ProVal® by WinTech

ProVal
Installation Guide

This document was prepared to assist users of Winklevoss Technologies' ProVal System; its contents may not be used for any other purpose without written permission. The material contained herein is supplied without representation or warranty of any kind. Winklevoss Technologies therefore assumes no responsibility and shall have no liability arising from the supply or use of this document or the material contained herein.

Contents

Installing ProVal

NOTE: Ensure that you have the necessary permissions to install ProVal; in most cases this means that you must be the local administrator on the target machine. If in doubt, please contact your network administrator. Local Port 1947 must be open and available.

OBTAINING PROVAL INSTALLATION PROGRAM

Visit http://www.winklevoss.com/ProVal/Downloads and click the "Download Full Installation" button to download the installation program, PVvvv.exe, where vvv is the version number.
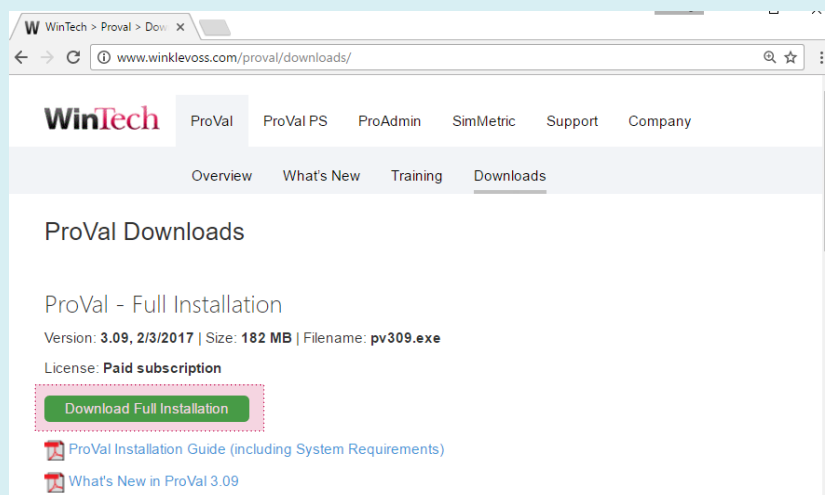
INSTALLING PROVAL

NOTE: The default location C:\Program Files(x86)\WinTech\ProVal is the recommended installation directory for ProVal.

NOTE: We no longer recommend a Network install for ProVal because it doesn't work well in the virtual and remote setups that are now pervasive. Fortunately, there are easy ways to distribute updates to local installations, which was the point of a Network install. If needed, the Network Installation Instructions can be found at https://www.winklevoss.com/client-support/#knowledge-05

## Installing with PVvvv.EXE (Recommended installation method)

1. **Uninstall previous versions of ProVal.** If you plan to install ProVal to a folder that already contains another version of ProVal, you must go to Add/Remove programs and uninstall the existing version of ProVal (if you're not sure how to do this, refer to the Uninstalling ProVal section of this document). Alternatively, you can install the new version of ProVal in a different folder.

2. **Run the ProVal installation program** (PVvvv.EXE) and follow the instructions.

3. **License ProVal.** There are two methods of licensing ProVal – Single User License Keys and Multi User Licenses (sometimes referred to as "network licenses"). For more details, please see the ProVal Licensing Explained section in this document.

For Single-User Licenses	For Multi-User Licenses
Simply install the Software Key.	When ProVal is run for the first time you should receive an "Unable to locate a valid ProVal license" Message. Click the "Edit INI File…" button. Update the LicenseDir setting. For more details refer to License Server Installation Guide.pdf (located in the ProVal installation folder).
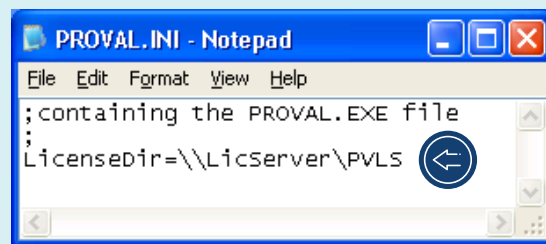
4. **Start ProVal** by double-clicking the ProVal icon on the desktop or the Windows Start menu. If you get an error message that ProVal is unable to initialize a hardware key, refer to the Troubleshooting section of this guide.

> **NOTE:** If you get an error while trying to start ProVal you may need to delete the following folder C:\Users\%username%\AppData\Local\VirtualStore\Program Files (x86)\WinTech and then relaunch ProVal.

Installing with PVvvv.MSI

1. **The ProVal MSI does not include any of the Necessary prerequisites.** If you do not have the required prerequisites you will need to download and install them manually using the links below.

