

IPlcValue<T> Members

Namespace: IPS7Lnk.Advanced

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

The [IPlcValue<T>](#) interface defines the following members.

Events

Changed

Occurs when the value of the [Value](#) property has changed.

C#

```
event ValueChangedEventHandler<T> Changed
```

Properties

Value

Gets or sets the value assigned to the PLC value.

C#

```
T Value { get; set; }
```

Property Value

[T](#)

The [T](#) value assigned to the PLC value.

Methods

GetValue(IPlcDevice)

Retrieves the current value of the PLC value from the [device](#) specified.

C#

```
T GetValue(IPlcDevice device)
```

Parameters

[device](#) [IPlcDevice](#)

The [IPlcDevice](#) from that the data is to be retrieved.

Returns

[T](#)

The current value of the PLC value.

Exceptions

[ArgumentNullException](#)

The [device](#) is a null reference (Nothing in Visual Basic).

GetValue(PlcDeviceConnection)

Retrieves the current value of the PLC value from a [IPlcDevice](#) using the [connection](#) specified.

C#

```
T GetValue(PlcDeviceConnection connection)
```

Parameters

[connection](#) [PlcDeviceConnection](#)

The [PlcDeviceConnection](#) from that the data is to be retrieved.

Returns

[T](#)

The current value of the PLC value.

Exceptions

[ArgumentNullException](#)

The [connection](#) is a null reference (Nothing in Visual Basic).

[InvalidOperationException](#)

The [connection](#) is in [Faulted](#) state and cannot longer be opened.

[ObjectDisposedException](#)

The [connection](#) has been disposed of.

SetValue(IPlcDevice, T)

Stores the **value** in the **device** specified.

C#

```
void SetValue(IPlcDevice device, T value)
```

Parameters

device IPlcDevice

The IPlcDevice in that the data is to be stored.

value T

The value to be stored.

Exceptions

[ArgumentException](#)

The **value** is invalid. It either does not fall within an expected value range or its type is not supported by the IPlcValue.

[ArgumentNullException](#)

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

SetValue(PlcDeviceConnection, T)

Stores the **value** in the IPlcDevice assigned to the **connection** specified.

C#

```
void SetValue(PlcDeviceConnection connection, T value)
```

Parameters

connection PlcDeviceConnection

The PlcDeviceConnection to use to store the **value**.

value T

The value to be stored.

Exceptions

[ArgumentException](#)

The **value** is invalid. It either does not fall within an expected value range or its type is not supported by the IPlcValue.

ArgumentNullException

The `connection` is a null reference (Nothing in Visual Basic).

InvalidOperationException

The `connection` is in `Faulted` state and cannot longer be opened.

ObjectDisposedException

The `connection` has been disposed of.

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