



# Neurotechnology Products Activation

Trial

**Version:** 9.0.0.0.

**Release date:** 4/26/2017.

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# 1 About

Neurotechnology products should be activated before using SDK components. If you do not activate the SDK after you install it, you cannot use the major functionality of SDK. We ask you to activate your product to verify that your installation is performed with a genuine Neurotechnology product. Also, product activation ensures that the product license has not been used on more devices than are permitted by the license agreement.

SDK activation is required for all purchased licenses, standard or extended versions of SDK and trial product versions. When you activate your SDK or license, no personal information is sent to Neurotechnology.

The easiest way to activate a license (SDK) is to run the *Activation wizard*. This tool helps to activate licenses using step-by-step instructions. Activation wizard is run with *Setup.exe* on Windows or, if you prefer a manual installation, it should be run after saving SDK package from `Bin\[platform]\Activation` directory (*ActivationWizard.exe* for Win32\_x86 and Win64\_x64 platforms).

## Notes

Activation wizard can be used only on Windows. Licenses for Mac OS and Linux should be activated manually as described in this [Activation.pdf](#)

## 2 Trial products activation

### 2.1 Requirements

All Neurotechnology trial products allow 30 days trial period. After this period you will not be allowed to use trial product.

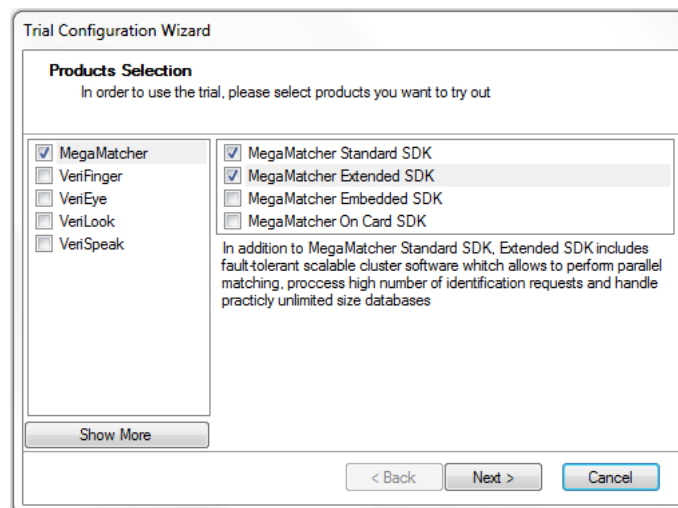
The following requirements should be met when using trial products:

- **Internet connection.** To use trial product, you must have constant internet connection. Otherwise, you will not be able to use trial product.
- **Activate trial version.** The activation can be performed by two methods: Activation Wizard (page 2) (only for Windows) or Configuration file (page 4) (for all platforms). Read the next sections of this document for activation instructions.
- **Use only trial product on a computer.** If you want to use one of the Neurotechnology trial products, you are not allowed to use any of Neurotechnology licensed products on the same computer at the same time. If you have several licensed products running on a computer, activation services should be stopped when using trial products. This is done during trial products activation.

### 2.2 Activation wizard for Windows

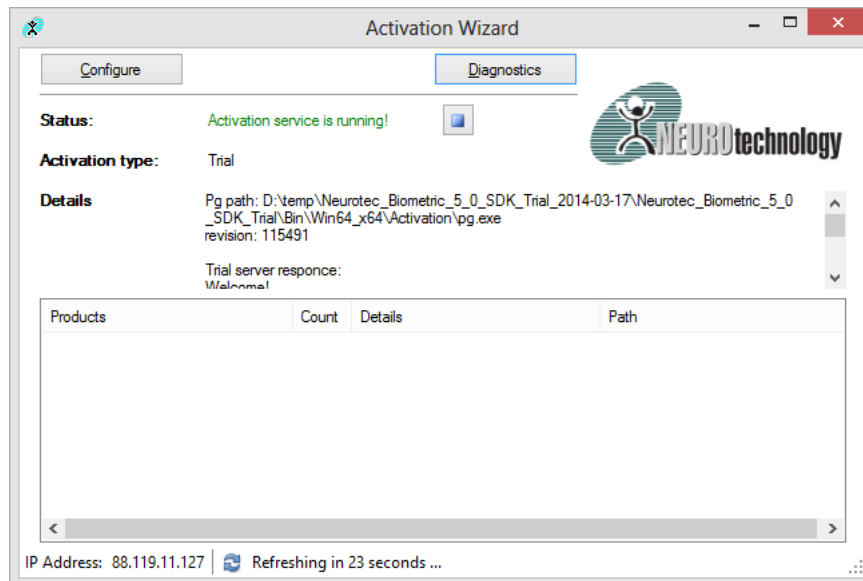
Activation Wizard is application which allows activate trial products. Activation Wizard can be used **only in Windows OS**. This application (ActivationWizard.exe file) is located under bin\Win32\_x86\Activation or bin\Win64\_x64\Activation folders of downloaded SDK's distribution. Follow these instructions to activate your trial version of SDK:

