# PlcDevice Class

**Namespace:** IPS7Lnk.Advanced
**Assemblies:** IPS7LnkNet.Advanced.dll

Provides an abstract base class which represents a single programmable logic controller (PLC).

**C#**

```
public abstract class PlcDevice : IPlcDevice
```

**Inheritance** Object › PlcDevice

**Derived**

- SimaticDevice
- VirtualDevice

**Implements** IPlcDevice

# Constructors

| Name | Description |
|---|---|
| PlcDevice | Initializes a new instance of the PlcDevice class. |
| PlcDevice(PlcDeviceEndPoint) | Initializes a new instance of the PlcDevice class using the specified `endPoint`. |

# Properties

| Name | Description |
|---|---|
| Blocks | Gets a collection of PlcBlockInfo objects associated with the device. |
| EndPoint | Gets or sets the PlcDeviceEndPoint of the PLC device. |
| Name | Gets or sets the name of the device. |
| Objects | Gets a collection of PlcObject objects associated with the device. |
| Types | Gets a collection of PlcType objects associated with the device. |
| Values | Gets a collection of IPlcValue objects associated with the device. |

# Methods

| Name | Description |
|---|---|
| CreateConnection | Creates a new instance of an object implementing the PlcDeviceConnection class which is associated with the device. |
| CreateConnection(Boolean) | Creates a new instance of an object implementing the PlcDeviceConnection class which is associated with the device, if `createNew` is equals to the value true. |

| Name | Description |
|---|---|
| CreateConnectionCore | When implemented in a derived class, creates a new instance of an object which is an instance of the PlcDeviceConnection class which is associated with the PlcDevice. |
| GetBlock(PlcOperand) | Retrieves the block information for the PLC block accessible by the `operand` specified. |
| GetBlockCore(PlcOperand) | When implemented in a derived class, retrieves the block information for the PLC block accessible by the `operand` specified. |
| GetBlocks | Retrieves all so far known block information which has been determined by either discovering a block using GetBlock(PlcOperand). |
| GetInfo | When implemented in a derived class, retrieves an instance of an object implementing the IPlcDeviceInfo interface which provides additional metadata about the device. |
| ToString | Returns a string that represents the current PlcDevice. |

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