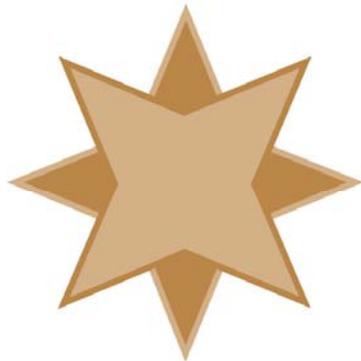


Entering Your Pervasive PSQL v11 Database Engine License

A White Paper From



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SOFTWARE

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Entering Your Pervasive PSQL v11 Database License

Last Updated: 11/25/2019

The Pervasive database engine is licensed via an electronic license key provided with the engine license. Pervasive PSQL v11 authorization keys are a 30-character alphanumeric string with dashes after every five characters. If you do not yet have this key, please contact your software vendor or Goldstar Software to purchase or obtain your key.

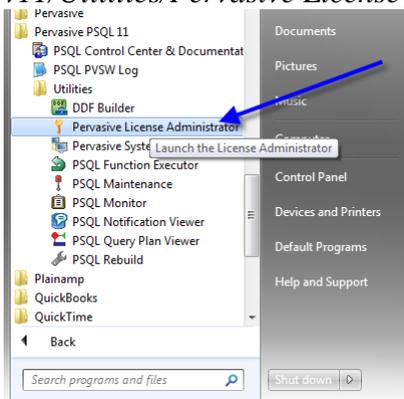
When you authorize a license, the key is sent to Pervasive Electronic Licensing Server (ELS) and is used to pull the proper software license for your engine and mark the license as "in use". Only ONE server can be authorized by any one key at a time. If you need to move a key to a different server, you MUST remember to deactivate the key on the current server FIRST, and then authorize it on the new server.

The process of authorizing a database engine is fairly simple, and is done with the License Administrator. This tool is available in both a GUI and command line versions.

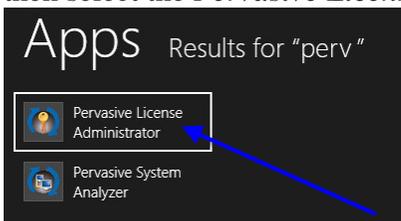
Using the GUI License Administrator

To add your license with the graphical License Administrator tool, follow these steps:

- 1) Go to the physical server itself and verify that you can access the Internet from the console. (Internet access is required for the activation process.) If you are upgrading from PSQL v9 or earlier, you may NOT be able to do this from a Remote Desktop (Terminal Services) session. If you are doing a clean install of PSQL v11, then you can do this from an RDP session without any problems.
- 2) If you have Windows XP or Windows 7, select *Start/All Programs/Pervasive PSQL v11/Utilities/Pervasive License Administrator*.



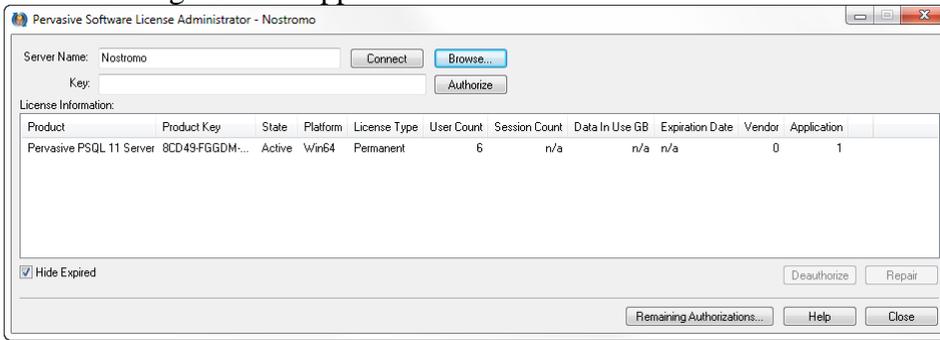
If you have Windows 8, go to the Start Screen (tiles) and start typing "Pervasive", and then select the *Pervasive License Administrator* from the list of options.



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3) The following box will appear.



- 4) Paste or type your activation key into the box labeled "Key".
- 5) Click the **Authorize** button to authorize your database engine. You should receive a message about the license being applied successfully, and the License Administrator should then show the new license.