1. Start Activation wizard application:



In this window you can select the product (or products) which will be used for trial purposes. When products were selected, Activation wizard will generate NLicensing.cfg file to the same directory.

2. Press *Next* button and start Activation service (*pg.exe*) using the button on the right:



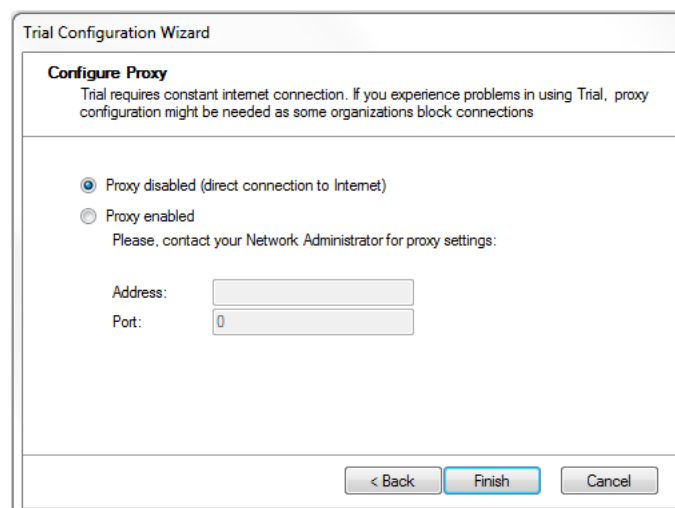
This window displays general information about product: time left for trial products, local and external IP addresses, licensing information (location of licensing service, configuration file mode and licensing file log).

3. If you want to add, remove or change product trial licenses, you should click the *Configure* button. It will open a window identical to the trial product selection window. Note, that if you choose different trial product licenses they will replace the current trial licenses.

4. If you have other Neurotechnology products running on computer, after starting *Activation Wizard* you will see dialog box prompting you to stop running licensing services (standard PC protection type).

If you choose *Yes*, running licensing services will be stopped and you'll be able to activate and use Trial product. But if standard PC protection type licensing services will be stopped, you will not be able to use licensed products. If you need to use licensed product again, stop trial product licensing service and start the one of licensed product.

5. If you do not have direct access to the internet, you can set-up trial product to work through proxy server. Proxy server settings can be entered in *Connection Settings* window. Choose *Settings->Proxy* from menu in *Activation Wizard*:



By default *Disabled* option is selected. This means that your computer is connected to the internet directly. If you use proxy server for connecting the internet, enable proxy by entering these settings:

- **Address.** IP address of your proxy server (e.g., <http://192.168.2.10>).

- **Port.** Number of port for proxy server connections.

When you finish activation, Neurotechnology licensing service (*pg.exe*) will be running in a background and fully functioning SDK will be available for the period of 30 days.

#### Notes

If you need to use licensed product, stop trial product licensing service and start the one of licensed product. *Activation.pdf* explains how to activate the Standard or Extended version of SDK.

## 2.3 Configuration file for Linux and Mac OS X

Trial products can also be activated manually by customizing configuration file and starting licensing service manually. This licensing option is used for **Linux** and **Mac OS X** operating systems (if product supports them) or when Activation wizard for Windows can not be used. In this case a client should edit configuration file (*pgd.conf*) manually.

Activation configuration file (*pgd.conf*) should be saved in *Activation* folder of the SDK (*Bin\[platform]\Activation*). For Windows platforms (*Win32\_x86* and *Win64\_x64*) user should create and save this file in *Activation* folder (also this file is created when Activation wizard is used). Linux and Mac OS X (*Linux\_x86*, *Linux\_x86\_64*, *MacOSX\_universal*) have *pgd.Sample.conf* file which can be edited and renamed.

