

## Class Library Documentation for Neo smartpen SDK

# Neosmartpen.Net Namespace

## ► Classes

	Class	Description
	<a href="#">Dot</a>	Represents coordinate information is detected by sensor of pen.
	<a href="#">Stroke</a>	Represents coordinate of stroke. It consist of Dot's Collection.

## ► Interfaces

	Interface	Description
	<a href="#">IPenComm</a>	Interface of PenCommXXX object

## ► Enumerations

	Enumeration	Description
	<a href="#">DotTypes</a>	Type of Dot object.

## Class Library Documentation for Neo smartpen SDK

# Dot Class

Represents coordinate information is detected by sensor of pen.

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.NetDot](#)

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public class Dot
```

[Copy](#)

The [Dot](#) type exposes the following members.

## ► Constructors

Name	Description
 <a href="#">Dot</a>	A constructor that constructs a Dot object
 <a href="#">Dot(Int32, Int32, Int32, Int32, Int64, Int32, Int32, Int32, Int32, Int32, DotTypes, Int32)</a>	A constructor that constructs a Dot object



`Dot(Int32, Int32, Int32, Int32,  
Int64, Int32, Int32, Int32, Int32,  
Int32, Int32, Int32, Int32,  
DotTypes, Int32)`

A  
constructor  
that  
constructs a  
Dot object

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## ► Properties

	Name	Description
	<code>Color</code>	Gets or sets the color of the dot
	<code>DotType</code>	Gets or sets the type of the dot
	<code>Force</code>	Gets or sets the pressure of the dot
	<code>Fx</code>	Gets or sets the fractional part of NCode x coordinates. ( maximum value is 100 )
	<code>Fy</code>	Gets or sets the fractional part of NCode y coordinates. ( maximum value is 100 )
	<code>Note</code>	The Note Id of the NCode paper
	<code>Owner</code>	The Owner Id of the NCode paper
	<code>Page</code>	The Page Number of the NCode paper
	<code>Section</code>	The Section Id of the NCode paper



[TiltX](#)



[TiltY](#)



[Timestamp](#) Gets or sets the timestamp of the dot



[Twist](#)



[X](#)

Gets or sets the x coordinates of NCode cell. ( NCode's cell size is 2.371mm )



[Y](#)

Gets or sets the y coordinates of NCode cell. ( NCode's cell size is 2.371mm )

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## ▲ Methods

	Name	Description
	<a href="#">Clone</a>	
	<a href="#">ToString</a>	(Overrides <a href="#">Object.ToString()</a> .)

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## ▲ See Also

[Reference](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Dot Constructor

## ► Overload List

Name	Description
 <a href="#">Dot</a>	A constructor that constructs a Dot object
 <a href="#">Dot(Int32, Int32, Int32, Int32, Int64, Int32, Int32, Int32, Int32, Int32, DotTypes, Int32)</a>	A constructor that constructs a Dot object
 <a href="#">Dot(Int32, Int32, Int32, Int32, Int64, Int32, Int32, Int32, Int32, Int32, Int32, DotTypes, Int32)</a>	A constructor that constructs a Dot object

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## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Dot Constructor

A constructor that constructs a Dot object

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public Dot()
```

[Copy](#)

## ► See Also

[Reference](#)

[Dot Class](#)

[Dot Overload](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Dot Constructor (Int32, Int32, Int32, Int32, Int64, Int32, Int32, Int32, Int32, DotTypes, Int32)

A constructor that constructs a Dot object

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public Dot(  
    int owner,  
    int section,  
    int note,  
    int page,  
    long timestamp,  
    int x,  
    int y,  
    int fx,  
    int fy,  
    int force,  
    DotTypes type,  
    int color  
)
```

### Parameters

*owner*

Type: [SystemInt32](#)

The Owner Id of the NCode paper

*section*

Type: [SystemInt32](#)

The Section Id of the NCode paper

*note*

Type: [SystemInt32](#)

The Note Id of the NCode paper

*page*

Type: [SystemInt32](#)

The Page Number of the NCode paper

*timestamp*

Type: [SystemInt64](#)

the timestamp of the dot

*x*

Type: [SystemInt32](#)

the x coordinates of NCode cell

*y*

Type: [SystemInt32](#)

the y coordinates of NCode cell

*fx*

Type: [SystemInt32](#)

the fractional part of NCode x coordinates

Type: [SystemInt32](#)

the fractional part of NCode y coordinates

*force*

Type: [SystemInt32](#)

the pressure of the dot

*type*

Type: [Neosmartpen.NetDotTypes](#)

the type of the dot

*color*

Type: [SystemInt32](#)

the color of the dot

## ► See Also

Reference

[Dot Class](#)

[Dot Overload](#)

[Neosmartpen.Net Namespace](#)

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## Class Library Documentation for Neo smartpen SDK

# Dot Constructor (Int32, Int32, Int32, Int32, Int64, Int32, Int32, Int32, Int32, Int32, Int32, Int32, Int32, DotTypes, Int32)

A constructor that constructs a Dot object

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public Dot(  
    int owner,  
    int section,  
    int note,  
    int page,  
    long timestamp,  
    int x,  
    int y,  
    int fx,  
    int fy,  
    int tiltX,  
    int tiltY,  
    int twist,  
    int force,  
    DotTypes type,  
    int color  
)
```

## Parameters

*owner*

Type: [SystemInt32](#)

The Owner Id of the NCode paper

*section*

Type: [SystemInt32](#)

The Section Id of the NCode paper

*note*

Type: [SystemInt32](#)

The Note Id of the NCode paper

*page*

Type: [SystemInt32](#)

The Page Number of the NCode paper

*timestamp*

Type: [SystemInt64](#)

the timestamp of the dot

*x*

Type: [SystemInt32](#)

the x coordinates of NCode cell

*y*

Type: [SystemInt32](#)

the y coordinates of NCode cell

*fx*

Type: [SystemInt32](#)

the fractional part of NCode x coordinates

Type: [SystemInt32](#)

the fractional part of NCode y coordinates

*tiltX*

Type: [SystemInt32](#)

[Missing <param name="tiltX"/> documentation for

"M:Neosmartpen.Net.Dot.#ctor(System.Int32, System.Int32, System.

*tiltY*

Type: [SystemInt32](#)

[Missing <param name="tiltY"/> documentation for

"M:Neosmartpen.Net.Dot.#ctor(System.Int32, System.Int32, System.

*twist*

Type: [SystemInt32](#)

[Missing <param name="twist"/> documentation for  
"M:Neosmartpen.Net.Dot.#ctor(System.Int32,System.Int32,System.

*force*

Type: [SystemInt32](#)

the pressure of the dot

*type*

Type: [Neosmartpen.NetDotTypes](#)

the type of the dot

*color*

Type: [SystemInt32](#)

the color of the dot

## ► See Also

[Reference](#)

[Dot Class](#)

[Dot Overload](#)

[Neosmartpen.Net Namespace](#)

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## Class Library Documentation for Neo smartpen SDK

# Dot Properties

The [Dot](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">Color</a>	Gets or sets the color of the dot
	<a href="#">DotType</a>	Gets or sets the type of the dot
	<a href="#">Force</a>	Gets or sets the pressure of the dot
	<a href="#">Fx</a>	Gets or sets the fractional part of NCode x coordinates. ( maximum value is 100 )
	<a href="#">Fy</a>	Gets or sets the fractional part of NCode y coordinates. ( maximum value is 100 )
	<a href="#">Note</a>	The Note Id of the NCode paper
	<a href="#">Owner</a>	The Owner Id of the NCode paper
	<a href="#">Page</a>	The Page Number of the NCode paper
	<a href="#">Section</a>	The Section Id of the NCode paper
	<a href="#">TiltX</a>	
	<a href="#">TiltY</a>	



[Timestamp](#) Gets or sets the timestamp of the dot



[Twist](#)



[X](#) Gets or sets the x coordinates of NCode cell. ( NCode's cell size is 2.371mm )



[Y](#) Gets or sets the y coordinates of NCode cell. ( NCode's cell size is 2.371mm )

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## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotColor Property

Gets or sets the color of the dot

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Color { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotDotType Property

Gets or sets the type of the dot

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

[Copy](#)

```
public DotTypes DotType { get; set; }
```

**Property Value**

Type: [DotTypes](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotForce Property

Gets or sets the pressure of the dot

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Force { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotFx Property

Gets or sets the fractional part of NCode x coordinates. ( maximum value is 100 )

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public int Fx { get; set; }
```

Property Value

Type: [Int32](#)

## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotFy Property

Gets or sets the fractional part of NCode y coordinates. ( maximum value is 100 )

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public int Fy { get; set; }
```

Property Value

Type: [Int32](#)

## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotNote Property

The Note Id of the NCode paper

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Note { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotOwner Property

The Owner Id of the NCode paper

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Owner { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotPage Property

The Page Number of the NCode paper

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Page { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotSection Property

The Section Id of the NCode paper

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Section { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotTiltX Property

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public int TiltX { get; set; }
```

Property Value

Type: [Int32](#)

## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotTiltY Property

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public int TiltY { get; set; }
```

Property Value

Type: [Int32](#)

## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotTimestamp Property

Gets or sets the timestamp of the dot

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public long Timestamp { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int64](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotTwist Property

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public int Twist { get; set; }
```

Property Value

Type: [Int32](#)

## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotX Property

Gets or sets the x coordinates of NCode cell. ( NCode's cell size is 2.371mm )

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int X { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotY Property

Gets or sets the y coordinates of NCode cell. ( NCode's cell size is 2.371mm )

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Y { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Dot Methods

The [Dot](#) type exposes the following members.

## ► Methods

Name	Description
 <a href="#">Clone</a>	
 <a href="#">ToString</a>	(Overrides <a href="#">Object.ToString()</a> .)

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## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotClone Method

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public Dot Clone()
```

## Return Value

Type: [Dot](#)

[Missing <returns> documentation for  
"M:Neosmartpen.Net.Dot.Clone"]

## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotToString Method

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public override string ToString()
```

**Return Value**

Type: [String](#)

[Missing <returns> documentation for  
"M:Neosmartpen.Net.Dot.ToString"]

## ► See Also

[Reference](#)

[Dot Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# DotTypes Enumeration

Type of Dot object.

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public enum DotTypes
```

[Copy](#)

## ► Members

Member name	Value	Description
PEN_DOWN	0	
PEN_MOVE	1	
PEN_UP	2	
PEN_HOVER	3	
PEN_ERROR	4	

## ► See Also

Reference

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IPenComm Interface

Interface of PenCommXXX object

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public interface IPenComm
```

[Copy](#)

The [IPenComm](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">DeviceClass</a>	Returns the Class of Device of the remote device.
	<a href="#">Name</a>	Gets or sets a name of PenComm object
	<a href="#">Parser</a>	
	<a href="#">Version</a>	Gets a version of PenComm object

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## ► Methods

Name	Description
	<a href="#">Bind</a> Bind the bluetooth socket with IPenComm class.
	<a href="#">Clean</a>
<a href="#">Top</a>	
<b>► See Also</b>	
<b>Reference</b>	
	<a href="#">Neosmartpen.Net Namespace</a>

## Class Library Documentation for Neo smartpen SDK

# IPenComm Properties

The [IPenComm](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">DeviceClass</a>	Returns the Class of Device of the remote device.
	<a href="#">Name</a>	Gets or sets a name of PenComm object
	<a href="#">Parser</a>	
	<a href="#">Version</a>	Gets a version of PenComm object

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## ► See Also

[Reference](#)

[IPenComm Interface](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IPenCommDeviceClass Property

Returns the Class of Device of the remote device.

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
uint DeviceClass { get; }
```

[Copy](#)

**Property Value**

Type: [UInt32](#)

## ► See Also

**Reference**

[IPenComm Interface](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IPenCommName Property

Gets or sets a name of PenComm object

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
string Name { get; set; }
```

[Copy](#)

**Property Value**

Type: [String](#)

## ► See Also

**Reference**

[IPenComm Interface](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IPenCommParser Property

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
IProtocolParser Parser { get; }
```

Property Value

Type: **IProtocolParser**

## ► See Also

[Reference](#)

[IPenComm Interface](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IPenCommVersion Property

Gets a version of PenComm object

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
string Version { get; }
```

[Copy](#)

**Property Value**

Type: [String](#)

## ► See Also

**Reference**

[IPenComm Interface](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IPenComm Methods

The [IPenComm](#) type exposes the following members.

## ▲ Methods

	Name	Description
	<a href="#">Bind</a>	Bind the bluetooth socket with IPenComm class.
	<a href="#">Clean</a>	

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## ▲ See Also

[Reference](#)

[IPenComm Interface](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IPenCommBind Method

Bind the bluetooth socket with IPenComm class.

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

```
C#  
void Bind(  
    Socket socket,  
    string name = null  
)
```

[Copy](#)

## Parameters

*socket*

Type: [System.Net.SocketsSocket](#)

General socket object that implemented the Berkeley sockets interface.

*name* **(Optional)**

Type: [SystemString](#)

Name of PenComm object

## ► See Also

[Reference](#)

[IPenComm Interface](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IPenCommClean Method

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void Clean()
```

[Copy](#)

## ► See Also

[Reference](#)

[IPenComm Interface](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Stroke Class

Represents coordinate of stroke. It consist of Dot's Collection.

## ► Inheritance Hierarchy

SystemObject System.Collections.GenericListDot  
Neosmartpen.NetStroke

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public class Stroke : List<Dot>
```

The [Stroke](#) type exposes the following members.

## ► Constructors

	Name	Description
≡	<a href="#">Stroke</a>	A constructor that constructs a Stroke object

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## ► Properties

	Name	Description
⊕	<a href="#">Color</a>	Gets the color of the dot

	<a href="#">Note</a>	Gets the Note Id of the NCode paper
	<a href="#">Owner</a>	Gets the Owner Id of the NCode paper
	<a href="#">Page</a>	Gets the Page Number of the NCode paper
	<a href="#">Section</a>	Gets the Section Id of the NCode paper
	<a href="#">TimeEnd</a>	Gets the timestamp of end point
	<a href="#">TimeStart</a>	Gets the timestamp of start point

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## ► Methods

	<b>Name</b>	<b>Description</b>
	<a href="#">Add</a>	Adds a new Dot to the current Stroke object.
	<a href="#">GetRect</a>	A square corresponding to the area of the stroke is obtained.
	<a href="#">ToString</a>	(Overrides <a href="#">Object.ToString()</a> .)

[Top](#)

## ► See Also

[Reference](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Stroke Constructor

A constructor that constructs a Stroke object

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

```
C#  
public Stroke(  
    int section,  
    int owner,  
    int note,  
    int page  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the NCode paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the NCode paper

*note*

Type: [SystemInt32](#)

The Note Id of the NCode paper

*page*

Type: [SystemInt32](#)

The Page Number of the NCode paper

## ► See Also

**Reference**

**Stroke Class**

[Neosmartpen.Net Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# Stroke Properties

The [Stroke](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">Color</a>	Gets the color of the dot
	<a href="#">Note</a>	Gets the Note Id of the NCode paper
	<a href="#">Owner</a>	Gets the Owner Id of the NCode paper
	<a href="#">Page</a>	Gets the Page Number of the NCode paper
	<a href="#">Section</a>	Gets the Section Id of the NCode paper
	<a href="#">TimeEnd</a>	Gets the timestamp of end point
	<a href="#">TimeStart</a>	Gets the timestamp of start point

[Top](#)

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeColor Property

Gets the color of the dot

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Color { get; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeNote Property

Gets the Note Id of the NCode paper

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Note { get; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeOwner Property

Gets the Owner Id of the NCode paper

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Owner { get; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokePage Property

Gets the Page Number of the NCode paper

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Page { get; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeSection Property

Gets the Section Id of the NCode paper

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Section { get; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeTimeEnd Property

Gets the timestamp of end point

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public long TimeEnd { get; }
```

[Copy](#)

**Property Value**

Type: [Int64](#)

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeTimeStart Property

Gets the timestamp of start point

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public long TimeStart { get; }
```

[Copy](#)

**Property Value**

Type: [Int64](#)

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Stroke Methods

The [Stroke](#) type exposes the following members.

## ► Methods

	Name	Description
≡	<a href="#">Add</a>	Adds a new Dot to the current Stroke object.
≡	<a href="#">GetRect</a>	A square corresponding to the area of the stroke is obtained.
≡	<a href="#">ToString</a> (Overrides <a href="#">Object.ToString()</a> .)	

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## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeAdd Method

Adds a new Dot to the current Stroke object.

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

```
C#  
public void Add(  
    Dot dot  
)
```

[Copy](#)

## Parameters

*dot*

Type: [Neosmartpen.NetDot](#)  
Dot object

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeGetRect Method

A square corresponding to the area of the stroke is obtained.

