

Neurotechnology Products Activation

Standard

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1 About

Neurotechnology products should be activated before using SDK components. Products activation varies depending on what license you have.

1.1 Single computer license

Single computer license allows to install and run SDK product component installation on one computer processor core. Component license will not be lost if computer will be reinstalled.

The following license management options are available:

- license activation online by communicating with Neurotechnology's server
- license activation by email
- license activation using volume license manager
- license management using volume license manager on LAN or Internet

1.2 Volume license manager

Volume license manager is **used on site by integrators or end users** to manage obtained licenses for SDK components. It consists of license management software and a dongle, which is used to store the number of obtained licenses. An integrator or an end-user can use the volume license manager in the following ways:

- **Activating the single computer licenses.** An installation license for SDK component will be activated for using on a particular computer. The license quantity for the SDK component in the license manager will be decreased by the amount of activated licenses.
- **Managing the single computer licenses on LAN or Internet.** The license manager allows to manage installation licenses for SDK components across the computers on LAN or Internet. The number of managed licenses for a SDK component is limited by the number of licenses in the license manager. No license activation is needed and the license quantity is not decreased. Once issued, the license is assigned to certain computer on the network.
- **Using a license manager as a dongle.** The volume license manager containing at least one license for a SDK component can be used as a dongle that allows to run SDK component installation on a particular computer.

Additional SDK component installation licenses for the license manager can be purchased anytime. Neurotechnology will generate a special update file and send it to you. Then you will just have to enter file to the license manager to add these purchased licenses.

2 Products activation

You should activate SDK installation license before using SDK components.

Products can be activated automatically using Activation Wizard (📄 page 2) or manually (📄 page 4).

Activation files are placed in following directories (depends on operating system)

- bin/linux_x86/Activation
- bin/linux_x86_64/Activation
- bin/MacOSX/Activation
- bin/Win32_x86/Activation
- bin/Win64_x64/Activation

Notes

SDK installation licenses should be activated at every computer where SDK components are used.

2.1 Activation wizard

Activation files for Windows are located in the following folders:

- bin\Win32_x86\Activation (for 32 bit platform)
- bin\Win64_x64\Activation (for 64 bit platform)

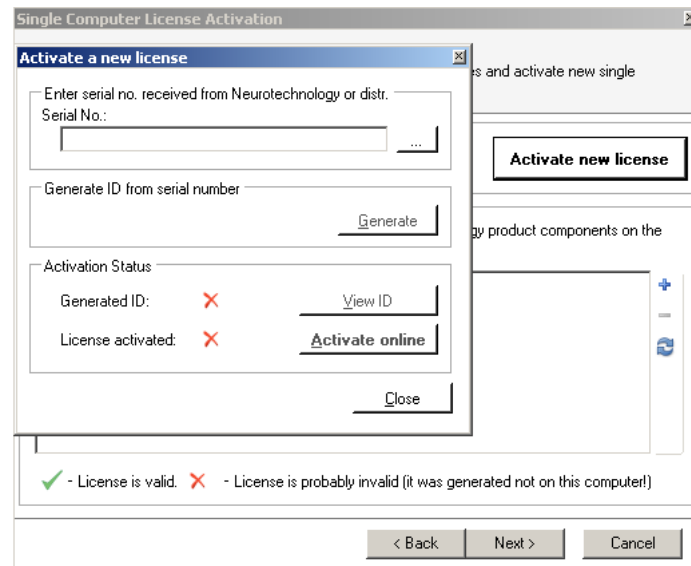
Windows users can activate SDK using Activation Wizard. It can be started by executing `ActivationWizardDotNet.exe` program from `bin\Win32_x86\Activation` or `bin\Win64_x64\Activation` directories depending on platform.

Notes

Activation Wizard requires Microsoft .NET Framework v2.0 or later. It can be downloaded from site: <http://www.microsoft.com/downloads/>.

2.1.1 Activating single computer license

1. Select *Single Computer license* in the first page of Activation Wizard and click *Next*.
2. **Generating ID file.** Received serial number(s) should be entered into the corresponding serial number field(s). Number of serial number fields depends on the product type. By pressing "**Generate**" computer ID file(s) will be generated. ID file(s) have to be activated in order to obtain license files for Neurotechnology product.
3. **Activating ID file.** If current PC is working with Internet connection, license can be activated by pressing "**Activate Online**" for corresponding Neurotechnology product. If internet connection is not available, computer ID(s) can be saved to file(s) (using View ID option) and activated via http://www.neurotechnology.com/software_activation.html or via e-mail. If you have trouble with activation, please contact: <support@neurotechnology.com> or your distributor.