When you open *pgd.Sample.conf* you will see these settings:

- **mode** – activation mode. 3 modes are available: single, server and gateway. When using trial product *Server* should be used.
- **address** - IP address of a proxy server. It is an advanced setting when you are using proxy server for activation.
- **port** - number of port for proxy server connections.

If proxy server is not used, *port* and *address* fields is not required.

Example (when proxy server is not used):

```
Mode = server
```

Example (when proxy server is used):

```
Mode = server
address = http://192.168.2.10
port = 80
```

After the configuration file was added to an appropriate folder, licensing service should be started. To install licensing service on Windows, run this in command line (*pg.exe* is saved in *Activation* folder):

```
pg.exe -install
```

If you need to stop licensing service, you can run this command:

```
pg.exe -uninstall
```

**Note:** licensing service should be run with administrator privileges. If you are using command prompt, run it as an administrator.

It is recommended to use Activation wizard (📄 page 2) for Windows.

To install licensing service on Linux and Mac OS X, run this command line:

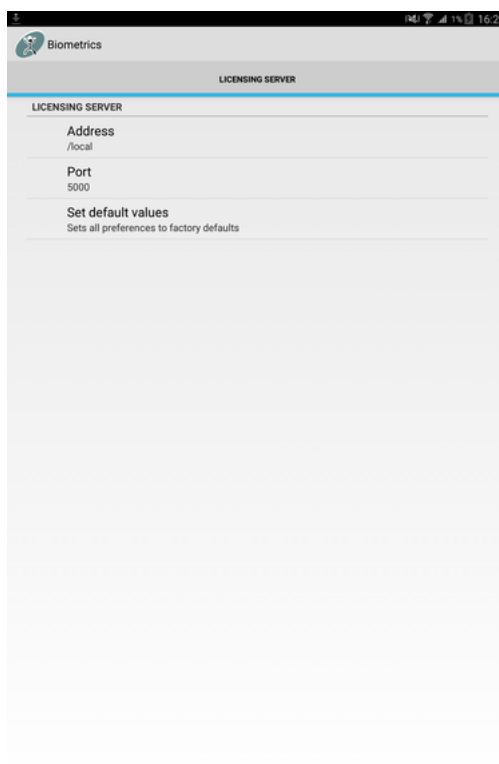
```
./pgd or ./run_pgd.sh
```

## 2.4 Activation for Android

Trial license for Android is automatically activated when *Multibiometric Sample* package for Android is installed. This package (multibiometric-sample.apk) is saved in Bin\Android folder of the downloaded Neurotechnology SDK. Copy this file to your Android device and launch it. It will install 4 application on your device: *VeriEye* (for irises recognition), *VeriFinger* (for fingerprints recognition), *VeriLook* (for faces recognition) and *VeriSpeak* (for speaker recognition).

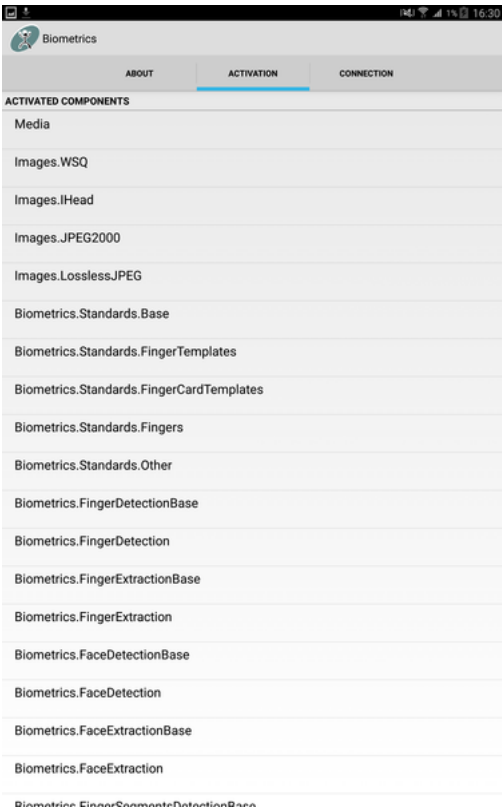
**Note:** samples installation can be run only when installation from *Unknown sources* is enabled. Go to your Android device settings and enable *General->Security->Unknown sources*.

