



## **Software Licensing Guide**

Revision 1.2, April 2013

Part Number  
82-100112-01

Analog Devices, Inc.  
One Technology Way  
Norwood, Mass. 02062-9106



## Copyright Information

© 2013 Analog Devices, Inc., ALL RIGHTS RESERVED. This document may not be reproduced in any form without prior, express written consent from Analog Devices, Inc.

Printed in the USA.

## Disclaimer

Analog Devices, Inc. reserves the right to change this product without prior notice. Information furnished by Analog Devices is believed to be accurate and reliable. However, no responsibility is assumed by Analog Devices for its use; nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under the patent rights of Analog Devices, Inc.

## Trademark and Service Mark Notice

The Analog Devices logo, Blackfin, CrossCore, EngineerZone, EZ-Board, EZ-KIT Lite, SHARC, and VisualDSP++ are registered trademarks of Analog Devices, Inc.

All other brand and product names are trademarks or service marks of their respective owners.

# CONTENTS

## PREFACE

|                                 |      |
|---------------------------------|------|
| Purpose .....                   | vii  |
| Intended Audience .....         | vii  |
| Manual Contents .....           | vii  |
| What's New in this Manual ..... | viii |
| Technical Support .....         | viii |
| Product Information .....       | ix   |
| Analog Devices Web Site .....   | ix   |
| EngineerZone .....              | x    |
| Notation Conventions .....      | xi   |

## LICENSING OVERVIEW

|   |     |
|---|-----|
| Supported Operating Systems .....         | 1-2 |
| System Requirements .....                 | 1-2 |
| Note to VisualDSP++ Users .....           | 1-3 |
| Licensing Terminology .....               | 1-3 |
| License Types .....                       | 1-4 |
| License Expiration and Subscription ..... | 1-5 |
| License Locking Options .....             | 1-6 |

# Contents

|   |      |
|---|------|
| Licensing Options Summary .....                     | 1-7  |
| Obtaining a License Serial Number .....             | 1-9  |
| Obtaining a Full License Serial Number .....        | 1-9  |
| Obtaining an Evaluation License Serial Number ..... | 1-9  |
| Locating License Serial Numbers .....               | 1-10 |
| Getting a PC Ready for License Activation .....     | 1-11 |

## ACTIVATING A LICENSE

|  |      |
|--|------|
| Starting the New License Wizard .....  | 2-2  |
| Selecting a License Type .....         | 2-3  |
| Entering a License Serial Number ..... | 2-5  |
| License Activation Methods .....       | 2-6  |
| Activating a License in One Step ..... | 2-7  |
| Delayed License Activation .....       | 2-9  |
| Validating a License .....             | 2-12 |

## ADMINISTERING A CORPORATE DOMAIN LICENSE

|   |     |
|---|-----|
| Determining Your Corporate Domain .....   | 3-2 |
| Locating a Corporate Domain License ..... | 3-2 |
| Activating a Corporate License .....      | 3-3 |
| Distributing a License File .....         | 3-3 |

## TROUBLESHOOTING

|   |     |
|---|-----|
| Frequently Asked Questions (FAQs) ..... | A-1 |
| Installation Error Messages .....       | A-4 |
| Installation Warning Messages .....     | A-8 |

**LICENSING SUPPORT**

E-Mail Support ..... B-1  
Telephone Support ..... B-2  
Information Required by Support ..... B-2

# Contents

# PREFACE

Thank you for purchasing CrossCore<sup>®</sup> Embedded Studio (CCES) for Analog Devices, Inc. processors.

## Purpose

The *CrossCore Software Licensing Guide* describes how to manage licenses for CCES software.

## Intended Audience

The primary audience for this guide is anyone who is working with CCES, a licensed product from Analog Devices. It describes the product licensing options, installation, and activation. The guide also includes the troubleshooting and FAQ sections for licensing issues.

## Manual Contents

The manual consists of:

- Chapter 1, [“Licensing Overview” on page 1-1](#)  
Describes the available CCES licenses and introduces licensing options.
- Chapter 2, [“Activating a License” on page 2-1](#)  
Details how to install and activate a CCES license.

## What's New in this Manual

- Chapter 3, “[Administering a Corporate Domain License](#)” on [page 3-1](#)  
Describes how to install and administrate a corporate CCES domain license.
- Appendix A, “[Troubleshooting](#)” on [page A-1](#)  
Explains commonly encountered error messages and provides answers to frequently asked questions.
- Appendix B, “[Licensing Support](#)” on [page B-1](#)  
Describes how to contact Analog Devices regarding licensing issues.

## What's New in this Manual

This is the third revision of the *CrossCore Software Licensing Guide*. In this revision, some procedures have been modified to match the CCES online help style.

## Technical Support

You can reach Analog Devices processors and DSP technical support in the following ways:

- Post your questions in the processors and DSP support community at EngineerZone<sup>®</sup>:  
<http://ez.analog.com/community/dsp>
- Submit your questions to technical support directly at:  
<http://www.analog.com/support>
- E-mail your questions about processors, DSPs, and tools development software from **CrossCore Embedded Studio** or **VisualDSP++<sup>®</sup>**:

Choose **Help > Email Support**. This creates an e-mail to [processor.tools.support@analog.com](mailto:processor.tools.support@analog.com) and automatically attaches your **CrossCore Embedded Studio** or **VisualDSP++** version information and `license.dat` file.

- E-mail your questions about processors and processor applications to:  
[processor.support@analog.com](mailto:processor.support@analog.com) or  
[processor.china@analog.com](mailto:processor.china@analog.com) (Greater China support)
- In the **USA only**, call **1-800-ANALOGD** (1-800-262-5643)
- Contact your Analog Devices sales office or authorized distributor. Locate one at:  
[www.analog.com/adi-sales](http://www.analog.com/adi-sales)
- Send questions by mail to:  
Processors and DSP Technical Support  
Analog Devices, Inc.  
Three Technology Way  
P.O. Box 9106  
Norwood, MA 02062-9106  
USA

## Product Information

Product information can be obtained from the Analog Devices Web site and CrossCore Embedded Studio online help system.