Using the Command Line License Administrator

To use the command line version of the License Administrator tool, follow these simple steps:

- 1) Go to the physical server itself and verify that you can access the Internet from the console. (Internet access is required for the activation process.) If you are upgrading from PSQL v9 or earlier, you may NOT be able to do this from a Remote Desktop (Terminal Services) session. If you are doing a clean install of PSQL v11, then you can do this from an RDP session without any problems.
- 2) Start a Command Prompt (Start/Run/CMD.EXE).
- 3) If you are on a 32-bit server or workstation, enter the command (without the quotes) of "clilcadm -i". (The "i" must be lowercase.) If you are on a 64-bit server, enter the command "w64clilcadm -i". When you are done, you should see a screen that shows you your current licenses:

```
Microsoft Windows [Version 6.0.6002]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Windows\system32>w64clilcadm -i

CLI License Administrator Utility, Version 1.0
Copyright (C) Pervasive Software Inc. 2009

Decode all licenses installed:

Product      Product Key      State      Platform      Lic
ense Type    User Count      Expiration Date  Vendor  Application
Pervasive PSQL 10 Server n/a        7/28/2009      0      Expired      Win64      Tem
porary
Pervasive PSQL 10 Server n/a        n/a          0      Active       0      Win64      Per
manent
C:\Windows\system32>
```

- 4) To apply a new license, press the up arrow (or retype the line above), change the -i to -a (also in lowercase), add a space, and then add your license key (with the dashes) to the command line. As with the GUI, you should get a message that the license was applied successfully.

Problems with the License Administrator

We have seen several sites having problems with the License Administrator tools lately (which is one of the reasons this paper was created instead of simply referring to the manuals).

1. **DBU-Access Denied:** Apparently, some servers are not able to properly apply the license and return the error "DBU-Access Denied", even though you may be at the physical server console. This is likely a bug, or perhaps a new "feature" or newer versions of Windows. There are three workarounds to this issue.
 - ★ The first workaround (if you get this from the GUI) is to use the command line version of the tool. This is quick and easy, and in most cases, it works just fine.
 - ★ The second workaround is to use the GUI tool, but do it from the workstation. If you do this from a client computer, you will have to enter the server's name in the box and click Connect, then provide your network administrator login name and password to the License Administrator tool. This works pretty well, too, but requires some extra steps and typing.
 - ★ The final workaround is to manipulate a Pervasive Registry key, and should be used as the last resort option. To do this, start the Registry Editor (RegEdit) and go to *HKEY_LOCAL_MACHINE\Software\Pervasive Software\Utilities Interface\Settings* and change the value for the **Restrict Access on WTS Client** from 1 (Restricted) to 0 (Unrestricted). This should be the default value, but if your server had previously been installed with Pervasive.SQL V8 or Pervasive PSQL v9, then you might have this setting set to the old value.
2. **No Internet Access:** If you do not have Internet access on your server, then you will need to follow a different process for "offline activation". In essence, this process generates the machine ID to a special file, which you then take to a computer that DOES have Internet access to activate, and then you bring the data back to the server to apply. Pervasive PSQL v11 also supports a telephone activation process. For more information on offline activation, see the online copy of the Pervasive PSQL Users Guide in the chapter titled "License Administrator".
3. **Invalid License Key:** If you get a message that your license key is invalid, you should verify that you are typing it correctly. Some characters, like 2/Z, S/5, I/1 and 0/O can be easily confused. If you have a PDF invoice from Goldstar Software, you may wish to copy and paste the characters directly from the invoice to save typing (and your eyesight).
4. **Stacking Licenses:** If you have multiple licenses that you want to stack together with PSQLv11, then one of those licenses MUST be a "Base" license, and all other licenses should be "User Count Increase" licenses. When entering the licenses, always enter the Base license first, and then enter all UCI licenses.
5. **License is Accepted But It Doesn't Work:** You should check your license in two different places. First, check the License Administrator to see what licenses are applied, and add up the sum of the base license plus any user count increase licenses. Then, go to the PSQL Monitor and select **Microkernel/Resource Usage** to see the currently enabled license count that the engine has accepted. If these numbers do NOT match, then you have a problem with your license.
6. **License Count in License Administrator Doesn't Match Monitor:** Start the License Administrator and look at the **State** column to verify that the licenses you expect to be

