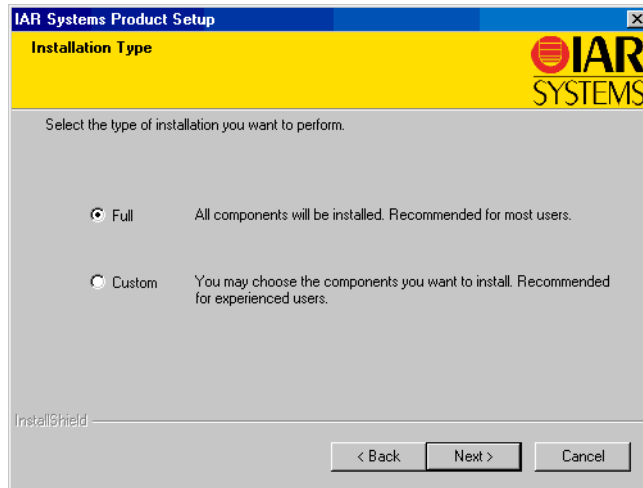


Figure 13: Selecting the installation type

If you choose Custom, select the components you want to install in the next dialog box.



- 8 Select where to place the IAR Embedded Workbench™ icons in the Windows **Start** menu:

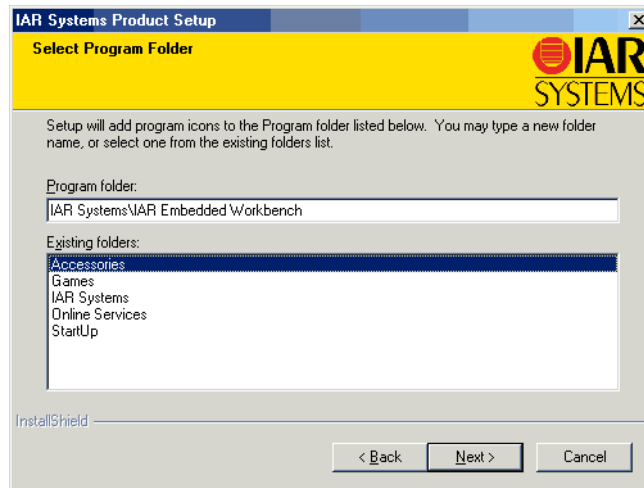


Figure 14: Selecting the program folder

- 9 Review the settings for the installation and click **Next** to install the program files. You are now finished with the IAR Embedded Workbench™ upgrade.

Upgrading a product using a stand-alone license

# Installing a product with a network license

This chapter gives information to the system or network administrator about how to install the IAR Systems license server software on the designated server and the IAR Embedded Workbench™ on the client computers.

---

## Network licenses

A network license is a multi-user license, consisting of license server software on one PC, and individual installations of the IAR Embedded Workbench™ on other computers—clients— in the same network. The network license is locked to the computer where the license server software runs.

The network license can be used by all client computers where the IAR Embedded Workbench™ is installed. However, the network license is made for a maximum number of concurrent users, and the license server software keeps track of the current number of users. Note that you will have one license number for all client installations, independent of the number of users the license covers.

### THE LICENSE SERVER SOFTWARE

When you order a network license, you receive one CD with the license server software, one dongle, and the client package with IAR Embedded Workbench™. Install the license server software on a computer that you want to use for the license server.

The usage of a dongle is optional but recommended. With the dongle attached to the license server computer you can easily move the license server software to a different server computer, for example, in case of server failure. If the dongle is not attached during installation, the network license will be locked to that specific server computer.

The license server software is generic and you can use this program for all IAR Embedded Workbench™ products that you install.

### THE IAR EMBEDDED WORKBENCH™ SOFTWARE

The client software can be installed on as many client computers as you prefer.

Each time an IAR Embedded Workbench™ using a network license starts up, it requests permission to run from the license server. If the maximum number of concurrent users has not been reached, the license server will grant permission to use the network license.

When a client stops using the product, the permission to use the network license remains locked to that client for another two hours before it is released to another client. In the IAR License Manager program you can view the status of the license. This program is installed with the product.

---

## System requirements

For the *license server computer*, we recommend:

- A PC with Windows 2000 or Windows NT 4.
- A PC using a static TCP/IP address; do not use a dynamic address since you would then have to link each client computer to the server computer each time the address changes.
- A 200 MHz or faster Pentium processor with at least 64 Mbytes of RAM, and 10 Mbytes of free disk space on the Windows system drive. The license server itself uses very little processor power, but a fast system is necessary to ensure that the licensed IAR Embedded Workbench™ in the network operate at an acceptable speed.
- A web browser and Adobe Acrobat Reader to be able to access all the product documentation.

Notice that in Windows NT, you must have administrator's rights to the system in order to install software.

For the *client computers*, the requirements are the same as for a stand-alone license; see *System requirements*, page 5.

---

## Installing a network license

The recommended way to install a product with a network license is the following four-stage procedure:

- First you install the IAR License Server software on a server computer.
- You must activate your network license by registering the product with IAR Systems. Within 5 business days, you will receive the permanent key for your license.
- Then you install the permanent key on the license server.
- Finally you install the IAR Embedded Workbench™ on the client computers, by using the permanent key.

**Important:** If you wish to add this network license to an already installed IAR License Server, see *Using an already installed license server*, page 30, for instructions. Do not follow the installation procedure described below.

**Note:** The procedure described below does not allow you to install and run the IAR Embedded Workbench™ on the client computers until you have received the permanent key from IAR Systems. If you need or want to run the IAR Embedded Workbench™ on the client computers immediately after receiving your product package, see *Alternative installation procedure*, page 29.

## INSTALLING THE LICENSE SERVER SOFTWARE

The permanent key you receive after registering is only valid for the computer you registered the product from. Thus, unless you use a dongle, it is *very* important that you decide from the beginning which computer to use for the license server, since the license server will be locked to that computer.

- 1 Choose a suitable server computer for the license server software, according to above and to the system requirements listed on page 20.
- 2 Insert the IAR License Server installation CD. The installation program should start automatically. If it does not, run the `autorun.exe` program from the CD.
- 3 Select **Install the IAR License Server**.
- 4 You must accept the license agreement when prompted. By clicking the **Accept** button, you confirm that you have read and understood the license agreement.
- 5 Enter your name, company, and the 17-character license number printed on the CD cover:

IAR Systems Product Setup

**Enter User Information**

Enter your name, the name of your company, and your IAR Embedded Workbench license number.

Name: John Smith

Company: IAR Systems

The license number can be found on the CD cover.

