



Introduction

This application uses *LicenseControl*, the product-activation capability that leaves you in control of your software, your system and your privacy.

What Does *LicenseControl* Do?

LicenseControl allows you to change the operational mode of your software:

- from Trial mode, you can activate a license to access the full-featured, Licensed mode of operation
- from Licensed mode, you can de-activate a license to re-enter the limited, Trial mode of operation when you want make a license available for use elsewhere; e.g., when moving a licensed application to a different system

When you license an application, that license applies only to that application and only on that licensed system.

When you use *LicenseControl* to perform a licensing operation, it communicates with a licensing server to help it do its work, including making some things more convenient for you. For example, once you've activated a license for a given application on a given system you can license any license-compatible application (e.g., free updates) without having to supply the License ID, again. Just running a licensed application does not communicate with the licensing server—only licensing operations, directed by you via *LicenseControl*, will cause *LicenseControl* to communicate with the licensing server.

To communicate with the licensing server, *LicenseControl* uses the standard protocols (HTTP and HTTPS) and communication ports (80 and 443) that your web browser uses. If you can use your browser to view www.derman.com, *LicenseControl* can normally communicate with the licensing server.

Licensing Your Application

Install and launch your application — then:

- select the application's **Licensing...** menu item (or button)
- open the email or file containing your License ID for that application and select/copy the License ID
- paste the License ID into the **Licensing ID** entry box in the *LicenseControl* window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance
- when the *LicenseControl* window shows **License Status: Licensed for this system** (near the top), close the *LicenseControl* window

The entire process should take only a number of seconds to complete.

Updating, Re-Installing, Copying or Restoring Your Application

If you currently have a licensed application on your system (and have not de-activated that license) and you:

- install an updated version of the application that is license-compatible (i.e., is a free update)
- re-install the same application or another copy of the same application
- restore a backup of your application to the licensed system (even if the disk has changed)

... then, to license the application, start the application and:

- select the application's **Licensing...** menu item (or button)
- select the **Find this Application's License and Activate It** radio-button in the *LicenseControl* window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance
- when the *LicenseControl* window shows **License Status: Licensed for this system** (near the top), close the *LicenseControl* window

The entire process should take only a number of seconds to complete.

This re-activation capability applies even if you have replaced your hard disk, as long as you had previously activated a license for that application on that system and as long as that license had not been de-activated.

Moving an Application's License to Different System

To move a license that's activated for an application on one system to an application on different system:

- launch the currently licensed application and select the application's **Licensing...** menu item (or button)
 - if you had already removed the licensed copy of the application, first re-install and start the application, then select the application's **Licensing...** menu item (or button)
 - select the **Find this Application's License and Activate It** radio-button in the *LicenseControl* window
 - press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance to (re)license the application
- select the **De-Activate this Application's License (I'm Changing Systems)** radio-button in the *LicenseControl* window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance to unlicense the application
- on the system to which you are moving, follow the *Licensing Your Application* instructions, above, to activate/re-use the license on that other system

When changing systems, you'll need to use this option or your license will remain assigned to (i.e., used up by) the system you're replacing and won't be available for use on your replacement system.

Selling or Changing Your System

If you are going to sell, dispose of, or otherwise swap your system, you must follow the *Moving an Application's License to Different System* instructions above, in order to avoid selling, disposing of, or otherwise giving away your license with the system you will no longer be using.

To determine which applications are licensed by *LicenseControl* on a given system, select *LicenseControl*'s **Show Licensed Applications** entry under the **LicenseControl** menu.

Note that there is no time limit between de-activating a license and activating it on different system, so you are free to de-activate licenses and activate them on your new system at any

time. There is also no limit to the number of de-activations so you are free to move your licenses whenever and as often as you require.

Changing systems without de-activating your license is, effectively, giving away your license with the "changed out" system.

Reviewing Your Licensing Information

To review the licensing information for a License ID, Upgrade ID or Add-On ID:

- launch the application and select the application's **Licensing...** menu item
- do one of the following:
 - to review the information for the License ID that was used to license the application, select the **Show the Status of this Application's License ID** radio-button in the *LicenseControl* window
 - to review the information for any licensing ID, enter (i.e., copy/paste) a License/ Upgrade/Add-On ID into the **Licensing ID** entry box in the *LicenseControl* window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance

To determine which applications are licensed by *LicenseControl* on a given system, select *LicenseControl*'s **Show Licensed Applications** entry under the **LicenseControl** menu.

Licensing Concepts

LicenseControl is built upon the following concepts:

- **Trial Mode** and **Licensed Mode**: A *LicenseControl*'d application can run in either Trial mode or Licensed mode. The software Vendor/developer determines which capabilities are available in each mode but, in general, Trial mode incorporates some restrictions that are designed to allow evaluation of the software within certain limitations whereas Licensed mode provides full access to all the application's capabilities. This dual-mode strategy allows Internet-based distribution of software so it can be freely evaluated in Trial mode then "activated" (i.e., set to run in Licensed mode) via a licensing code that can also be purchased and delivered via Internet. Not all *LicenseControl*'d applications allow operation in Trial Mode — some require a Trial license during evaluation.
- **License**: A license allows a given application to operate in Licensed mode on a single system. The software Vendor/developer defines which of the application's capabilities are available in Licensed versus Trial mode.