## Analog Devices Web Site

The Analog Devices Web site, [www.analog.com](http://www.analog.com), provides information about a broad range of products—**analog** integrated circuits, amplifiers, converters, and digital signal processors.

## Product Information

To access a complete technical library for each processor family, go to [http://www.analog.com/processors/technical\\_library](http://www.analog.com/processors/technical_library). The manuals selection opens a list of current manuals related to the product as well as a link to the previous revisions of the manuals. When locating your manual title, note a possible errata check mark next to the title that leads to the current correction report against the manual.

Also note, [MyAnalog.com](http://MyAnalog.com) is a free feature of the Analog Devices Web site that allows customization of a Web page to display only the latest information about products you are interested in. You can choose to receive weekly e-mail notifications containing updates to the Web pages that meet your interests, including documentation errata against all manuals. [MyAnalog.com](http://MyAnalog.com) provides access to books, application notes, data sheets, code examples, and more.

Visit [MyAnalog.com](http://MyAnalog.com) to sign up. If you are a registered user, just log on. Your user name is your e-mail address.

## EngineerZone

EngineerZone is a technical support forum from Analog Devices. It allows you direct access to ADI technical support engineers. You can search FAQs and technical information to get quick answers to your embedded processing and DSP design questions.

Use EngineerZone to connect with other DSP developers who face similar design challenges. You can also use this open forum to share knowledge and collaborate with the ADI support team and your peers. Visit <http://ez.analog.com> to sign up.

## Notation Conventions

Text conventions used in this manual are identified and described as follows.

| Example   | Description  |
|---|--|
| <b>File &gt; Close</b>  | Titles in bold style reference sections indicate the location of an item within the CrossCore Embedded Studio environment's menu system (for example, the <b>Close</b> command appears on the <b>File</b> menu).   |
| {this   that}   | Alternative required items in syntax descriptions appear within curly brackets and separated by vertical bars; read the example as <i>this</i> or <i>that</i> . One or the other is required.  |
| [this   that]   | Optional items in syntax descriptions appear within brackets and separated by vertical bars; read the example as an optional <i>this</i> or <i>that</i> .  |
| [this,...]  | Optional item lists in syntax descriptions appear within brackets delimited by commas and terminated with an ellipsis; read the example as an optional comma-separated list of <i>this</i> .   |
| .SECTION  | Commands, directives, keywords, and feature names are in text with letter gothic font.   |
| <i>filename</i>   | Non-keyword placeholders appear in text with italic style format.  |
|  | <b>Note:</b> For correct operation, ...<br>A Note provides supplementary information on a related topic. In the online version of this book, the word <b>Note</b> appears instead of this symbol.  |
|  | <b>Caution:</b> Incorrect device operation may result if ...<br><b>Caution:</b> Device damage may result if ...<br>A Caution identifies conditions or inappropriate usage of the product that could lead to undesirable results or product damage. In the online version of this book, the word <b>Caution</b> appears instead of this symbol. |
|  | <b>Warning:</b> Injury to device users may result if ...<br>A Warning identifies conditions or inappropriate usage of the product that could lead to conditions that are potentially hazardous for device users. In the online version of this book, the word <b>Warning</b> appears instead of this symbol.                                   |

# Notation Conventions

# 1 LICENSING OVERVIEW

This chapter describes the licensing options available for CrossCore Embedded Studio (CCES) 1.0 users.

The following topics are covered:

- [Supported Operating Systems](#)
- [System Requirements](#)
- [Note to VisualDSP++ Users](#)
- [Licensing Terminology](#)
- [License Types](#)
- [License Expiration and Subscription](#)
- [Licensing Options Summary](#)
- [Obtaining a License Serial Number](#)
- [Locating License Serial Numbers](#)
- [Getting a PC Ready for License Activation](#)

If you have any questions related to CCES licenses or licensing, contact [Technical Support](#).

# Supported Operating Systems

CCES 1.0.2 is supported on the following operating systems:

- Windows<sup>®</sup> 8 Pro and Enterprise
  - Windows XP Professional SP3 (32-bit only)
  - Windows Vista<sup>™</sup> Business, Enterprise, or Ultimate SP2 (32-bit only)
  - Windows 7 Professional, Enterprise, or Ultimate (32- and 64-bit)
-  Windows Vista, Windows 7, and Windows 8 users may experience User Access Control (UAC) related errors if the software is installed into a protected location, such as Program Files or Program Files (x86). We recommend installing the software in a non-UAC-protected location.

## System Requirements

Verify that your PC has these minimum requirements for the CCES 1.0.x installation:

- 2 GHz single core processor
  - 1 GB RAM
  - 2 GB available disk space
  - One open USB port
-  A faster disk drive decreases the build time, especially for a large amount of source files.

# Note to VisualDSP++ Users

CrossCore Embedded Studio is a new Analog Devices product: the graphical user environment and full development tool chain for digital signal processor applications. Although some aspects of CCES licensing will be familiar to VisualDSP++ users, the VisualDSP++ licenses themselves cannot be used with CCES.

## Licensing Terminology

### License Installation

License installation is the process of entering valid license information into CCES. A license that has been entered into CCES but not activated immediately is said to be “installed”.

### License Registration

License registration is the process during which a user informs Analog Devices that a license has been installed. License registration results in a validation code.

### License Activation

License activation is the process of unlocking the functionality of a CCES product by registering your serial number with Analog Devices. Activation includes license installation, registration, and validation, all in one step.

### License Validation

License validation is the process of entering an Analog Devices validation code into CCES. License validation completes the activation of an installed license.

# License Types

### Toolchain Evaluation Licenses

A toolchain evaluation license provides 90 days of use on activation after which it expires and becomes permanently disabled.

If installed but not activated, this license allows 10 days of operation (grace or trial period) before it expires and becomes disabled. The license can be re-enabled by activation.

A toolchain evaluation license can be activated once on a particular machine.

### Add-in Evaluation Licenses

Certain add-ins, such as Micrium  $\mu$ C/OS-III™ Real-Time Kernel for CrossCore Embedded Studio, also have an evaluation license. Once activated, this license lets you install the add-in. You can install versions of the add-in with release dates up to 90 days after activation (see [License Expiration and Subscription](#)).