License#: 1012-345-613-8420

InstallShield

< Back Next > Cancel

Figure 15: Entering name, company, and license number

- 6 Select the type of license lock you wish to use, **My computer** or **Hardware dongle**:

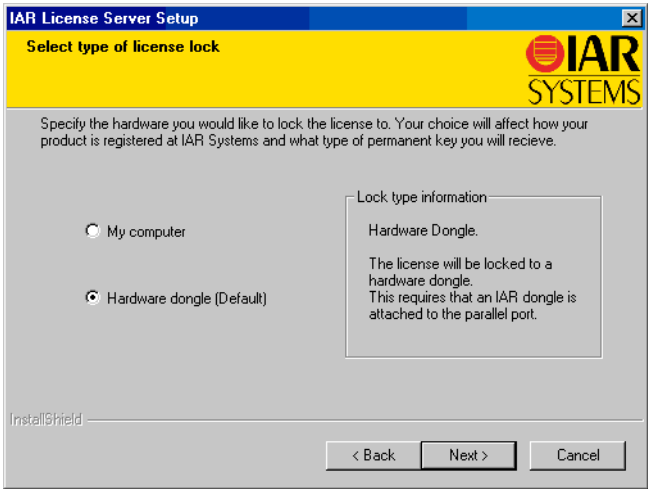


Figure 16: Selecting the license lock type

If you choose Hardware dongle, which is the recommended default, you must now attach the dongle to the parallel port of your license server computer.

- 7 Select where to place the IAR licensing tool icons in the Windows **Start** menu:

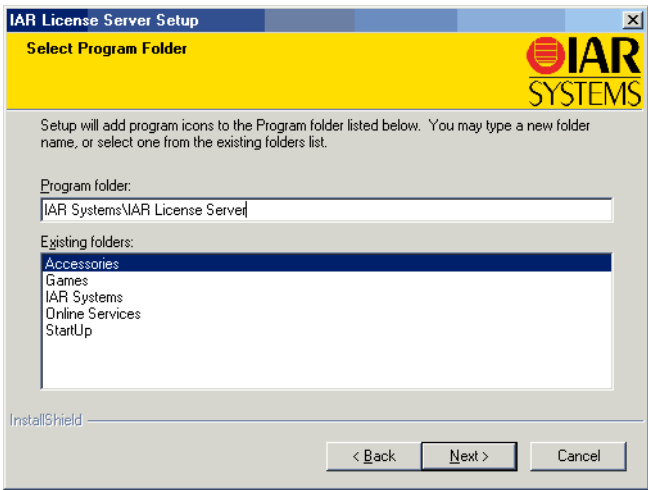


Figure 17: Selecting the program folder

- 8 Review the settings for the installation and click **Next** to install the program files.  
The server files will be installed in the `Common Files` directory. The license server software will start automatically after installation. It will also start automatically every time you restart the computer.

## ACTIVATING THE LICENSE

To be able to use your network license, you must activate it: first register the product with IAR Systems to receive a permanent key, and then install the permanent key.

### Registering the product

- 1 When the program files have been installed, a license activation program is started:

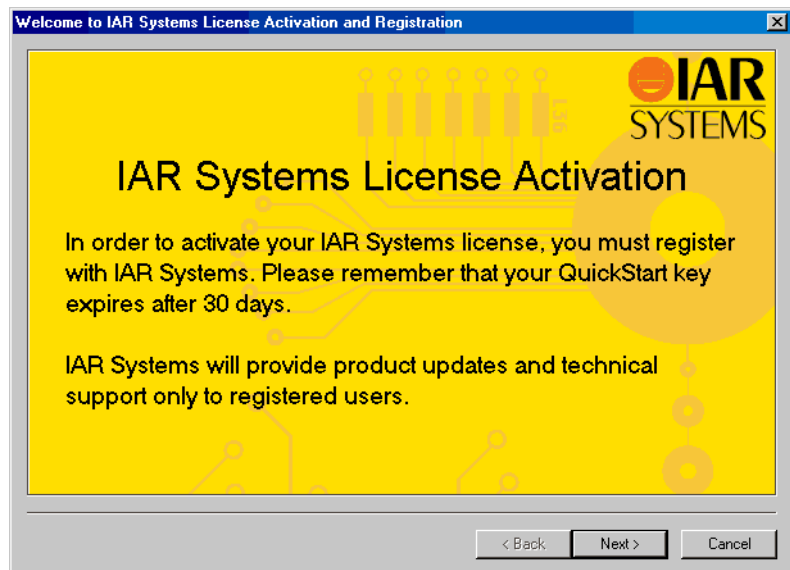


Figure 18: The license activation program

- 2 The next dialog box shows the product information to be sent to IAR Systems. Verify that the product information is correct.
- 3 In the next dialog box, enter your contact information. You are required to fill in all fields with boldface labels.

- 4 In the next dialog box, select how to register:

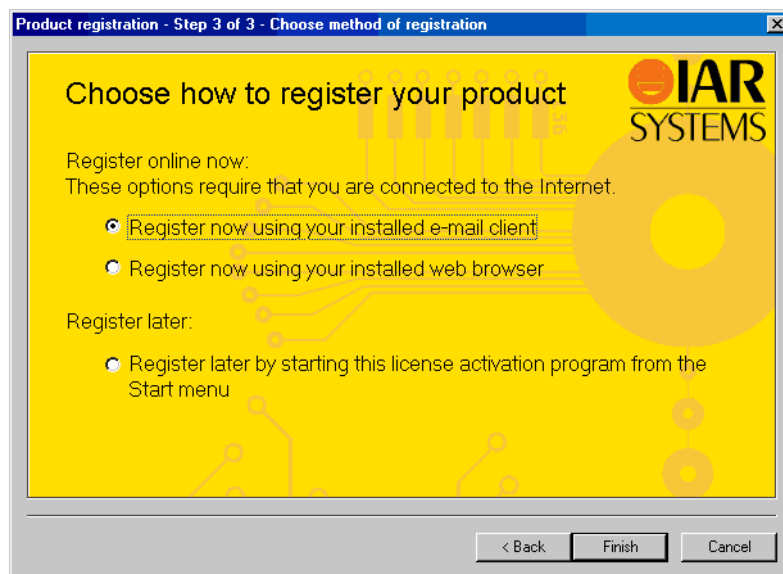


Figure 19: Selecting how to register

- If you choose to register now using your installed E-mail client, an E-mail message is automatically sent to IAR Systems. If this should fail, you will be notified with instructions on how to send the information yourself.
- If you choose to register now using your installed web browser, make sure to click the **Submit** button on the resulting web page to send the information to IAR Systems.
- If you choose to register later, the information you entered is saved. However, you must remember to run the license activation program at a later time to send the information to IAR Systems. You do this by selecting **IAR Systems License Activation** in the **Start** menu.

- 5 Finish the activation program and the installation program.