   Microsoft Visual C++ 2015 Redistributable Update 3 RC x86 or Newer

   Microsoft Visual C++ 2015 Redistributable Update 3 RC x64 or Newer

2. **Uninstall previous versions of ProVal.** If you plan to install ProVal to a folder that already contains another version of ProVal, you must go to Add/Remove programs and uninstall the existing version of ProVal (if you're not sure how to do this, refer to the Uninstalling ProVal section of this document). Alternatively, you can install the new version of ProVal in a different folder.

3. **Run the ProVal installation program** (PVvvv.MSI) and follow the instructions.

4. **License ProVal.** There are two methods of licensing ProVal – Single User License Keys and Multi User Licenses (sometimes referred to as "network licenses")and Multi User Licenses (sometimes referred to as "network licenses"). For more details, please see the ProVal Licensing Explained section in this document.

For Single-User Licenses	For Multi-User Licenses
Simply install the Software Key.	When ProVal is run for the first time you should receive an "Unable to locate a valid ProVal license" Message. Click the "Edit INI File…" button. Update the LicenseDir setting. For more details refer to License Server Installation Guide.pdf (located in the ProVal installation folder).
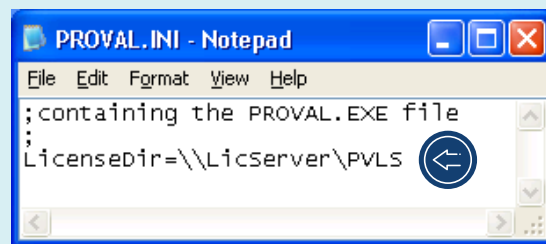
5. **Start ProVal** by double-clicking the ProVal icon on the desktop or the Windows Start menu.

NOTE: If you get an error while trying to start ProVal 3.15 you may need to delete the following folder C:\Users\%username%\AppData\Local\VirtualStore\Program Files (x86)\WinTech and then relaunch ProVal.

PROVAL.INI LOCATION

ProVal.ini default location

a. When installing ProVal into C:\Program Files (x86)\ or using a network setup (N:\ProVal) a ProVal.ini file is created in C:\Users\%username%\AppData\Roaming\WinTech\ProVal (If the folder is hidden you can type the path manually to access the directory).

b. If ProVal is installed in a custom location the ProVal.ini file will be created in the installation directory (e.g., C:\ProVal).

Manually specify the ProVal.ini location

a. Find the ProVal icon on the desktop and right-click the icon. On the popup menu, click Properties.

b. Change the "Start in" field to be the location of the ProVal.ini (e.g., C:\ProVal).

APPLYING UPDATES

NOTE: Updates will only work for the current version of ProVal eg. PV318.exe cannot be used to update ProVal 3.17.

NOTE: We are in the process of phasing out our old method of updating ProVal using the .zip files. We will continue to make the .zip files available to users who prefer that method.

We regularly release updates for ProVal to fix bugs and improve functionality. These updates are available on our website. To update your copy of ProVal, visit the ProVal Downloads page at:

http://www.winklevoss.com/ProVal/Downloads

Download the latest version of ProVal and **Run the ProVal installation program** (PVvvv.EXE) and follow the instructions.

IT professionals we provide an MSI installer package for ProVal which can be used to push out ProVal updates using GPO or other automated processes.

We will continue to make the .zip file available for updating upon request.

UNINSTALLING PROVAL

To uninstall ProVal, do the following:

1. Click the Start button, point to Settings, and click Control Panel.

2. Double-click the Add/Remove Programs icon.
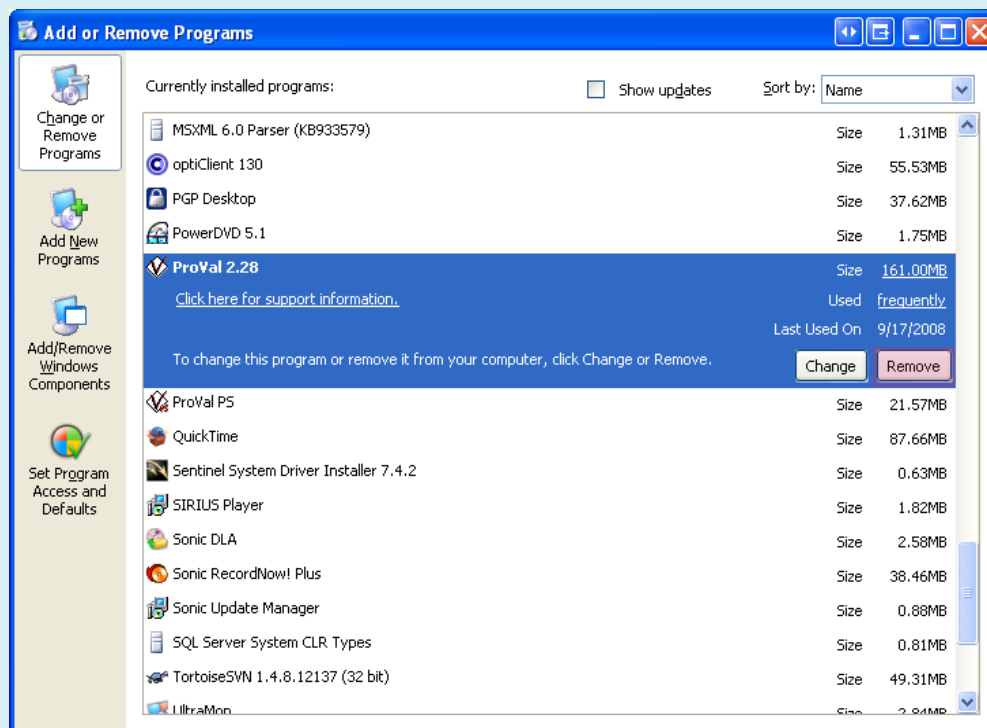
3. Select ProVal in the list of software and click the Remove button.

ProVal Licensing Explained

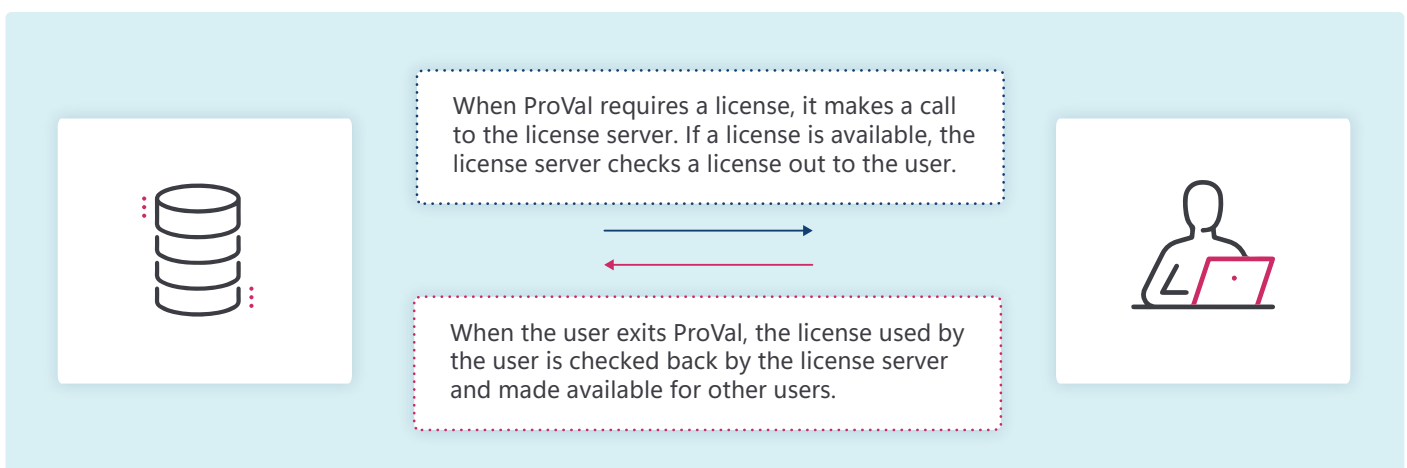ProVal is leased to our customers on a concurrent-use licensing model, which means that a license may be shared by multiple users as long as it is not being used simultaneously. Please refer to your lease agreement for further information. ProVal licensing is enforced using Software keys (Instructions for software key installation are sent upon request).

SINGLE-USER LICENSING

- Single-user keys contain one license and facilitate the use of ProVal on the workstation where the key is installed.

- This is the simplest form of licensing available and is ideal for smaller organizations and mobile users.

- Each key usually expires at the end of each year and is updated annually, subject to license renewal.

MULTI-USER LICENSING

- Multi-user keys (sometimes called "network keys") contain one or more licenses and facilitate the use of ProVal for multiple users.

- This form of licensing is ideal for larger organizations and requires the use of a separate license server.

