

## **Licensing PhazeComp 2 on a Mac**

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If you are reading this, it is assumed that you have already installed PhazeComp 2 on your target computer(s) according to the instructions in the “Installing PhazeComp on a Mac” document, and that you would now like to make some changes to your PhazeComp license(s).

There are two types of PhazeComp licenses: standalone and floating. They are both administered by the Reprise License Manager (RLM) from Reprise Software (<https://reprisesoftware.com>). They will be described separately in the sections that follow.

### **Standalone Licenses**

A standalone license is locked to the physical computer on which it was installed, although it can normally be moved from one computer to another (up to 104 times per license year) without involving Zick Technologies (see the “Deactivating, Moving, and Reactivating a License” section). The exception is the automatic 30-day trial license. That is a standalone license that cannot be moved. Once the trial license has expired, it will be necessary to acquire a normal license in order to continue using all of PhazeComp’s features. If you opt for a standalone license, this section will instruct you in its activation.

When you acquire a standalone license from Zick Technologies, you will be given an Activation Key. It can be replaced, but try not to lose it. You will need it for activation, reactivation, or to replace a lost or damaged license file.

When you’re ready to activate a standalone license on a given computer, first make sure that PhazeComp has been installed on that computer. Then:

1. From the “/Applications/PhazeComp” directory, launch the Licensing application. Follow the prompts to indicate that:
  - 1.1. You want to activate a license.
  - 1.2. You were granted a standalone license.
2. When prompted, provide the Activation Key you were given.
3. If the activation is successful, you will be ready to use PhazeComp .
4. If not, use the error messages to try to resolve the problem, or contact Zick Technologies for assistance.

You can activate a license as many times as you want, using the same activation key, but you will only be writing the same license file, with the same expiration date, to your license directory each time. It’s a good way to replace a lost or damaged license file, but there’s no other advantage.

You might have noticed that the same Licensing application also allows you to deactivate a standalone license. You would do that if you wanted to move the license to another computer (see

the “Deactivating, Moving, and Reactivating a License” section), or if you were planning on some hardware upgrades to your computer that might invalidate your license. If you deactivate your license before upgrading the computer, and then reactivate the license afterwards (using the original Activation Key), you will avoid the hassle of getting the license replaced.

## Virtual Machines

A standalone license (including the automatic trial license) will not work on a virtual machine, unless Zick Technologies makes an exception and issues you a short-term evaluation license with a fixed expiration date. If you need to run PhazeComp in the long term on a virtual machine, you will need to run the RLM license server on a physical computer and install a floating license on that computer (see the following section). A virtual machine can then use that floating license.

## Floating Licenses

If you would like to share one or more licenses among multiple users, or if you have a user who needs to run PhazeComp on a virtual machine, then you will need one or more floating licenses, and you will need to run the RLM license server on a physical host computer.

The choice between standalone and floating licenses may not always be clear. The price of the first floating license for an organization is currently 150% that of a standalone license (since it can service more than a single user). Subsequent floating licenses currently have the same price as a standalone, however. Each floating license can support several occasional users, but will probably not be sufficient for more than one frequent user. That’s because Zick Technologies’ policy is that each checkout of a floating license will put a 2-hour hold on that license for the user who checked it out. If a user runs PhazeComp more than once every two hours, other users will find themselves locked out. Given those caveats, if you’re still interested in floating licenses, please contact Zick Technologies for more information about testing or purchasing them.

If you do arrange to acquire one or more floating licenses, then here are the instructions for installing and activating them:

1. Select a Macintosh to act as the license server. It might already be running RLM to serve licenses for other applications (more on that below), but it would be much simpler to dedicate a computer to just serving PhazeComp licenses.
2. Follow the instructions in the “Installing PhazeComp on a Mac” document to install PhazeComp and the server applications on the chosen computer.
3. Acquire the Activation Keys for the server and for the floating license(s) from Zick Technologies.
4. From the “/Applications/PhazeComp” directory, launch the Licensing application. Follow the prompts to indicate that:
  - 4.1. You want to activate a license.
  - 4.2. You were granted a floating license.
  - 4.3. You are currently on the server computer.
  - 4.4. You want to activate both a server license and a floating license.
5. When prompted, provide the server Activation Key you were given.