When activating products with a network license, it is important that you register only the *license server* installation. Do not send in registration information from computers in the network where you have installed the IAR Embedded Workbench™ only.



### Installing the permanent key on the license server computer

Within 5 business days after sending in your registration, the permanent key will be sent to you via the E-mail address that you entered into the registration form. Install the permanent key as follows:

- 1 Select and copy the permanent key from the E-mail message, according to the instructions included in the message.
- 2 Start the **IAR Systems License Manager** from the **Start** menu.
- 3 In the License Manager window, click the **Install License** button.
- 4 Paste the permanent key into the text field:

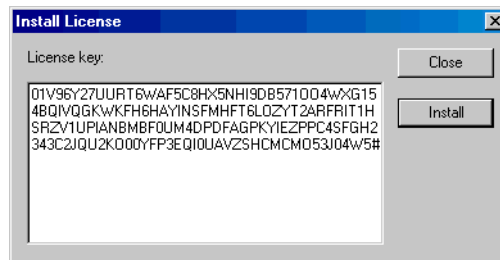


Figure 20: Installing the permanent key

- 5 Click **Install**.

You are now finished with the installation of the IAR License Server, and should continue with the installation of the IAR Embedded Workbench™ on the client computers. To facilitate this, you should distribute the permanent key to all client computers:

- 6 Make the permanent key available to each client computer; either send it via E-mail or save it to a network file to which the client computers have access.
- 7 Before starting the installation of the IAR Embedded Workbench™ on the client computers, make sure that the license server software is up and running on the license server computer.

## INSTALLING THE IAR EMBEDDED WORKBENCH™ ON CLIENT COMPUTERS

The following steps should be repeated on each client computer.

**Note:** For performance reasons, you should avoid to install the IAR Embedded Workbench™ on the computer where the license server software is installed.

- 1 Insert the IAR Embedded Workbench™ installation CD. The installation program should start automatically. If it does not, run the `autorun.exe` program from the CD.
- 2 Select **Install the IAR Embedded Workbench™**.
- 3 You must accept the license agreement when prompted. By clicking the **Accept** button, you confirm that you have read and understood the license agreement.
- 4 Enter your name, company, and the 17-character license number printed on the CD cover:

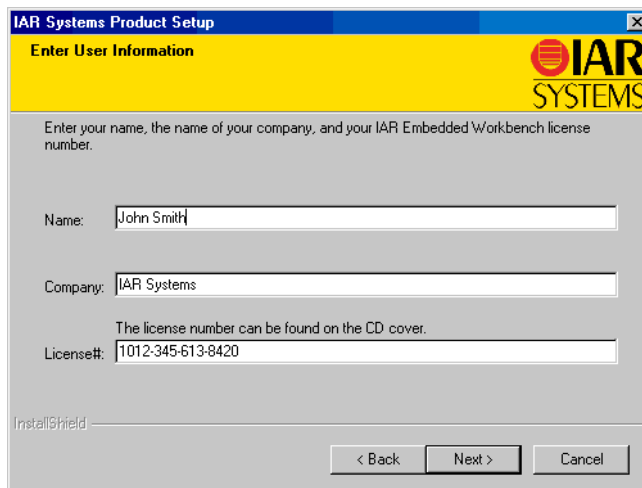
The image shows a screenshot of the 'IAR Systems Product Setup' window. The title bar is blue with the text 'IAR Systems Product Setup'. Below the title bar is a yellow header area with the text 'Enter User Information' and the IAR Systems logo. The main area is gray and contains the following text: 'Enter your name, the name of your company, and your IAR Embedded Workbench license number.' There are three input fields: 'Name:' with the text 'John Smith', 'Company:' with the text 'IAR Systems', and 'License#:' with the text '1012-345-613-8420'. A small note above the license field says 'The license number can be found on the CD cover.' At the bottom left is the 'InstallShield' logo. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

Figure 21: Entering name, company, and license number

- 5 Provide the permanent key, which the system administrator should have made available (see step number 6, on page 25):

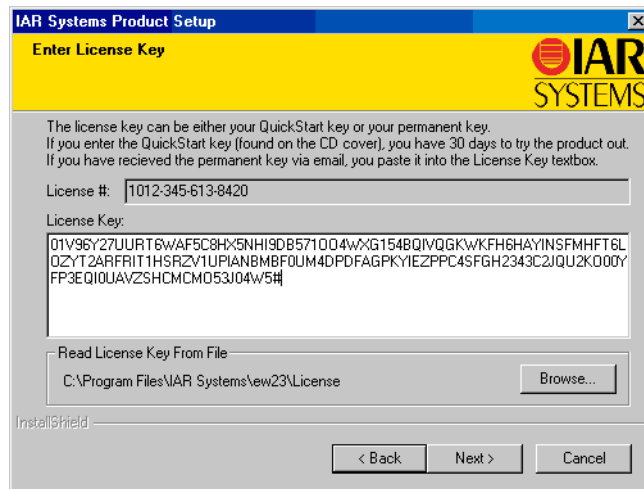


Figure 22: Providing the permanent key

- 6 Accept the default installation directory or specify a directory of your choice:

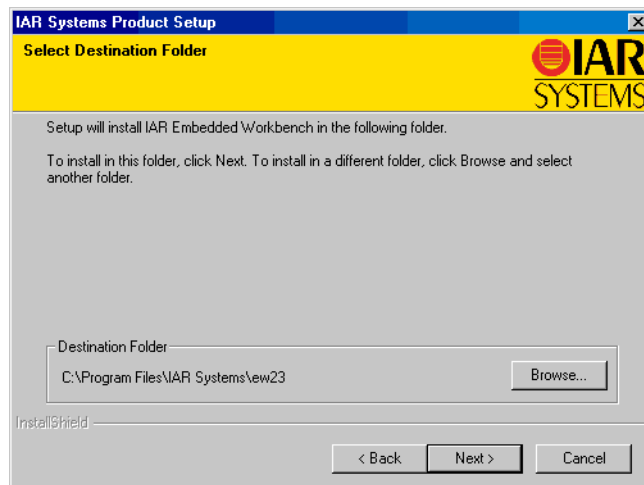


Figure 23: Selecting the installation directory

7 Select either a **Full** or a **Custom** installation:

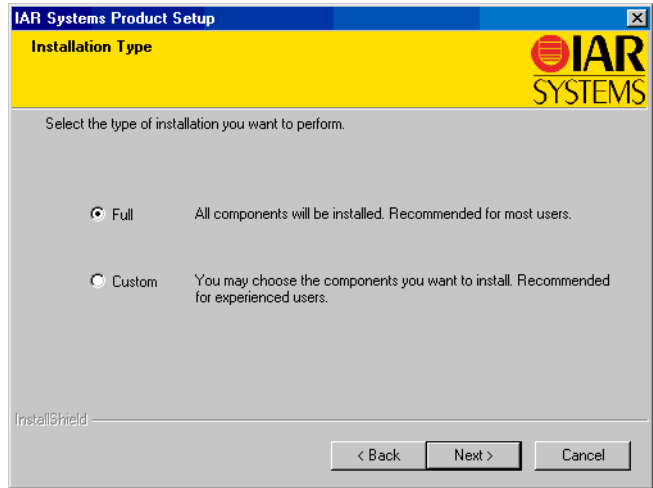


Figure 24: Selecting the installation type

If you choose Custom, select the components you want to install in the next dialog box.