4. Installing license file. The third step of the wizard may be started only when you received a license file from Neurotechnology or your distributor (after activating ID file in the previous step). If online activation was not used in step 3, please place license file to bin\Win32_x86\Activation or bin\Win64_x64\Activation depending on platform. Finally, click **"Install license manager service"**.

Should you have any problems, please see Troubleshooting (page 11) section.

Notes

When you activate new serial number, press the button "Activate new license". When you want to add activated license (e.g. in case you have reinstalled your operating system and want to add previously activated license), press the "plus" button which is shown on the right of "Single Computer License Activation" wizard and select activated license to be added.

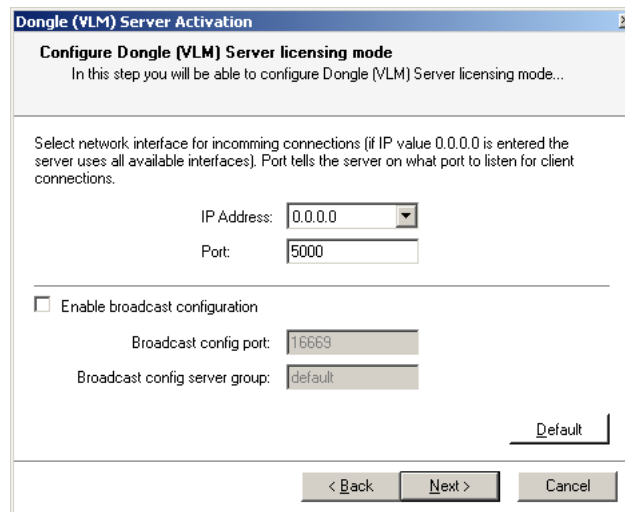
2.1.2 Using Volume license manager (dongle)

This section will guide you how to activate SDK using volume license manager (VLM).

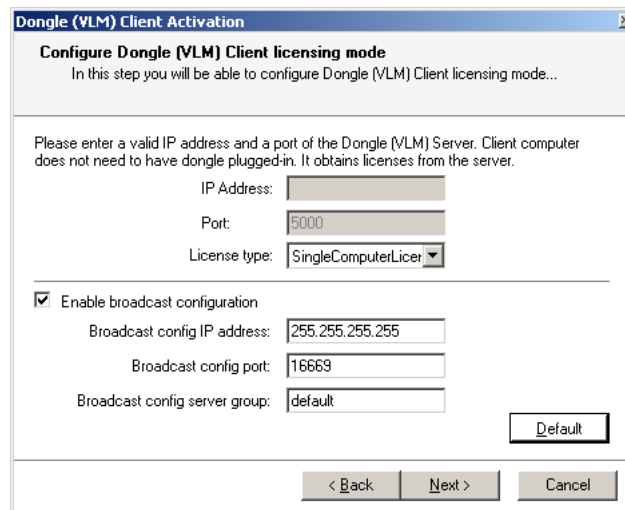
1. Select "Dongle (VLM) Server" or "Dongle (VLM) Client" in the first step of the Activation Wizard and click "Next".

a. In a case of server, you should select network interface for incoming connections (if IP value 0.0.0.0 is entered the server uses all available interfaces). Port tells the server on what port to listen for client connections.

On the computer where server is running and there are unused licenses in the dongle, Neurotechnology products will be registered.



b. In a case of client you should enter a valid IP address and a port of the server. Client computer does not need to have dongle plugged-in. It obtains licenses from server.



2. After license configuration is done you should **install license manager service**. You will be notified about installation results.

If all steps were successful you may test installation by running a sample application. If anything goes wrong, please refer to troubleshooting section.

2.2 Manual products activation

2.2.1 Single computer license

A single computer license allows running SDK component installation on one computer. Customers have to activate a license on each PC after installing SDK component.

pgd.conf file parameters:

Parameter	Single Computer License
Mode	<i>single</i> - default.
LicenseFile	License file path. If only license file is indicated without path the license file should be in the same as <i>pg.exe</i> or <i>pgd</i> directory.
LicenseType	<i>SingleComputerLicense</i> - default.

