

PlcObjectMemberNode Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcObjectMemberNode(PlcObject, PlcMember)

Initializes a new instance of the [PlcObjectMemberNode](#) class using the specified [instance](#) and [member](#).

C#

```
public PlcObjectMemberNode(PlcObject instance, PlcMember member)
```

Parameters

[instance](#) [PlcObject](#)

The [PlcObject](#) its data is represented.

[member](#) [PlcMember](#)

The [PlcMember](#) of the [instance](#) its data is represented by the node.

Exceptions

[ArgumentNullException](#)

The [instance](#) or [member](#) is a null reference (Nothing in Visual Basic).

Properties

CanRead

Gets a value indicating whether the [Value](#) property is granted to be read from the PLC.

C#

```
public override bool CanRead { get; }
```

Property Value

[Boolean](#)

The value true, if reading the value from the device is granted for the node; otherwise the value false.

CanWrite

Gets a value indicating whether the [Value](#) property is granted to be written to the PLC.

C#

```
public override bool CanWrite { get; }
```

Property Value

[Boolean](#)

The value true, if writing the value to the device is granted for the node; otherwise the value false.

Member

Gets the [PlcMember](#) of the [PlcObject](#) its data is represented.

C#

```
public PlcMember Member { get; }
```

Property Value

[PlcMember](#)

An instance of the [PlcMember](#) class.

Type

Gets the [PlcType](#) of the data represented by the node.

C#

```
public override PlcType Type { get; }
```

Property Value

[PlcType](#)

A [PlcType](#) instance.

Value

Gets or sets the value associated with the [Type](#).

C#

```
public override object Value { get; set; }
```

Property Value

Object

The value of the node.

Methods

CreateMemberNodes(PlcObject)

Creates for each [PlcMember](#) in [Members](#) the according child node.

C#

```
protected override void CreateMemberNodes(PlcObject instance)
```

Parameters

instance [PlcObject](#)

The [PlcObject](#) its members have to be transformed into nodes.

Exceptions

[ArgumentNullException](#)

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

CreateNode(PlcObject, PlcMember)

Creates a new [PlcDataNode](#) which refers to a [PlcObject](#) specific [PlcMember](#).

C#

```
protected override PlcDataNode CreateNode(PlcObject instance, PlcMember member)
```

Parameters

instance [PlcObject](#)

The [PlcObject](#) for its [PlcMember](#) the node is to be created.

member [PlcMember](#)

The [PlcMember](#) for that the node is to be created.

Returns

[PlcDataNode](#)

A new [PlcDataNode](#) representing the access layer for the [PlcMember](#) specified by **member**.

Exceptions

ArgumentNullException

The `instance` or `member` is a null reference (Nothing in Visual Basic).

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