An add-in evaluation license can be activated once on a particular machine.

### Full Licenses

A full license does not expire once it has been activated.

Activation starts the license subscription, determining which product versions are enabled, based on release date (see [License Expiration and Subscription](#)). Subsequent full licenses, called *maintenance licenses*, can be purchased at a reduced cost to renew the subscription term for an additional year.

If installed but not activated, a full toolchain license allows 10 days of operation before it expires and becomes disabled. The license can be re-enabled by activation.

A full toolchain license can be activated a limited number of times, which allows the user to move the installation to a different machine.

A full license for an add-in (a CCES software component) must be activated to allow the add-in to install. There is no grace period with this type of license.

## License Expiration and Subscription

License expiration and subscription are related but distinct terms. License expiration refers to overall viability of the license. For example, a toolchain evaluation license provides 90 days of use after activation, then expires. A full license, on the other hand, does not expire after activation. See [License Types](#) for more information.

License subscription determines what product versions you can use with a license. The subscription starts when the license is activated and ends at the end of the subscription interval. Products released before the subscription ends can be used with the license. Products released after a subscription ends cannot be used with the license.

A subscription example: A full license with a one year subscription interval is activated on June 1, 2013. This license can be used with products that have release dates up to and including June 1, 2014. To use products with release dates beyond this date, the user needs to activate a new license. Note that you continue to use products that were released before the subscription ends even after the subscription itself has expired; the subscription determines whether or not newer versions of the product may be used.

## License Locking Options

To renew a subscription, a maintenance license must be purchased and activated. Contact your Analog Devices sales office or authorized distributor. Locate one at:

[www.analog.com/adi-sales](http://www.analog.com/adi-sales).

## License Locking Options

### Node-Locked Licenses

Occasionally referred to as a *single-user license* or a *per user license*, a node-locked license is locked to the machine host ID of a specific host computer and provides a single license “seat”. Once installed, the product will run on that one computer only.

The machine host ID typically refers to the Media Access Control (MAC) address of the network card or motherboard. CCES uses MAC addresses as host IDs and supports the use of multiple MAC addresses in its licensing scheme.

### Corporate Domain Licenses

Corporate domain licenses lock to a network domain name, such as [\\*.subdomain.yourcompany.com](http://*.subdomain.yourcompany.com).

A license locks to one specific type of host ID. The license locking option cannot be changed.

## Licensing Options Summary

Licensing controls the operation and installation of the CCES 1.0 features and components. The licensing options are summarized in [Table 1-1](#) and [Table 1-2](#).

Table 1-1. Licensing Options for CCES Tool Chain

| Type Prefix      | Evaluation - EVAL         | Full - ADI   |
|------------------|---------------------------|--|
| Applies to       | Full tool chain operation | Full tool chain operation.<br>(For add-ins, see <a href="#">Table 1-2</a> .) |
| Expiration       | 90 days                   | Permanent  |
| Processor family | Blackfin and SHARC        | Blackfin and SHARC   |
| Locking options  | Node-locked               | Node-locked or corporate domain  |
| Subscription     | None                      | 1 year   |

Table 1-2. Licensing Options for CCES Add-ins

| Type Prefix      | Evaluation - EVAL             | Full - ADI   |
|------------------|-------------------------------|--|
| Applies to       | µC/OS-III add-in installation | Add-ins installation.<br>(For tool chain operation, see <a href="#">Table 1-1</a> .) |
| Expiration       | Permanent                     | Permanent  |
| Processor family | Blackfin and SHARC            | Blackfin and SHARC   |
| Locking options  | Node-locked                   | Node-locked  |
| Subscription     | 90 days                       | 1 year   |

For example, an evaluation license for the CCES development tool chain  
EVAL-CCES-XXXX-XXXX-XXXX-XXXX-XXXX-XXXX-XXXX:

- Has a serial number prefix of EVAL
- Allows use of the full development tool chain
- Expires 90 days after activation

## Licensing Options Summary

- Allows use of Blackfin and SHARC processors
- Is node-locked to the MAC address (physical address of the network card) of a specific computer
- Does not have a subscription interval

A full license for the CCES development tool chain,

ADI-CCES-XXXX-XXXX-XXXX-XXXX-XXXX-XXXX-XXXX:

- Has a serial number prefix of ADI
- Is permanent once activated
- Allows use of Blackfin and SHARC processors
- Is node-locked to the MAC address of a specific computer or a corporate network domain name
- Has a one-year subscription interval

A full license for an add-in, such as Micrium  $\mu$ C/OS-III

ADI-[UCOS3]-XXXX-XXXX-XXXX-XXXX-XXXX-XXXX-XXXX:

- Has a serial number prefix of ADI
- Is permanent once activated
- Allows use of Blackfin and SHARC processors
- Is node-locked to the MAC address of a specific computer
- Has a one-year subscription interval

## Obtaining a License Serial Number

This section covers the following topics:

- [Obtaining a Full License Serial Number](#)
- [Obtaining an Evaluation License Serial Number](#)



An evaluation license can be upgraded to a full license.

### Obtaining a Full License Serial Number

A full license can be purchased from:

- Analog Devices, Inc. directly. Call (800) 262-5645 or 781-937-2384 or go to the buy online facility at [http://www.analog.com/en/content/buy\\_online/fca.html](http://www.analog.com/en/content/buy_online/fca.html)
- Depending on your location, Analog Devices, Inc. local sales office or authorized distributor. To locate one, go to <http://www.analog.com/salesdir/continent.asp>

A purchased copy of CCES is accompanied by the ADI serial number.

### Obtaining an Evaluation License Serial Number

An evaluation license can be obtained from CrossCore Embedded Studio, which offers a tool chain evaluation license the first time it runs. CCES also offers an evaluation license for Micrium  $\mu$ C/OS-III the first time you install  $\mu$ C/OS-III.

An evaluation copy of CCES is accompanied by the EVAL serial number.

# Locating License Serial Numbers

It is assumed that CCES software is installed, licensed, and running on your computer.