Windows

1. Generate computer id file

Please run *id_gen.exe* with parameters:

```
bin/Win/Activation/id_gen.exe serial_number_file id_file
```

Generates computer file *Neurotechnology.id*. Example:

```
id_gen.exe sn.txt Neurotechnology.id
```

sn.txt - file with serial number

Neurotechnology.id - computer id file

2. Obtain license file

Send the created *Neurotechnology.id* file to Neurotechnology (sales@neurotechnology.com) or distributor from which SDK was acquired. Then save received SDK license file (*.lic) in the same directory where *pg.exe*.

3. License file location

pgd.conf shows the license file location. Examples:

```
LicenseFile = MMClient.lic
```

shows that license file *MMClient.lic* is in the same directory where *pg.exe*.

4. Creating Neurotechnology service

Run "register.bat" or run command

```
pg.exe -install
```

Make sure that Neurotechnology service is running while using SDK and *pgd.conf* shows the right license file place. To find the service look to "Start -> Control Panel -> Administrative Tools -> Services -> Neurotechnology". Make sure that service is started.

pgd.conf example:

```
LicenseFile = MMC.lic
Mode = single
LicenseType = SingleComputerLicense
```

Linux

1. Generate computer id file

To generate *Neurotechnology.id* file please use *id_gen* in appropriate directory:

```
bin/linux/Activation/id_gen serial_number_file id_file
```

For example:

```
./id_gen sn.txt Neurotechnology.id
```

sn.txt - file with serial number

Neurotechnology.id - computer id file

2. Get license file

Send the created `Neurotechnology.id` file to Neurotechnology (sales@neurotechnology.com) or distributor from which SDK was acquired. Then save received SDK license (*.lic) file in the same directory where `pgd` is located.

3. License file location

Check SDK license (*.lic) file location in `pgd.conf`. For example:

```
LicenseFile = MMClient.lic
```

shows that license file must be in current directory.

4. Running Neurotechnology service

Please run

```
./run_pgd.sh start
```

Make sure that Neurotechnology service is running while using SDK ("`./run_pgd.sh log`" command can be used to test status) and `pgd.conf` shows the right license file place.

`pgd.conf` example:

```
LicenseFile = MMC.lic
Mode = single
LicenseType = SingleComputerLicense
```

2.2.2 Volume license manager (dongle)

2.2.2.1 Generating licenses for single computers activation

Neurotechnology SDKs customers can generate single computer licenses independently from Neurotechnology. Neurotechnology provides USB dongle with amount of specified products licenses. In this case customers should develop their own licenses managing software which will be used to generate single computer licenses from a dongle. Licenses managing software is developed using License Manager API which is included into SDK. For more information about License Manager API read documentation in SDK (\Tools\LicenseManager_API\Documentation folder).

2.2.2.2 Managing licenses on network

The license manager allows sharing SDK installation licenses across the computers on the same local area network. The number of shared licenses is limited by the number of licenses in the attached dongle.

To share licenses on the network, Neurotechnology service configured as **server** (License server) must be run on one PC and dongle should be plugged in. In addition Neurotechnology service configured as **client** (Dongle (VLM) Client) must be run on all other PC that are using SDK.

`pgd.conf` files parameters:

Parameter	Dongle (VLM) Server	Dongle (VLM) Client
Mode	<i>server</i> , <i>dongle</i> - are synonyms, the functionality is the same.	<i>gateway</i>
Address	IP address or host name of network card for incoming connections. 0.0.0.0 - default.	License server address or host name
Port	Port to listen. 5000 - default.	License server port. 5000 - default.