6. When prompted, provide the floating license Activation Key.
7. If you were given more than one floating license Activation Key, repeat steps 4 and 6, except at step 4.4, indicate that you want to activate just a floating license.
8. Decide on the directory from which you would like to run the RLM license server. If RLM is already running on your chosen server, you will want to use RLM's current directory. If not, it would be easiest to use Zick Technologies' installation directory, "/Library/Application Support/ZickTech/License Server", but you might prefer to use a directory that is not specific to any one software vendor. Wherever you decide to store the license files and the RLM executables, let's refer to that directory as /Path\_to\_RLM.
9. Determine if RLM is already installed on your host computer and, if so, where it is installed, whether or not it is currently running, and what its version number is. To help determine or verify this information, do the following:
  - 9.1. Open a Terminal window and issue the following commands:
    - cd "/Library/Application Support/ZickTech/License Server"
    - ./rlm -info
    - ./rlmutil rlmstat
    - ./rlm -v
  - 9.2. The "./rlm -info" command will indicate if RLM has been run within the last 24 hours. If so, you will know that RLM is already installed, and the info will include its version number and where rlm is located (/Path\_to\_RLM). Make note of both. If more than one instance of RLM is indicated, choose the one that was running on the default port, 5053. If there is no such instance, treat RLM as not already installed.
  - 9.3. The "./rlmutil rlmstat" command will indicate if RLM is currently running.
  - 9.4. The "./rlm -v" command will return the version number of the ZickTech copy of rlm.
10. If RLM is not already installed on this server:
  - 10.1. Copy the entire contents of the "/Library/Application Support/ZickTech/License Server" directory to the "/Path\_to\_RLM" directory.
  - 10.2. Start RLM by double-clicking on the rlm icon in the /Path\_to\_RLM directory, or by opening a Terminal window and issuing the following commands:
    - cd "/Path\_to\_RLM"
    - ./rlm <optional start-up parameters>
 where the optional start-up parameters are described at <https://reprisesoftware.com/docs/admin/the-license-server.html#rlm-startup-options>.
11. If, on the other hand, RLM is already installed at /Path\_to\_RLM on this server:
  - 11.1. Make sure a copy of rlmutil also resides within /Path\_to\_RLM. If not, locate the missing copy of rlmutil and copy it to /Path\_to\_RLM.
  - 11.2. If the ZickTech copy of rlm has a newer version number than the existing copy (as determined in step 9.1), then the existing copy of rlm will need to be stopped (if currently running), replaced with the newer version, and then restarted, as follows:
    - 11.2.1. If RLM is currently running, open a Terminal window and enter:
      - cd "/Path\_to\_RLM"
      - ./rlmutil rlmdown RLM
    - 11.2.2. Copy the entire contents of the "/Library/Application Support/ZickTech/License Server" directory to the "/Path\_to\_RLM" directory.
    - 11.2.3. Start RLM by following the procedure in step 10.2.