- **License ID** – the licensing code you receive when you purchase one or more licenses for a *LicenseControl*'d application: A License ID can "include" one or more licenses and the licenses can be added onto and/or upgraded as long as all the licenses included in a single License ID are upgraded to the same (license-compatible) level.
- **Upgrade ID** – the licensing code you receive when you purchase an upgrade for an application — i.e., to use a new/upgraded version of an application for which you already have a license. An Upgrade ID contains one or more license upgrades that can be used to upgrade the licenses in one or more (license-compatible) License IDs. Upgrade IDs are never used to license applications, directly. Upgrade IDs are only used to upgrade licenses in existing License IDs.
- **Add-On ID** – the licensing code you receive when you purchase additional licenses for an application for which you already have one or more licenses. An Add-On ID contains one or more add-on licenses that can be used to increase the number of licenses in one or more (license-compatible) License IDs. Add-On IDs are never used to license applications, directly. Add-On IDs are only used to add additional licenses to existing License IDs.
- **License Compatibility**: License compatibility is defined by the application Vendor and determines which License IDs apply to which versions of which applications as well as which Upgrade and Add-On IDs apply to which License IDs. *LicenseControl* only allows licensing operations that involve license-compatible IDs and versions of applications.
- **Licensing Server**: When you perform a licensing operation, *LicenseControl* communicates with a licensing server to acquire a license. This communication **only** occurs when a licensing operation is requested and does not occur at any other time. Specifically, running a *LicenseControl*'d application does not cause any communication with the licensing server unless you are in the process of performing licensing operations (i.e., are using *LicenseControl* window). To communicate with the licensing server, *LicenseControl* uses the standard protocols (HTTP and HTTPS) and communications ports (80 and 443) that your web browser uses. If you can use your browser to view www.derman.com, *LicenseControl* can normally communicate with the licensing server. Detailed information about the content of the licensing communications, along with instructions for capturing and verifying what's actually communicated to the licensing server is available via www.derman.com.

Upgrading Your License(s)

If you install an updated version of an application that is a "must pay for" update and the previous version of that application was licensed via *LicenseControl*, you will normally receive an Upgrade ID when you purchase your update, rather than a different License ID.

To apply an Upgrade ID to upgrade the licenses in your License ID:

- select the application's **Licensing...** menu item (or button)
- open the email or file containing your Upgrade ID for that application and select/copy the Upgrade ID
- paste the Upgrade ID into the **Licensing ID** entry box in the *LicenseControl* window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance

Some additional points about upgrades:

- The licenses in a License ID can be upgraded regardless of whether they are activated or not.
- All the licenses included in a single License ID must be upgraded to the same (license-compatible) level at one time.
- Once you have successfully applied all the license upgrades contained in a particular Upgrade ID, you will no longer need to (or be able to) use that Upgrade ID. You can use the **Show the Status of this Application's License ID** capability to determine the current status of an Upgrade ID.
- You always use the (original) License ID (that's now been upgraded) when activating licenses (the licensing server remembers that the License ID has been upgraded).
- Upgrade IDs are never used to activate licenses, only License IDs are used for license activations.

Adding More License(s)

For some applications, it's possible to add onto the number of licenses included in your existing License ID, rather than acquiring additional License IDs. When purchasing additional licenses, you may obtain an Add-On ID rather than an additional License ID.

To use an Add-On ID to add onto the number of licenses in your License ID:

- select the application's **Licensing...** menu item (or button)

- open the email or file containing your Add-On ID for that application and select/copy the Add-On ID
- paste the Add-On ID into the **Licensing ID** entry box in the *LicenseControl* window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance

Some additional points about Add-Ons:

- The number of licenses in a License ID can be added onto regardless of whether any licenses are activated or not.
- Once you have successfully applied all the add-on licenses contained in a particular Add-On ID, you will no longer need to (or be able to) use that Add-On ID. You can use the **Show the Status of this Application's License ID** capability to determine the current status of an Add-On ID.
- You always use the (original) License ID (that's now been added onto) when activating licenses (the licensing server remembers that the License ID has been added onto).
- Add-On IDs are never used to activate licenses, only License IDs are used for license activations.

Storing Your License ID

You can create a stored License ID to have your License ID entered automatically and to aid in multi-system management in a corporate environment (see the *Multiple Systems Administration* section, for more detail).

When *LicenseControl* starts, it looks for a stored License ID for the current application and, if found, automatically inserts that License ID into the **Licensing ID** entry box, but shows only bullet/• characters. You can override this entry, when required.

To create a stored License ID:

- launch the application and select the application's **Licensing...** menu item (or button)
- enter (i.e., copy/paste) your License ID into the **Licensing ID** entry box in *LicenseControl*'s licensing window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance

In most installations, creating a stored License ID will require Administrator-level privileges and an authentication dialog will be presented, if required.