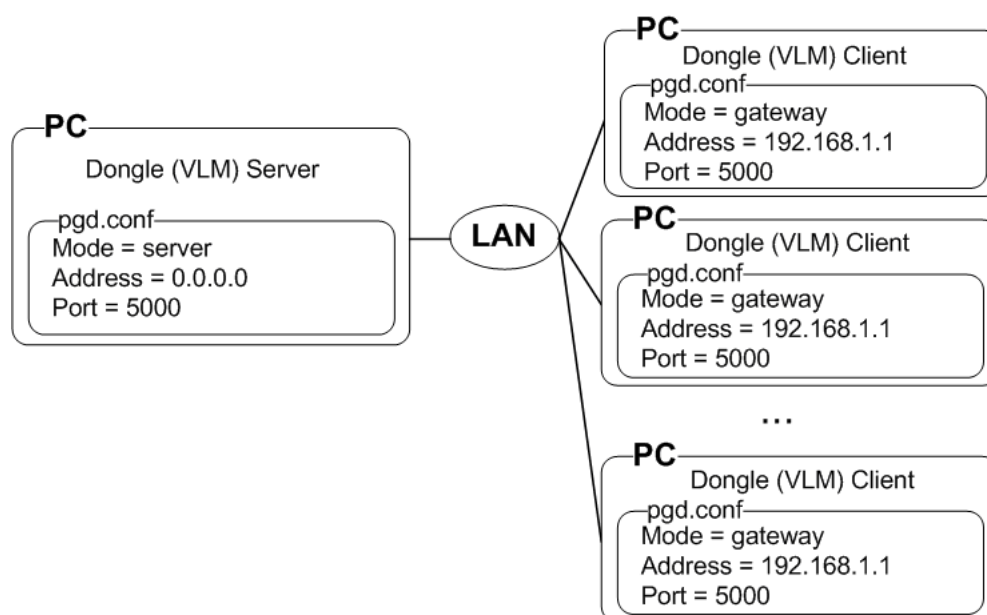
LicenseType		<i>Concurrent, SingleComputerLicense. SingleComputerLicense</i> - default.
BroadcastConfig	1 - enables automatic configuration. 0 - disables automatic configuration. 0 - default.	1 - enables automatic configuration. 0 - disables automatic configuration. 1 - default.
BroadcastConfigPort	Automatic configuration port. 16669 - default.	Automatic configuration port. 16669 - default.
BroadcastServerGroup	Broadcast server name. Used with more than one dongle on the same network. <i>default</i> - default.	Broadcast server name. Used with more than one dongle on the same network. <i>default</i> - default.
BroadcastAddress		Broadcast destination address. 255.255.255.255 - default.

2.2.2.3 Server setup

Plug in dongle into Server computer and configure pgd.conf file. This file should have following structure:

```
Mode = server # "server" is mandatory here to run as LAN manager(Dongle (VLM) Server)
Address = 0.0.0.0 # <IP address of network card for incoming connections>
Port = 5000 # <port, to listen>
```

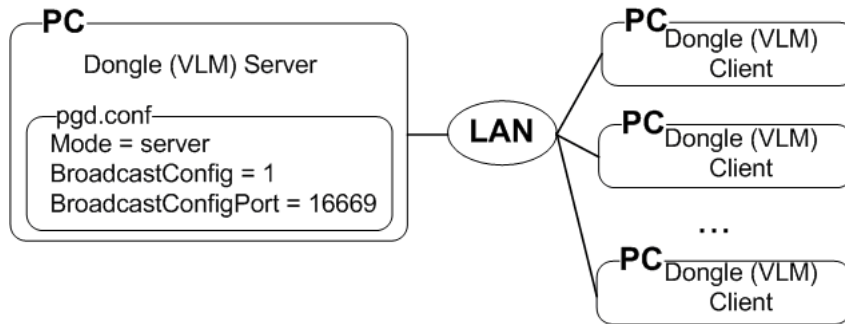
Note: if 0.0.0.0 is used as address server will listen to all IP addresses used in networks cards.



Automatic configuration

In automatic configuration case file should have following structure:

```
Mode = server
BroadcastConfig = 1
BroadcastConfigPort = 16669 # 16669 is default broadcast configuration port
```



Windows

Create Neurotechnology service

Run "register.bat" or following command:

```
pg.exe -install
```

Make sure that Neurotechnology service is running while using SDK. To find the service look to "Start -> Control Panel -> Administrative Tools -> Services -> Neurotechnology". Make sure that service is started.

Linux

Run Neurotechnology service. Please run

```
./run_pgd.sh start
```

Make sure that Neurotechnology service is running while using SDK ("./run_pgd.sh log" command can be used to test status).

