PlcInt16 Members

Namespace: IPS7Lnk.Advanced
Assemblies: IPS7LnkNet.Advanced.dll, IPS7LnkNet.Advanced.dll
The PlcInt16 type exposes the following members.

Constructors

PlcInt16(PlcIdentity)

Initializes a new instance of the PlcInt16 class using the specified `identity`

C#

```
public PlcInt16(PlcIdentity identity)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcInt16 to which the PLC value belongs.

Exceptions

ArgumentException

The `identity` does not refer to the Word.

ArgumentNullException

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

PlcInt16(PlcIdentity, Int16)

Initializes a new instance of the PlcInt16 class using the specified `identity` and `value`.

C#

```
public PlcInt16(PlcIdentity identity, short value)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcInt16 to which the PLC value belongs.

`value` Int16

The initial value of the new PlcInt16.

Exceptions

ArgumentException

The `identity` does not refer to the Word.

ArgumentNullException

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

PlcInt16(PlcIdentity, PlcName)

Initializes a new instance of the PlcInt16 class using the specified `identity` and `name`.

C#

```
public PlcInt16(PlcIdentity identity, PlcName name)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcInt16 to which the PLC value belongs.

`name` PlcName

The name of the value.

Exceptions

ArgumentException

The `identity` does not refer to the Word.

ArgumentNullException

The `identity` or `name` is a null reference (Nothing in Visual Basic).

PlcInt16(PlcIdentity, PlcName, Int16)

Initializes a new instance of the PlcInt16 class using the specified `identity`, `name` and `value`.

C#

```
public PlcInt16(PlcIdentity identity, PlcName name, short value)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcInt16 to which the PLC value belongs.

`name` PlcName

The name of the value.

`value` Int16

The initial value of the new PlcInt16.

Exceptions

ArgumentException

The `identity` does not refer to the Word.

ArgumentNullException

The `identity` or `name` is a null reference (Nothing in Visual Basic).

PlcInt16(PlcInt16Type)

Initializes a new instance of the PlcInt16 class using the specified `type`

C#

```
public PlcInt16(PlcInt16Type type)
```

Parameters

`type` PlcInt16Type

The PlcInt16Type of the new PlcInt16 to which the PLC value belongs.

Exceptions

ArgumentNullException

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

PlcInt16(PlcInt16Type, Int16)

Initializes a new instance of the PlcInt16 class using the specified `type` and `value`.

C#

```
public PlcInt16(PlcInt16Type type, short value)
```

Parameters

`type` PlcInt16Type

The PlcInt16Type of the new PlcInt16 to which the PLC value belongs.

`value` Int16

The initial value of the new PlcInt16.

Exceptions

ArgumentNullException

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

PlcInt16(PlcInt16Type, PlcName)

Initializes a new instance of the PlcInt16 class using the specified `type` and `name`.

C#

```
public PlcInt16(PlcInt16Type type, PlcName name)
```

Parameters

`type` PlcInt16Type

The PlcInt16Type of the new PlcInt16 to which the PLC value belongs.

`name` PlcName

The name of the value.

Exceptions

ArgumentNullException

The `type` or `name` is a null reference (Nothing in Visual Basic).

PlcInt16(PlcInt16Type, PlcName, Int16)

Initializes a new instance of the PlcInt16 class using the specified `type`, `name` and `value`.

C#

```
public PlcInt16(PlcInt16Type type, PlcName name, short value)
```

Parameters

`type` PlcInt16Type

The PlcInt16Type of the new PlcInt16 to which the PLC value belongs.

`name` PlcName

The name of the value.

`value` Int16

The initial value of the new PlcInt16.

Exceptions

ArgumentNullException

The `type` or `name` is a null reference (Nothing in Visual Basic).

Methods

GetValueCore(PlcDeviceConnection)

Retrieves the current value of the PLC value from a IPlcDevice using the `connection` specified.

C#

```
protected override short GetValueCore(PlcDeviceConnection connection)
```

Parameters

`connection` PlcDeviceConnection

The PlcDeviceConnection from that the data is to be retrieved.

Returns

Int16

The current value of the PLC value.

Exceptions

InvalidOperationException

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

ObjectDisposedException

The `connection` has been disposed of.

RelocateCore(PlcAddress)

Relocates the value to the `address` specified.

C#

```
protected override IPlcValue RelocateCore(PlcAddress address)
```

Parameters

`address` PlcAddress

The PlcAddress to that the value is to be relocated.

Returns

IPlcValue

A new instance of the same type as this PLC value instance relocated to the `address` specified.

SetValueCore(PlcDeviceConnection, Int16)

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

C#

```
protected override void SetValueCore(PlcDeviceConnection connection, short value)
```

Parameters

`connection` PlcDeviceConnection

The PlcDeviceConnection to use to store the `value`.

`value` Int16

The value to be stored.

Exceptions

InvalidOperationException

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

ObjectDisposedException

The `connection` has been disposed of.

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