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public RectangleF GetRect()
```

[Copy](#)

## Return Value

Type: [RectangleF](#)

a rectangular object of type float

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# StrokeToString Method

**Namespace:** [Neosmartpen.Net](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public override string ToString()
```

Return Value

Type: [String](#)

[Missing <returns> documentation for  
"M:Neosmartpen.Net.Stroke.ToString"]

## ► See Also

[Reference](#)

[Stroke Class](#)

[Neosmartpen.Net Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Neosmartpen.Net.Bluetooth Namespace

## ► Classes

	Class	Description
	<a href="#">BluetoothAdapter</a>	Provides client connections for Bluetooth RFCOMM network services.
	<a href="#">PenDevice</a>	Class describing the devices discovered.

## ► Delegates

	Delegate	Description
	<a href="#">BluetoothAdapterOnConnected</a>	The delegate models a callback to get Class of Device when connection is established.

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapter Class

Provides client connections for Bluetooth RFCOMM network services.

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.Net.BluetoothBluetoothAdapter](#)

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

[Copy](#)

```
public class BluetoothAdapter
```

The [BluetoothAdapter](#) type exposes the following members.

## ► Constructors

	Name	Description
	<a href="#">BluetoothAdapter</a>	A constructor that constructs a BluetoothAdapter

[Top](#)

## ► Properties

	Name	Description
	<a href="#">Connected</a>	Specifies whether the device is connected.



**DeviceAddress** Gets the device identifier.



**DeviceClass** Returns the Class of Device of the remote device.



**DeviceName** Gets a name of a device.



**Enabled** Specifies whether the bluetooth adapter is enabled.

[Top](#)

## ◀ Methods

	Name	Description
≡	<a href="#">Bind</a>	Bind the bluetooth socket with IPenComm class.
≡	<a href="#">Connect</a>	Connects the client to a remote Bluetooth host using the specified mac address and OnConnected handler.
≡	<a href="#">Disconnect</a>	Closes the Bluetooth socket and the underlying connection.
≡	<a href="#">FindAllDevices</a>	Discovers accessible Bluetooth devices, both remembered and in-range, and returns their names and addresses.



**RemovePairedDevice** Remove the pairing with the specified device.

---

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## ► See Also

[Reference](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapter Constructor

A constructor that constructs a BluetoothAdapter

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public BluetoothAdapter()
```

[Copy](#)

## ► See Also

### Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapter Properties

The [BluetoothAdapter](#) type exposes the following members.

## ► Properties

Name	Description
 <a href="#">Connected</a>	Specifies whether the device is connected.
 <a href="#">DeviceAddress</a>	Gets the device identifier.
 <a href="#">DeviceClass</a>	Returns the Class of Device of the remote device.
 <a href="#">DeviceName</a>	Gets a name of a device.
 <a href="#">Enabled</a>	Specifies whether the bluetooth adapter is enabled.

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## ► See Also

### Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterConnected Property

Specifies whether the device is connected.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool Connected { get; }
```

Property Value

Type: [Boolean](#)

## ► See Also

Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterDeviceAddress Property

Gets the device identifier.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string DeviceAddress { get; }
```

Property Value

Type: [String](#)

## ► See Also

Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterDeviceClass Property

Returns the Class of Device of the remote device.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public uint DeviceClass { get; }
```

Property Value

Type: [UInt32](#)

## ► See Also

Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterDeviceName Property

Gets a name of a device.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string DeviceName { get; }
```

Property Value

Type: [String](#)

## ► See Also

Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterEnabled Property

Specifies whether the bluetooth adapter is enabled.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool Enabled { get; }
```

Property Value

Type: [Boolean](#)

## ► See Also

Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapter Methods

The [BluetoothAdapter](#) type exposes the following members.

## ▲ Methods

Name	Description
<a href="#">Bind</a>	Bind the bluetooth socket with IPenComm class.
<a href="#">Connect</a>	Connects the client to a remote Bluetooth host using the specified mac address and OnConnected handler.
<a href="#">Disconnect</a>	Closes the Bluetooth socket and the underlying connection.
<a href="#">FindAllDevices</a>	Discovers accessible Bluetooth devices, both remembered and in-range, and returns their names and addresses.
<a href="#">RemovePairedDevice</a>	Remove the pairing with the specified device.

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◀ See Also

Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterBind Method

Bind the bluetooth socket with IPenComm class.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

```
C#  
public void Bind(  
    IPenComm comm,  
    string name = null  
)
```

[Copy](#)

## Parameters

*comm*

Type: [Neosmartpen.NetIPenComm](#)

Provides data handling for Neosmartpen Devices.

*name* **(Optional)**

Type: [SystemString](#)

The name of IPenComm instance

## ► See Also

[Reference](#)

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterConnect Method

Connects the client to a remote Bluetooth host using the specified mac address and OnConnected handler.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C# Copy
public bool Connect(
    string mac,
    BluetoothAdapterOnConnected handler
)
```

## Parameters

*mac*

Type: [SystemString](#)

The mac address of the remote host.

*handler*

Type: [Neosmartpen.Net.BluetoothBluetoothAdapterOnConnected](#)

The delegate to handle connecting event.

## Return Value

Type: [Boolean](#)

true if the BluetoothAdapter was connected to a remote resource; otherwise, false.

## ► See Also

## Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterDisconnect Method

Closes the Bluetooth socket and the underlying connection.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool Disconnect()
```

## Return Value

Type: [Boolean](#)

true if the BluetoothAdapter was disconnected to a remote resource; otherwise, false.

## ► See Also

[Reference](#)

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterFindAllDevices Method

Discovers accessible Bluetooth devices, both remembered and in-range, and returns their names and addresses.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public PenDevice[] FindAllDevices()
```

## Return Value

Type: [PenDevice](#)

An array of PenDevice objects describing the devices discovered.

## ► See Also

### Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterRemovePairedDevice Method

Remove the pairing with the specified device.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public void RemovePairedDevice(  
    string addr  
)
```

## Parameters

*addr*

Type: [SystemString](#)

Remote device's mac address with which to remove pairing.

## ► See Also

### Reference

[BluetoothAdapter Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BluetoothAdapterOnConnected Delegate

The delegate models a callback to get Class of Device when connection is established.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public delegate void OnConnected(  
    uint deviceClass  
)
```

[Copy](#)

## Parameters

*deviceClass*

Type: [SystemUInt32](#)

Class of Device of the remote device

## ► See Also

### Reference

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDevice Class

Class describing the devices discovered.

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.Net.BluetoothPenDevice](#)

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public class PenDevice
```

[Copy](#)

The [PenDevice](#) type exposes the following members.

## ► Properties

Name	Description
 <a href="#">Address</a>	Gets the device identifier.
 <a href="#">Authenticated</a>	Specifies whether the device is authenticated, paired, or bonded. All authenticated devices are remembered.
 <a href="#">ClassOfDevice</a>	Returns the Class of Device of the remote device.
 <a href="#">LastSeen</a>	Date and Time this device was

last seen by the system.

---

	<a href="#">LastUsed</a>	Date and Time this device was last used by the system.
	<a href="#">Name</a>	Gets a name of a device.
	<a href="#">Remembered</a>	Specifies whether the device is a remembered device. Not all remembered devices are authenticated.
	<a href="#">Rssi</a>	Returns the signal strength for the Bluetooth connection with the peer device.

---

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## ◀ Methods

Name	Description
	<a href="#">ToString</a> Returns a String that represents the current Object. (Overrides <a href="#">Object.ToString()</a> .)

---

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## ◀ See Also

### Reference

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDevice Properties

The [PenDevice](#) type exposes the following members.

## ► Properties

Name	Description
 <a href="#">Address</a>	Gets the device identifier.
 <a href="#">Authenticated</a>	Specifies whether the device is authenticated, paired, or bonded. All authenticated devices are remembered.
 <a href="#">ClassOfDevice</a>	Returns the Class of Device of the remote device.
 <a href="#">LastSeen</a>	Date and Time this device was last seen by the system.
 <a href="#">LastUsed</a>	Date and Time this device was last used by the system.
 <a href="#">Name</a>	Gets a name of a device.
 <a href="#">Remembered</a>	Specifies whether the device is a remembered device. Not all remembered devices are authenticated.
 <a href="#">Rssi</a>	Returns the signal strength for the Bluetooth connection with

the peer device.

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## ◀ See Also

**Reference**

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenDeviceAddress Property

Gets the device identifier.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Address { get; }
```

[Copy](#)

**Property Value**

Type: [String](#)

## ► See Also

**Reference**

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDeviceAuthenticated Property

Specifies whether the device is authenticated, paired, or bonded. All authenticated devices are remembered.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public bool Authenticated { get; }
```

[Copy](#)

**Property Value**

Type: [Boolean](#)

## ► See Also

**Reference**

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDeviceClassOfDevice Property

Returns the Class of Device of the remote device.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public uint ClassOfDevice { get; }
```

[Copy](#)

Property Value

Type: [UInt32](#)

## ► See Also

Reference

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDeviceLastSeen Property

Date and Time this device was last seen by the system.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public DateTime LastSeen { get; }
```

[Copy](#)

## Property Value

Type: [DateTime](#)

## ► See Also

### Reference

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDeviceLastUsed Property

Date and Time this device was last used by the system.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public DateTime LastUsed { get; }
```

[Copy](#)

**Property Value**

Type: [DateTime](#)

## ► See Also

**Reference**

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDeviceName Property

Gets a name of a device.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Name { get; }
```

[Copy](#)

**Property Value**

Type: [String](#)

## ► See Also

Reference

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDeviceRemembered Property

Specifies whether the device is a remembered device. Not all remembered devices are authenticated.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool Remembered { get; }
```

Property Value

Type: [Boolean](#)

## ► See Also

Reference

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDeviceRssi Property

Returns the signal strength for the Bluetooth connection with the peer device.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Rssi { get; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDevice Methods

The [PenDevice](#) type exposes the following members.

## ▲ Methods

Name	Description
 <a href="#">ToString</a>	Returns a String that represents the current Object. (Overrides <a href="#">Object.ToString()</a> .)

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## ▲ See Also

[Reference](#)

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenDeviceToString Method

Returns a String that represents the current Object.

**Namespace:** [Neosmartpen.Net.Bluetooth](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public override string ToString()
```

[Copy](#)

## Return Value

Type: [String](#)

A string that represents the current object.

## ► See Also

### Reference

[PenDevice Class](#)

[Neosmartpen.Net.Bluetooth Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Neosmartpen.Net.Metadata Namespace

## ► Classes

Class	Description
 <a href="#">GenericMetadataManager</a>	A generic class that handles most metadata that implements the IMetadataManager.
 <a href="#">NProjParser</a>	Parser class for handling Nproj file which is currently mainly used in metadata

## ► Interfaces

Interface	Description
 <a href="#">IMetadataManager</a>	An interface that defines the functionality of the MetadataManager that is responsible for handling metadata.
 <a href="#">IMetadataParser</a>	An interface that defines the functionality of the

class that parses the  
metadata file.

---

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManager Class

A generic class that handles most metadata that implements the IMetadataManager.

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.Net.MetadataGenericMetadataManager](#)

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public class GenericMetadataManager : IMetadataMa
```

The [GenericMetadataManager](#) type exposes the following members.

## ► Constructors

Name	Description
 <a href="#">GenericMetadataManager</a>	GenericMetadataManager Constructor

[Top](#)

## ► Properties

Name	Description
 <a href="#">Parser</a>	Associated metadata parser

[Top](#)

## ◀ Methods

	Name	Description
≡	<a href="#">FindApplicableSymbols</a>	Functions for finding symbols over strokes
≡	<a href="#">GetBook</a>	Get the Book from the metadata.
≡	<a href="#">GetPage</a>	Get the Page from the metadata.
≡	<a href="#">GetStrokesInSymbol</a>	Separates only Strokes above the Symbol area.
≡	<a href="#">GetSymbols</a>	Get the Symbols from the metadata.
≡	<a href="#">Load</a>	Load the metadata file.

[Top](#)

## ◀ See Also

Reference

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManager Constructor

GenericMetadataManager Constructor

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public GenericMetadataManager(  
    IMetadataParser parser  
)
```

## Parameters

*parser*

Type: [Neosmartpen.Net.MetadataIMetadataParser](#)

Associated metadata parser

## ► See Also

### Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManager Properties

The [GenericMetadataManager](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">Parser</a>	Associated metadata parser

[Top](#)

## ► See Also

### Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManagerParser Property

Associated metadata parser

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public IMetadataParser Parser { get; set; }
```

Property Value

Type: [IMetadataParser](#)

Implements

[IMetadataManagerParser](#)

## ► See Also

Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManager Methods

The [GenericMetadataManager](#) type exposes the following members.

## ▪ Methods

Name	Description
<a href="#">FindApplicableSymbols</a>	Functions for finding symbols over strokes
<a href="#">GetBook</a>	Get the Book from the metadata.
<a href="#">GetPage</a>	Get the Page from the metadata.
<a href="#">GetStrokesInSymbol</a>	Separates only Strokes above the Symbol area.
<a href="#">GetSymbols</a>	Get the Symbols from the metadata.
<a href="#">Load</a>	Load the metadata file.

[Top](#)

## ▪ See Also

[Reference](#)

**GenericMetadataManager Class**  
**Neosmartpen.Net.Metadata Namespace**

---

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManagerFindApplicableSymbols Method

Functions for finding symbols over strokes

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public List<Symbol> FindApplicableSymbols(  
    Stroke stroke  
)  
  
Copy
```

## Parameters

*stroke*

Type: [Neosmartpen.NetStroke](#)

Target Stroke to check whether it is positioned above the Symbol

## Return Value

Type: [ListSymbol](#)

Symbols corresponding to the position of the Stroke

## Implements

[IMetadataManagerFindApplicableSymbols\(Stroke\)](#)

## ► See Also

### Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManagerGetBook Method

Get the Book from the metadata.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public Book GetBook(  
    int section,  
    int owner,  
    int book  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

Section code value

*owner*

Type: [SystemInt32](#)

Owner code value

*book*

Type: [SystemInt32](#)

Book code value

## Return Value

Type: [Book](#)

A class representing a Book in metadata

## Implements

[IMetadataManagerGetBook\(Int32, Int32, Int32\)](#)

► See Also

Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManagerGetPage Method

Get the Page from the metadata.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public Page GetPage(  
    int section,  
    int owner,  
    int book,  
    int pageNumber  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

Section code value

*owner*

Type: [SystemInt32](#)

Owner code value

*book*

Type: [SystemInt32](#)

Book code value

*pageNumber*

Type: [SystemInt32](#)

Number of Page

## Return Value

Type: [Page](#)

A class representing a Page in metadata

## Implements

[IMetadataManagerGetPage\(Int32, Int32, Int32, Int32\)](#)

## ► See Also

### Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManagerGetStroke Method

Separates only Strokes above the Symbol area.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public List<Stroke> GetStrokesInSymbol(  
    Symbol symbol,  
    List<Stroke> strokes  
)
```

## Parameters

*symbol*

Type: [Neosmartpen.Net.Metadata.ModelSymbol](#)

A class representing a Symbol in metadata

*strokes*

Type: [System.Collections.GenericListStroke](#)

Target Stroke to check whether it is positioned above the Symbol

## Return Value

Type: [ListStroke](#)

Strokes corresponding to Symbol area

## Implements

[IMetadataManagerGetStrokesInSymbol\(Symbol, ListStroke\)](#)

## ► See Also

## Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManagerGetSymbols Method

Get the Symbols from the metadata.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public List<Symbol> GetSymbols(  
    int section,  
    int owner,  
    int book,  
    int pageNumber  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

Section code value

*owner*

Type: [SystemInt32](#)

Owner code value

*book*

Type: [SystemInt32](#)

Book code value

*pageNumber*

Type: [SystemInt32](#)

Number of Page

## Return Value

Type: [ListSymbol](#)

A collection of Symbol

## Implements

[IMetadataManagerGetSymbols\(Int32, Int32, Int32, Int32\)](#)

## ► See Also

### Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# GenericMetadataManagerLoad Method

Load the metadata file.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public void Load(  
    string metadataFilePath  
)
```

## Parameters

*metadataFilePath*

Type: [System.String](#)

Path to the metadata file

## Implements

[IMetadataManagerLoad\(String\)](#)

## ► See Also

### Reference

[GenericMetadataManager Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IMetadataManager Interface

An interface that defines the functionality of the MetadataManager that is responsible for handling metadata.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public interface IMetadataManager
```

The [IMetadataManager](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">Parser</a>	Associated metadata parser

[Top](#)

## ► Methods

	Name	Description
	<a href="#">FindApplicableSymbols</a>	Functions for finding symbols over strokes
	<a href="#">GetBook</a>	Get the Book from the metadata.
		

---

[GetPage](#) Get the Page from the metadata.

---

 [GetStrokesInSymbol](#) Separates only Strokes above the Symbol area.

---

 [GetSymbols](#) Get the Symbols from the metadata.

---

 [Load](#) Load the metadata file.

---

[Top](#)

## ▲ See Also

[Reference](#)

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# IMetadataManager Properties

The [IMetadataManager](#) type exposes the following members.

## ► Properties

Name	Description
 <a href="#">Parser</a>	Associated metadata parser

[Top](#)

## ► See Also

[Reference](#)

[IMetadataManager Interface](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IMetadataManagerParser Property

Associated metadata parser

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
IMetadataParser Parser { get; set; }
```

Property Value

Type: [IMetadataParser](#)

## ► See Also

Reference

[IMetadataManager Interface](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IMetadataManager Methods

The [IMetadataManager](#) type exposes the following members.