8 Select where to place the IAR Embedded Workbench™ icons in the **Start** menu:

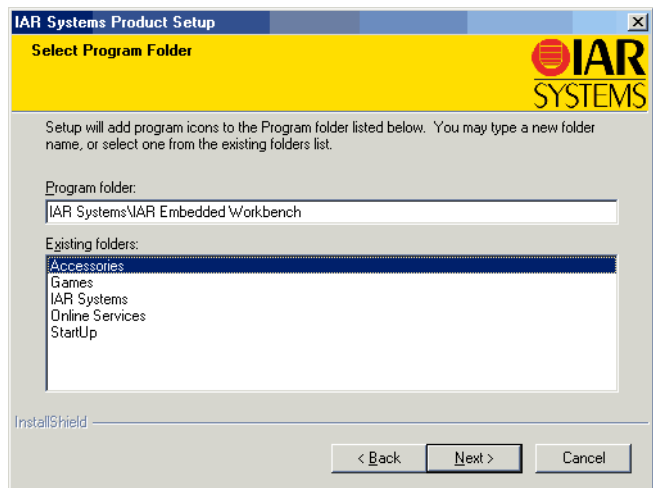


Figure 25: Selecting the program folder

- 9 Review the settings for the installation and click **Next** to install the program files.  
Make sure to repeat the above steps on each client computer where you want to be able to run the IAR Embedded Workbench™.
- You are now finished with the IAR Embedded Workbench™ installation.

---

## Alternative installation procedure

The regular installation procedure does not give you the possibility to install and run the IAR Embedded Workbench™ on the client computers until you have received the permanent key from IAR. To receive the key can take up to 5 business days after registration. If you need or want to run the IAR Embedded Workbench™ on the client computers immediately after receiving your product package, proceed as follows.

- 1 Install the client software as described in *Installing the IAR Embedded Workbench™ on client computers*, page 26, with the following exception: in step number 5, on page 27, enter the QuickStart key printed on the CD cover.
- 2 Install the license server software as described in *Installing the license server software*, page 21.
- 3 Activate the license by registering the product as described in *Registering the product*, page 23.
- 4 Make the permanent key available to each client computer by sending it via E-mail.
- 5 Make sure that the license server software is up and running on the license server computer.
- 6 On each client computer, install the permanent key as described in *Installing the permanent key*, page 12.

**Note:** You should be aware that the installation procedure described above has some disadvantages compared to the regular procedure:

- It requires you to perform an additional set of steps on each client computer (step number 6 above).
- A subsequent product upgrade will require you to manually provide the permanent key on each client computer when you install the IAR Embedded Workbench™ upgrade.

---

## Using an already installed license server

If you already have an IAR License Server installed and you wish to use it for your new IAR Embedded Workbench™ product, proceed as follows:

- 1 On the license server computer, start the **IAR Systems License Manager** from the **Start** menu.
- 2 In the License Manager window, click the **Display HostID** button.
- 3 Enter the 17-character license number printed on the CD cover:

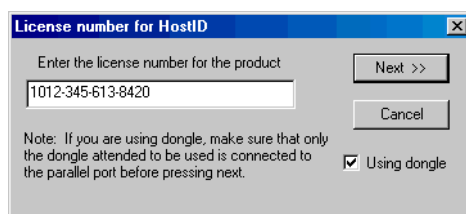


Figure 26: Entering the license number

- 4 If your license server uses a dongle, check **Using dongle** and make sure the dongle is attached to the parallel port of the license server computer.
- 5 Click **Next**.  
A dialog is opened, displaying the license number and the HostID for the license server computer.
- 6 Select and copy the displayed information and **Close** the dialog.
- 7 Send a registration E-mail to [register@iar.com](mailto:register@iar.com), in which you include (paste) the license number and the HostID, and request a permanent key for your product.  
Within 5 business days after sending your E-mail, you will receive the permanent key via E-mail.
- 8 Install the permanent key on the license server computer as described in *Installing the permanent key on the license server computer*, page 25.
- 9 Install the client software as described in *Installing the IAR Embedded Workbench™ on client computers*, page 26.

## Upgrading a product using a network license

In addition to new versions of the IAR Embedded Workbench™ software, you may also receive new versions of the license server software.

You perform a product upgrade on the same computer where a previous version of the same product already is installed. You continue to use the same license type and license lock after installing the upgrade.

### LOCATING THE LICENSE NUMBER AND PERMANENT KEY

Product upgrades use the same license number and permanent key as your existing product. In most cases, they are automatically made available to the installation program, but in some cases you have to provide them yourself. You will notice if this is the case when you run the installation program.

- The license number and permanent key can be found by using the IAR License Manager. Start the **IAR Systems License Manager** from the **Start** menu. Locate your product in the window, and double-click the license listed below the product to display the license number and permanent key.
- The license number can also be found in the letter accompanying the upgrade, or on the CD cover of the original product.
- The permanent key can also be found in the E-mail message you received from IAR Systems after you registered the original product.

### UPGRADING THE LICENSE SERVER SOFTWARE

Product upgrades for network licenses may come with an upgrade CD for the license server software. If that is the case, perform the following steps on the computer where you have the current license server installed.

**Note:** The installation procedure will shut down the license server and make all network licenses temporarily unavailable.

- 1 First uninstall the current version of the license server software by selecting the appropriate **Uninstall IAR License Server** item from the **Start** menu.
- 2 Insert the IAR License Server installation CD. The installation program should start automatically. If it does not, run the `autorun.exe` program from the CD.
- 3 Select **Install the IAR License Server**.
- 4 You must accept the license agreement when prompted. By clicking the **Accept** button, you confirm that you have read and understood the license agreement.

- 5 Enter your name and company. The 17-character license number should already be filled in. If it is not, you must enter the license number of the license server you are upgrading; see *Locating the license number and permanent key*, page 31.