- You will receive ONE key that will install into your license server and will serve multiple users of ProVal. The license server will check out licenses as users request them and check them back in when users exit ProVal. Please consult the License Server Installation Guide (present in the ProVal installation folder) for more details.

When ProVal requires a license, it makes a call to the license server. If a license is available, the license server checks a license out to the user.

When the user exits ProVal, the license used by the user is checked back by the license server and made available for other users.

- For portability, the PVLS allows users to check out "commuter licenses". Once checked out, a user may hit the road and not worry about being connected to a ProVal License Server or carrying around a single-user hardware key.

REQUESTING LICENSES

- To request ProVal licenses, please contact WinTech Sales sales@winklevoss.com. While ordering licenses, please be sure to specify the kind of license (Single-User or Multi-User).

- Please note that single-user keys CANNOT be interchanged with multiuser keys. If you wish to move from one licensing mode to the other, you should contact WinTech Sales.

Post-Installation Considerations

After installing ProVal, do consider taking advantage of all the support services that WinTech offers to make the use of ProVal easy and convenient.

CONTACTING WINTECH SUPPORT

E-MAIL

support@winklevoss.com

PHONE

+1.203.861.5540

Normal Business Hours:
Monday - Friday
8:30 am – 5:30 pm Eastern

ATTENDING TRAINING SESSIONS

In order to make the most of ProVal, attending one of our training sessions (in person or online) is highly recommended. Please visit the **ProVal Training** web page for further details:

https://www.winklevoss.com/proval/#training

STAYING IN THE LOOP

To keep abreast of the latest developments in ProVal:

- **Consider joining the ProVal Mailing List** to receive email announcements for new versions, updates, web-based conferences, user's group meetings, and other events. You may request that we add you to the ProVal mailing list by writing to support@winklevoss.com.

- Occasionally visit the **ProVal What's New** page:

  https://www.winklevoss.com/proval/releases/

Troubleshooting

For the most up to date troubleshooting visit our knowledgebase at

https://www.winklevoss.com/client-support/#knowledge

ProVal System Requirements

MINIMUM REQUIREMENTS

OPERATING SYSTEM

Microsoft Windows 10 Family.
Microsoft Windows 11 Family.
Microsoft Windows Server 2016 Family.
Microsoft Windows Server 2019 Family.
Microsoft Windows Server 2022 Family.

NOTES:
ProVal does not work on Mac OS®, UNIX® or Linux.
Compatible with 64-bit OS, running as 32-bit application.

PROCESSOR (CPU)

Intel i3® or equivalent (minimum).
Intel i5 4 core® or equivalent (recommended).

MEMORY (RAM)

1.5GB (minimum) to 3GB (recommended) of available memory per processor core.

DISK SPACE

750 MB for ProVal program files + 10GB for temporary storage during processing (more if running subtotals) + additional space for client files.

ADDITIONAL COMPONENTS

Microsoft .Net Framework 4.5 (or later) Required for API
Microsoft Visual C++ 2015 Redistributable x86 and x64 (or later)

OPTIMIZING PERFORMANCE

All three of the following hardware components are integral to optimizing ProVal's performance.

Processor (CPU) - The combination of clock speed and FSB speed determines the actual processor speed.

- **Clock speed** – The faster the better. ProVal is very CPU intensive. Clock speed is typically measured in GHz.

- **Front side bus (FSB)** – This is the primary connection between the processor and the motherboard. In other words, the bottleneck between the memory on the motherboard and the processor when sending data. FSB speeds are typically measured in MHz.

Memory (RAM) – Depending upon the complexities of the benefit formulas and the number of census records being processed, ProVal will run faster with more memory. For more, see "32 bit vs. 64 bit" and "multiple processors" below.

Disk File Share Access – The bandwidth to the disk drive holding ProVal's client files is critical to optimizing performance.

In addition, you might also consider the following when purchasing new hardware:

32-bit vs. 64-bit – ProVal is a 32-bit application. It can be installed on a 64-bit machine but will still run as a 32-bit application. The main advantage of 64-bit machines is that more memory is made available to ProVal (32-bit machines limit available memory to approx. 1.6GB, whereas 64-bit machines limit is approx. 3.1GB).

Multiple processors – Beginning with version 3.03, Valuations, Core Projections and Gain/loss Analysis now run much faster on multi-core computers by simultaneously running calculations on up to four local processors. An important consideration for multi-core processing is to have a sufficient memory on the machine. A good rule of thumb for determining sufficient memory is to allow for no less than 1GB of available memory per processor. Each processor can access up to 1.6GB of memory on a 32-bit machine and 3.2GB of memory on a 64-bit machine.