## ▲ Methods

Name	Description
<a href="#">FindApplicableSymbols</a>	Functions for finding symbols over strokes
<a href="#">GetBook</a>	Get the Book from the metadata.
<a href="#">GetPage</a>	Get the Page from the metadata.
<a href="#">GetStrokesInSymbol</a>	Separates only Strokes above the Symbol area.
<a href="#">GetSymbols</a>	Get the Symbols from the metadata.
<a href="#">Load</a>	Load the metadata file.

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## ▲ See Also

[Reference](#)

[IMetadataManager Interface](#)

[Neosmartpen.Net.Metadata Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# IMetadataManagerFindApplicableSymbols Method

Functions for finding symbols over strokes

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
List<Symbol> FindApplicableSymbols(  
    Stroke stroke  
)
```

## Parameters

*stroke*

Type: [Neosmartpen.NetStroke](#)  
Stroke class with multiple dots

## Return Value

Type: [ListSymbol](#)  
A collection of applicable Symbol

## ► See Also

### Reference

[IMetadataManager Interface](#)  
[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IMetadataManagerGetBook Method

Get the Book from the metadata.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
Book GetBook(  
            int section,  
            int owner,  
            int book  
)
```

## Parameters

*section*

Type: [SystemInt32](#)

Section code value

*owner*

Type: [SystemInt32](#)

Owner code value

*book*

Type: [SystemInt32](#)

Book code value

## Return Value

Type: [Book](#)

A class representing a Book in metadata

◀ See Also

Reference

[IMetadataManager Interface](#)

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# IMetadataManagerGetPage Method

Get the Page from the metadata.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
Page GetPage(  
            int section,  
            int owner,  
            int book,  
            int pageNumber  
)
```

## Parameters

*section*

Type: [SystemInt32](#)

Section code value

*owner*

Type: [SystemInt32](#)

Owner code value

*book*

Type: [SystemInt32](#)

Book code value

*pageNumber*

Type: [SystemInt32](#)

Number of Page

## Return Value

Type: [Page](#)

A class representing a Page in metadata

## ► See Also

### Reference

[IMetadataManager Interface](#)

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# IMetadataManagerGetStrokesInSymbol Method

Separates only Strokes above the Symbol area.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
List<Stroke> GetStrokesInSymbol(  
    Symbol symbol,  
    List<Stroke> strokes  
)
```

## Parameters

*symbol*

Type: [Neosmartpen.Net.Metadata.ModelSymbol](#)

A class representing a Symbol in metadata

*strokes*

Type: [System.Collections.GenericListStroke](#)

Target Stroke to check whether it is positioned above the Symbol

## Return Value

Type: [ListStroke](#)

Strokes corresponding to Symbol area

## ► See Also

### Reference

[IMetadataManager Interface](#)

## Neosmartpen.Net.Metadata Namespace

---

## Class Library Documentation for Neo smartpen SDK

# IMetadataManagerGetSymbols Method

Get the Symbols from the metadata.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
List<Symbol> GetSymbols(  
    int section,  
    int owner,  
    int book,  
    int pageNumber  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

Section code value

*owner*

Type: [SystemInt32](#)

Owner code value

*book*

Type: [SystemInt32](#)

Book code value

*pageNumber*

Type: [SystemInt32](#)

Number of Page

## Return Value

Type: [ListSymbol](#)

A collection of Symbol

## ► See Also

### Reference

[IMetadataManager Interface](#)

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# IMetadataManagerLoad Method

Load the metadata file.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
void Load(  
    string metadataFilePath  
)
```

[Copy](#)

## Parameters

*metadataFilePath*

Type: [System.String](#)

Path to the metadata file

## ► See Also

### Reference

[IMetadataManager Interface](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IMetadataParser Interface

An interface that defines the functionality of the class that parses the metadata file.

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public interface IMetadataParser
```

[Copy](#)

The **IMetadataParser** type exposes the following members.

## ► Methods

	Name	Description
	<a href="#">Parse</a>	Functions to parse the metadata file to get the Book class

[Top](#)

## ► See Also

[Reference](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IMetadataParser Methods

The [IMetadataParser](#) type exposes the following members.

## ► Methods

Name	Description
 <a href="#">Parse</a>	Functions to parse the metadata file to get the Book class

[Top](#)

## ► See Also

### Reference

[IMetadataParser Interface](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# IMetadataParser.Parse Method

Functions to parse the metadata file to get the Book class

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

```
C#  
Book Parse(  
            string metadataFilePath  
)
```

[Copy](#)

## Parameters

*metadataFilePath*  
Type: [System.String](#)  
metadata file's path

## Return Value

Type: [Book](#)  
A class representing a Book in metadata

## ► See Also

Reference  
[IMetadataParser Interface](#)  
[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# NProjParser Class

Parser class for handling Nproj file which is currently mainly used in metadata

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.Net.MetadataNProjParser](#)

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public class NProjParser : IMetadataParser
```

The [NProjParser](#) type exposes the following members.

## ► Constructors

	Name	Description
≡	<a href="#">NProjParser</a>	Initializes a new instance of the <a href="#">NProjParser</a> class

[Top](#)

## ► Methods

	Name	Description
≡	<a href="#">Parse</a>	Functions to parse the Nproj file to get the Book class

---

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## ◀ See Also

**Reference**

[Neosmartpen.Net.Metadata Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# NProjParser Constructor

Initializes a new instance of the [NProjParser](#) class

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public NProjParser()
```

[Copy](#)

## ► See Also

### Reference

[NProjParser Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# NProjParser Methods

The [NProjParser](#) type exposes the following members.

## ► Methods

	Name	Description
	<a href="#">Parse</a>	Functions to parse the Nproj file to get the Book class

[Top](#)

## ► See Also

[Reference](#)

[NProjParser Class](#)

[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# NProjParserParse Method

Functions to parse the Nproj file to get the Book class

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

```
C#  
public Book Parse(  
    string nprojFilePath  
)
```

[Copy](#)

## Parameters

*nprojFilePath*  
Type: [System.String](#)  
Nproj file's path

## Return Value

Type: [Book](#)  
A class representing a Book in metadata

## Implements

[IMetadataParserParse\(String\)](#)

## ► See Also

### Reference

[NProjParser Class](#)  
[Neosmartpen.Net.Metadata Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Neosmartpen.Net.Metadata.Exception Namespace

## ► Classes

Class	Description
 <a href="#">ParseException</a>	Exception class that was encountered while parsing the metadata file

## Class Library Documentation for Neo smartpen SDK

# ParseException Class

Exception class that was encountered while parsing the metadata file

## ► Inheritance Hierarchy

SystemObject SystemException  
Neosmartpen.Net.Metadata.ExceptionsParseException

**Namespace:** [Neosmartpen.Net.Metadata.Exceptions](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C# Copy

```
public class ParseException : Exception
```

The [ParseException](#) type exposes the following members.

## ► Constructors

	Name	Description
≡	<a href="#">ParseException</a>	Initializes a new instance of the <a href="#">ParseException</a> class

[Top](#)

## ► See Also

[Reference](#)

[Neosmartpen.Net.Metadata.Exceptions Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# ParseException Constructor

Initializes a new instance of the [ParseException](#) class

**Namespace:** [Neosmartpen.Net.Metadata.Exceptions](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public ParseException()
```

[Copy](#)

## ► See Also

### Reference

[ParseException Class](#)

[Neosmartpen.Net.Metadata.Exceptions Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Neosmartpen.Net.Metadata.Model Namespace

## ► Classes

Class	Description
 <a href="#">Book</a>	A class representing a Book in metadata
 <a href="#">Page</a>	A class representing a Page in metadata
 <a href="#">Symbol</a>	A class representing a Symbol in metadata

## Class Library Documentation for Neo smartpen SDK

# Book Class

A class representing a Book in metadata

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.Net.Metadata.ModelBook](#)

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public class Book
```

[Copy](#)

The [Book](#) type exposes the following members.

## ► Constructors

	Name	Description
	<a href="#">Book</a>	Initializes a new instance of the <a href="#">Book</a> class

[Top](#)

## ► Properties

	Name	Description
	<a href="#">Code</a>	Book Code(NoteID)
	<a href="#">Dpi</a>	600 or 1200

	<a href="#">ExtraInfo</a>	Extra Info
	<a href="#">isLine</a>	true is line, false is dot
	<a href="#">Kind</a>	1 is Moleskine, 100 is unknown note, 0 is otherwise
	<a href="#">LineSegmentLength</a>	How many dots were made of the line 3(=600DPI) or 5(=1200DPI)
	<a href="#">OffsetLeft</a>	Left offset
	<a href="#">OffsetTop</a>	Top offset
	<a href="#">Owner</a>	Owner
	<a href="#">Pages</a>	List of Page included in Book
	<a href="#">Revision</a>	.NProj revision
	<a href="#">Section</a>	Section
	<a href="#">StartPage</a>	Start Page
	<a href="#">StartPageSide</a>	StartPageSide (left, right, center)
	<a href="#">Symbols</a>	List of Symbol included in Book

Title	Book Title
 <a href="#">TotalPageCount</a>	Total page of Book
 <a href="#">Version</a>	.Nproj file's Version

[Top](#)

## ► See Also

### Reference

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Book Constructor

Initializes a new instance of the [Book](#) class

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public Book()
```

[Copy](#)

## ► See Also

[Reference](#)

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Book Properties

The [Book](#) type exposes the following members.

## ► Properties

Name	Description
 <a href="#">Code</a>	Book Code(NoteID)
 <a href="#">Dpi</a>	600 or 1200
 <a href="#">ExtraInfo</a>	Extra Info
 <a href="#">isLine</a>	true is line, false is dot
 <a href="#">Kind</a>	1 is Moleskine, 100 is unknown note, 0 is otherwise
 <a href="#">LineSegmentLength</a>	How many dots were made of the line 3(=600DPI) or 5(=1200DPI)
 <a href="#">OffsetLeft</a>	Left offset
 <a href="#">OffsetTop</a>	Top offset
 <a href="#">Owner</a>	Owner
 <a href="#">Pages</a>	List of Page included in Book



## Revision

.NProj revision



## Section

Section



## StartPage

Start Page



## StartPageSide

StartPageSide (left, right, center)



## Symbols

List of Symbol included in Book



## Title

Book Title



## TotalPageCount

Total page of Book



## Version

.Nproj file's Version

[Top](#)

## ▲ See Also

[Reference](#)

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookCode Property

Book Code(NoteID)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Code { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookDpi Property

600 or 1200

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Dpi { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookExtraInfo Property

Extra Info

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string ExtraInfo { get; set; }
```

[Copy](#)

Property Value

Type: [String](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookisLine Property

true is line, false is dot

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool isLine { get; set; }
```

**Property Value**

Type: [Boolean](#)

## ► See Also

**Reference**

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookKind Property

1 is Moleskine, 100 is unknown note, 0 is otherwise

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Kind { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookLineSegmentLength Property

How many dots were made of the line 3(=600DPI) or 5(=1200DPI)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

[Copy](#)

```
public int LineSegmentLength { get; set; }
```

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookOffsetLeft Property

Left offset

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public double OffsetLeft { get; set; }
```

[Copy](#)

Property Value

Type: [Double](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookOffsetTop Property

Top offset

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public double OffsetTop { get; set; }
```

[Copy](#)

Property Value

Type: [Double](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookOwner Property

Owner

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Owner { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookPages Property

List of Page included in Book

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public List<Page> Pages { get; set; }
```

[Copy](#)

**Property Value**

Type: [ListPage](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookRevision Property

.NProj revision

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Revision { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookSection Property

Section

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Section { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookStartPage Property

Start Page

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int StartPage { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookStartPageSide Property

StartPageSide (left, right, center)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string StartPageSide { get; set; }
```

Property Value

Type: [String](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookSymbols Property

List of Symbol included in Book

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

[Copy](#)

```
public List<Symbol> Symbols { get; set; }
```

Property Value

Type: [ListSymbol](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookTitle Property

Book Title

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Title { get; set; }
```

[Copy](#)

Property Value

Type: [String](#)

## ► See Also

Reference

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookTotalPageCount Property

Total page of Book

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int TotalPageCount { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

**Reference**

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# BookVersion Property

.Nproj file's Version

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Version { get; set; }
```

[Copy](#)

**Property Value**

Type: [String](#)

## ► See Also

**Reference**

[Book Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Page Class

A class representing a Page in metadata

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.Net.Metadata.ModelPage](#)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

[Copy](#)

```
public class Page
```

The [Page](#) type exposes the following members.

## ► Constructors

	Name	Description
	<a href="#">Page</a>	Initializes a new instance of the <a href="#">Page</a> class

[Top](#)

## ► Properties

	Name	Description
	<a href="#">Book</a>	Book Code(NoteID)
	<a href="#">MarginB</a>	Crop Margin Bottom

	<a href="#">MarginL</a>	Crop Margin Left
	<a href="#">MarginR</a>	Crop Margin Right
	<a href="#">MarginT</a>	Crop Margin Top
	<a href="#">Number</a>	Page Number
	<a href="#">Owner</a>	Owner
	<a href="#">Section</a>	Section
	<a href="#">X1</a>	coord X1 (Start Point)
	<a href="#">X2</a>	coord X2 (End Point)
	<a href="#">Y1</a>	coord Y1 (Start Point)
	<a href="#">Y2</a>	coord Y2 (End Point)

[Top](#)

## ► See Also

[Reference](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Page Constructor

Initializes a new instance of the [Page](#) class

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public Page()
```

[Copy](#)

## ► See Also

[Reference](#)

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Page Properties

The [Page](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">Book</a>	Book Code(NoteID)
	<a href="#">MarginB</a>	Crop Margin Bottom
	<a href="#">MarginL</a>	Crop Margin Left
	<a href="#">MarginR</a>	Crop Margin Right
	<a href="#">MarginT</a>	Crop Margin Top
	<a href="#">Number</a>	Page Number
	<a href="#">Owner</a>	Owner
	<a href="#">Section</a>	Section
	<a href="#">X1</a>	coord X1 (Start Point)
	<a href="#">X2</a>	coord X2 (End Point)
	<a href="#">Y1</a>	coord Y1 (Start Point)
	<a href="#">Y2</a>	coord Y2 (End Point)
	<a href="#">Top</a>	

## ◀ See Also

### Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PageBook Property

Book Code(NoteID)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Book { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageMarginB Property

Crop Margin Bottom

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float MarginB { get; set; }
```

[Copy](#)

Property Value

Type: [Single](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageMarginL Property

Crop Margin Left

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float MarginL { get; set; }
```

[Copy](#)

Property Value

Type: [Single](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageMarginR Property

Crop Margin Right

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float MarginR { get; set; }
```

[Copy](#)

Property Value

Type: [Single](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageMarginT Property

Crop Margin Top

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float MarginT { get; set; }
```

[Copy](#)

Property Value

Type: [Single](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageNumber Property

Page Number

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Number { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageOwner Property

Owner

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Owner { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageSection Property

Section

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Section { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageX1 Property

coord X1 (Start Point)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float X1 { get; set; }
```

[Copy](#)

**Property Value**

Type: [Single](#)

## ► See Also

**Reference**

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageX2 Property

coord X2 (End Point)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float X2 { get; set; }
```

[Copy](#)

**Property Value**

Type: [Single](#)

## ► See Also

**Reference**

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageY1 Property

coord Y1 (Start Point)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float Y1 { get; set; }
```

[Copy](#)

Property Value

Type: [Single](#)

## ► See Also

Reference

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PageY2 Property

coord Y2 (End Point)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float Y2 { get; set; }
```

[Copy](#)

**Property Value**

Type: [Single](#)

## ► See Also

**Reference**

[Page Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Symbol Class

A class representing a Symbol in metadata

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.Net.Metadata.ModelSymbol](#)

**Namespace:** [Neosmartpen.Net.Metadata](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public class Symbol
```

[Copy](#)

The [Symbol](#) type exposes the following members.

## ► Constructors

	Name	Description
	<a href="#">Symbol</a>	Initializes a new instance of the <a href="#">Symbol</a> class

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## ► Properties

	Name	Description
	<a href="#">Action</a>	Action : Email etc.
	<a href="#">Book</a>	Book Code

	<a href="#">CustomShapePoints</a>	Polygon Points
	<a href="#">Height</a>	Height
	<a href="#">Id</a>	Symbol ID
	<a href="#">Name</a>	Symbol's Name
	<a href="#">NextLink</a>	Next Linked Symbol ID
	<a href="#">Owner</a>	Owner
	<a href="#">Page</a>	The number of the page where the symbol is located
	<a href="#">PageName</a>	
	<a href="#">Param</a>	param (Used only in Nproj 2.2 ver)
	<a href="#">PreviousLink</a>	Previous Linked Symbol ID
	<a href="#">Section</a>	Section
	<a href="#">Type</a>	Symbol Type = Rectangle, Trangle, Ellipse, Polygon etc.
	<a href="#">Width</a>	Width
	<a href="#">X</a>	coord X
	<a href="#">Y</a>	coord Y

[Top](#)

## ◀ Methods

Name	Description
Contains(Stroke, Single, Single)	Function to check whether strokes and symbols overlap
Contains(Single, Single, Single, Single)	Function to check whether point and symbols overlap
Contains(Int32, Int32, Int32, Int32, Single, Single, Single)	Function to check whether point and symbols overlap

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## ◀ Fields

Name	Description
Pixel2DotScaleFactor	

[Top](#)

## ◀ See Also

### Reference

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Symbol Constructor

Initializes a new instance of the [Symbol](#) class

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public Symbol()
```

[Copy](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Symbol Properties

The [Symbol](#) type exposes the following members.

