



Diagnostics API

User's guide

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1 Preface

Brief information about this user's guide:

- **Publish date:** 3/31/2014
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2 API Reference

This chapter contains API reference for Diagnostics API. Diagnostics API is intended to be used by developers using Neurotechnology SDKs. It simplifies installed SDK maintenance and installing process. API is available through Neurotec.Diagnostics.dll library.


Namespaces

Name	Description
Neurotec.Diagnostics (📄 page 2)	Neurotechnology products namespace.

2.1 Neurotec.Diagnostics Namespace

Neurotechnology products namespace.

Classes

	Name	Description
	DiagnosticsAPI (📄 page 2)	General diagnostics class for diagnostic information retrieval.


Structs, Records, Enums

	Name	Description
	DiagnosticAPIProductId (📄 page 5)	Product IDs for different Neurotechnology products.

2.1.1 Classes

The following table lists classes in this documentation.

Classes

	Name	Description
	DiagnosticsAPI (📄 page 2)	General diagnostics class for diagnostic information retrieval.






2.1.1.1 DiagnosticsAPI Class






General diagnostics class for diagnostic information retrieval.

C#

```
public class DiagnosticsAPI;
```

DiagnosticsAPI Methods

	Name	Description
	GetComLibsAndFPSmmContents (📄 page 3)	Returns the information about the FPSscannerManCom installed and contents of FPSmm folder details.
	GetGeneralInfo (📄 page 3)	Returns general information about the computer:
	GetInstalledRuntimesInfo (📄 page 3)	Returns information about installed C++ runtimes.
	GetMyIP (📄 page 3)	Returns IP address of current computer.
	GetPathEnvVariable (📄 page 4)	Returns the PATH environmental variable.

	GetRegisteredComponents (page 4)	Gets the information about registered components of the product in the defined folder.
	GetRunningPglInfo (page 4)	Returns information about the running Protection Governor (PG).
	GetTrialTimeLeft (page 4)	Returns information about the trial time left for current IP.
	TestTrialServerHttp (page 4)	Sends Http web request to test trial server response.
	TestTrialServerSockets (page 5)	Test trial server's sockets.

2.1.1.1.1 DiagnosticsAPI Methods

2.1.1.1.1.1 DiagnosticsAPI.GetComLibsAndFPSmmContents Method

Returns the information about the FPSscannerManCom installed and contents of FPSmm folder details.

C#

```
public static string GetComLibsAndFPSmmContents(string folder);
```

Parameters

Parameters	Description
string folder	Folder to look in (if null or empty, then current directory will be used).

Returns

String with FPSscannerManCom and FPSmm information.

2.1.1.1.1.2 DiagnosticsAPI.GetGeneralInfo Method

Returns general information about the computer:

C#

```
public static string GetGeneralInfo();
```

Returns

String that contains general information about the computer:

1. Windows version
2. CPU information
3. RAM information

2.1.1.1.1.3 DiagnosticsAPI.GetInstalledRuntimesInfo Method

Returns information about installed C++ runtimes.

C#

```
public static string GetInstalledRuntimesInfo();
```

Returns

String with information is returned.

2.1.1.1.1.4 DiagnosticsAPI.GetMyIP Method

Returns IP address of current computer.

C#

```
public static string GetMyIP();
```

Returns

String that contains IP address of current computer.

2.1.1.1.1.5 DiagnosticsAPI.GetPathEnvVariable Method

Returns the PATH environmental variable.

C#

```
public static string GetPathEnvVariable();
```

Returns

String that contains PATH environmental variable.

2.1.1.1.1.6 DiagnosticsAPI.GetRegisteredComponents Method

Gets the information about registered components of the product in the defined folder.

C#

```
public static string GetRegisteredComponents(DiagnosticAPIProductId id, string folder);
```

Parameters

Parameters	Description
DiagnosticAPIProductId id	Id of the product
string folder	Folder to look in. (if null or empty, then current directory will be used)

Returns

String with information is returned.

Exceptions

Exceptions	Description
Exception	Can not retrieve information about registered components.

2.1.1.1.1.7 DiagnosticsAPI.GetRunningPgInfo Method

Returns information about the running Protection Governor (PG).

C#

```
public static string GetRunningPgInfo();
```

Returns

String with information about running PG :

1. Information about the pg.exe.
2. Information from pgd.conf file.
3. Information from pgd.log file.

2.1.1.1.1.8 DiagnosticsAPI.GetTrialTimeLeft Method

Returns information about the trial time left for current IP.

C#

```
public static string GetTrialTimeLeft();
```

Returns

String that contains remaining trial time.

2.1.1.1.1.9 DiagnosticsAPI.TestTrialServerHttp Method

Sends Http web request to test trial server response.

C#

```
public static string TestTrialServerHttp();
```

Returns

String that contains responses from trial server.

Exceptions

Exceptions	Description
Exception	Error occured when sending or retrieving http response.

2.1.1.1.10 DiagnosticsAPI.TestTrialServerSockets Method

Test trial server's sockets.

C#

```
public static string TestTrialServerSockets();
```

Returns

String that contains trial server sockets test result.

2.1.2 Structs, Records, Enums

The following table lists structs, records, enums in this documentation.

Enumerations

	Name	Description
	DiagnosticAPIProductId (🔗 page 5)	Product IDs for different Neurotechnology products.

2.1.2.1 Neurotec.Diagnostics.DiagnosticAPIProductId Enumeration

Product IDs for different Neurotechnology products.

C#

```
public enum DiagnosticAPIProductId : int {  
    VeriFinger = 1,  
    VeriFinger_Extended = 2,  
    VeriLook = 3,  
    VeriLook_Extended = 4,  
    VeriEye = 5,  
    VeriEye_Extended = 6,  
    MegaMatcher_Extended = 7,  
    MegaMatcher = 8,  
    SentiSight = 9  
}
```

Members

Members	Description
VeriFinger = 1	VeriFinger SDK product ID number.
VeriFinger_Extended = 2	VeriFinger Extended SDK product ID number.
VeriLook = 3	VeriLook SDK product ID number.
VeriLook_Extended = 4	VeriLook Extended product ID number.
VeriEye = 5	VeriEye SDK product ID number.
VeriEye_Extended = 6	VeriEye Extended SDK product ID number.

MegaMatcher_Extended = 7	MegaMatcher Extended SDK product ID number.
MegaMatcher = 8	MegaMatcher SDK product ID number.
SentiSight = 9	SentiSight SDK product ID number.