To locate a CCES license serial number:

1. Choose **Help > Manage Licenses**.

The **Manage Licenses** dialog box appears. The dialog box is used to look up information pertaining to CCES licenses installed on a computer and to perform various licensing tasks.

2. To copy a serial number of the license to the system clipboard:
  - a. Select the serial number.
  - b. Choose **Copy serial number** from the context menu.
3. To copy the entire license report to the system clipboard:
  - a. Click **Report**. The **License Report** dialog box appears.
  - b. Click **Copy**.

**Tip:** Choosing **Help > Email Support** automatically creates an e-mail message to [processor.tools.support@analog.com](mailto:processor.tools.support@analog.com), generates, and attaches the product information report to the message.

## Getting a PC Ready for License Activation

License activation requires TCP/IP network (Internet) access. Ensure that your PC is connected to the Internet, and that firewall settings allow interaction with Analog Devices' licensing server.

If your license is node-locked, ensure your computer has a valid MAC address. On computers with Windows OS, you can view all current TCP/IP network configuration values by running the following command at the command prompt:

```
ipconfig/all
```



Docking or undocking a laptop may affect the MAC addresses availability.

# Getting a PC Ready for License Activation

## 2 ACTIVATING A LICENSE

The chapter describes the processes of installing a license string (serial number) into the CCES Integrated Development Environment (IDE) via the **New License Wizard** as well as activating the license, as defined in [Licensing Terminology](#).

Refer to the CCES online help for reference information about the IDE components related to software installation and licensing.

The following topics are covered:

- [Starting the New License Wizard](#)
- [Selecting a License Type](#)
- [Entering a License Serial Number](#)
- [License Activation Methods](#)
  - [Activating a License in One Step](#)
  - [Delayed License Activation](#)
- [Validating a License](#)

# Starting the New License Wizard

It is assumed that CCES software is installed.

If CCES is run the first time or a new licensed add-in product is installed, to start the **New License Wizard**:

1. Navigate to **CrossCore Embedded Studio Environment** via Windows **Start** menu. A warning message appears.
2. Click **Yes**.

If CCES is run the second time and thereafter, to start the **New License Wizard**:

- Choose **Help > Manage Licenses > New**.

The **New License Wizard** appears. See [Figure 2-1](#).

## Selecting a License Type

Select your CCES license type (described in [License Types](#)) on the Select License Type page of the New License Wizard ([Figure 2-1](#)).

To select your license type:

1. It is assumed that the **New License Wizard** is launched (see [Starting the New License Wizard](#)).

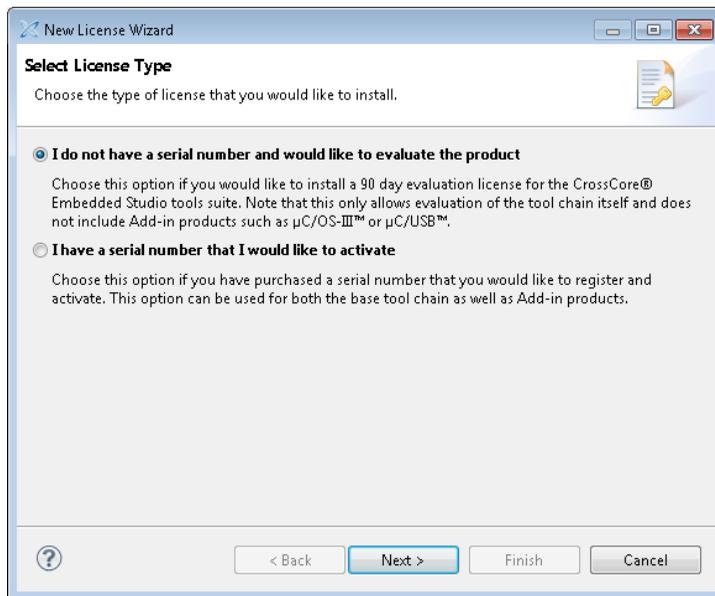


Figure 2-1. New License Wizard: Select License Type Page

## Selecting a License Type

2. Depending on whether you want to evaluate or activate your permanent/full license for the CCES product, do one of the following.

- If you would like to evaluate the CCES product (do not have a serial number for a full license):

**I do not have a serial number and would like to evaluate the product** is selected by default. Click **Next**.

The **Select license activation method** page appears. See [License Activation Methods](#) for more information.

**Note:** You have bypassed the license installation step, while evaluating CCES software, for 90 days.

- If you have a serial number for a full license for the CCES product that you would like to activate:

1. Select **I have a serial number that I would like to activate**.

2. Click **Next**.

The **Enter your serial number** page of the **New License Wizard** appears. See [Figure 2-2](#).

## Entering a License Serial Number

Enter your CCES license string on the **Enter your serial number** page of the New License Wizard ([Figure 2-2](#)).

To enter a license serial number:

1. It is assumed that the **Enter your serial number** page of the New License Wizard is open (see [Selecting a License Type](#) for how to).

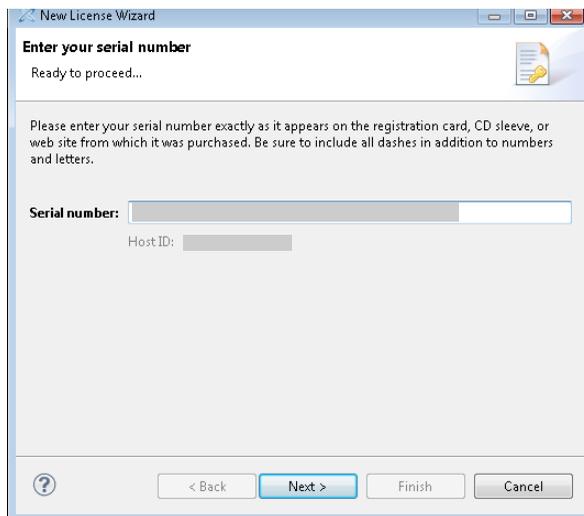


Figure 2-2. New License Wizard: Enter your serial number Page

2. In **Serial number**, enter the number exactly as it appears, including dashes.  
Entering a valid serial number displays your computer's host ID and enables the **Next** button.
3. Click **Next**.  
The **Select license activation method** appears. See [License Activation Methods](#) for more information.