## ► Properties

Name	Description
 <a href="#">Action</a>	Action : Email etc.
 <a href="#">Book</a>	Book Code
 <a href="#">CustomShapePoints</a>	Polygon Points
 <a href="#">Height</a>	Height
 <a href="#">Id</a>	Symbol ID
 <a href="#">Name</a>	Symbol's Name
 <a href="#">NextLink</a>	Next Linked Symbol ID
 <a href="#">Owner</a>	Owner
 <a href="#">Page</a>	The number of the page where the symbol is located
 <a href="#">PageName</a>	
 <a href="#">Param</a>	param (Used only in Nproj 2.2 ver)
 <a href="#">PreviousLink</a>	Previous Linked Symbol

	ID
	Section
	Type Symbol Type = Rectangle, Trangle, Ellipse, Polygon etc.
	Width
	X coord X
	Y coord Y

Top

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolAction Property

Action : Email etc.

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Action { get; set; }
```

[Copy](#)

**Property Value**

Type: [String](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolBook Property

Book Code

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Book { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolCustomShapePoints Property

Polygon Points

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string CustomShapePoints { get; set; }
```

Property Value

Type: [String](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolHeight Property

Height

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float Height { get; set; }
```

[Copy](#)

Property Value

Type: [Single](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolId Property

Symbol ID

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Id { get; set; }
```

[Copy](#)

Property Value

Type: [String](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolName Property

Symbol's Name

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Name { get; set; }
```

[Copy](#)

Property Value

Type: [String](#)

## ► See Also

Reference

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolNextLink Property

Next Linked Symbol ID

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string NextLink { get; set; }
```

Property Value

Type: [String](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolOwner Property

Owner

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Owner { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolPage Property

The number of the page where the symbol is located

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Page { get; set; }
```

[Copy](#)

**Property Value**

Type: [Int32](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolPageName Property

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string PageName { get; set; }
```

Property Value

Type: [String](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolParam Property

param (Used only in Nproj 2.2 ver)

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Param { get; set; }
```

[Copy](#)

**Property Value**

Type: [String](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolPreviousLink Property

Previous Linked Symbol ID

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string PreviousLink { get; set; }
```

[Copy](#)

Property Value

Type: [String](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolSection Property

Section

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public int Section { get; set; }
```

[Copy](#)

Property Value

Type: [Int32](#)

## ► See Also

Reference

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolType Property

Symbol Type = Rectangle, Trangle, Ellipse, Polygon etc.

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public string Type { get; set; }
```

[Copy](#)

**Property Value**

Type: [String](#)

## ► See Also

**Reference**

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolWidth Property

Width

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float Width { get; set; }
```

[Copy](#)

Property Value

Type: [Single](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolX Property

coord X

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float X { get; set; }
```

[Copy](#)

Property Value

Type: [Single](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolY Property

coord Y

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public float Y { get; set; }
```

[Copy](#)

**Property Value**

Type: [Single](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Symbol Methods

## ► Methods

Name	Description
 <a href="#">Contains(Stroke, Single, Single)</a>	Function to check whether strokes and symbols overlap
 <a href="#">Contains(Single, Single, Single, Single)</a>	Function to check whether point and symbols overlap
 <a href="#">Contains(Int32, Int32, Int32, Int32, Single, Single, Single, Single)</a>	Function to check whether point and symbols overlap

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## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolContains Method

## ► Overload List

Name	Description
 <a href="#">Contains(Stroke, Single, Single)</a>	Function to check whether strokes and symbols overlap
 <a href="#">Contains(Single, Single, Single, Single)</a>	Function to check whether point and symbols overlap
 <a href="#">Contains(Int32, Int32, Int32, Int32, Single, Single, Single, Single)</a>	Function to check whether point and symbols overlap

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## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolContains Method (Stroke, Single, Single)

Function to check whether strokes and symbols overlap

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool Contains(  
    Stroke stroke,  
    float offsetX = 0f,  
    float offsetY = 0f  
)
```

[Copy](#)

## Parameters

*stroke*

Type: [Neosmartpen.NetStroke](#)

Stroke with multiple dots

*offsetX (Optional)*

Type: [SystemSingle](#)

Offset x coordinate

*offsetY (Optional)*

Type: [SystemSingle](#)

Offset y coordinate

## Return Value

Type: [Boolean](#)

True if stroke and symbol overlap, false if not

## ◀ See Also

Reference

[Symbol Class](#)

Contains Overload

[Neosmartpen.Net.Metadata.Model Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# SymbolContains Method (Single, Single, Single, Single)

Function to check whether point and symbols overlap

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#Copy
public bool Contains(
    float x,
    float y,
    float offsetX = 0f,
    float offsetY = 0f
)
```

## Parameters

*x*

Type: [SystemSingle](#)  
x coordinate

*y*

Type: [SystemSingle](#)  
y coordinate

*offsetX (Optional)*

Type: [SystemSingle](#)  
Offset x coordinate

*offsetY (Optional)*

Type: [SystemSingle](#)  
Offset y coordinate

## Return Value

Type: [Boolean](#)

True if stroke and symbol overlap, false if not

## See Also

### Reference

[Symbol Class](#)

[Contains Overload](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# SymbolContains Method (Int32, Int32, Int32, Int32, Single, Single, Single, Single)

Function to check whether point and symbols overlap

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool Contains(  
    int section,  
    int owner,  
    int book,  
    int page,  
    float x,  
    float y,  
    float offsetX = 0f,  
    float offsetY = 0f  
)  
  
Copy
```

## Parameters

*section*

Type: [SystemInt32](#)

Section code value

*owner*

Type: [SystemInt32](#)

Owner code value

*book*

Type: [SystemInt32](#)

Book code value

*page*

Type: [SystemInt32](#)

The number of the page where the symbol is located

*x*

Type: [SystemSingle](#)

x coordinate

*y*

Type: [SystemSingle](#)

y coordinate

**offsetX (Optional)**

Type: [SystemSingle](#)

Offset x coordinate

**offsetY (Optional)**

Type: [SystemSingle](#)

Offset y coordinate

## Return Value

Type: [Boolean](#)

True if stroke and symbol overlap, false if not

## ► See Also

### Reference

[Symbol Class](#)

[Contains Overload](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Symbol Fields

The [Symbol](#) type exposes the following members.

## ► Fields

Name	Description
  <a href="#">Pixel2DotScaleFactor</a>	

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## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# SymbolPixel2DotScaleFactor Field

**Namespace:** [Neosmartpen.Net.Metadata.Model](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public const float Pixel2DotScaleFactor = 0.14886
```

Field Value

Type: [Single](#)

## ► See Also

[Reference](#)

[Symbol Class](#)

[Neosmartpen.Net.Metadata.Model Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Neosmartpen.Net.Protocol.v1

## Namespace

### ► Classes

Class	Description
 <a href="#">PenCommV1</a>	Provides fuctions that can handle N2 Smartpen.

### ► Interfaces

Interface	Description
 <a href="#">PenCommV1Callbacks</a>	The PenCommV1Callbacks interface models a callback used when the the N2 smart pen needs to notify the client side. Please note that the implementation of the PenSignal run on main read thread. so if you want to do heavy work in callback method block, you have to run your code asynchronously.

## Class Library Documentation for Neo smartpen SDK

# PenCommV1 Class

Provides functions that can handle N2 Smartpen.

## ► Inheritance Hierarchy

[SystemObject](#) **PenComm**

    Neosmartpen.Net.Protocol.v1PenCommV1

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public class PenCommV1 : PenComm
```

The [PenCommV1](#) type exposes the following members.

## ► Constructors

	Name	Description
≡	<a href="#">PenCommV1</a>	Initializes a new instance of the PenCommV1 class

[Top](#)

## ► Properties

	Name	Description
💻	<a href="#">DeviceClass</a>	Returns the Class of Device of the remote device.

(Overrides  
**PenComm.DeviceClass.**)

---

	<a href="#">MaxForce</a>	Gets the maximum level of force sensor.
	<a href="#">Name</a>	Gets or sets a name of PenComm object (Overrides <b>PenComm.Name.</b> )
	<a href="#">Version</a>	Gets a version of PenComm object (Overrides <b>PenComm.Version.</b> )

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## ◀ Methods

Name	Description
 <a href="#">Clean</a>	
 <a href="#">ReqAddUsingNote</a>	Sets the available not
 <a href="#">ReqAddUsingNote(Int32, Int32)</a>	Sets the available not
 <a href="#">ReqAddUsingNote(Int32, Int32)</a>	
 <a href="#">ReqAddUsingNote(Int32, Int32, Int32)</a>	Sets the available pař
 <a href="#">ReqAddUsingNote(Int32, Int32, Int32)</a>	Sets the available not
 <a href="#">ReqInputPassword</a>	Input password if dev

	<a href="#">ReqOfflineData(OfflineDataInfo)</a>	Requests the transmission of offline data.
≡	<a href="#">ReqOfflineData(OfflineDataInfo)</a>	Requests the transmission of offline data.
≡	<a href="#">ReqOfflineDataList</a>	Requests the list of Offline Data.
≡	<a href="#">ReqPenStatus</a>	Request the status of the pen. You can receive result by PenCommV1Callback method.
≡	<a href="#">ReqPenSwUpgrade</a>	Requests the firmware upgrade.
≡	<a href="#">ReqRemoveOfflineData</a>	Request to remove of Offline Data.
≡	<a href="#">ReqSetUpPassword</a>	Change the password.
≡	<a href="#">ReqSetupPenAutoPowerOn</a>	Sets the status of the property that if write the pen, turn it on or down.
≡	<a href="#">ReqSetupPenAutoShutdownTime</a>	Sets the value of the property that if pen stay.
≡	<a href="#">ReqSetupPenBeep</a>	Sets the status of the property that if pen beep.
≡	<a href="#">ReqSetupPenColor</a>	Sets the color of pen. It can change led color of pen. One among next present values: 0x9C3FCD blue = 0x9C3FCD 0xbdbdbd yellow = 0xbdbdbd 0xff2084 mint = 0xff2084 black = 0x000000
≡	<a href="#">ReqSetupPenSensitivity</a>	Sets the value of the property that if pen sensitivity.

property that controls



## SuspendSwUpgrade

To suspend firmware

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### ► See Also

Reference

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1 Constructor

Initializes a new instance of the [PenCommV1](#) class

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ◀ Syntax

```
C# Copy
public PenCommV1(
    PenCommV1Callbacks callback,
    IProtocolParser parser = null,
    IMetadataManager metadataManager = null
)
```

## Parameters

*callback*

Type: [Neosmartpen.Net.Protocol.v1PenCommV1Callbacks](#)

[Missing <param name="callback"/> documentation for  
["M:Neosmartpen.Net.Protocol.v1.PenCommV1.#ctor\(Neosmartpen.](#)

*parser* (Optional)

Type: [IProtocolParser](#)

[Missing <param name="parser"/> documentation for  
["M:Neosmartpen.Net.Protocol.v1.PenCommV1.#ctor\(Neosmartpen.](#)

*metadataManager* (Optional)

Type: [Neosmartpen.Net.MetadataIMetadataManager](#)

[Missing <param name="metadataManager"/> documentation for  
for

["M:Neosmartpen.Net.Protocol.v1.PenCommV1.#ctor\(Neosmartpen.](#)

◀ See Also

Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1 Properties

The [PenCommV1](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">DeviceClass</a>	Returns the Class of Device of the remote device. (Overrides <b>PenComm.DeviceClass.</b> )
	<a href="#">MaxForce</a>	Gets the maximum level of force sensor.
	<a href="#">Name</a>	Gets or sets a name of PenComm object (Overrides <b>PenComm.Name.</b> )
	<a href="#">Version</a>	Gets a version of PenComm object (Overrides <b>PenComm.Version.</b> )

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## ► See Also

[Reference](#)

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1DeviceClass Property

Returns the Class of Device of the remote device.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public override uint DeviceClass { get; }
```

**Property Value**

Type: [UInt32](#)

**Implements**

[IPenCommDeviceClass](#)

## ► See Also

**Reference**

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1MaxForce Property

Gets the maximum level of force sensor.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public short MaxForce { get; }
```

Property Value

Type: [Int16](#)

## ► See Also

Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1Name Property

Gets or sets a name of PenComm object

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public override string Name { get; set; }
```

## Property Value

Type: [String](#)

## Implements

[IPenCommName](#)

## ► See Also

### Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1Version Property

Gets a version of PenComm object

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public override string Version { get; }
```

[Copy](#)

**Property Value**

Type: [String](#)

**Implements**

[IPenCommVersion](#)

## ► See Also

**Reference**

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1 Methods

The [PenCommV1](#) type exposes the following members.

## ◀ Methods

Name	Description
<a href="#">Clean</a>	
<a href="#">ReqAddUsingNote</a>	Sets the available note
<a href="#">ReqAddUsingNote(Int32, Int32)</a>	Sets the available note
<a href="#">ReqAddUsingNote(Int32, Int32, Int32)</a>	Sets the available page
<a href="#">ReqAddUsingNote(Int32, Int32, Int32)</a>	Sets the available note
<a href="#">ReqInputPassword</a>	Input password if device
<a href="#">ReqOfflineData(OfflineDataInfo)</a>	Requests the transmission
<a href="#">ReqOfflineData(OfflineDataInfo)</a>	Requests the transmission
<a href="#">ReqOfflineDataList</a>	Requests the list of Offline
<a href="#">ReqPenStatus</a>	Request the status of pen. You can receive result via PenCommV1Callback method.

---

≡	<a href="#">ReqPenSwUpgrade</a>	Requests the firmware upgrade.
≡	<a href="#">ReqRemoveOfflineData</a>	Request to remove off-line data.
≡	<a href="#">ReqSetUpPassword</a>	Change the password.
≡	<a href="#">ReqSetupPenAutoPowerOn</a>	Sets the status of the property that if write the pen, turn it down.
≡	<a href="#">ReqSetupPenAutoShutdownTime</a>	Sets the value of the property that if pen stay.
≡	<a href="#">ReqSetupPenBeep</a>	Sets the status of the property.
≡	<a href="#">ReqSetupPenColor</a>	Sets the color of pen. It can change led color of pen. One among next present colors: 0x9C3FCD blue = 0x0000FFFF 0xbdbdbd yellow = 0x00FFFF00 0xff2084 mint = 0x20B2AA black = 0x000000
≡	<a href="#">ReqSetupPenSensitivity</a>	Sets the value of the property that controls the pen sensitivity.
≡	<a href="#">SuspendSwUpgrade</a>	To suspend firmware upgrade.