- 11.3. If, on the other hand, the ZickTech copy of rlm has an older version number than the existing copy (as determined in step 9.1), then:
  - 11.3.1. Copy all files that don't start with "rlm" from the  
"/Library/Application Support/ZickTech/License Server" directory to the  
"/Path\_to\_RLM" directory, overwriting any that existed previously.
  - 11.3.2. If RLM is currently running, open a Terminal window and enter:
    - cd "/Path\_to\_RLM"
    - ./rlmutil rlmdown zicktech
    - ./rlmutil rlmreread
  - 11.3.3. If, on the other hand, RLM is not currently running, start it by following the procedure in step 10.2.
12. Make rlm a login item for the user who would normally restart the computer.
13. The server should now be ready to serve licenses to the client computers.
14. If not already done, download and install PhazeComp on each client computer according to the "Installing PhazeComp on a Mac" or "Installing PhazeComp on a PC" document.
15. Copy the ZickTech\_Host.lic file from the server's "/Library/Application Support/ZickTech" directory to:
  - The "/Library/Application Support/ZickTech" directory on each Macintosh client.
  - The "C:\ProgramData\ZickTech" directory on each Windows client.
16. Each client computer (including the server and virtual machines) should now be able to run PhazeComp, with a floating license (when available).

## Updating Floating Licenses

When it comes time to add, renew, or otherwise update, a floating license, follow this procedure:

1. Acquire the new Activation Key(s) for the new floating license(s) from Zick Technologies.
2. For each new Activation Key, launch Licensing from the "/Applications/PhazeComp" directory on the server. Follow the prompts to indicate that:
  - 2.1. You want to activate a license.
  - 2.2. You were granted a floating license.
  - 2.3. You are currently on the server computer.
  - 2.4. You want to activate a floating license.
3. When prompted, provide the floating license Activation Key you were given.
4. Open a Terminal window and issue the following commands:
  - cd "/Library/Application Support/ZickTech/License Server"
  - ./rlm -info
5. Note the directory from which the rlm command was issued. Let's refer to this directory as "/Path\_to\_RLM".
6. If /Path\_to\_RLM does not equal "/Library/Application Support/ZickTech/License Server", then copy all new PhazeComp\_Floating\_xxxx.lic files (where xxxx corresponds to each new Activation Key) from the "/Library/Application Support/ZickTech/License Server" directory to the /Path\_to\_RLM directory.
7. From the Terminal window, now issue the following commands:
  - cd "/Path\_to\_RLM"
  - ./rlmutil rlmreread
8. All client computers should now have access to the new floating license(s).

## Roaming a Floating License

Except for virtual machines, each client computer can “roam” a floating license for up to 14 days. When a floating license is roamed, it will be tied to the roaming computer for the duration of the roaming period, even if the roaming computer is disconnected from the server’s network (which is the main reason to roam a license). While it is roamed, no other user will be granted access to that particular floating license.

For a PhazeComp client to request a roaming license, the procedure is as follows:

1. Make sure the RLM server is running and that you are connected to its network and to the Internet.
2. From the "/Applications/PhazeComp" folder, launch Licensing. Follow the prompts to indicate that:
  - 2.1. You would like to roam a floating license.
  - 2.2. You would like the license for 0 to 14 complete days. Each complete day ends at midnight, so today is day 0, tomorrow is day 1, a week from today is day 7, etc.
3. If the roaming is successful, you will have the roamed license until the end of the roaming period, or until you return it earlier.
4. If you’d like to extend the roaming period (up to 14 days from the date of the original roaming request), you can repeat this procedure to request a different roaming period. You won’t be able to shorten the roaming period, however.
5. If you receive any error messages that you can’t resolve, contact Zick Technologies for assistance.

If you are finished with a roaming license, you can return (unroam) the license early. This will return it to the pool of floating licenses, although you will still have a 2-hour hold on it. The procedure is as follows:

1. Make sure the RLM server is running and that you are connected to its network.
2. From the "/Applications/PhazeComp" folder, launch Licensing.
3. At the prompt, indicate that you would like to unroam a roaming license.
4. If the unroam is successful, the license will be returned to the pool of floating licenses after its 2-hour hold expires.
5. Otherwise, the license will continue to roam until the end of its roaming period.
6. If you receive any error messages that you can’t resolve, contact Zick Technologies for assistance.

## Administering Floating Licenses

The system administrator of the host computer has two ways to administer the RLM license server:

- A Terminal window, where the `rlm` and `rlmutil` commands can be used for various tasks.
- RLM’s built-in web interface at <https://localhost:5054>.