You successfully entered the license serial number.

# License Activation Methods

The following sections describe the process of license activation, as defined in [Licensing Terminology](#).

A license can be activated immediately or after a trial period. The license activation can be performed:

- In one step if your PC is part of the TCP/IP network (Internet). This is the most convenient license activation method, described in [Activating a License in One Step](#).
- In three steps if your PC is not part of the TCP/IP network. The second method also is referred to as *delayed activation* and described in [Delayed License Activation](#).

In step 1, you install the license. For toolchain licenses, this provides access to the entire CCES tool chain until the specified license expiration date.

In step 2, you register the license. This results in the validation code sent back to you via e-mail.

In step 3, you validate the license (enter the validation code sent to you). This unlocks the trial period, making the license permanent.



Corporate domain licenses and node-locked licenses are installed in the same manner, but a license file containing a corporate license can be distributed to multiple computers on the corporate domain. For more information about administering corporate domain licenses, refer to [Administering a Corporate Domain License](#).

## Activating a License in One Step

If your computer has an Internet connection, to activate a license in one step is the most convenient method.

It is assumed that your PC is ready (see [Getting a PC Ready for License Activation](#)), and the license serial number is entered in the New License Wizard (see [Entering a License Serial Number](#)) for the one-step activation.

To activate the license in one step:

1. It is assumed that the **Select license activation method** page of the **New License Wizard** is open (see [Entering a License Serial Number](#) for how to).
2. **Install and activate a license on-line all in one step** is selected by default. See [Figure 2-3](#).

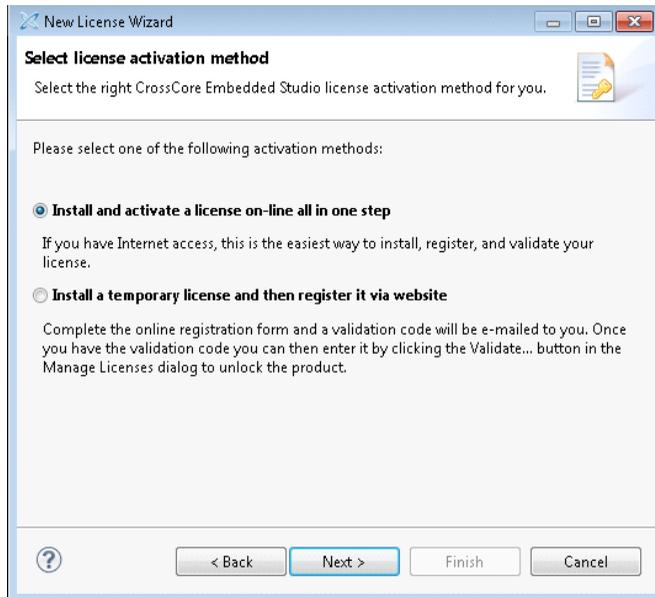


Figure 2-3. Activating a License in One Step

## License Activation Methods

- a. If your computer has an Internet connection, click **Next**. The **Prepare for one-step license activation** page appears.
  - b. If your computer does not have an Internet connection, or such a connection is isolated, select **Install a temporary license and then register it via website** and go to [Delayed License Activation](#).
3. On the **Prepare for one-step license activation** page:
    - a. Fill in the form. The required fields are marked by an \* (asterisk).
    - b. Click **Next**. The **Prepare for one-step license activation (continued)** page appears.
  4. On the **Prepare for one-step license activation (continued)** page, complete the form.
  5. Click **Finish**.

The **Your license has been successfully activated** message ([Figure 2-4](#)) concludes the one-step license activation.

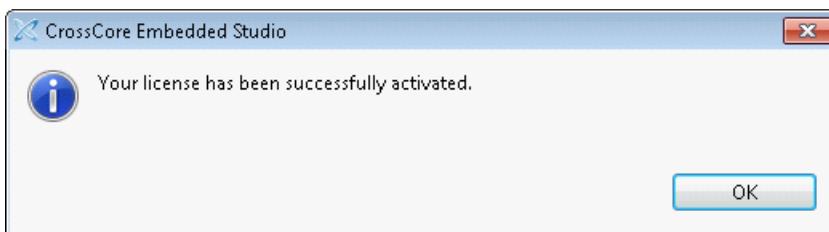


Figure 2-4. Your license has been successfully activated Message

6. Click **OK** to return to the IDE.

You successfully registered and activated your copy of the CCES 1.0 software.

If you received an error message during this procedure, refer to [Troubleshooting](#).

### Delayed License Activation

If you cannot activate your CCES license immediately, the delayed activation enables a customer to use the CCES tool chain for a specified trial period; the license activation date is delayed.

 You also can install add-in licenses through delayed activation. When these licenses are activated, they permit add-in installation.

Your PC must be ready (see [Getting a PC Ready for License Activation](#)), and the license serial number must be entered in the New License Wizard (see [Entering a License Serial Number](#)) for delayed license activation.

1. It is assumed that the **Select license activation method** page of the **New License Wizard** is open (see [Entering a License Serial Number](#) for how to).
2. If your computer does not have access to the Internet or Analog Devices' licensing server, select **Install a temporary license and then register it via website**.

If your computer has access to the Internet and Analog Devices'

## License Activation Methods

licensing server, install and activate a license in one step. Keep the default selection, **Install and activate a license on-line all in one step**, and refer to [Activating a License in One Step](#). See [Figure 2-5](#).