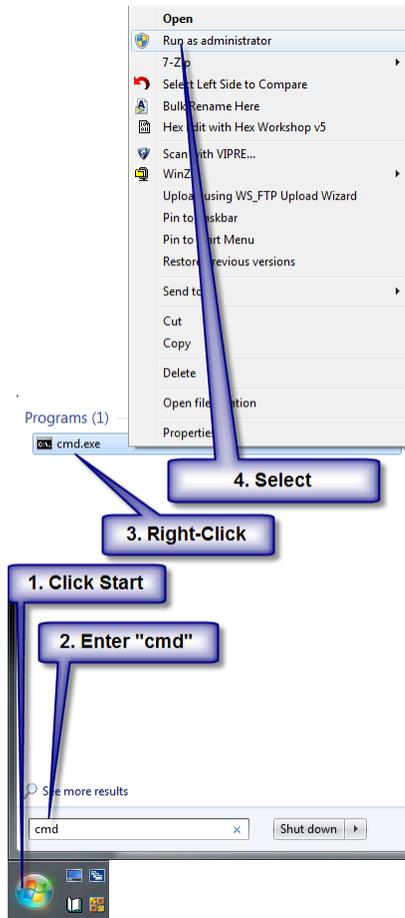
working all show "Active" in the License Administrator. Then, verify that the **Product** column and the **Platform** column both indicate the product that you are running. If you have old license keys (for Pervasive PSQL v9, for example), you may wish to remove them at this time to avoid confusion. You can verify the engine that was installed from the Control Panel's Add/Remove Programs applet. We have seen several sites install a Server Engine download from Pervasive, and then attempt to apply a Workgroup Engine license. Strangely, the License Administrator allows you to add a license for the wrong product without even a warning. The solution here is to remove the incorrect product and reinstall the correct version.

7. **Status 7224: Insufficient Rights:** If you have installed the Workgroup Engine as an Application and you lack true Administrator rights, then you may receive Status 7224 when you use the normal License Administrator. At this point, you have two options:
 - A) Uninstall the PSQL engine and reinstall it as a Service. The service is granted the needed rights during the install process, so this works just fine.
 - B) Activate the license from an elevated command prompt. These steps are shown below.

Working Around a Status 7224 Error Message

This is one of the most common issues with the License Administrator, and it appears on systems with User Account Controls enabled, like Windows 7. To work around this problem, carefully follow these steps:

1. Close the License Administrator and any other Pervasive applications.
2. Find the Pervasive Notification Viewer icon () in the system tray (the lower right corner by the clock), right-click on it, and select Exit.
3. Find the Pervasive Engine icon in the system tray, right-click and select **Stop Engines and Exit**. This will completely shut down the database engine.
4. Launch an elevated command prompt. If you have Windows 8, go to the Start screen and type in "Command". Press and hold (or right-click) on **Command Prompt**, then select **Run as administrator**. If you have Windows 7, start by finding a command prompt window (Click Start and type CMD into the window), then right-click the icon and select **Run as administrator**. You may see a UAC dialog box, so select **Yes** or provide login credentials if prompted. The graphic below shows you exactly what this will look like.



You should now have a new (black) command prompt window with full rights.

5. We now need to start the database engine with full rights. Enter W3DBSMGR.EXE at the prompt and press Enter.



You will get to another command line and the PSQL engine icon will load in the system tray.

6. Finally, use the command line license Administrator tool to apply your license, as described above. In short, enter the command “clilcadm -a <licensekey>”. The option (in this case, “-a”) *MUST* be in lowercase.



When you press Enter, the system should activate the license and display the confirmation message within about 30 seconds. If you are trying to deauthorize a license, use the same command but use “-d” instead of “-a”. To repair a license, use “-e” instead.

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7. Type EXIT to close the command prompt window, then reboot. You should find your license properly activated now.

If you have other problems with your license, we urge you to contact Actian directly at 1-800-BTRIEVE or on the web at <http://www.actian.com>. As a reseller, Goldstar Software is not able to address many licensing problems (like lost license keys) or to deactivate licenses. We are, of course, able to help in any other way with your PSQL engine, and you can contact us via telephone at 1-708-647-7665 or via the web at <http://www.goldstarsoftware.com>.