

# VirtualDevice Class

**Namespace:** IPS7Lnk.Advanced

**Assemblies:** IPS7LnkNet.Advanced.dll

Represents a single virtual programmable logic controller (PLC).

**C#**

```
public class VirtualDevice : PlcDevice, IPlcDevice
```

**Inheritance** [Object](#) > [PlcDevice](#) > VirtualDevice

**Implements** [IPlcDevice](#)

## Remarks

This type of device does provide the same mechanism provided by each [PlcDevice](#) but does support to test application and library implementations without the need of an physical PLC device.

## Constructors

Name	Description
<a href="#">VirtualDevice</a>	Initializes a new instance of the <a href="#">VirtualDevice</a> class.
<a href="#">VirtualDevice(PlcDeviceEndPoint)</a>	Initializes a new instance of the <a href="#">VirtualDevice</a> class using the specified <a href="#">endPoint</a> .

## Properties

Name	Description
<a href="#">Blocks</a>	Gets a collection of <a href="#">PlcBlockInfo</a> objects associated with the device. (Inherited from <a href="#">PlcDevice</a> )
<a href="#">EndPoint</a>	Gets or sets the <a href="#">PlcDeviceEndPoint</a> of the PLC device. (Inherited from <a href="#">PlcDevice</a> )
<a href="#">Name</a>	Gets or sets the name of the device. (Inherited from <a href="#">PlcDevice</a> )
<a href="#">Objects</a>	Gets a collection of <a href="#">PlcObject</a> objects associated with the device. (Inherited from <a href="#">PlcDevice</a> )
<a href="#">Types</a>	Gets a collection of <a href="#">PlcType</a> objects associated with the device. (Inherited from <a href="#">PlcDevice</a> )
<a href="#">Values</a>	Gets a collection of <a href="#">IPlcValue</a> objects associated with the device. (Inherited from <a href="#">PlcDevice</a> )

## Methods

Name	Description
CreateConnection	Creates a new instance of an object implementing the <a href="#">PlcDeviceConnection</a> class which is associated with the device. (Inherited from <a href="#">PlcDevice</a> )
CreateConnection(Boolean)	Creates a new instance of an object implementing the <a href="#">PlcDeviceConnection</a> class which is associated with the device, if <a href="#">createNew</a> is equals to the value true. (Inherited from <a href="#">PlcDevice</a> )
CreateConnectionCore	Creates a new instance of an object which is an instance of the <a href="#">VirtualDeviceConnection</a> class which is associated with the <a href="#">PlcDevice</a> .
CreateConnectionCore	When implemented in a derived class, creates a new instance of an object which is an instance of the <a href="#">PlcDeviceConnection</a> class which is associated with the <a href="#">PlcDevice</a> . (Inherited from <a href="#">PlcDevice</a> )
GetBlock(PlcOperand)	Retrieves the block information for the PLC block accessible by the <a href="#">operand</a> specified. (Inherited from <a href="#">PlcDevice</a> )
GetBlockCore(PlcOperand)	Retrieves the block information for the PLC block accessible by the <a href="#">operand</a> specified.
GetBlockCore(PlcOperand)	When implemented in a derived class, retrieves the block information for the PLC block accessible by the <a href="#">operand</a> specified. (Inherited from <a href="#">PlcDevice</a> )
GetBlocks	Retrieves all so far known block information which has been determined by either discovering a block using <a href="#">GetBlock(PlcOperand)</a> . (Inherited from <a href="#">PlcDevice</a> )
GetInfo	Retrieves an instance of an object implementing the <a href="#">IPlcDeviceInfo</a> interface which provides additional metadata about the device.
GetInfo	When implemented in a derived class, retrieves an instance of an object implementing the <a href="#">IPlcDeviceInfo</a> interface which provides additional metadata about the device. (Inherited from <a href="#">PlcDevice</a> )
ToString	Returns a string that represents the current <a href="#">VirtualDevice</a> .
ToString	Returns a string that represents the current <a href="#">PlcDevice</a> . (Inherited from <a href="#">PlcDevice</a> )

# Table of Contents

Remarks .....	1
<b>Constructors</b> .....	1
<b>Properties</b> .....	1
<b>Methods</b> .....	1