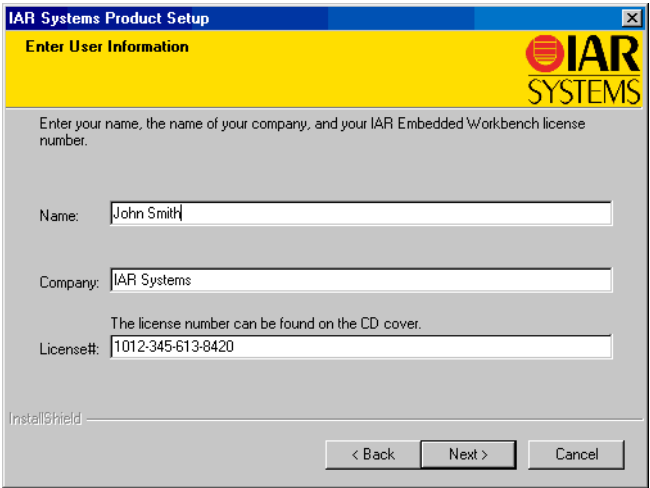


Figure 27: Entering name and company

- 6 Select the type of license lock you wish to use, either **My computer** or **Hardware dongle**:

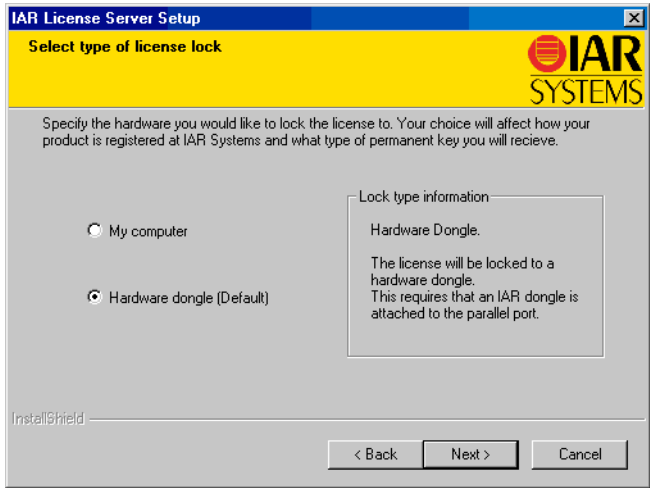


Figure 28: Selecting the license lock type



You should choose the same type of license lock that the previous version of the license server used. If you choose Hardware dongle, make sure the dongle is attached to the parallel port of your license server computer before you proceed.

- 7 Select where to place the IAR licensing tool icons in the Windows **Start** menu:

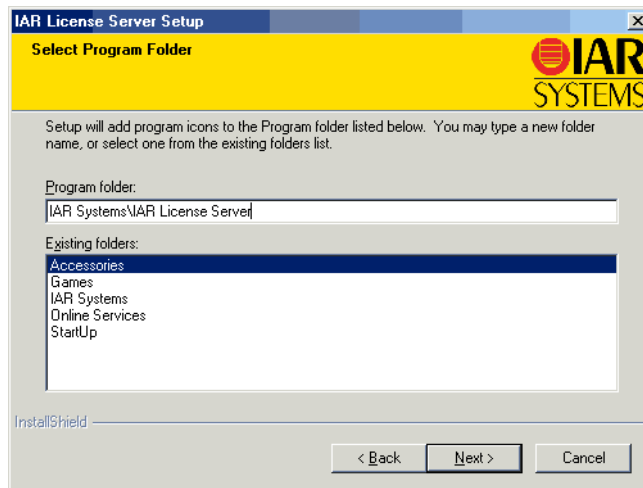


Figure 29: Selecting the program folder

- 8 Review the settings for the installation and click **Next** to install the program files.
- 9 If you are asked to activate the license or register the product, cancel out of the installation program. You should not register the license server upgrade, since you already have registered the product when you first installed it.

You are now finished with the IAR License Server upgrade.

## UPGRADING THE CLIENT SOFTWARE

Before you install the upgrade on the client computers, decide if you wish the upgrade to completely *replace* your existing product installation, or if you wish to keep your existing installation and install the upgrade in another directory. If you wish to replace, first do as follows:

- Make copies of linker command files, libraries, and any other product files you have modified in your existing installation. These files will otherwise be overwritten. Your own project files will remain intact.
- Uninstall the current version of the product by selecting the appropriate **Uninstall IAR Embedded Workbench** item from the **Start** menu.

Then perform the following steps on each client computer where you have the previous version of your IAR Embedded Workbench™ installed:

- 1 Insert the IAR Embedded Workbench™ installation CD. The installation program should start automatically. If it does not, run the `autorun.exe` program from the CD.
- 2 Select **Install the IAR Embedded Workbench™**.
- 3 You must accept the license agreement when prompted. By clicking the **Accept** button, you confirm that you have read and understood the license agreement.
- 4 Enter your name and company. The 17-character license number should already be filled in. If it is not, you must enter the license number of the product you are upgrading; see *Locating the license number and permanent key*, page 31.

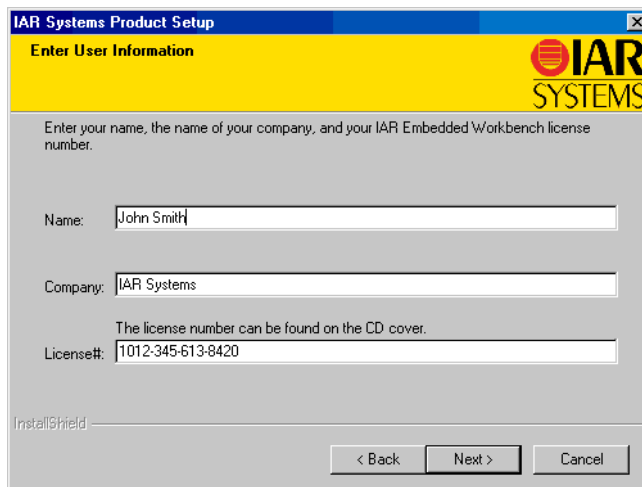


Figure 30: Entering name and company

- 5 The permanent key should already be filled in. If it is not, you must provide the permanent key of the product you are upgrading; see *Locating the license number and permanent key*, page 31.