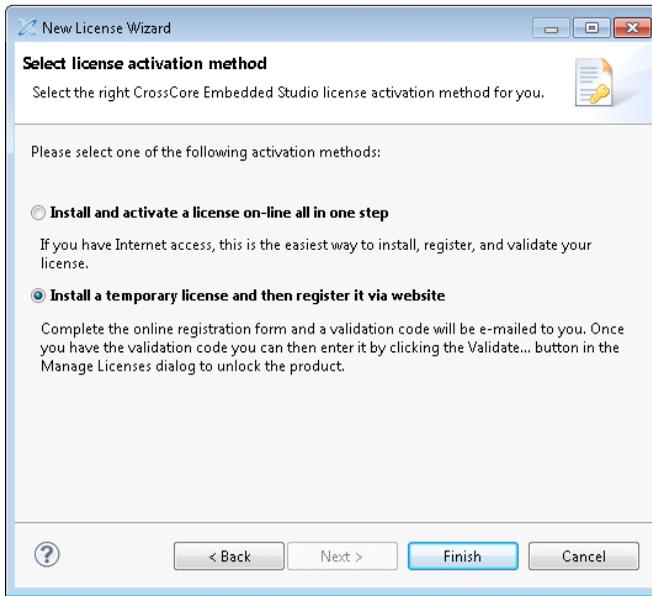


Figure 2-5. Delayed License Activation

3. Click **Finish**. The **License Registration Instructions** Web page appears. See [Figure 2-6](#).

The **License Registration Instructions** page indicates that your license is installed but not registered. At this point, a CCES tool-chain license provides 10 days of unrestricted toolchain use.

The page describes how to register your license, obtain a validation code, and complete activation of your license, with or without Internet access.

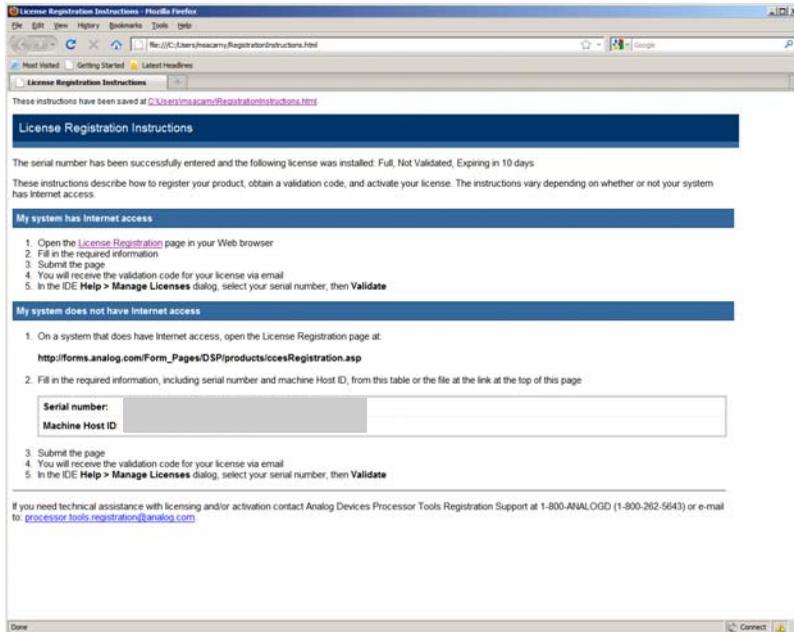


Figure 2-6. License Registration Instruction Page



Licenses for CCES add-ins install but are not valid until registered and activated.

4. Complete the registration process as instructed and submit the form. Analog Devices processes your information and sends a validation code in email.

# Validating a License

Once you receive a validation code for your CCES product from Analog Devices via email, you can complete the delayed license activation process.

To permanently validate a license on a computer that is connected to the Internet:

1. It is assumed that the CrossCore Embedded Studio is installed and open.
2. Choose **Help > Manage Licenses**.  
The **Manage Licenses** dialog box appears.
3. Select the serial number of the license that you want to validate.  
The **Validate** command becomes enabled.
4. Click **Validate**.  
The **Enter Validation Code** dialog box appears. See [Figure 2-6](#).

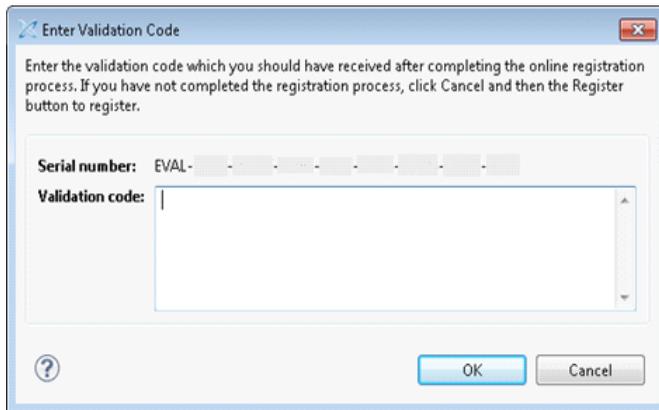


Figure 2-7. Enter Validation Code Dialog Box

5. In **Validation code**, enter the validation code sent to you.

**Tip:** Prevent typos by copying and pasting the license string.

6. Click **OK**.

The successfully entered validation code results in a message indicating that a permanent license has been created.

7. Click **OK**.

The license serial number is added to the **Manage Licenses** dialog box. Note that the status icon next to the license serial number has changed.

Refer to the CCES online help for reference information about the IDE components related to software installation and licensing.

## Validating a License

# 3 ADMINISTERING A CORPORATE DOMAIN LICENSE

This chapter describes how to create and install license files based on a corporate domain address.

Rather than locking to individual MAC (Ethernet) addresses, a corporate domain license locks to a network domain, such as `*.subdomain.yourcompany.com`. A license file containing a corporate domain license can be copied to multiple computers on the domain, potentially reducing overall administrative overhead.

The following topics are covered:

- [Determining Your Corporate Domain](#)
- [Locating a Corporate Domain License](#)
- [Activating a Corporate License](#)
- [Distributing a License File](#)

# Determining Your Corporate Domain

On computers with Windows operating system, view all current TCP/IP network configuration values by running the following command at the command prompt:

```
ipconfig/all
```

The corporate domain is the value of the primary Domain Name System (DNS) suffix. The corporate domain license will be locked to this value, so all computers that use this license must have the same corporate domain value.

 If the primary DNS suffix is blank, the computer is not on a domain, and a corporate domain license cannot be used.