2.2.2.4 Client setup

pgd.conf file should have the following structure:

```
Mode = gateway # "gateway" is mandatory here to run as LAN client (Dongle (VLM) Client)
Address = 192.168.1.1 # <license server address>
Port = 5000 # <license server port>
LicenseType = Concurrent # Concurrent or SingleComputerLicense
```

2.2.2.5 Automatic configuration

Client does not need pgd.conf file using automatic configuration.

To change automatic configuration default port (16669) it is necessary to use pgd.conf file and BroadcastConfig, BroadcastConfigPort parameters.

pgd.conf file example:

```
BroadcastConfig = 1
BroadcastConfigPort = 16600
```

Windows

Creating Neurotechnology service Run "register.bat" or following command:

```
pg.exe -install
```

Make sure that Neurotechnology service is running while using SDK. To find the service look to "Start -> Control Panel -> Administrative Tools -> Services -> Neurotechnology". Make sure that service is started.

Linux

Run Neurotechnology service. Please run

```
./run_pgd.sh start
```

Make sure that Neurotechnology service is running while using SDK ("`./run_pgd.sh log`" command can be used to test status).

2.3 Using licenses manager as a dongle

To use license manager as a dongle setup Neurotechnology service configured as server on PC that is using SDK. Service configured as client is not needed. See Server setup (📖 page 7).

Make sure that Neurotechnology service is running while using SDK. To find the service on Windows look to "Start -> Control Panel -> Administrative Tools -> Services -> Neurotechnology", on Linux "`./run_pgd.sh log`" command can be used to test status. Make sure that service is started.

2.4 Activation on Linux and Mac OS X

Note: SentiSight SDK, MegaMatcher SDK and VeriLook Surveillance SDK do not support Mac OS X.

2.4.1 Single computer license

1. Generate computer id file

To generate `Neurotechnology.id` file please use `id_gen` in appropriate directory:

`bin/linux_x86/Activation/id_gen` (32bit Linux platform)

`bin/linux_x86_64/Activation/id_gen` (64bit Linux platform)

`bin/MacOSX/Activation/id_gen` (OS X platform)

For example:

```
./id_gen sn.txt Neurotechnology.id
```

`sn.txt` - file with serial number

`Neurotechnology.id` - computer id file

2. Obtain license file

Online activation is done by using site: http://www.neurotechnology.com/software_activation.html Alternatively, id file can be sent to Neurotechnology (sales@neurotechnology.com) or distributor from which SDK was acquired. Please use it only when online activation fails. Generated license file should be saved in the same folder as pg (bin\linux_x86\Activation or bin\linux_x86_64\Activation depending on platform).

3. Running Neurotechnology service

Please run

```
./run_pgd.sh start
```

Make sure that Neurotechnology service is running while using SDK ("`./run_pgd.sh log`" command can be used to test status) and `pgd.conf` shows the right license file place.

2.4.2 Volume license manager

The license manager allows sharing product based on Neurotechnology technology licenses across the computers on the same local area network. The number of shared licenses is limited by the number of licenses in the attached dongle.

Server setup

Server serves licenses to client and allows activation on local computer. Licensing server must have USB dongle plugged in. "pgd.conf" file should have following structure:

```
Mode = server # "server" is mandatory here to run as LAN manager (Dongle (VLM) Server)
Address = 0.0.0.0 # IP address of network card for incoming connections
Port = 5000 # port, to listen
```

Note: if 0.0.0.0 is used as address server will listen to all IP addresses used in network cards.

Run Neurotechnology service

```
./run_pgd.sh start
```

Make sure that Neurotechnology service is running while ("./run_pgd.sh log" command can be used to test status).

Client setup

Client obtains license(s) from remote server which distributes licenses. "pgd.conf" file should have following structure:

```
Mode = gateway # "gateway" is mandatory here to run as LAN client (Dongle (VLM) Client)
Address = 192.168.1.1 # license server address
Port = 5000 # license server port
```

Please run Neurotechnology service

```
./run_pgd.sh start
```

Make sure that Neurotechnology service is running while using SDK (./run_pgd.sh log command can be used to test status).

3 Troubleshooting

If you encounter problems while installing or using the SDK, please contact Neurotechnology Support Department support@neurotechnology.com or your local distributor. It is desirable to send us additional information about your PC configuration and installation details:

1. Switch to the "Diagnostic" window in the Activation Wizard.
2. Copy the contents of the window to the clipboard or save the text to a file.
3. Paste the information to the email message or attach the file with the saved text.