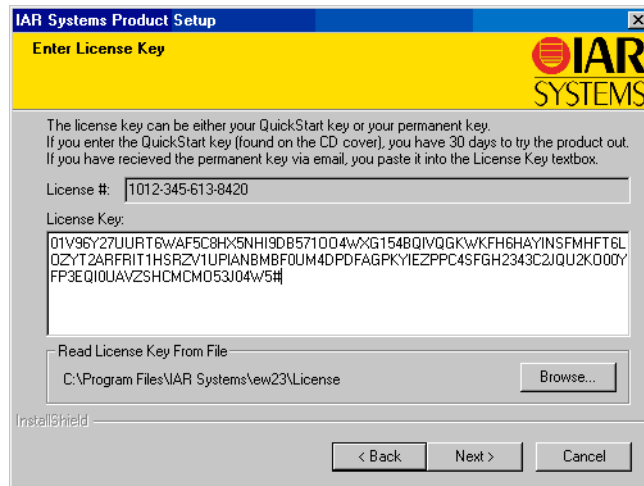


Figure 31: The permanent key when upgrading

- 6 Accept the default installation directory or specify a directory of your choice:

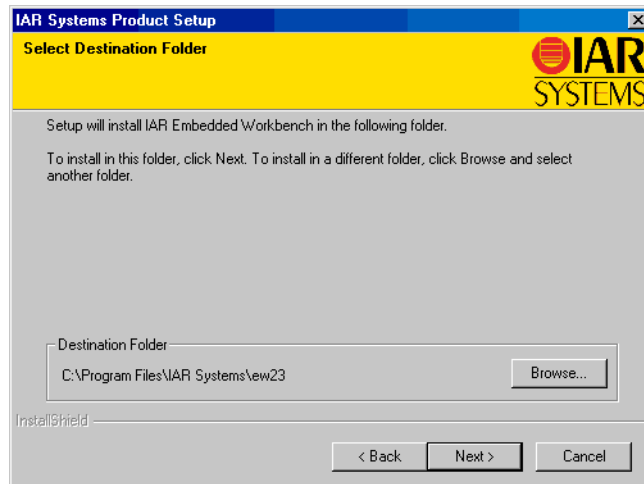


Figure 32: Selecting the upgrade installation directory

**Note:** If you want the installation directory to be the same as in the previous installation, make sure you have first uninstalled the previous version. See *Upgrading the client software*, page 33.

- 7 Select either a **Full** or a **Custom** installation:

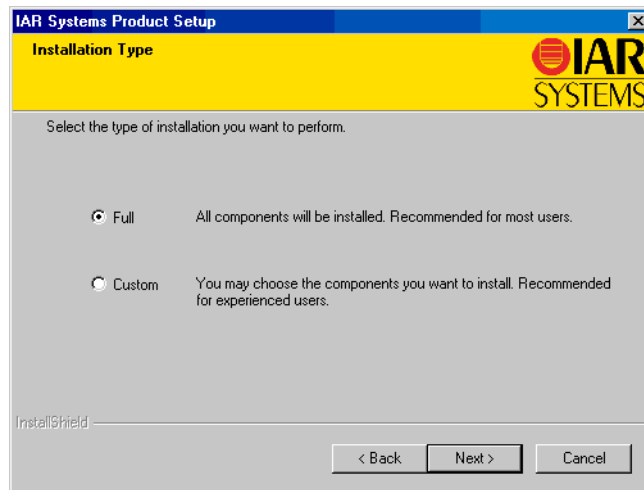


Figure 33: Selecting the installation type

If you choose Custom, select the components you want to install in the next dialog box.

- 8 Select where to place the IAR Embedded Workbench™ icons in the Windows **Start** menu:

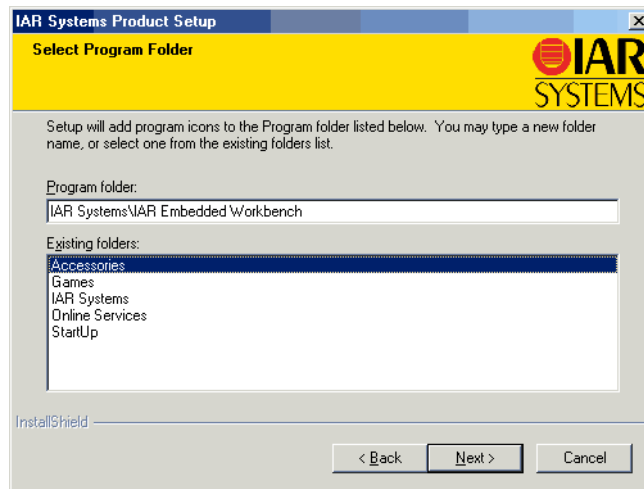


Figure 34: Selecting the program folder

- 9 Review the settings for the installation and click **Next** to install the program files.  
Make sure to perform the above steps on each client computer. You are then finished with the IAR Embedded Workbench™ upgrade.

## Adding more users to a network license

If the number of concurrent users permitted by your network license is not sufficient, it is possible to add more users to the license. To do this, you must contact your software distributor or IAR Systems to purchase an extended network license. You will then receive a new permanent key which you should install on all computers:

- 1 Install the new permanent key on the license server computer as described in *Installing the permanent key on the license server computer*, page 25.
- 2 On each client computer, install the permanent key as described in *Installing the permanent key*, page 12.



# Transferring a license

This chapter describes how you can move a license between computers, either temporarily or permanently.

---

## Moving a license using a dongle

If you have a license locked to a dongle, you can use the license on another computer by moving the dongle.

### MOVING A STAND-ALONE LICENSE

If you need to transfer your license between computers on a regular basis, you should purchase a stand-alone license that includes a dongle to which you lock the license.

- 1 Install the IAR Embedded Workbench™ on computer A using the QuickStart key as described in *Installing the software*, page 6. Specify hardware dongle as the type of license lock to be used.
- 2 Activate and register the license and install the permanent key as described in *Activating the license*, page 10.
- 3 Make the permanent key available to computer B, for instance by saving it to a file.
- 4 Move the dongle to computer B and attach it to the parallel port.
- 5 Install the IAR Embedded Workbench™ on computer B as described in *Installing the software*, page 6, but with one important exception: use the permanent key instead of the QuickStart key in step number 6, on page 7. Specify hardware dongle as the type of license lock to be used.

You can now use the IAR Embedded Workbench™ on both computers by simply moving the dongle between them.

### MOVING A NETWORK LICENSE

The network license should typically be locked to the dongle that is included in the product package. To move the network license to a new license server computer, for example in the case of server failure, do as follows:

- 1 Move the dongle to the new license server computer and attach it to the parallel port.
- 2 Install the license server software on the new computer as described in *Installing the license server software*, page 21. Do not activate or register the license.
- 3 Make the permanent key available to each client computer by sending it via E-mail.

- 4 On each client computer, re-install the permanent key as described in *Installing the permanent key*, page 12.

## Transferring a license to another computer

In some cases you may want to transfer your stand-alone license permanently to another computer, for example, when purchasing a new computer. To transfer a stand-alone license between two computers, the license must first be “de-activated” on the old computer and then “activated” on the new computer. For this to work correctly, license and host information must be transferred between the two computers.

