

SimaticDeviceConnection Members

Namespace: IPS7Lnk.Advanced

Assemblies: IPS7LnkNet.Advanced.dll, IPS7LnkNet.Advanced.dll

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

Constructors

SimaticDeviceConnection(SimaticDevice)

Initializes a new instance of the [SimaticDeviceConnection](#) class using the specified **device**.

C#

```
public SimaticDeviceConnection(SimaticDevice device)
```

Parameters

device [SimaticDevice](#)

The [SimaticDevice](#) associated with the new [SimaticDeviceConnection](#).

Exceptions

[ArgumentNullException](#)

The **device** is a null reference (Nothing in Visual Basic).

Methods

CreateChannel()

Creates a new immutable channel which is used as the low level access layer of the connection.

C#

```
protected override PlcDeviceConnectionChannel CreateChannel()
```

Returns

[PlcDeviceConnectionChannel](#)

A new [SimaticDeviceConnectionChannel](#) configured with the setup of this [PlcDeviceConnection](#) and its [Device](#).

CreateNode(PlcObject)

C#

```
protected override sealed PlcDataNode CreateNode(PlcObject instance)
```

Parameters

instance [PlcObject](#)

Returns

[PlcDataNode](#)

CreateNode(PlcType)

C#

```
protected override sealed PlcDataNode CreateNode(PlcType type)
```

Parameters

type [PlcType](#)

Returns

[PlcDataNode](#)

CreateNode(PlcType, IPlcValue)

C#

```
protected override sealed PlcDataNode CreateNode(PlcType type, IPlcValue value)
```

Parameters

type [PlcType](#)

value [IPlcValue](#)

Returns

[PlcDataNode](#)

OpenCore()

Establishes a connection to a device.

C#

```
protected override void OpenCore()
```

Exceptions

[ArgumentException](#)

The endpoint type of the device associated with the connection is not supported.

[ArgumentNullException](#)

The device associated with the connection does not provide endpoint information.

ReadNodesCore(IEnumerable<PlcDataNode>)

Reads the data areas described by the **nodes** specified.

C#

```
protected override IEnumerable<object> ReadNodesCore(IEnumerable<PlcDataNode> nodes)
```

Parameters

nodes [IEnumerable<PlcDataNode>](#)

The [PlcDataNode](#)'s to read.

Returns

[IEnumerable<Object>](#)

The sequence of data read.

WriteNodesCore(IEnumerable<PlcDataNode>)

Writes the data areas described by the **nodes** specified.

C#

```
protected override void WriteNodesCore(IEnumerable<PlcDataNode> nodes)
```

Parameters

nodes [IEnumerable<PlcDataNode>](#)

The [PlcDataNode](#)'s to write.

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