## Locating a Corporate Domain License

The CCES installer creates a folder on each computer that holds license files. If you already installed a license and want to locate the license folder, follow the procedure in [Locating License Serial Numbers](#). The complete path to the license file is at the beginning of the report.

On computers with Windows operating systems, the license folder usually resolves as:

- **Windows XP:** <system drive>:\Documents and Settings\All Users\Application Data\Analog Devices\CrossCore Embedded Studio
- **Windows Vista, Windows 7, or Windows 8:** <system drive>:\ProgramData\Analog Devices\CrossCore Embedded Studio

 On some computers, the license folder may be a hidden system folder.

# Activating a Corporate License

The process of activating a corporate domain license is similar to the process of activating a node-locked license.

Follow the instructions in [Activating a License in One Step](#) or [Delayed License Activation](#) to activate your corporate license.

 Validation codes for corporate domain licenses are sent via email regardless of the activation method.

## Distributing a License File

To distribute a corporate domain license for the CrossCore Embedded Studio software:

1. It is assumed that CrossCore Embedded Studio software is installed on the target computers.
2. Obtain the corporate domain license file.

**Tip:** Copy the `license.dat` from a computer on which it is already installed to every computer that is to be covered by the corporate domain license.

**Tip:** The **License Report** dialog box provides the location of the folder that contains the license file.

3. On each computer in the network, do the following:
  - a. (Optional) Back up and delete, or rename, the existing license file.
  - b. Copy the corporate domain license file into the license folder created by the CrossCore Embedded Studio installer.

CrossCore Embedded Studio should now run on the target computers.

# Distributing a License File

# A TROUBLESHOOTING

This chapter provides answers to common licensing problems and includes the following sections:

- [Frequently Asked Questions \(FAQs\)](#)
- [Installation Warning Messages](#)
- [Frequently Asked Questions \(FAQs\)](#)

If you still have questions related to CCES licenses or licensing after reading this chapter, contact [Technical Support](#) or [Licensing Support](#).

## Frequently Asked Questions (FAQs)

**Question:** *I have lost my serial number. Where can I find it, or how do I get a replacement?*

**Answer:** You can locate already installed serial numbers in the CCES IDE: **Help > Manage Licenses**. Refer to [“Locating License Serial Numbers” on page 1-10](#) for more information.

If you do not have CCES installed and licensed, e-mail Analog Devices with details of the person and company to whom the serial number was originally registered. For more information, refer to [Technical Support](#) or [Licensing Support](#).

## Frequently Asked Questions (FAQs)

**Question:** *I've just installed a toolchain evaluation license using the "Install a temporary license and then register it via website" option of the New License Wizard. Now I get a message telling me that the license will expire in X days. I thought licenses were permanent?*

**Answer:** When evaluation licenses are installed this way, they have an initial grace period. An evaluation license runs for 90 days after activation. In order to unlock the complete evaluation period, an evaluation license must be validated.

Full toolchain licenses installed via the Install a temporary license and then register it via website option of the New License Wizard also have an initial grace period but become permanent when validated. Refer to ["License Activation Methods"](#) on page 2-6 for more details.

**Question:** *I've just installed a full license for a CCES add-in using the Install a temporary license and then register it via website activation option of the New License Wizard. Now the status of the license shows as 'Expired'. Doesn't this license have a grace period?*

**Answer:** This type of license has no grace period: it must be validated to enable installation of its component. Refer to ["License Types"](#) on page 1-4 for more details.

**Question:** *What is the difference between license 'expiration' and license 'subscription expiration'?*

**Answer:** When a license is expired, it does not allow its products to be used at all. License subscription applies to licenses that are not expired and allows product use based on a product release date. See ["Licensing Terminology"](#) on page 1-3 for more information.

**Question:** *How do I transfer my license to a new machine?*

**Answer:** Use the **New License Wizard** to activate your license on the new machine. If activation fails with a message “The license has already been registered the maximum number of allowed times”, request a registration history update via e-mail to [processor.tools.registration@analog.com](mailto:processor.tools.registration@analog.com). Include the serial number(s) in question.

**Question:** *How can I find out my registration history? That is, how do I find out which machines my serial number(s) are registered against?*

**Answer:** To request an up-to-date registration history, send an e-mail with the serial number(s) in question to [processor.tools.registration@analog.com](mailto:processor.tools.registration@analog.com).

**Question:** *I've just installed a license using the Install a temporary license and then register it via website activation option of the New License Wizard. The validation code that was e-mailed to me is being rejected. What could be the problem?*

**Answer:** Validation codes are valid for a particular serial number and host ID combination. If you are trying to activate your serial number on a second computer, you will have to register it on the new computer in order to receive the appropriate validation code.

For more information, refer to “[License Activation Methods](#)” on page 2-6.

**Question:** *Where is the license.dat file on my computer?*

**Answer:** There is only one `license.dat` file for all CCES installs on a computer, and it is located in the license folder. The full path to the

## Installation Error Messages

license file is given in the report generated by **Help > Manage Licenses > Report** or by **Help > Email Support**.

**Note:** The license folder may be a hidden system folder on some computers.

**Question:** *How do I install both a node-locked license and a corporate domain license on the same machine?*

**Answer:** Licenses of all types can coexist on the same machine. Use the **New License Wizard** to activate both licenses.

If you intend to install the corporate domain license on many machines, refer to [“Determining Your Corporate Domain”](#) on page 3-2.

## Installation Error Messages

This section describes some common error messages issued during license installation and validation.

**Problem:** *A valid license could not be found.*  
*Click Yes to install a license at this time.*  
*Click No to close CCES.*

**Solution:** This message appears the first time CCES starts up or thereafter if there are no current licenses installed. Selecting **Yes** starts the **New License Wizard**.