When you finish installation from *multibiometric-sample.apk*, run one of the installed samples. Trial license will be obtained. If you do not have direct access to the internet, you can set-up trial product to work through proxy server. Proxy server settings can be entered in *Connection Settings* window. Choose *Settings->Activation* in the right corner. In this window you can configure licensing server - specify address and port:



Also, when you select *Settings->About* (page 1)->*Activation*, you can check which components were activated.





Notes

Usage of the Trial SDK is limited up-to 30 days. Trial SDK requires constant internet connection.

## 3 Licenses obtain in your application

When you have activated a license(s), you can start using licensed biometric components in your application. Before using licensed functionality in your application, you should obtain licenses for each component. Some usage examples:

- Fingerprint enrollment from a scanner requires licenses for these components: *Biometrics.FingerExtraction, Devices.FingerScanners*.
- Face verification requires licenses for these components: *Biometrics.FaceExtraction, Biometrics.FaceMatching*.
- Facial features detection: *Biometrics.FaceDetection, Biometrics.FaceExtraction, Biometrics.FaceSegmentsDetection*.

Basically, each Neurotechnology API component requires a license. Developer's guide (e.g. *Neurotechnology Biometric SDK.pdf*) saved in *Documentation* folder of the SDK has the chapter named *Licensed API functionality* (About (🔗 page 1)->Licensing). This section lists down which API functionality is enabled by which license. Using the table from this section you can check if a particular component is unlocked by the license you have. For example, if you have bought *Fingerprint Client* license then you can use such components as *Biometrics.FingerExtraction, Biometrics.FingerDetection* or *Media*. But if you need to perform fingerprint segmentation which is accessed from *Biometrics.FingerSegmentation* component, you should purchase additional license *Fingerprint Segmenter*.

Sometimes it can be a tricky task to decide which component you should use and which licenses are required. SDK includes tutorials (*/Tutorials* folder) for C/C#/VB.NET/Java languages which demonstrate how to perform a biometric task and how to obtain and release licenses. Also previously mentioned Developer's guide includes *API Reference* documentation.

Let's see how licenses are obtained in *Detect facial features* tutorial for C#:

```
//...
// Let's specify licensed components names. These names are taken from the previously
// mentioned table
// Face detection and face features detection are performed by NBiometricClient.
// Face segments detection is defined as an additional component, because face
// detection/extraction and segmentation
// are separate tasks and may require separate licenses.
string components = "Biometrics.FaceDetection,Biometrics.FaceExtraction";
const string AdditionalComponents = "Biometrics.FaceSegmentsDetection";
//Now let's try to obtain these licenses:
try
{
    // Obtains licenses for specified "components" from licenses manager server "local" using
    // "5000" server's port
    if (!NLicense.ObtainComponents("/local", 5000, components))
    {
        throw new ApplicationException(string.Format("Could not obtain licenses for components:
{0}", components));
    }
    if (NLicense.ObtainComponents("/local", 5000, AdditionalComponents))
    {
        components += "," + AdditionalComponents;
    }

    // Perform Facial features detection. See tutorial source code
}
//It is required to release licenses after biometric task was performed
finally
{
    NLicense.ReleaseComponents(components);
}
```

As you see, licenses are obtained using `NLicense.ObtainComponents()` function/method and released when not used with `NLicense.ReleaseComponents()`. Licenses for components are obtained in the same way for other biometric tasks.

You should note that all activated licenses by default should be saved in *Licenses* folder in the root directory of your

application (single licenses scenario). If you need to change the location of licenses ([license\_name].lic files) you should call `NLicense.Add()` function/method from your application and manually set each activated license file content.

## 4 Troubleshooting

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

On **Windows**, the PC information should be obtained through Activation Wizard:

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.

On **Linux**, the PC information should be obtained in following way:

1. Run the `diagnostic_report.sh` script in `Bin/Linux_x86/Activation` or `Bin/Linux_x86_64/Activation` directory (use directory for your architecture). The script must be run as superuser (root).
2. Copy the output to the clipboard or save to a file.
3. Paste the information to the email message or attach the file with the saved text.