The picture below gives an overview of the license transfer process:

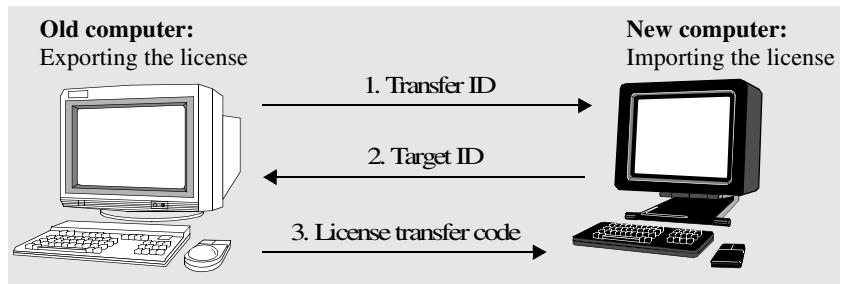


Figure 35: The license transfer process

Proceed according to the following description to transfer your license from the “old” computer to the “new” computer.

### INSTALLING THE PRODUCT ON THE NEW COMPUTER

You start by installing the product on the new computer.

- 1 On the old computer, make the permanent key available to the new computer by saving it to a file. For information on how to locate the permanent key, see *Locating the license number and permanent key*, page 13.
- 2 Install the IAR Embedded Workbench™ on the new computer as described in *Installing the software*, page 6. In step number 5, on page 7, use the same license number as the product on the old computer. In step number 6, on page 7, use the permanent key by reading it from file. Ignore the warning that appears on the screen.



## CREATING THE TRANSFER ID ON THE OLD COMPUTER

Next you create a *transfer ID* on the old computer, identifying the transfer of the existing license.

- 1 On the old computer, start the **IAR Systems License Manager** from the **Start** menu.
- 2 In the License Manager window, click the **License Transfer** button.
- 3 Select **Export a license from this PC to another PC** and select the license to transfer:

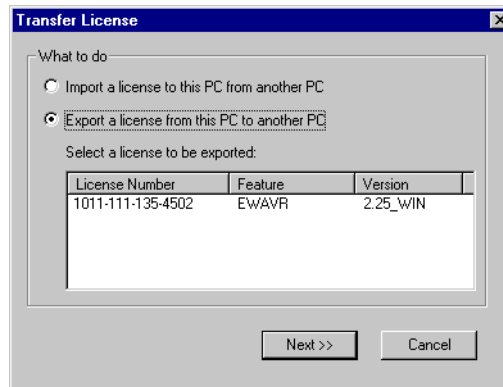


Figure 36: Selecting the license to transfer

- 4 In the next dialog box you receive the transfer ID, which you will need on the new computer:

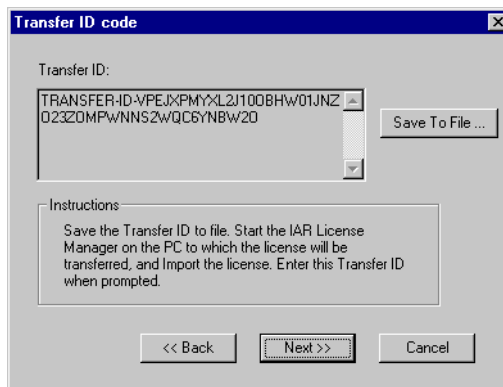


Figure 37: Receiving the transfer ID

- 5 Click **Save To File** and save the transfer ID to a file that you have access to on the new computer.
- 6 Click **Next** and keep the license transfer dialog box open on the old computer. You will return to the next dialog box later.

## CREATING THE TARGET ID ON THE NEW COMPUTER

Next you import the transfer ID to the new computer and create a *target ID*, identifying the new host for the license.

- 1 On the new computer, start the **IAR Systems License Manager** from the **Start** menu.
- 2 In the License Manager window, click the **License Transfer** button.
- 3 Select **Import a license to this PC from another PC**:

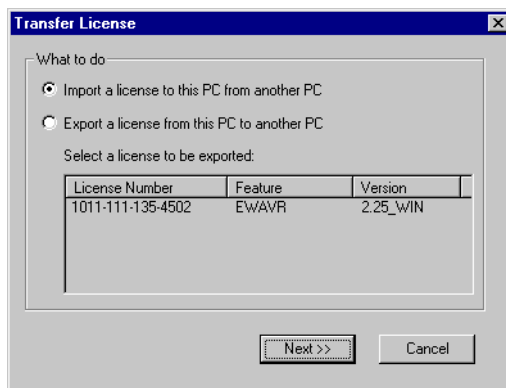


Figure 38: Importing the license

- 4 In the next dialog box, provide the transfer ID you received in step number 4, on page 41. Click **Read From File** and locate the file to which you saved the transfer ID:

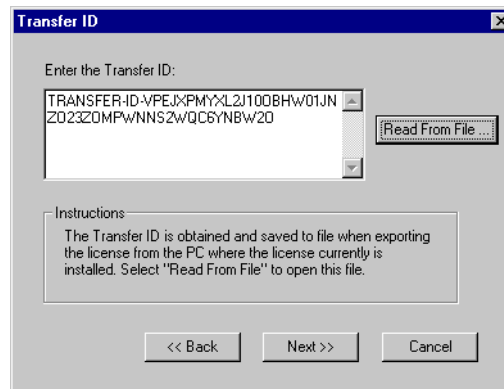


Figure 39: Reading the transfer ID from file

- 5 In the next dialog box you receive the target ID, which you will need on the old computer:

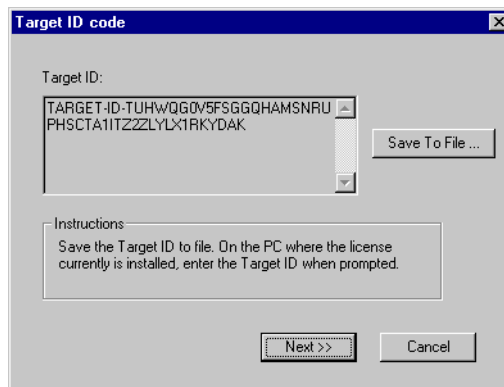


Figure 40: Receiving the target ID

- 6 Click **Save To File** and save the target ID to a file that you have access to on the old computer.
- 7 Click **Next** and keep the license transfer dialog box open on the new computer. You will return to the next dialog box later.

## CREATING THE LICENSE TRANSFER CODE ON THE OLD COMPUTER

Next you import the target ID to the old computer and create a *license transfer code* that will activate the license on the new computer. In the process, the license will become inactive on the old computer.