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## ◀ See Also

### Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV1Clean Method

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public void Clean()
```

[Copy](#)

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqAddUsingNote Method

## ► Overload List

Name	Description
<a href="#">ReqAddUsingNote</a>	Sets the available notebook type
<a href="#">ReqAddUsingNote(Int32, Int32)</a>	Sets the available notebook type
<a href="#">ReqAddUsingNote(Int32, Int32)</a>	Sets the available paper type
<a href="#">ReqAddUsingNote(Int32, Int32, Int32)</a>	Sets the available notebook type

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## ► See Also

### Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqAddUsingNote Method

Sets the available notebook type

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqAddUsingNote()
```

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV1 Class](#)

[ReqAddUsingNote Overload](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqAddUsingNote Method (Int32, Int32)

Sets the available notebook type

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqAddUsingNote(  
    int section,  
    int owner  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

**ReqAddUsingNote Overload**  
Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqAddUsingNote Method (Int32, Int32)

**Namespace:** Neosmartpen.Net.Protocol.v1

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqAddUsingNote(  
    int[] section,  
    int[] owner  
)
```

[Copy](#)

## Parameters

*section*

Type: System.Int32

[Missing <param name="section"/> documentation for  
"M:Neosmartpen.Net.Protocol.v1.PenCommV1.ReqAddUsingNote(

*owner*

Type: System.Int32

[Missing <param name="owner"/> documentation for  
"M:Neosmartpen.Net.Protocol.v1.PenCommV1.ReqAddUsingNote(

## Return Value

Type: Boolean

[Missing <returns> documentation for  
"M:Neosmartpen.Net.Protocol.v1.PenCommV1.ReqAddUsingNote(Syste

## ◀ See Also

### Reference

[PenCommV1 Class](#)

[ReqAddUsingNote Overload](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

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## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqAddUsingNote Method (Int32, Int32, Int32)

Sets the available paper type

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ◀ Syntax

```
C#  
public bool ReqAddUsingNote(  
    int section,  
    int owner,  
    int note  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

*note*

Type: [SystemInt32](#)

The Note Id of the paper

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ◀ See Also

### Reference

[PenCommV1 Class](#)

[ReqAddUsingNote Overload](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqAddUsingNote Method (Int32, Int32, Int32)

Sets the available notebook type

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public void ReqAddUsingNote(  
    int section,  
    int owner,  
    int[] notes  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

*notes*

Type: [SystemInt32](#)

The array of Note Id list

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

**ReqAddUsingNote Overload**  
Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqInputPassword Method

Input password if device is locked.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqInputPassword(  
    string password  
)
```

## Parameters

*password*

Type: [SystemString](#)

Specifies the password for authentication. Password is a string

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqOfflineData Method

## ► Overload List

Name	Description
 <a href="#">ReqOfflineData(OfflineDataInfo)</a>	Requests the transmission of data
 <a href="#">ReqOfflineData(OfflineDataInfo)</a>	Requests the transmission of data

[Top](#)

## ► See Also

Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqOfflineData Method (OfflineDataInfo)

Requests the transmission of data

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqOfflineData(  
    OfflineDataInfo note  
)
```

[Copy](#)

## Parameters

*note*

Type: **OfflineDataInfo**

A OfflineDataInfo that specifies the information for the offline data.

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV1 Class](#)

[ReqOfflineData Overload](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqOfflineData Method (OfflineDataInfo)

Requests the transmission of data

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqOfflineData(  
    OfflineDataInfo[] notes  
)
```

## Parameters

*notes*

Type: **OfflineDataInfo**

A OfflineDataInfo that specifies the information for the offline data.

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV1 Class](#)

[ReqOfflineData Overload](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqOfflineDataList Method

Requests the list of Offline data.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqOfflineDataList()
```

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqPenStatus Method

Request the status of pen. If you requested, you can receive result by PenCommV1Callbacks.onReceivedPenStatus method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public bool ReqPenStatus()
```

[Copy](#)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqPenSwUpgrade Method

Requests the firmware installation

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqPenSwUpgrade(  
    string filepath  
)
```

[Copy](#)

## Parameters

*filepath*

Type: [SystemString](#)

absolute path of firmware file

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqRemoveOfflineData Method

Request to remove offline data in device.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqRemoveOfflineData(  
    int section,  
    int owner  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

## Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqSetUpPassword Method

Change the password of device.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetUpPassword(  
    string oldPassword,  
    string newPassword  
)
```

## Parameters

*oldPassword*

Type: [SystemString](#)

Current password

*newPassword*

Type: [SystemString](#)

New password

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

## Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqSetupPenAutoPowerOn Method

Sets the status of the auto power on property that if write the pen, turn on when pen is down.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public bool ReqSetupPenAutoPowerOn(  
    bool enable  
)
```

[Copy](#)

## Parameters

*enable*

Type: [SystemBoolean](#)

[Missing <param name="enable"/> documentation for  
["M:Neosmartpen.Net.Protocol.v1.PenCommV1.ReqSetupPenAutoP](#)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqSetupPenAutoShu Method

Sets the value of the auto shutdown time property that if pen stay idle, shut off the pen.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C# Copy
public bool ReqSetupPenAutoShutdownTime(
    short minute
)
```

## Parameters

*minute*

Type: [SystemInt16](#)

minute of maximum idle time, staying power on (0~)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqSetupPenBeep Method

Sets the status of the beep property.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqSetupPenBeep(  
    bool enable  
)
```

[Copy](#)

## Parameters

*enable*

Type: [SystemBoolean](#)

true if you want to listen sound of pen, otherwise false.

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqSetupPenColor Method

Sets the color of pen ink. If you want to change led color of pen, you should choose one among next preset values. violet = 0x9C3FCD blue = 0x3c6bf0 gray = 0xbdbdbd yellow = 0xfbcb26 pink = 0xff2084 mint = 0x27e0c8 red = 0xf93610 black = 0x000000

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetupPenColor(  
    int rgbcOLOR  
)
```

## Parameters

*rgbcOLOR*

Type: [SystemInt32](#)

integer type color formatted 0xRRGGBB

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV1ReqSetupPenSensitivity Method

Sets the value of the pen's sensitivity property that controls the force sensor of pen.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public bool ReqSetupPenSensitivity(  
    short level  
)
```

[Copy](#)

## Parameters

*level*

Type: [SystemInt16](#)

the value of sensitivity. (0~4, 0 means maximum sensitivity)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1SuspendSwUpgrade Method

To suspend firmware installation.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool SuspendSwUpgrade()
```

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV1 Class](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1Callbacks Interface

The PenCommV1Callbacks interface models a callback used when the the N2 smart pen needs to notify the client side. Please note that the implementation of the PenSignal run on main read thread. so if you want to do heavy work in callback method block, you have to run your code asynchronously.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public interface PenCommV1Callbacks
```

[Copy](#)

The [PenCommV1Callbacks](#) type exposes the following members.

## ► Methods

Name	Description
 <a href="#">onAvailableNoteAccepted</a>	Occurs when accepted
 <a href="#">onConnected</a>	Fired when a handle in yo
 <a href="#">onDisconnected</a>	Fired when a to handle in
 <a href="#">onErrorDetected</a>	Occur when
 <a href="#">onFinishedOfflineDownload</a>	Fired when f

handle in yo

≡	<a href="#">onOfflineDataList</a>	Fired when r smartpen. W can request c ReqOfflineD
≡	<a href="#">onPenAuthenticated</a>	Fired when y When it firec
≡	<a href="#">onPenAutoPowerOnSetUpResponse</a>	Fired when p Sets the statu PenCommV
≡	<a href="#">onPenAutoShutdownTimeSetUpResponse</a>	Fired when p sets the value PenCommV method.
≡	<a href="#">onPenBeepSetUpResponse</a>	Fired when p Sets the statu PenCommV
≡	<a href="#">onPenColorSetUpResponse</a>	Fired when p Sets the colo PenCommV
≡	<a href="#">onPenHoverSetUpResponse</a>	Fired when p sets the statu PenCommV
≡	<a href="#">onPenPasswordRequest</a>	Fired when p side. When y to enter pass PenCommV

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≡	onPenPasswordSetUpResponse	Fired when pen change password. PenCommV1
≡	onPenSensitivitySetUpResponse	Fired when pen sets the value. PenCommV1
≡	onReceivedFirmwareUpdateResult	Fired when firmware override to hardware.
≡	onReceivedFirmwareUpdateStatus	This method will be called when it need status of an firmware update performed.
≡	onReceiveDot	Fired when receiver needs to handle incoming dot.
≡	onReceivedPenStatus	Fired when receiver needs to handle incoming pen status.
≡	onReceiveOfflineStrokes	Fired when receiver receives Array of strokes. This method can be called in case of offline note.
≡	onStartOfflineDownload	Fired when start offline download. This method can be called in case of offline note.
≡	onSymbolDetected	Occur when symbol detected.
≡	onUpdateOfflineDownload	This method will be called when it need to update offline download.

status of an c  
performed.

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## onUpDown

Fired when r  
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your own co

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[Top](#)

## ► See Also

### Reference

[Neosmartpen.Net.Protocol.v1 Namespace](#)

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## Class Library Documentation for Neo smartpen SDK

# PenCommV1Callbacks Methods

The [PenCommV1Callbacks](#) type exposes the following members.

## ▲ Methods

Name	Description
<a href="#">onAvailableNoteAccepted</a>	Occurs when a note is accepted
<a href="#">onConnected</a>	Fired when a connection handle is received
<a href="#">onDisconnected</a>	Fired when a connection handle is lost
<a href="#">onErrorDetected</a>	Occurs when an error is detected
<a href="#">onFinishedOfflineDownload</a>	Fired when finished download handle is received
<a href="#">onOfflineDataList</a>	Fired when requested offline data list from smartpen. Will be able to request current ReqOfflineData
<a href="#">onPenAuthenticated</a>	Fired when your pen is authenticated. When it fires
<a href="#">onPenAutoPowerOnSetUpResponse</a>	Fired when power on response Sets the status of PenCommV1

≡	<a href="#">onPenAutoShutdownTimeSetUpResponse</a>	Fired when p sets the value PenCommV method.
≡	<a href="#">onPenBeepSetUpResponse</a>	Fired when p Sets the statu PenCommV
≡	<a href="#">onPenColorSetUpResponse</a>	Fired when p Sets the colo PenCommV
≡	<a href="#">onPenHoverSetUpResponse</a>	Fired when p sets the statu PenCommV
≡	<a href="#">onPenPasswordRequest</a>	Fired when p side. When y to enter pass PenCommV
≡	<a href="#">onPenPasswordSetUpResponse</a>	Fired when p change passw PenCommV
≡	<a href="#">onPenSensitivitySetUpResponse</a>	Fired when p sets the value PenCommV
≡	<a href="#">onReceivedFirmwareUpdateResult</a>	Fired when f override to h
≡	<a href="#">onReceivedFirmwareUpdateStatus</a>	This method

when it need  
status of an f  
performed.

≡	<a href="#">onReceiveDot</a>	Fired when r to handle in y
≡	<a href="#">onReceivedPenStatus</a>	Fired when r handle in you
≡	<a href="#">onReceiveOfflineStrokes</a>	Fired when r Array of stro method can l of offline not
≡	<a href="#">onStartOfflineDownload</a>	Fired when s handle in you
≡	<a href="#">onSymbolDetected</a>	Occur when
≡	<a href="#">onUpdateOfflineDownload</a>	This method when it need status of an c performed.
≡	<a href="#">onUpDown</a>	Fired when r your force se your own co

[Top](#)

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonAvailableNoteAccepted Method

Occurs when the note information to be used is accepted

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onAvailableNoteAccepted(  
    IPenComm sender,  
    bool result  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1Callback.onConnected Method

Fired when a connection is made, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onConnected(  
    IPenComm sender,  
    int maxForce,  
    string firmwareVersion  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*maxForce*

Type: [SystemInt32](#)

maximum level of force

*firmwareVersion*

Type: [SystemString](#)

current version of pen's firmware

## ► See Also

[Reference](#)

[PenCommV1Callbacks Interface](#)

## Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonDisconnect Method

Fired when a connection is destroyed, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onDisconnected(  
    IPenComm sender  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonErrorDetected Method

Occur when error received

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onErrorDetected(  
    IPenComm sender,  
    ErrorType errorType,  
    long timestamp,  
    Dot dot,  
    string extraData  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*errorType*

Type: [ErrorType](#)

Error Message Type

*timestamp*

Type: [SystemInt64](#)

Timestamp

*dot*

Type: [Neosmartpen.NetDot](#)

[Missing <param name="dot"/> documentation for

**"M:Neosmartpen.Net.Protocol.v1.PenCommV1Callbacks.onErrorD**

*extraData*

Type: [SystemString](#)

[Missing <param name="extraData"/> documentation for

**"M:Neosmartpen.Net.Protocol.v1.PenCommV1Callbacks.onErrorD**

## ► See Also

Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonFinishedO Method

Fired when finished downloading, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onFinishedOfflineDownload(  
    IPenComm sender,  
    bool result  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

result of downloading

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonOfflineData Method

Fired when receive offline data list in N2 smartpen. When you received this signal, you can request offline data to PenCommV1 by ReqOfflineData method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onOfflineDataList(  
    IPenComm sender,  
    OfflineDataInfo[] offlineNotes  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*offlineNotes*

Type: [OfflineDataInfo](#)

array of OfflineNote object

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonPenAuther Method

Fired when your connection is authenticated. When it fired, you can use all function of pen.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onPenAuthenticated(  
    IPenComm sender  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonPenAutoPowerOnResponse Method

Fired when pen response to your request that Sets the status of the auto power on property by PenCommV1.ReqSetupPenBeep method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenAutoPowerOnSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonPenAutoS Method

Fired when pen response to your request that sets the value of the auto shutdown time by PenCommV1.ReqSetupPenAutoShutdownTime method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C# Copy
void onPenAutoShutdownTimeSetUpResponse(
    IPenComm sender,
    bool result
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonPenBeepS Method

Fired when pen response to your request that Sets the status of the beep property by PenCommV1.ReqSetupPenBeep method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onPenBeepSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonPenColorS Method

Fired when pen response to your request that Sets the color of pen ink by PenCommV1.ReqSetupPenColor method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onPenColorSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1Callback.onPenHoverSetupResponse Method

Fired when pen response to your request that sets the status of the hover mode on property by PenCommV1.ReqSetupHoverMode method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenHoverSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonPenPassw Method

Fired when pen request a password to client side. When you received this signal, you have to enter password by PenCommV1.InputPassword method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onPenPasswordRequest(  
    IPenComm sender,  
    int retryCount,  
    int resetCount  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*retryCount*

Type: [SystemInt32](#)

count of enter password

*resetCount*

Type: [SystemInt32](#)

if retry count reached reset count, delete all data in pen

## ► See Also

### Reference

PenCommV1Callbacks Interface  
Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonPenPasswordSetUpResponse Method

Fired when pen response to your request that change password by PenCommV1.InputPassword method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenPasswordSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonPenSensit Method

Fired when pen response to your request that sets the value of the sensitivity property by PenCommV1.ReqSetupPenSensitivity method.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenSensitivitySetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonReceivedF Method

Fired when finished updating firmware, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onReceivedFirmwareUpdateResult(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if updating is successfully finished, otherwise false

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1Callback.onReceivedFirmwareUpdateStatus Method

This method is invoked by the PenCommV1 when it needs to notify the client side about the status of an firmware update operation being performed.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onReceivedFirmwareUpdateStatus(  
    IPenComm sender,  
    int total,  
    int amountDone  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*total*

Type: [SystemInt32](#)

amount of total work

*amountDone*

Type: [SystemInt32](#)

amount of work done

## ► See Also

### Reference

PenCommV1Callbacks Interface  
Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonReceiveDot Method

Fired when receive a dot successfully, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onReceiveDot(  
    IPenComm sender,  
    Dot dot  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*dot*

Type: [Neosmartpen.NetDot](#)

model object of dot

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1Callback.onReceivedF Method

Fired when received status of pen, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onReceivedPenStatus(  
    IPenComm sender,  
    int timeoffset,  
    long timetick,  
    int maxForce,  
    int battery,  
    int usedmem,  
    int pencolor,  
    bool autopowerMode,  
    bool accelerationMode,  
    bool hoverMode,  
    bool beep,  
    short autosutdownTime,  
    short penSensitivity,  
    string modelName  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*timeoffset*

Type: [SystemInt32](#)

timestamp offset, you should ignore it

*timetick*

Type: [SystemInt64](#)

timestamp, pen knew

*maxForce*

Type: [SystemInt32](#)

maximum level of pressure sensor

*battery*

Type: [SystemInt32](#)

battery status of pen

*usedmem*

Type: [SystemInt32](#)

memory status of pen

*pencolor*

Type: [SystemInt32](#)

color status of pen

*autopowerMode*

Type: [SystemBoolean](#)

the status of the auto power on property that if write the unpowered pen, power on.