To remove a stored License ID:

- launch the application and select the application's **Licensing...** menu item (or button)
- select the **Remove this Application's Stored License ID** radio-button in the *LicenseControl* window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance

In most installations, removing a stored License ID will require Administrator-level privileges and an authentication dialog will be presented, if required.

Controlling Access to Licensing Operations

For License IDs "containing" more than one license, a password can be set and that password will be required for some or all of the licensing operations — you specify which kinds of operations will require a password. This feature is designed mostly for use in corporate environments.

Once a password is set for a given License ID, any password-protected licensing operation that involves that License ID will be preceded by a password entry/check. To recover from a forgotten password, please contact us via www.derman.com.

To set a password or to alter the current password on a License ID (only available for multi-license License IDs):

- launch the application and select the application's **Licensing...** menu item (or button)
- enter (i.e., copy/paste) a License ID into the **Licensing ID** entry box in *LicenseControl*'s licensing window (it can be any License ID)
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance

To remove the password from a License ID:

- launch the application and select the application's **Licensing...** menu item (or button)
- enter (i.e., copy/paste) the License ID into the **Licensing ID** entry box in *LicenseControl*'s licensing window
- press *LicenseControl*'s **Next** button and follow the licensing assistant's guidance

Uninstalling an Application That Uses *LicenseControl*

Warning: If you have licensed an application, be sure to de-activate the license if you are uninstalling the application because you're not going to use it on that system any more — i.e., follow the *Moving an Application's License to Different System* instructions, above.

Warning: If you have any other applications licensed by *LicenseControl*, do not remove the "/Library/Application Support/LicenseControl" directory/folder. Doing so will require you to re-activate the license for all those other applications. You can view the list of *LicenseControl*'d applications on a system by selecting *LicenseControl*'s Show Licensed Applications entry on the LicenseControl menu.

Except for its user preferences and some small application-support files, *LicenseControl* is contained within your application and uninstalling the application will uninstall *LicenseControl*. If you want to remove the *LicenseControl* preferences and application-support files (or just ensure that the application's uninstaller did so), you can remove the following files, if they exist (Administrator privileges may be required to remove the application-support files):

- remove the user preferences file
~/Library/Preferences/com.Derman.LicenseControl.plist
- subject to the warning above, remove the application-support files by removing the directory/folder
/Library/Application Support/LicenseControl

Note that, if you open the text file
/Library/Application Support/LicenseControl/Licensed Applications.txt
you'll see a list of the applications currently licensed by *LicenseControl*. This is the same information that's shown via *LicenseControl*'s Show Licensed Applications entry under the LicenseControl menu.

Multiple-Systems Administration

As documented in the *Storing Your License ID* section, *LicenseControl* will allow you to create or remove a stored License ID. In addition to being useful on a personal-system level, stored License ID can also be used:

- when creating a "distribution image" that is used to deliver standardized, installed systems

- when distributing a License ID to existing systems so users can easily license their application without having to be given a visible copy of the (company's) License ID
- to keep the applicable License ID with the system upon which it's used, especially useful to avoid always having to go "back to the list of what's where" when managing multiple systems

A stored License ID is most useful if you have a multi-license License ID and/or you manage a number of systems.

Distributing a Stored License ID

Once you have created a stored License ID it can be distributed either by creating a distribution image (e.g., using netboot or cloning strategies) or by distributing the file in which the stored License ID is contained.

To distribute the file in which a stored License ID is contained:

- locate the stored License ID file for the applicable application—the directory `/Library/Application Support/LicenseControl/`
- will contain a ".<32-digit hex>.lid" file that was created to hold the stored License ID (if there are multiple stored License ID files, you'll need to identify the applicable one by the file's timestamp)
- copy/distribute the stored License ID file to the applicable systems — note that this can be done either before or after the application is installed and/or licensed

Warning: You must duplicate the permissions and be careful to copy **only** the ".<32-digit hex>.lid" file from the `/Library/Application Support/LicenseControl/` directory, creating the directory if it does not exist. Getting the permissions incorrect and/or copying other files from that directory will likely cause licensing failures.

Note that it is best to clone a system upon which the application(s) have not been licensed (or have been unlicensed). If you are delivering cloned systems, by whatever method, the User will still need to activate the license the application the first time it is run on a given system.

Licensing Security

Although the stored License ID is encrypted, the file is still usable by anyone. Furthermore, the **Show the Status of this Application's License ID** capability will show the License ID. Therefore, for multi-license License IDs, a stored License ID should be used in conjunction with password-protected licensing operations. In most environments, it will make sense to password all licensing operations except the Re-Activate operation. See the *Controlling Access to Licensing Operations* section, for more detail.

Although you can password-protect the ability to apply Upgrade and Add-On IDs, it would still be possible for anyone who has access to a valid License ID to apply any (compatible) Add-On or Upgrade ID. License, Upgrade and Add-On IDs should be handled with an appropriate level of security, given your environment.

Acknowledgments

Portions of the code in this product are:

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