- 1 On the old computer, provide the target ID you received above. In the dialog box, click **Read From File** and locate the file to which you saved the target ID:

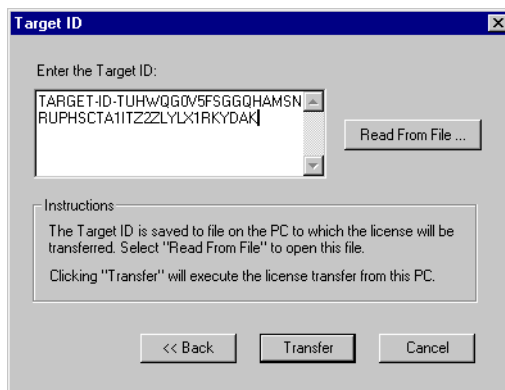


Figure 41: Reading the target ID from file

- 2 Click **Transfer**. The license now becomes inactive and can no longer be used on the old computer.

- 3 In the next dialog box you receive the license transfer code, which you will need on the new computer:

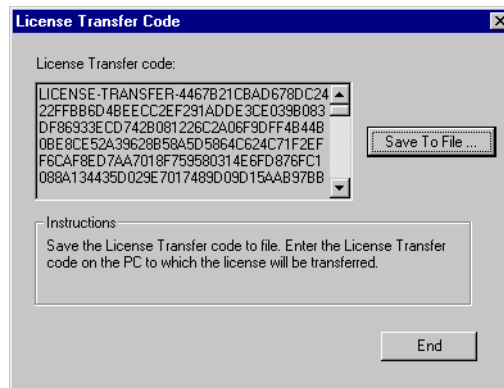


Figure 42: Receiving the license transfer code

- 4 Click **Save To File** and save the license transfer code to a file that you have access to on the new computer.

**Warning:** If you lose the license transfer code, you will not be able to activate the license on the new computer. This means that the license cannot be used on any computer.

- 5 Click **End** to complete the transfer of the license on the old computer.

## ACTIVATING THE LICENSE ON THE NEW COMPUTER

Finally, you import the *license transfer code* to the new computer.

- 1 On the new computer, provide the license transfer code you received above. In the dialog box, click **Read From File** and locate the file to which you saved the code:

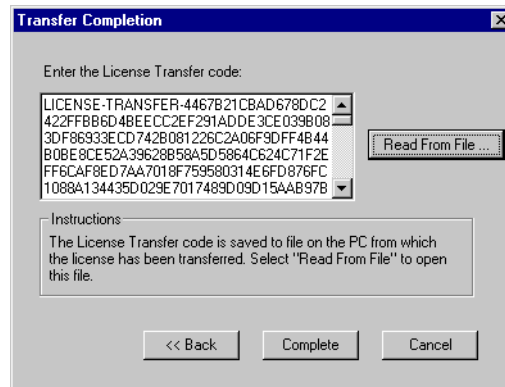


Figure 43: Reading the license transfer code from file

- 2 Click **Complete** to complete the transfer of the license to the new computer.  
The license has now been activated on the new computer.

## A

- activating the license
  - stand-alone license ..... 10
- Adobe Acrobat Reader ..... 5, 20
- alternative installation procedure ..... 29

## B

- back-up copies ..... 3
- back-up files ..... 14

## C

- client computers
  - installing the IAR Embedded Workbench. .... 26–29
  - system requirements ..... 20
  - upgrading a product. .... 33–37
- components to install
  - selecting for a stand-alone license. .... 9
  - selecting on client computers ..... 28
- computer style, typographic convention ..... vii
- conventions, typographic ..... vii
- copyright ..... ii

## D

- distributor, of software ..... 3
- document conventions ..... vii
- documentation, accessing. .... 5, 20
- dongle
  - using with network license ..... 19
  - using with stand-alone license ..... 5

## F

- floating license. *See* network license
- free product upgrades. .... 1
- frequently asked questions (FAQs) ..... 3

## H

- hardware lock. *See* dongle

## I

- IAR Embedded Workbench
  - documentation, accessing ..... 5, 20
  - installing on client computers ..... 26–29
  - replacing with new version ..... 3
  - sharing license server software between IAR products 30
- IAR Systems License Manager ..... 13, 25
- IAR Systems' website ..... 3
- IAR Technical Support. .... 3
- installation directory, using for product upgrade ..... 3
- installing
  - IAR Embedded Workbench on client computers . . 26–29
  - network license ..... 20–29
    - alternative procedure ..... 29
    - license server software ..... 21–25
    - product upgrade ..... 31–37
    - stand-alone license ..... 6–13
    - product upgrade ..... 14–17

## L

- license activation program ..... 11, 23
- License Manager ..... 13, 25
- license server computer ..... 2
  - selecting. .... 21
  - system requirements ..... 20
- license server software
  - installing ..... 21–25
  - upgrading. .... 31–33
  - using for several products ..... 30
- license transfer ..... 2
- license types ..... 1

## M

moving a license . . . . .	2
permanently . . . . .	40
temporarily . . . . .	39

## N

network administrator . . . . .	vii
network license . . . . .	1–2
adding more users . . . . .	37
alternative installation procedure . . . . .	29
installing . . . . .	20–29
installing a product upgrade . . . . .	31–37
locking to dongle . . . . .	19
moving to other license server computer . . . . .	39
system requirements . . . . .	20
number of users, changing . . . . .	37

## O

overview, of installation and licensing . . . . .	1
---	---

## P

part number . . . . .	ii
permanent key . . . . .	1
installing for stand-alone license . . . . .	12–13
installing on client computers . . . . .	27
product documentation, accessing . . . . .	5, 20
product upgrades, free . . . . .	1

## Q

QuickStart cards . . . . .	vii
QuickStart key . . . . .	1

## R

readme.htm . . . . .	3
----------------------	---

reference information, typographic convention . . . . .	vii
registering the product . . . . .	23–24
network license . . . . .	10–12
stand-alone license . . . . .	10–12

## S

server failure . . . . .	2
software distributor . . . . .	3
stand-alone license . . . . .	1
installing . . . . .	6–13
installing a product upgrade . . . . .	13–17
locking to dongle or internal computer hardware . . . . .	5
moving between computers . . . . .	39
system requirements . . . . .	5
system requirements . . . . .	
client computers . . . . .	20
network license . . . . .	20
stand-alone license . . . . .	5
systems administrator . . . . .	vii

## T

technical notes . . . . .	3
Technical Support . . . . .	3
trademarks . . . . .	ii
transferring a license . . . . .	2
permanently . . . . .	40
temporarily . . . . .	39
types, of licenses . . . . .	1
typographic conventions . . . . .	vii

## U

upgrading a product . . . . .	3
license server software . . . . .	31–33
on client computers . . . . .	33–37
stand-alone license . . . . .	13–17
users, adding to network license . . . . .	37



## V

vendor, of software. . . . . 3

## W

web browser

    for accessing product documentation . . . . . 5, 20

    using to register product . . . . . 12, 24

website, IAR Systems . . . . . 3