*accelerationMode*

Type: [SystemBoolean](#)

the status of the acceleration sensor property

*hoverMode*

Type: [SystemBoolean](#)

the status of the hover mode property

*beep*

Type: [SystemBoolean](#)

the status of the beep property

*autosutdownTime*

Type: [SystemInt16](#)

the status of the auto shutdown time property

*penSensitivity*

Type: [SystemInt16](#)

the status of pen's sensitivity property

*modelName*

Type: [SystemString](#)

[Missing <param name="modelName"/> documentation for  
"M:Neosmartpen.Net.Protocol.v1.PenCommV1Callbacks.onReceive<

## ◀ See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonReceiveOfMethod

Fired when received one in all offline data. Array of stroke is consist of single note. This method can be invoked several time as number of offline note.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onReceiveOfflineStrokes(  
    IPenComm sender,  
    Stroke[] strokes,  
    Symbol[] symbols  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*strokes*

Type: [Neosmartpen.NetStroke](#)

array of stroke object

*symbols*

Type: [Neosmartpen.Net.Metadata.ModelSymbol](#)

array of symbol object

## ► See Also

### Reference

PenCommV1Callbacks Interface  
Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonStartOfflineDownload Method

Fired when started downloading, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onStartOfflineDownload(  
    IPenComm sender  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonSymbolDe Method

Occur when you write on a symbol

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onSymbolDetected(  
    IPenComm sender,  
    List<Symbol> symbols  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*symbols*

Type: [System.Collections.GenericListSymbol](#)

The detected symbols

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonUpdateOff Method

This method is invoked by the PenCommV1 when it needs to notify the client side about the status of an download operation being performed.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onUpdateOfflineDownload(  
    IPenComm sender,  
    int total,  
    int amountDone  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*total*

Type: [SystemInt32](#)

amount of total work

*amountDone*

Type: [SystemInt32](#)

amount of work done

## ► See Also

### Reference

PenCommV1Callbacks Interface  
Neosmartpen.Net.Protocol.v1 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV1CallbacksonUpDown Method

Fired when receive up or down signal from your force sensor of pen, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v1](#)

**Assembly:** Neosmartpen.Net.Protocol.v1 (in  
Neosmartpen.Net.Protocol.v1.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onUpDown(  
    IPenComm sender,  
    bool isUp  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*isUp*

Type: [SystemBoolean](#)

false if N2 detected pressure, otherwise false.

## ► See Also

### Reference

[PenCommV1Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v1 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Neosmartpen.Net.Protocol.v2 Namespace

## ► Classes

Class	Description
 <a href="#">PenCommV2</a>	Provides fuctions that can handle F50, F120 Smartpen

## ► Interfaces

Interface	Description
 <a href="#">PenCommV2Callbacks</a>	The PenCommV2Callbacks interface models a callback used when the the Neo smartpen needs to notify the client side. Please note that the implementation of the PenCommV2Callbacks run on main read thread. so if you want to do heavy work in callback method block, you have to run your code asynchronously.



## Class Library Documentation for Neo smartpen SDK

# PenCommV2 Class

Provides functions that can handle F50, F120 Smartpen

## ► Inheritance Hierarchy

[SystemObject](#) **PenComm**

    Neosmartpen.Net.Protocol.v2PenCommV2

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public class PenCommV2 : PenComm
```

The [PenCommV2](#) type exposes the following members.

## ► Constructors

	Name	Description
≡	<a href="#">PenCommV2</a>	Initializes a new instance of the PenCommV2 class

[Top](#)

## ► Properties

	Name	Description
	<a href="#">DeviceClass</a>	Returns the Class of Device of the remote device.

(Overrides  
**PenComm.DeviceClass.**)

	<a href="#">DeviceName</a>	Gets a name of a device.
	<a href="#">DeviceType</a>	
	<a href="#">FirmwareVersion</a>	Gets a version of a firmware.
	<a href="#">HoverMode</a>	
	<a href="#">MacAddress</a>	Gets the device identifier.
	<a href="#">MaxForce</a>	Gets the maximum level of force sensor.
	<a href="#">Name</a>	Gets or sets a name of PenComm object (Overrides <b>PenComm.Name.</b> )
	<a href="#">ProtocolVersion</a>	Gets a version of a protocol.
	<a href="#">SubName</a>	
	<a href="#">Version</a>	Gets a version of PenComm object (Overrides <b>PenComm.Version.</b> )

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## ◀ Methods

Name	Description
	

	CreateProfile	Request to create profile.
≡■	DeleteProfile	Request to delete profile.
≡■	DeleteProfileValues	Request to delete data.
≡■	GetProfileInfo	Request information.
≡■	IsSupportPenProfile	
≡■	ReadProfileValues	Request to get data from profile.
≡■	ReqAddUsingNote	Sets the available note.
≡■	ReqAddUsingNote(Int32, Int32)	Set the available note.
≡■	ReqAddUsingNote(Int32, Int32, Int32)	Sets the available note.
≡■	ReqBeepAndLight	Request Beeps and lights.
≡■	ReqInputPassword	Input password if device is locked.
≡■	ReqOfflineData	Requests the transmission of offline data.
≡■	ReqOfflineDataList	Requests the list of Offline Data.
≡■	ReqOfflineDataPageList	Requests the list of Offline Data pages.
≡■	ReqPenStatus	Request the status of the pen. You can receive results via PenCommV2Callback method.
≡■	ReqPenSwUpgrade	Requests the firmware upgrade.

	<a href="#">ReqRemoveOfflineData</a>	Request to remove of
≡	<a href="#">ReqSetupBtLocalName</a>	Sets the local name of property.
≡	<a href="#">ReqSetupDataTransmissionType</a>	Sets the status of data property that determines type is event or request.
≡	<a href="#">ReqSetupDownSampling</a>	Sets the status of the property. Downsampling avoiding unnecessary omitting coordinates.
≡	<a href="#">ReqSetupOfflineData</a>	Sets the offline data condition offline data or not.
≡	<a href="#">ReqSetUpPassword</a>	Change the password
≡	<a href="#">ReqSetupPenAutoPowerOn</a>	Sets the status of the property that if write the pen, turn down.
≡	<a href="#">ReqSetupPenAutoShutdownTime</a>	Sets the value of the property that if pen stay
≡	<a href="#">ReqSetupPenBeep</a>	Sets the status of the property.
≡	<a href="#">ReqSetupPenCapPower</a>	Sets the status of the property.
≡	<a href="#">ReqSetupPenColor</a>	Sets the color of LED
≡	<a href="#">ReqSetupPenFscSensitivity</a>	Sets the value of the property that controls

type) of pen.

≡	<a href="#">ReqSetupPenSensitivity</a>	Sets the value of the <code>PenSensitivity</code> property that controls the pressure sensitivity of pen.
≡	<a href="#">ReqSetupTime</a>	Sets the RTC timestamp.
≡	<a href="#">ReqSetupUsbMode</a>	Sets the status of usb mode. It can determine if usb mode can choose between I/O mode and host mode. It can also be used as a removable device which is capable of hot plugging and communication, when it is connected to host.
≡	<a href="#">SuspendSwUpgrade</a>	To suspend firmware upgrade.
≡	<a href="#">WriteProfileValues</a>	Request to write data to profile.

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## Fields

Name	Type
<a href="#">PEN_PROFILE_SUPPORT_PROTOCOL_VERSION</a>	<code>ProtocolVersion</code>
<a href="#">SupportedProtocolVersion</a>	<code>ProtocolVersion</code>

[Top](#)

## See Also

### Reference

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2 Constructor

Initializes a new instance of the [PenCommV2](#) class

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ◀ Syntax

```
C# Copy
public PenCommV2(
    PenCommV2Callbacks handler,
    IProtocolParser parser = null,
    IMetadataManager metadataManager = null
)
```

## Parameters

*handler*

Type: [Neosmartpen.Net.Protocol.v2PenCommV2Callbacks](#)

[Missing <param name="handler"/> documentation for  
"M:[Neosmartpen.Net.Protocol.v2.PenCommV2.#ctor\(Neosmartpen.](#)

*parser* (Optional)

Type: [IProtocolParser](#)

[Missing <param name="parser"/> documentation for  
"M:[Neosmartpen.Net.Protocol.v2.PenCommV2.#ctor\(Neosmartpen.](#)

*metadataManager* (Optional)

Type: [Neosmartpen.Net.MetadataIMetadataManager](#)

[Missing <param name="metadataManager"/> documentation  
for

"M:[Neosmartpen.Net.Protocol.v2.PenCommV2.#ctor\(Neosmartpen.](#)

◀ See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2 Properties

The [PenCommV2](#) type exposes the following members.

## ► Properties

	Name	Description
	<a href="#">DeviceClass</a>	Returns the Class of Device of the remote device. (Overrides <a href="#">PenComm.DeviceClass.</a> )
	<a href="#">DeviceName</a>	Gets a name of a device.
	<a href="#">DeviceType</a>	
	<a href="#">FirmwareVersion</a>	Gets a version of a firmware.
	<a href="#">HoverMode</a>	
	<a href="#">MacAddress</a>	Gets the device identifier.
	<a href="#">MaxForce</a>	Gets the maximum level of force sensor.
	<a href="#">Name</a>	Gets or sets a name of PenComm object (Overrides <a href="#">PenComm.Name.</a> )
	<a href="#">ProtocolVersion</a>	Gets a version of a protocol.

## SubName

---



### Version

Gets a version of PenComm object  
(Overrides **PenComm.Version.**)

---

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## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2DeviceClass Property

Returns the Class of Device of the remote device.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public override uint DeviceClass { get; }
```

**Property Value**

Type: [UInt32](#)

**Implements**

[IPenCommDeviceClass](#)

## ► See Also

**Reference**

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2DeviceName Property

Gets a name of a device.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string DeviceName { get; }
```

Property Value

Type: [String](#)

## ► See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2DeviceType Property

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public short DeviceType { get; }
```

Property Value

Type: [Int16](#)

## ► See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2FirmwareVersion Property

Gets a version of a firmware.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string FirmwareVersion { get; }
```

Property Value

Type: [String](#)

## ► See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2HoverMode Property

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool HoverMode { get; }
```

Property Value

Type: [Boolean](#)

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2MacAddress Property

Gets the device identifier.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string MacAddress { get; }
```

Property Value

Type: [String](#)

## ► See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2MaxForce Property

Gets the maximum level of force sensor.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public short MaxForce { get; }
```

[Copy](#)

**Property Value**

Type: [Int16](#)

## ► See Also

**Reference**

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Name Property

Gets or sets a name of PenComm object

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public override string Name { get; set; }
```

## Property Value

Type: [String](#)

## Implements

[IPenCommName](#)

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ProtocolVersion Property

Gets a version of a protocol.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string ProtocolVersion { get; }
```

Property Value

Type: [String](#)

## ► See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2SubName Property

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public string SubName { get; }
```

Property Value

Type: [String](#)

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Version Property

Gets a version of PenComm object

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public override string Version { get; }
```

[Copy](#)

**Property Value**

Type: [String](#)

**Implements**

[IPenCommVersion](#)

## ► See Also

**Reference**

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2 Methods

The [PenCommV2](#) type exposes the following members.

## ▲ Methods

Name	Description
<a href="#">CreateProfile</a>	Request to create profile
<a href="#">DeleteProfile</a>	Request to delete profile
<a href="#">DeleteProfileValues</a>	Request to delete data values
<a href="#">GetProfileInfo</a>	Request information about profile
<a href="#">IsSupportPenProfile</a>	
<a href="#">ReadProfileValues</a>	Request to get data from profile
<a href="#">ReqAddUsingNote</a>	Sets the available note
<a href="#">ReqAddUsingNote(Int32, Int32)</a>	Set the available note
<a href="#">ReqAddUsingNote(Int32, Int32, Int32)</a>	Sets the available note
<a href="#">ReqBeepAndLight</a>	Request Beeps and lights
<a href="#">ReqInputPassword</a>	Input password if device is locked
<a href="#">ReqOfflineData</a>	Requests the transmission of offline data
<a href="#">ReqOfflineDataList</a>	Requests the list of offline data

≡	ReqOfflineDataPageList	Requests the list of O
≡	ReqPenStatus	Request the status of you can receive result PenCommV2Callback method.
≡	ReqPenSwUpgrade	Requests the firmwar
≡	ReqRemoveOfflineData	Request to remove of
≡	ReqSetupBtLocalName	Sets the local name o property.
≡	ReqSetupDataTransmissionType	Sets the status of data property that determine type is event or requ
≡	ReqSetupDownSampling	Sets the status of the property. Downsample avoiding unnecessary omitting coordinates
≡	ReqSetupOfflineData	Sets the offline data c offline data or not.
≡	ReqSetUpPassword	Change the password
≡	ReqSetupPenAutoPowerOn	Sets the status of the that if write the pen, t down.
≡	ReqSetupPenAutoShutdownTime	Sets the value of the property that if pen st

	<a href="#">ReqSetupPenBeep</a>	Sets the status of the
≡	<a href="#">ReqSetupPenCapPower</a>	Sets the status of the property.
≡	<a href="#">ReqSetupPenColor</a>	Sets the color of LED
≡	<a href="#">ReqSetupPenFscSensitivity</a>	Sets the value of the property that controls type) of pen.
≡	<a href="#">ReqSetupPenSensitivity</a>	Sets the value of the property that controls of pen.
≡	<a href="#">ReqSetupTime</a>	Sets the RTC timestamp
≡	<a href="#">ReqSetupUsbMode</a>	Sets the status of usb determine if usb mod can choose between I used as a removable which is capable of h communication, whe
≡	<a href="#">SuspendSwUpgrade</a>	To suspend firmware
≡	<a href="#">WriteProfileValues</a>	Request to write data

[Top](#)

## ▲ See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV2CreateProfile Method

Request to create profile

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public void CreateProfile(  
    string profileName,  
    byte[] password  
)
```

[Copy](#)

## Parameters

*profileName*

Type: [SystemString](#)

Name of the profile to be created

*password*

Type: [SystemByte](#)

Password of profile

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2DeleteProfile Method

Request to delete profile

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public void DeleteProfile(  
    string profileName,  
    byte[] password  
)
```

[Copy](#)

## Parameters

*profileName*

Type: [SystemString](#)

Name of the profile to be deleted

*password*

Type: [SystemByte](#)

password of profile

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2DeleteProfileValues Method

Request to delete data

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public void DeleteProfileValues(  
    string profileName,  
    byte[] password,  
    string[] keys  
)
```

[Copy](#)

## Parameters

*profileName*

Type: [SystemString](#)

profile name

*password*

Type: [SystemByte](#)

password

*keys*

Type: [SystemString](#)

key array

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

## Neosmartpen.Net.Protocol.v2 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2GetProfileInfo Method

Request information of the profile

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public void GetProfileInfo(  
    string profileName  
)
```

[Copy](#)

## Parameters

*profileName*

Type: [System.String](#)  
profile's name

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2IsSupportPenProfile Method

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool IsSupportPenProfile()
```

**Return Value**

Type: Boolean

[Missing <returns> documentation for

"M:Neosmartpen.Net.Protocol.v2.PenCommV2.IsSupportPenProfile"]

## ► See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReadProfileValues Method

Request to get data from profile

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public void ReadProfileValues(  
    string profileName,  
    string[] keys  
)
```

## Parameters

*profileName*

Type: [SystemString](#)

profile name

*keys*

Type: [SystemString](#)

key array

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqAddUsingNote Method

## ► Overload List

Name	Description
 <a href="#">ReqAddUsingNote</a>	Sets the available notebook type
 <a href="#">ReqAddUsingNote(Int32, Int32)</a>	Set the available notebook type lits
 <a href="#">ReqAddUsingNote(Int32, Int32, Int32)</a>	Sets the available notebook type

[Top](#)

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqAddUsingNote Method

Sets the available notebook type

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqAddUsingNote()
```

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[ReqAddUsingNote Overload](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqAddUsingNote Method (Int32, Int32)

Set the available notebook type lits

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqAddUsingNote(  
    int[] section,  
    int[] owner  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The array of section Id of the paper list

*owner*

Type: [SystemInt32](#)

The array of owner Id of the paper list

## Return Value

Type: Boolean

[Missing <returns> documentation for

"M:Neosmartpen.Net.Protocol.v2.PenCommV2.ReqAddUsingNote(Syste

## ► See Also

Reference

PenCommV2 Class  
ReqAddUsingNote Overload  
Neosmartpen.Net.Protocol.v2 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqAddUsingNote Method (Int32, Int32, Int32)

Sets the available notebook type

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ◀ Syntax

```
C#  
public bool ReqAddUsingNote(  
    int section,  
    int owner,  
    int[] notes = null  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

*notes (Optional)*

Type: [SystemInt32](#)

The array of Note Id list

## Return Value

Type: [Boolean](#)

