

### Installing PSIM

Installation of the PSIM softkey network version involves two steps:

- (a) setting up accounts for PSIM users; and
- (b) installing the PSIM software.

### Setting up PSIM Accounts

Note: Setting up PSIM accounts should be performed by IT administrator or whomever is in charge of the PSIM license management only.

1. Run the SimClient tool provided by Powersim.
2. Click on **Add** to create a user account. On the dialog window “*User Information*”, specify user’s information, account password, number of licenses (the number of licenses should normally be 1 unless the user needs more than 1 license).
3. Set the *License Period* and *Expiry Date*. The *License Period* is the time interval in which the license will be valid for after activation, and the *Expiry Date* is the date on which the license will expire.  
  
For example, if the *License Period* is set to 2 days and the *Expiry Date* is set to December 31, 2020, every time the user activates the license, the license will be good for 2 days on the computer. If the user deactivates and activates again, it will be good for another 2 days. The license will expire on the expiry date of December 31, 2019, for that user.  
  
**Warning! Be careful when setting the License Period and Expiry Date. If the limit is too long, and the user does not check back in the license, the user will continue to hold this license and nobody else can use it.**
4. A computer must be registered with Powersim before it can run PSIM. Normally, the number of computers PSIM automatically registers is equal to the number of users/seats purchased. See section “Registering Computers” in this guide for more information.
5. If prompted to register a computer, run *Computer ID* from the PSIM folder of the **Start** menu, or you can click on the ComputerID.exe file in the PSIM installation folder and run it. You may also copy the file “ComputerID.exe” on to the computer that will run PSIM. Obtain the computer ID, and add the computer ID together with the user information to a list by clicking on the button **Computer List...** and send the list to your PSIM administrator in your company or university. The computer ID contains only the information on computer’s hard disk ID, processor ID, and MAC address, and no other information is collected.
6. Click on **Save** to save the account. Back in the SimClient window, this account will be displayed with generated serial number. Give the serial number and password to the user to activate the PSIM license.

This concludes the account setup.

### Installing PSIM

**Note:** Before installing PSIM, you should have received the PSIM license file “psim.lic” from Powersim.

1. In the file folder installed from the download, run “setup.exe”, and follow the installation instructions. PSIM can be installed either on the local drive, or on a network drive which can be accessed by other PC’s on the network.
2. In the window “*Select License Type*”, choose “*1 - Softkey version*”. Then click on the button **Select psim.lic file...** to select the saved license file “psim.lic”.
3. After the installation is complete, activate PSIM by launching PSIM. Make sure that the computer is connected to the internet when activating PSIM. Follow the installation instructions.
4. After installation is complete, PSIM is activated by running the PSIM software. Make sure that the computer is connected to the internet when activating PSIM.
5. If your license includes the MagCoupler Module, proceed to the next step. Otherwise, the installation is now complete.
6. In PSIM, go to **Options >> Set Path** and add the JMAG folder to the PSIM search path. For example, if JMAG is in “c:\program files\JMAG-Studio13.0”, add the folder to the PSIM search path.

This concludes the installation of the PSIM software.

### Installing PSIM in the Silent Mode

To install PSIM on client computers in the silent mode, first make sure that the following 2 files are in the same folder:

- Setup executable file (for example, “setup\_x64.exe”)
- psim.lic

Then launch a command line window. From the command line window, change the folder to the folder where the two files are located. Then type the following command:

```
setup_x64.exe /verysilent /dir="c:\Powersim\PSIM12.0_softkey_x64"
```

This will run the setup “setup\_x64.exe”, and install PSIM to the destination folder “c:\Powersim\PSIM112.0\_softkey\_x64”.

Instead of the option “/verysilent”, one can use the option “/silent” which will give error messages if there are errors in the installation process.

### Registering Computers

In order for PSIM to run, computers must be registered with Powersim first. With the Group account, the license administrator registers the computer ID by using the SimClient tool provided by Powersim.

Administrators should refer to the *SimClient User Guide* provided on how to register computers and set up sub-accounts.

### Activating/Deactivating the License

When PSIM is launched, it will contact the Powersim server and activate (check out) the license. When PSIM exits, it will automatically deactivate (check in) the license, and someone else can use the license.

Note that activating/deactivating the license requires internet connection. If the computer is disconnected from internet after the license is activated, the license will not be deactivated (checked in) when PSIM exists, and it will remain activated on this computer. The license will be deactivated next time when PSIM exists while the computer is connected to internet.

To keep the license activated on a computer until the license period expiry, go to **Options >> Settings >> License**, and check the box *Keep license*. This will keep the license activated until the license period expiry. If keep license is not checked, the license is checked out when PSIM starts and returned when PSIM exists (assuming there is internet connection).

### Sharing Modules

Users can selectively choose the modules they require when they start up PSIM. This is done when PSIM is opened, the user is prompted which modules they would like to select. They can release modules in the License window (Options>Settings>License) by un-checking them and then deactivating PSIM (by closing PSIM or selecting Options>Deactivate)

"Don't ask next time" option in the module selection window, if checked, will save the current module selection to the Registry. Next time, PSIM will get the modules directly from Registry without asking the user to enter the same module list.

### License Period Information in Help >> About PSIM

When a user selects "Keep License", and checks out the license, they can run the license offline, without internet connection, for a duration of the license period. The default license period is set to 7 days. After the lapse of the license period, the license will reset, and PSIM will try to contact the Powersim server (via internet) and reactivate (check out) the license automatically. The process is transparent to the user.

The reason to set a license period duration is to consider the fact that if the computer is lost or stolen, or if the computer is crashed and Windows needs to be installed or some hardware components are changed, the license will reset and be released automatically. But if the user wants, we can set the default license period duration to whatever one prefers.

### Running License Monitor

To show who is running the license, run the License Monitor "PsimMonitor.exe" from the PSIM installation folder.

### Simulating Circuit

To simulate the sample circuit "examples\dc-dc\buck.psimsch" in the PSIM directory, launch PSIM. Choose **File >> Open** to load the file. Then go to **Simulate >> Run Simulation** to start the simulation. After the simulation is completed, in the waveform display window, select waveforms for display.

### **Information Collected**

The Powersim server records the computer ID when a user registers a computer. In addition, it records the login name and IP address information when a user activates PSIM. The information is for Powersim's internal license management use, and is kept strictly confidential. However, if you have concerns with the collected information, please contact Powersim or your local distributor before installing and running PSIM.