**Problem:** *A valid license could not be found.*  
*Click Yes to manage your license(s) now.*  
*Click No to close CCES.*

**Solution:** This message appears if licenses have expired. Selecting **Yes** opens the **Manage Licenses** dialog box.

**Problem:** *There was a problem installing the license for this serial number.*  
**Reason:** *Invalid license file. The license file may be obsolete, corrupted, missing, or read-only.*

**Solution:** This indicates a problem with the `license.dat` file. For example, the license file is a VisualDSP++ license file that is incompatible with CCES. Check the contents of `license.dat` located in:

- **Windows XP.** `<system drive>/Documents and Settings/All Users/Application Data/Analog Devices/CrossCore Embedded Studio`
- **Windows Vista, Windows 7, or Windows 8.** `<system drive>/ProgramData/Analog Devices/CrossCore Embedded Studio`

Also ensure that the file is not read-only. If the problem persists, contact [Technical Support](#).

**Problem:** *There was a problem installing the license for this serial number.*  
**Reason:** *A valid Host ID could not be found.*

**Solution:** Host ID information for your system can be found through the **Manage Licenses** dialog box in the CCES IDE via **Help > Manage Licenses > Report or Help > Email Support**.

Licenses locked to an Ethernet (MAC) address require a physical TCP/IP network address to be available on the computer. This error can occur if there is no network card installed.

## Installation Error Messages

Licenses locked to a disk serial number require a valid volume serial number. This error can occur if there is no C: drive installed, for example.

Corporate domain licenses require that the computer be on a domain. Refer to “[Determining Your Corporate Domain](#)” on page 3-2 for more information.

**Problem:** *There was a problem installing a license for this serial number. Reason: The serial number has already been used and can be installed only once.*

**Solution:** The serial number you are trying to install has been installed already on this computer. For further information, refer to “[Licensing Terminology](#)” on page 1-3.

**Problem:** *There was a problem activating the license. Reason: There was an error during activation. This may be due to the following:*

- *network outage*
- *firewall blocking access to the ADI activation server*
- *maintenance of the ADI activation server*

**Solution:** This can occur during one-step activation. First, open a web browser and confirm that you can open the URL <http://www.analog.com> without any network or firewall problems. Then try activating the license again in the **New Licenser Wizard**. If you were on the last page of one-step licensing activation when you closed the error dialog box, just click **Finish** again to complete activation.

If you still are unable to activate the license through one-step activation, on the **Select license activation method** page of the **New License Wizard**, select the **Install a temporary license and then register it via website**

option. Follow the **License Registration Instructions** to register and validate your license.

**Problem:** *There was a problem registering the license. Reason: The license has already been registered the maximum number of allowed times. Details: Registration limit exceeded.*

**Solution:** Full and evaluation licenses can be activated a limited number of times. Contact [Technical Support](#) with your current serial number, and we will help to activate your current license or issue a replacement license, depending on the circumstances.

**Problem:** *The license was successfully installed, but there was a problem completing on-line validation. You can register and validate your license manually by selecting Help, Manage Licenses.*

**Solution:** The **Manage Licenses** dialog box lists the installed licenses. See [“License Activation Methods” on page 2-6](#) for more information.

**Problem:** *The license file was successfully installed, but there was a problem opening the registration website.*

**Solution:** This can occur due to a browser problem, for example. The **Manage Licenses** dialog box lists the installed licenses. See [“License Activation Methods” on page 2-6](#) for more information.

**Problem:** *There was a problem validating the license. Reason: The validation code is invalid. Please re-enter the code, ensuring that you type the code EXACTLY as you received it. It might be helpful to copy-and-paste your validation code rather than typing it manually.*

## Installation Warning Messages

**Solution:** CCES detected that you entered an invalid validation code. Ensure that you have entered the correct validation code, exactly as given.

Validation codes are valid for a particular combination of serial number and host ID. If you are trying to install your serial number on a different computer than the one you initially registered, you need a new validation code. Refer to [“License Types” on page 1-4](#) for details.

## Installation Warning Messages

This section describes common warning messages issued during license installation and validation. These messages display in message boxes, dialog boxes, the Console view, and command prompt.

**Warning** (in message boxes): *<serial number> expires in x days*

-- or -- *<serial number> expires today.*

**Solution:** If the given license has not yet been validated, it is in its grace period and will expire in x days (or today.) Refer to [“Validating a License” on page 2-12](#) for details.

An evaluation license that has been activated also displays this message as it reaches the end of its life.

**Warning** (in dialog boxes): *The Subscription Expiration dialog box appears at startup if any license subscriptions are due to expire soon.*

**Solution:** To prevent the re-display of messages for these licenses, select **Do not show this message for these licenses again** and click **OK**.

**Warning** (in the **Console** view or command prompt):

*[Informational ea1154]*

*License to use this tool will expire in x days*

**Solution:** The assembler has detected that your license will expire in x days. If you have an evaluation license or a full license, register and validate it.

## Installation Warning Messages

# B LICENSING SUPPORT

If you still are experiencing a problem after having tried to solve it using the information in this guide, contact Analog Devices Customer Support.

The chapter contains the following sections:

- [E-Mail Support](#)
- [Telephone Support](#)
- [Information Required by Support](#)

## E-Mail Support

You can obtain support via e-mail as follows:

### **Registration Support:**

Contact Registration Support if you have any problems with registering or validating your license serial number, or if you have lost your license serial number. Use the following e-mail address:

[processor.tools.registration@analog.com](mailto:processor.tools.registration@analog.com).

### **Processor Tools Support:**

For all other queries regarding CCES licensing, contact Processor Tools Support. Use the following e-mail address:

[processor.tools.support@analog.com](mailto:processor.tools.support@analog.com).

## Telephone Support

**Tip:** Choosing **Help > Email Support** automatically creates an e-mail message to the above address, generates, and attaches the product information report to the message.

## Telephone Support

In the USA only, licensing inquiries can be made to the following toll-free phone number: 1-800-ANALOGD (1-800-262-5643).

## Information Required by Support

Before contacting Customer Support regarding a licensing issue, document the problem.

Prepare to communicate the following information:

- Software version provided by the **Help > About CrossCore Embedded Studio** dialog box
- License serial number(s) in question
- Contents of `license.dat` (if available)
- Screen captures of encountered error messages

**Tip:** Choosing **Help > Email Support** automatically creates an e-mail message to [processor.tools.support@analog.com](mailto:processor.tools.support@analog.com), generates, and attaches the product information report to the message.