[Missing <returns> documentation for

"M:Neosmartpen.Net.Protocol.v2.PenCommV2.ReqAddUsingNote(Syste

## ◀ See Also

### Reference

[PenCommV2 Class](#)

[ReqAddUsingNote Overload](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqBeepAndLight Method

Request Beeps and light on.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqBeepAndLight()
```

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqInputPassword Method

Input password if device is locked.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqInputPassword(  
    string password  
)
```

## Parameters

*password*

Type: [SystemString](#)

Specifies the password for authentication. Password is a string

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqOfflineData Method

Requests the transmission of data

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqOfflineData(  
    int section,  
    int owner,  
    int note,  
    bool deleteOnFinished = true,  
    int[] pages = null  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

*note*

Type: [SystemInt32](#)

The Note Id of the paper

*deleteOnFinished (Optional)*

Type: [SystemBoolean](#)

delete offline data when transmission is finished,

*pages* (Optional)

Type: [SystemInt32](#)

The number of page

**Return Value**

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

◀ See Also

**Reference**

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqOfflineDataList Method

Requests the list of Offline data.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqOfflineDataList(  
    int section = -1,  
    int owner = -1  
)
```

## Parameters

### *section* (Optional)

Type: [SystemInt32](#)

The Section Id of the paper

### *owner* (Optional)

Type: [SystemInt32](#)

The Owner Id of the paper

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

## Neosmartpen.Net.Protocol.v2 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqOfflineDataPageList Method

Requests the list of Offline data.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqOfflineDataPageList(  
    int section,  
    int owner,  
    int note  
)
```

[Copy](#)

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

*note*

Type: [SystemInt32](#)

The Note Id of the paper

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

◀ See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqPenStatus Method

Request the status of pen. If you requested, you can receive result by PenCommV2Callbacks.onReceivedPenStatus method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public bool ReqPenStatus()
```

[Copy](#)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqPenSwUpgrade Method

Requests the firmware installation

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqPenSwUpgrade(  
    string filepath,  
    string version  
)
```

[Copy](#)

## Parameters

*filepath*

Type: [SystemString](#)

absolute path of firmware file

*version*

Type: [SystemString](#)

version of firmware, this value is string

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

## Neosmartpen.Net.Protocol.v2 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqRemoveOfflineData Method

Request to remove offline data in device.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqRemoveOfflineData(  
    int section,  
    int owner,  
    int[] notes  
)
```

## Parameters

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

*notes*

Type: [SystemInt32](#)

[Missing <param name="notes"/> documentation for

"M:Neosmartpen.Net.Protocol.v2.PenCommV2.ReqRemoveOffline"]

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

◀ See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupBtLocalName Method

Sets the local name of the bluetooth device property.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetupBtLocalName(  
    string btLocalName  
)
```

## Parameters

*btLocalName*

Type: [SystemString](#)

Bluetooth local name to set

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupDataTransmi Method

Sets the status of data transmission type property that determine if data transmission type is event or request-response.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetupDataTransmissionType(  
    DataTransmissionType type  
)
```

## Parameters

*type*

Type: **DataTransmissionType**  
enum of DataTransmissionType

## Return Value

Type: **Boolean**

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupDownSampling Method

Sets the status of the down sampling property. Downsampling is a function of avoiding unnecessary data communication by omitting coordinates at the same position.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetupDownSampling(  
    bool enable  
)
```

## Parameters

*enable*

Type: [SystemBoolean](#)

true if you want to enable down sampling, otherwise false.

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupOfflineData Method

Sets the offline data option whether save offline data or not.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetupOfflineData(  
    bool enable  
)
```

## Parameters

*enable*

Type: [SystemBoolean](#)

true if you want to enable offline mode, otherwise false.

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetUpPassword Method

Change the password of device.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetUpPassword(  
    string oldPassword,  
    string newPassword = ""  
)
```

## Parameters

*oldPassword*

Type: [SystemString](#)

Current password

*newPassword* **(Optional)**

Type: [SystemString](#)

New password

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

## Neosmartpen.Net.Protocol.v2 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupPenAutoPowerOn Method

Sets the status of the auto power on property that if write the pen, turn on when pen is down.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public bool ReqSetupPenAutoPowerOn(  
    bool enable  
)
```

[Copy](#)

## Parameters

*enable*

Type: [SystemBoolean](#)

[Missing <param name="enable"/> documentation for  
"M:Neosmartpen.Net.Protocol.v2.PenCommV2.ReqSetupPenAutoP

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupPenAutoShu Method

Sets the value of the auto shutdown time property that if pen stay idle, shut off the pen.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetupPenAutoShutdownTime(  
    short minute  
)
```

## Parameters

*minute*

Type: [SystemInt16](#)

minute of maximum idle time, staying power on (0~)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupPenBeep Method

Sets the status of the beep property.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqSetupPenBeep(  
    bool enable  
)
```

[Copy](#)

## Parameters

*enable*

Type: [SystemBoolean](#)

true if you want to listen sound of pen, otherwise false.

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupPenCapPow Method

Sets the status of the power control by cap on property.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetupPenCapPower(  
    bool enable  
)
```

## Parameters

*enable*

Type: [SystemBoolean](#)

[Missing <param name="enable"/> documentation for  
["M:Neosmartpen.Net.Protocol.v2.PenCommV2.ReqSetupPenCapPo](#)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupPenColor Method

Sets the color of LED.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool ReqSetupPenColor(  
    int color  
)
```

## Parameters

*color*

Type: [SystemInt32](#)

[Missing <param name="color"/> documentation for

"M:Neosmartpen.Net.Protocol.v2.PenCommV2.ReqSetupPenColor()

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupPenFscSens Method

Sets the value of the pen's sensitivity property that controls the force sensor(c-type) of pen.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public bool ReqSetupPenFscSensitivity(  
    short step  
)
```

[Copy](#)

## Parameters

*step*

Type: [SystemInt16](#)

[Missing <param name="step"/> documentation for  
["M:Neosmartpen.Net.Protocol.v2.PenCommV2.ReqSetupPenFscSe](#)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupPenSensitivity Method

Sets the value of the pen's sensitivity property that controls the force sensor(r-type) of pen.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public bool ReqSetupPenSensitivity(  
    short step  
)
```

[Copy](#)

## Parameters

*step*

Type: [SystemInt16](#)

[Missing <param name="step"/> documentation for  
["M:Neosmartpen.Net.Protocol.v2.PenCommV2.ReqSetupPenSensit](#)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupTime Method

Sets the RTC timestamp.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqSetupTime(  
    long timetick  
)
```

[Copy](#)

## Parameters

*timetick*

Type: [SystemInt64](#)

milisecond timestamp tick (from 1970-01-01)

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2ReqSetupUsbMode Method

Sets the status of usb mode property that determine if usb mode is disk or bulk. You can choose between Disk mode, which is used as a removable disk, and Bulk mode, which is capable of high volume data communication, when connected with usb

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public bool ReqSetupUsbMode(  
    UsbMode mode  
)
```

[Copy](#)

## Parameters

*mode*

Type: **UsbMode**

enum of UsbMode

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)



## Class Library Documentation for Neo smartpen SDK

# PenCommV2SuspendSwUpgrade Method

To suspend firmware installation.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public bool SuspendSwUpgrade()
```

## Return Value

Type: [Boolean](#)

true if the request is accepted; otherwise, false.

## ► See Also

### Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2WriteProfileValues Method

Request to write data

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public void WriteProfileValues(  
    string profileName,  
    byte[] password,  
    string[] keys,  
    byte[][] data  
)
```

[Copy](#)

## Parameters

*profileName*

Type: [SystemString](#)

profile name

*password*

Type: [SystemByte](#)

password

*keys*

Type: [SystemString](#)

key array

*data*

Type: [SystemByte](#)

data

◀ See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2 Fields

The [PenCommV2](#) type exposes the following members.

## ► Fields

Name	
◆ <a href="#">S</a>	PEN_PROFILE_SUPPORT_PROTOCOL_VERSION
◆ <a href="#">S</a>	SupportedProtocolVersion

[Top](#)

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2PEN\_PROFILE\_SUPP Field

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public static readonly float PEN_PROFILE_SUPPORT_
```

Field Value

Type: [Single](#)

## ► See Also

[Reference](#)

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2SupportedProtocolVersion Field

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C# Copy
public const string SupportedProtocolVersion = "2"
```

Field Value

Type: [String](#)

## ► See Also

Reference

[PenCommV2 Class](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callbacks Interface

The PenCommV2Callbacks interface models a callback used when the Neo smartpen needs to notify the client side. Please note that the implementation of the PenCommV2Callbacks run on main read thread. so if you want to do heavy work in callback method block, you have to run your code asynchronously.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public interface PenCommV2Callbacks
```

The [PenCommV2Callbacks](#) type exposes the following members.

## ► Methods

Name	Description
<a href="#">onAvailableNoteAccepted</a>	Occurs when a note has been accepted
<a href="#">onConnected</a>	Fired when the connection handle is established
<a href="#">onDisconnected</a>	Fired when the connection handle is disconnected
<a href="#">onErrorDetected</a>	Occurs when an error is detected

	onFinishedOfflineDownload	Fired when handle in
≡	onPenAuthenticated	Fired when it fi
≡	onPenAutoPowerOnSetUpResponse	Fired when sets the st PenComm
≡	onPenAutoShutdownTimeSetUpResponse	Fired when sets the va PenComm method.
≡	onPenBeepAndLightResponse	Fired when beep and l in your ov
≡	onPenBeepSetUpResponse	Fired when Sets the st PenComm
≡	onPenBtLocalNameSetUpResponse	Fired when Sets the lc PenComm
≡	onPenCapPowerOnOffSetupResponse	Fired when sets enabl
≡	onPenColorSetUpResponse	Fired when Sets the c PenComm
≡	onPenDataTransmissionTypeSetUpResponse	Fired when

	Sets the type of PenComm method.
≡	<a href="#">onPenDownSamplingSetUpResponse</a> Fired when Sets the start PenComm method.
≡	<a href="#">onPenFscSensitivitySetUpResponse</a> Fired when Sets the level by PenComm method.
≡	<a href="#">onPenHoverSetUpResponse</a> Fired when sets the start PenComm
≡	<a href="#">onPenOfflineDataSetUpResponse</a> Fired when enable offline
≡	<a href="#">onPenPasswordRequest</a> Fired when side. When to enter password by PenComm
≡	<a href="#">onPenPasswordSetUpResponse</a> Fired when change password by PenComm
≡	<a href="#">onPenProfileReceived</a> Occurs when received.
≡	<a href="#">onPenSensitivitySetUpResponse</a> Fired when sets the value

		PenComm
≡	onPenTimestampSetUpResponse	Fired when sets timestamp.
≡	onPenUsbModeSetUpResponse	Fired when Sets the smartpen mode. PenComm
≡	onReceiveBatteryAlarm	Fired when to handle battery alarm.
≡	onReceiveDot	Fired when to handle dot.
≡	onReceiveFirmwareUpdateResult	Fired when override to new version.
≡	onReceiveFirmwareUpdateStatus	This method when it needs to get status of a performed update.
≡	onReceiveOfflineDataList	Fired when smartpen can request ReqOfflineData.
≡	onReceiveOfflineDataPageList	Fired when smartpen can request ReqOfflineDataPage.
≡	onReceiveOfflineStrokes	This method when it needs to get offline strokes.

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performed

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≡	<a href="#">onReceivePenStatus</a>	Fired when the pen handle is received.
≡	<a href="#">onRemovedOfflineData</a>	Fired when offline data is removed.
≡	<a href="#">onStartOfflineDownload</a>	Fired when an offline download starts.
≡	<a href="#">onSymbolDetected</a>	Occurs when a symbol is detected.

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## ▲ See Also

[Reference](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callbacks Methods

The [PenCommV2Callbacks](#) type exposes the following members.

## ▲ Methods

Name	Description
<a href="#">onAvailableNoteAccepted</a>	Occurs when a note has been accepted
<a href="#">onConnected</a>	Fired when the handle is connected
<a href="#">onDisconnected</a>	Fired when the handle is disconnected
<a href="#">onErrorDetected</a>	Occurs when an error is detected
<a href="#">onFinishedOfflineDownload</a>	Fired when the handle is finished with an offline download
<a href="#">onPenAuthenticated</a>	Fired when the pen is authenticated. When it fires, the PenCommV2 object is available.
<a href="#">onPenAutoPowerOnSetUpResponse</a>	Fired when the PenCommV2 object sets the state of the pen after a power-on setup response.
<a href="#">onPenAutoShutdownTimeSetUpResponse</a>	Fired when the PenCommV2 object sets the value of the auto shutdown time after a setup response.

≡	onPenBeepAndLightResponse	Fired when a beep and light is sent by PenComm.
≡	onPenBeepSetUpResponse	Fired when the state is set by PenComm.
≡	onPenBtLocalNamesetUpResponse	Fired when the local name is set by PenComm.
≡	onPenCapPowerOnOffSetupResponse	Fired when the enable state is set by PenComm.
≡	onPenColorsetUpResponse	Fired when the color is set by PenComm.
≡	onPenDataTransmissionTypesetUpResponse	Fired when the transmission type is set by PenComm.
≡	onPenDownSamplingsetUpResponse	Fired when the sampling rate is set by PenComm.
≡	onPenFscSensitivitysetUpResponse	Fired when the sensitivity level is set by PenComm.

	<code>onPenHoverSetUpResponse</code>	Fired when sets the state. Whe PenComm
≡	<code>onPenOfflineDataSetUpResponse</code>	Fired when enable off
≡	<code>onPenPasswordRequest</code>	Fired when side. Whe to enter pa PenComm
≡	<code>onPenPasswordSetUpResponse</code>	Fired when change pa PenComm
≡	<code>onPenProfileReceived</code>	Occurs when received.
≡	<code>onPenSensitivitySetUpResponse</code>	Fired when sets the value PenComm
≡	<code>onPenTimestampSetUpResponse</code>	Fired when sets times
≡	<code>onPenUsbModeSetUpResponse</code>	Fired when Sets the state PenComm
≡	<code>onReceiveBatteryAlarm</code>	Fired when to handle
≡	<code>onReceiveDot</code>	Fired when to handle

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≡	onReceiveFirmwareUpdateResult	Fired when it receives a response from the smartpen after calling the <code>ReqFirmwareUpdate</code> command.
≡	onReceiveFirmwareUpdateStatus	This method is fired when it receives the status of a performed firmware update.
≡	onReceiveOfflineDataList	Fired when the smartpen can request the <code>ReqOfflineData</code> command.
≡	onReceiveOfflineDataPageList	Fired when the smartpen can request the <code>ReqOfflineData</code> command.
≡	onReceiveOfflineStrokes	This method is fired when it receives the status of a performed offline stroke.
≡	onReceivePenStatus	Fired when the handle is updated.
≡	onRemovedOfflineData	Fired when the handle is removed.
≡	onStartOfflineDownload	Fired when the handle is started.
≡	onSymbolDetected	Occurs when a symbol is detected.

---

[Top](#)

## ◀ See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonAvailableNoteAccepted Method

Occurs when the note information to be used is accepted

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onAvailableNoteAccepted(  
    IPenComm sender,  
    bool result  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callback.onConnected Method

Fired when a connection is made, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onConnected(  
    IPenComm sender,  
    string macAddress,  
    string deviceName,  
    string fwVersion,  
    string protocolVersion,  
    string subName,  
    int maxForce  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*macAddress*

Type: [SystemString](#)

Gets the device identifier.

*deviceName*

Type: [SystemString](#)

Gets a name of a device.

*fwVersion*

Type: [SystemString](#)  
current version of pen's firmware.

*protocolVersion*

Type: [SystemString](#)  
Gets a version of a protocol.

*subName*

Type: [SystemString](#)  
Gets a subname of a device.

*maxForce*

Type: [SystemInt32](#)  
Gets the maximum level of force sensor.