For information on all of the available options when running `rlm` or `rlmutil` from a Terminal window, see <https://reprisesoftware.com/docs/admin/basics-admin.html> for Reprise's RLM License Administration Manual. This documentation actually covers everything else you might need to know as a license administrator. Note that if you want to see what the `rlmutil` command can do, you should follow the link to "License Administration Tools." The most common use for `rlmutil` is to cause RLM to reread all of the license files in its directory (for whenever any have been added, removed, or updated). This is done by issuing the `./rlmutil rlmreread` command.

The second way to administer the license server is through RLM's built-in web interface. The web site uses a self-signed certificate so, upon first launch, you will need to override a warning that the site might not be secure. You will then be asked for a Username and Password. The first time, enter "admin" for both. You will then be asked to change the password. Once you're on the web site (which is pretty self-explanatory), you will see the name of a server for each ISV (individual software vendor) for which RLM is administering licenses. The server named "zicktech" will be the one serving licenses for PhazeComp (and any other software distributed by Zick Technologies).

## Deactivating, Moving, and Reactivating a License

It is possible to deactivate, and later reactivate, either a PhazeComp standalone license (except for the 30-day trial license), or a ZickTech floating license server license. There are two reasons for doing so. The first is if you want to move the license to a different computer. The second is if you plan to make changes to the hardware of your existing computer, which might invalidate your license. In that case, you would want to deactivate your existing license, make your hardware changes, and then reactivate the license as though you were on a new computer.

Before you deactivate a license (either standalone or server), make sure you still have the original Activation Key, which you will need to reactivate the license. If you have lost the Activation Key, you may contact Zick Technologies to retrieve it for you. If you are moving a server license, make sure you still have the Activation Key(s) for the actual floating license(s) as well.

Also, before you deactivate a server license, you should shut down the zicktech server by issuing the command `./rlmutil rlmshutdown zicktech` from the `/Path_to_RLM` directory.

To deactivate a license:

1. From the `/Applications/PhazeComp` directory, launch Licensing.
2. At the first prompt, indicate that you would like to deactivate a license.
3. At the second prompt, indicate whether you would like to deactivate either a standalone license or a floating license server.

The deactivation will hopefully be successful. If not, you should receive an error message to help you diagnose the problem. A standalone license can be deactivated up to 104 times per license year. The rationale is to allow a license to be moved from a desktop computer to a laptop, say, and then back to the desktop computer, about once per week. A server license can be deactivated up to 24 times per license year (allowing for hardware upgrades about once per month).

To reactivate a standalone license on the current, or a new, Macintosh computer, follow the instructions in the “Standalone Licenses” section of this document.

To reactivate a standalone license on a Windows computer, instead, follow the instructions in the “Standalone Licenses” section of the “Licensing PhazeComp on a PC” document.

To reactivate a server license on a new Macintosh computer, make sure you have shut down and deactivated the zicktech server on the old computer. Then, on the new computer, follow the instructions in the “Floating Licenses” section of this document, as though you were performing the initial licensing.

To reactivate a server license on a Windows computer, instead, make sure you have shut down and deactivated the zicktech server on the old computer. Then, on the new computer, follow the instructions in the “Floating Licenses” section of the “Licensing PhazeComp on a PC” document, as though you were performing the initial licensing on that Windows computer.

To reactivate a server license on the current computer (after a hardware change, for example):

1. From the “/Applications/PhazeComp” directory, launch Licensing and follow the prompts to activate the server license.
2. Upon successful activation, copy the ZickTech\_Server\_xxxx.lic file from the “/Library/Application Support/ZickTech/License Sever” directory to the /Path\_to\_RLM directory (if different).
3. Open a Terminal window and issue the following commands:
  - cd “/Path\_to\_RLM”
  - ./rlmutil rlmreread