## ► See Also

[Reference](#)

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonDisconnect Method

Fired when a connection is destroyed, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onDisconnected(  
    IPenComm sender  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonErrorDetected Method

Occur when error received

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#Copy
void onErrorDetected(
    IPenComm sender,
    ErrorType errorType,
    long timestamp,
    Dot dot,
    string extraData,
    ImageProcessErrorInfo imageProcessErrorInfo
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*errorType*

Type: [ErrorType](#)

Error Message Type

*timestamp*

Type: [SystemInt64](#)

Timestamp

*dot*

Type: [Neosmartpen.NetDot](#)

**[Missing <param name="dot"/> documentation for  
"M:Neosmartpen.Net.Protocol.v2.PenCommV2Callbacks.onErrorD**

*extraData*

Type: [SystemString](#)

**[Missing <param name="extraData"/> documentation for  
"M:Neosmartpen.Net.Protocol.v2.PenCommV2Callbacks.onErrorD**

*imageProcessErrorInfo*

Type: [ImageProcessErrorInfo](#)

**[Missing <param name="imageProcessErrorInfo"/>**

**documentation for**

**"M:Neosmartpen.Net.Protocol.v2.PenCommV2Callbacks.onErrorD**

## ► See Also

Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonFinishedO Method

Fired when finished downloading, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onFinishedOfflineDownload(  
    IPenComm sender,  
    bool result  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

result of downloading

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenAuther Method

Fired when your connection is authenticated. When it fired, you can use all function of pen.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
void onPenAuthenticated(  
    IPenComm sender  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenAutoPowerOnResponse Method

Fired when pen response to your request that sets the status of the auto power on property by PenCommV2.ReqSetupPenBeep method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenAutoPowerOnSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenAutoS Method

Fired when pen response to your request that sets the value of the auto shutdown time by PenCommV2.ReqSetupPenAutoShutdownTime method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C# Copy
void onPenAutoShutdownTimeSetUpResponse(
    IPenComm sender,
    bool result
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callback.onPenBeepAndLightResponse Method

Fired when the request for operation of the beep and light is complete, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenBeepAndLightResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenBeepS Method

Fired when pen response to your request that Sets the status of the beep property by PenCommV2.ReqSetupPenBeep method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onPenBeepSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

[Reference](#)

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenBtLoca Method

Fired when pen response to your request that Sets the local name of device by PenCommV2.ReqSetupBtLocalName method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenBtLocalNameSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenCapPc Method

Fired when pen response to your request that sets enabling control by cap.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenCapPowerOnOffSetupResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenColorS Method

Fired when pen response to your request that Sets the color of pen ink by PenCommV2.ReqSetupPenColor method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenColorSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

[Reference](#)

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenDataTi Method

Fired when pen response to your request that Sets the type of data transmission by PenCommV2.ReqSetupDataTransmissionType method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C# Copy
void onPenDataTransmissionTypeSetUpResponse(
    IPenComm sender,
    bool result
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callback.onPenDownSamplingSetupResponse Method

Fired when pen response to your request that Sets the state of down sampling by PenCommV2.ReqSetupDownSampling method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenDownSamplingSetupResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenFscSe Method

Fired when pen response to your request that Sets the level of sensitivity(force sensor c-type) by PenCommV2.ReqSetupPenFscSensitivity method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenFscSensitivitySetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callback.onPenHoverSetupResponse Method

Fired when pen response to your request that sets the status of the hover mode on property by PenCommV2.ReqSetupHoverMode method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenHoverSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenOffline Method

Fired when pen response to your request that enable offline data.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenOfflineDataSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callback.onPenPasswordRequest Method

Fired when pen request a password to client side. When you received this signal, you have to enter password by PenCommV2.InputPassword method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onPenPasswordRequest(  
    IPenComm sender,  
    int retryCount,  
    int resetCount  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*retryCount*

Type: [SystemInt32](#)

count of enter password

*resetCount*

Type: [SystemInt32](#)

if retry count reached reset count, delete all data in pen

## ► See Also

### Reference

PenCommV2Callbacks Interface  
Neosmartpen.Net.Protocol.v2 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenPasswordSetUpResponse Method

Fired when pen response to your request that change password by PenCommV2.InputPassword method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenPasswordSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callback.onPenProfileReceived Method

Occurs when a response to a profile request is received.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onPenProfileReceived(  
    IPenComm sender,  
    PenProfileReceivedCallbackArgs args  
)  
  
Copy
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

Sender refers to the object that invoked the callback method

*args*

Type: **PenProfileReceivedCallbackArgs**

Object containing response data for profile request

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenSensit Method

Fired when pen response to your request that sets the value of the sensitivity property by PenCommV2.ReqSetupPenSensitivity method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenSensitivitySetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenTimestampMethod

Fired when pen response to your request that sets timestamp.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onPenTimestampSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonPenUsbMode

## Method

Fired when pen response to your request that Sets the status of usb mode by PenCommV2.ReqSetupUsbMode method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

### ► Syntax

C#

[Copy](#)

```
void onPenUsbModeSetUpResponse(  
    IPenComm sender,  
    bool result  
)
```

### Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

### ► See Also

Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonReceiveBatteryAlarm Method

Fired when changed status of battery, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onReceiveBatteryAlarm(  
    IPenComm sender,  
    int battery  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*battery*

Type: [SystemInt32](#)

percentage of battery

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonReceiveDot Method

Fired when receive a dot successfully, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onReceiveDot(  
    IPenComm sender,  
    Dot dot,  
    ImageProcessingInfo info  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*dot*

Type: [Neosmartpen.NetDot](#)

model object of dot

*info*

Type: **ImageProcessingInfo**

model object of image processing. if data transmission type is request-response, you can get image processing info

## ► See Also

[Reference](#)

PenCommV2Callbacks Interface  
Neosmartpen.Net.Protocol.v2 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonReceiveFirmwareUpdateResult Method

Fired when finished updating firmware, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onReceiveFirmwareUpdateResult(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if updating is successfully finished, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonReceiveFirmwareUpdateStatus Method

This method is invoked by the PenCommV2 when it needs to notify the client side about the status of an firmware update operation being performed.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onReceiveFirmwareUpdateStatus(  
    IPenComm sender,  
    int total,  
    int amountDone  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*total*

Type: [SystemInt32](#)

amount of total work

*amountDone*

Type: [SystemInt32](#)

amount of work done

## ► See Also

### Reference

PenCommV2Callbacks Interface  
Neosmartpen.Net.Protocol.v2 Namespace

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonReceiveOfMethod

Fired when receive offline data list in Neo smartpen. When you received this signal, you can request offline data to PenCommV2 by ReqOfflineData method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onReceiveOfflineDataList(  
    IPenComm sender,  
    params OfflineDataInfo[] offlineNotes  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

*offlineNotes*

Type: [OfflineDataInfo](#)

array of OfflineNote object

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonReceiveOfMethod

Fired when receive offline data list in Neo smartpen. When you received this signal, you can request offline data to PenCommV2 by ReqOfflineData method.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onReceiveOfflineDataPageList(  
    IPenComm sender,  
    int section,  
    int owner,  
    int note,  
    int[] pageNumbers  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*section*

Type: [SystemInt32](#)

The Section Id of the paper

*owner*

Type: [SystemInt32](#)

The Owner Id of the paper

*note*

Type: [SystemInt32](#)

The Note Id of the paper

*pageNumbers*

Type: [SystemInt32](#)

The Page numbers of the paper

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callback.onReceiveOfMethod

This method is invoked by the PenCommV2 when it needs to notify the client side about the status of an download operation being performed.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
void onReceiveOfflineStrokes(  
    IPenComm sender,  
    int total,  
    int amountDone,  
    Stroke[] strokes,  
    Symbol[] symbols  
)
```

[Copy](#)

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*total*

Type: [SystemInt32](#)

amount of total work

*amountDone*

Type: [SystemInt32](#)

amount of work done

*strokes*

Type: [Neosmartpen.NetStroke](#)

array of stroke object  
*symbols*  
Type: [Neosmartpen.Net.Metadata.ModelSymbol](#)  
array of symbol object

## ◀ See Also

### Reference

[PenCommV2Callbacks Interface](#)  
[Neosmartpen.Net.Protocol.v2 Namespace](#)

---

## Class Library Documentation for Neo smartpen SDK

# PenCommV2Callback.onReceivePenStatus Method

Fired when received status of pen, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ◀ Syntax

```
C# Copy
void onReceivePenStatus(
    IPenComm sender,
    bool locked,
    int passwdMaxRetryCount,
    int passwdRetryCount,
    long timestamp,
    short autoShutdownTime,
    int maxForce,
    int battery,
    int usedmem,
    bool useOfflineData,
    bool autoPowerOn,
    bool penCapPower,
    bool hoverMode,
    bool beep,
    short penSensitivity,
    UsbMode usbmode,
    bool downsampling,
    string btLocalName,
    DataTransmissionType dataTransmissionType
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*locked*

Type: [SystemBoolean](#)

true if pen is locked, otherwise false

*passwdMaxRetryCount*

Type: [SystemInt32](#)

maximum password input count

*passwdRetryCount*

Type: [SystemInt32](#)

current password input count

*timestamp*

Type: [SystemInt64](#)

timestamp, pen knew

*autoShutdownTime*

Type: [SystemInt16](#)

the status of the auto shutdown time property

*maxForce*

Type: [SystemInt32](#)

maximum level of pressure sensor

*battery*

Type: [SystemInt32](#)

battery status of pen

*usedmem*

Type: [SystemInt32](#)

memory status of pen

*useOfflineData*

Type: [SystemBoolean](#)

true if offline data available, otherwise false

*autoPowerOn*

Type: [SystemBoolean](#)

the status of the auto power on property that if write the unpowered pen, power on.

*penCapPower*

Type: [SystemBoolean](#)

true if enable to control power by cap, otherwise false

*hoverMode*

Type: [SystemBoolean](#)

the status of the hover mode property

*beep*

Type: [SystemBoolean](#)

the status of the beep property

*penSensitivity*

Type: [SystemInt16](#)

the status of pen's sensitivity property

*usbmode*

Type: [UsbMode](#)

the status of the usb mode

*downsampling*

Type: [SystemBoolean](#)

true if enable to down sampling, otherwise false

*btLocalName*

Type: [SystemString](#)

the local name of device

*dataTransmissionType*

Type: [DataTransmissionType](#)

the type of data transmission

## ▲ See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonRemovedC Method

Fired when removed offline data, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onRemovedOfflineData(  
    IPenComm sender,  
    bool result  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*result*

Type: [SystemBoolean](#)

true if your request is successfully applied, otherwise false

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonStartOfflineDownload Method

Fired when started downloading, override to handle in your own code.

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onStartOfflineDownload(  
    IPenComm sender  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

*sender* refers to the object that invoked the callback method

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# PenCommV2CallbacksonSymbolDetected Method

Occur when you write on a symbol

**Namespace:** [Neosmartpen.Net.Protocol.v2](#)

**Assembly:** Neosmartpen.Net.Protocol.v2 (in  
Neosmartpen.Net.Protocol.v2.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
void onSymbolDetected(  
    IPenComm sender,  
    List<Symbol> symbols  
)
```

## Parameters

*sender*

Type: [Neosmartpen.NetIPenComm](#)

sender refers to the object that invoked the callback method

*symbols*

Type: [System.Collections.GenericListSymbol](#)

The detected symbols

## ► See Also

### Reference

[PenCommV2Callbacks Interface](#)

[Neosmartpen.Net.Protocol.v2 Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Neosmartpen.Net.Support Namespace

## ► Classes

Class	Description
 <a href="#">Renderer</a>	Utility class for drawing Stroke

## Class Library Documentation for Neo smartpen SDK

# Renderer Class

Utility class for drawing Stroke

## ► Inheritance Hierarchy

[SystemObject](#) [Neosmartpen.Net.Support.Renderer](#)

**Namespace:** [Neosmartpen.Net.Support](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

```
public class Renderer
```

[Copy](#)

The [Renderer](#) type exposes the following members.

## ► Constructors

	Name	Description
≡	<a href="#">Renderer</a>	Initializes a new instance of the <a href="#">Renderer</a> class

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## ► Methods

	Name	Description
≡ S	<a href="#">draw(Bitmap, Stroke, Single, Single, Single, Single, Int32, Color)</a>	Draw a stroke on the Bitmap.



`draw(Bitmap, Stroke, Single,  
Single, Single, Single, Int32,  
Color)`

Draw a  
strokes on the  
Bitmap.



`StrokesToBitmap`

Obtain an  
image of the  
strokes.

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## ► See Also

[Reference](#)

[Neosmartpen.Net.Support Namespace](#)

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## Class Library Documentation for Neo smartpen SDK

# Renderer Constructor

Initializes a new instance of the [Renderer](#) class

**Namespace:** [Neosmartpen.Net.Support](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0  
(2.1.13)

## ► Syntax

C#

```
public Renderer()
```

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## ► See Also

[Reference](#)

[Renderer Class](#)

[Neosmartpen.Net.Support Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Renderer Methods

The [Renderer](#) type exposes the following members.

## ▲ Methods

Name	Description
  <b>draw(Bitmap, Stroke, Single, Single, Single, Single, Int32, Color)</b>	Draw a stroke on the Bitmap.
  <b>draw(Bitmap, Stroke, Single, Single, Single, Single, Int32, Color)</b>	Draw a strokes on the Bitmap.
  <b>StrokesToBitmap</b>	Obtain an image of the strokes.

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## ▲ See Also

**Reference**

[Renderer Class](#)

[Neosmartpen.Net.Support Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Rendererdraw Method

## ► Overload List

Name	Description
 <code>draw(Bitmap, Stroke, Single, Single, Single, Single, Int32, Color)</code>	Draw a stroke on the Bitmap.
 <code>draw(Bitmap, Stroke, Single, Single, Single, Single, Int32, Color)</code>	Draw a strokes on the Bitmap.

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## ► See Also

[Reference](#)

[Renderer Class](#)

[Neosmartpen.Net.Support Namespace](#)

## Class Library Documentation for Neo smartpen SDK

# Rendererdraw Method (Bitmap, Stroke, Single, Single, Single, Int32, Color)

Draw a stroke on the Bitmap.

**Namespace:** [Neosmartpen.Net.Support](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public static void draw(  
    Bitmap bitmap,  
    Stroke stroke,  
    float scalex,  
    float scaley,  
    float offset_x,  
    float offset_y,  
    int width,  
    Color color  
)
```

[Copy](#)

## Parameters

*bitmap*

Type: [System.DrawingBitmap](#)

Bitmap to which the stroke will be drawn

*stroke*

Type: [Neosmartpen.NetStroke](#)

Stroke to draw

*scalex*

Type: [SystemSingle](#)  
x scale  
*scaley*  
Type: [SystemSingle](#)  
y scale  
*offset\_x*  
Type: [SystemSingle](#)  
x offset  
*offset\_y*  
Type: [SystemSingle](#)  
y offset  
*width*  
Type: [SystemInt32](#)  
Thickness of Stroke  
*color*  
Type: [System.DrawingColor](#)  
Color of Stroke

## ◀ See Also

[Reference](#)  
[Renderer Class](#)  
[draw Overload](#)  
[Neosmartpen.Net.Support Namespace](#)

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## Class Library Documentation for Neo smartpen SDK

# Rendererdraw Method (Bitmap, Stroke, Single, Single, Single, Int32, Color)

Draw a strokes on the Bitmap.

**Namespace:** [Neosmartpen.Net.Support](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

```
C#  
public static void draw(  
    Bitmap bitmap,  
    Stroke[] strokes,  
    float scalex,  
    float scaley,  
    float offset_x,  
    float offset_y,  
    int width,  
    Color color  
)
```

[Copy](#)

## Parameters

*bitmap*

Type: [System.DrawingBitmap](#)

Bitmap to which the stroke will be drawn

*strokes*

Type: [Neosmartpen.NetStroke](#)

Strokes to draw

*scalex*

Type: [SystemSingle](#)  
x scale  
*scaley*  
Type: [SystemSingle](#)  
y scale  
*offset\_x*  
Type: [SystemSingle](#)  
x offset  
*offset\_y*  
Type: [SystemSingle](#)  
y offset  
*width*  
Type: [SystemInt32](#)  
Thickness of Stroke  
*color*  
Type: [System.DrawingColor](#)  
Color of Stroke

## ◀ See Also

[Reference](#)  
[Renderer Class](#)  
[draw Overload](#)  
[Neosmartpen.Net.Support Namespace](#)

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## Class Library Documentation for Neo smartpen SDK

# RendererStrokesToBitmap Method

Obtain an image of the strokes.

**Namespace:** [Neosmartpen.Net.Support](#)

**Assembly:** Neosmartpen.Net (in Neosmartpen.Net.dll) Version: 2.1.13.0 (2.1.13)

## ► Syntax

C#

[Copy](#)

```
public static Bitmap StrokesToBitmap(  
    List<Stroke> strokes,  
    float scalex,  
    float scaley,  
    int width,  
    Color color  
)
```

## Parameters

*strokes*

Type: [System.Collections.GenericListStroke](#)

Stroke to draw

*scalex*

Type: [SystemSingle](#)

x scale

*scaley*

Type: [SystemSingle](#)

y scale

*width*

Type: [SystemInt32](#)

Thickness of Stroke

*color*

Type: [System.DrawingColor](#)

Color of Stroke

## Return Value

Type: [Bitmap](#)

Bitmap with Stroke

## ► See Also

[Reference](#)

[Renderer Class](#)

[Neosmartpen.Net.Support Namespace](#)

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