

PlcInt32 Members

Namespace: IPS7Lnk.Advanced

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

The [PlcInt32](#) type exposes the following members.

Constructors

PlcInt32(PlcIdentity)

Initializes a new instance of the [PlcInt32](#) class using the specified [identity](#)

C#

```
public PlcInt32(PlcIdentity identity)
```

Parameters

[identity](#) [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcInt32](#) to which the PLC value belongs.

Exceptions

[ArgumentException](#)

The [identity](#) does not refer to the [DWord](#).

[ArgumentNullException](#)

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

PlcInt32(PlcIdentity, Int32)

Initializes a new instance of the [PlcInt32](#) class using the specified [identity](#) and [value](#).

C#

```
public PlcInt32(PlcIdentity identity, int value)
```

Parameters

[identity](#) [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcInt32](#) to which the PLC value belongs.

[value](#) [Int32](#)

The initial value of the new [PlcInt32](#).

Exceptions

ArgumentException

The **identity** does not refer to the **DWord**.

ArgumentNullException

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

PlcInt32(PlcIdentity, PlcName)

Initializes a new instance of the **PlcInt32** class using the specified **identity** and **name**.

C#

```
public PlcInt32(PlcIdentity identity, PlcName name)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** of the new **PlcInt32** to which the PLC value belongs.

name **PlcName**

The name of the value.

Exceptions

ArgumentException

The **identity** does not refer to the **DWord**.

ArgumentNullException

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

PlcInt32(PlcIdentity, PlcName, Int32)

Initializes a new instance of the **PlcInt32** class using the specified **identity**, **name** and **value**.

C#

```
public PlcInt32(PlcIdentity identity, PlcName name, int value)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** of the new **PlcInt32** to which the PLC value belongs.

name **PlcName**

The name of the value.

value **Int32**

The initial value of the new **PlcInt32**.

Exceptions

ArgumentException

The **identity** does not refer to the **DWord**.

ArgumentNullException

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

PlcInt32(PlcInt32Type)

Initializes a new instance of the **PlcInt32** class using the specified **type**

C#

```
public PlcInt32(PlcInt32Type type)
```

Parameters

type **PlcInt32Type**

The **PlcInt32Type** of the new **PlcInt32** to which the PLC value belongs.

Exceptions

ArgumentNullException

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

PlcInt32(PlcInt32Type, Int32)

Initializes a new instance of the **PlcInt32** class using the specified **type** and **value**.

C#

```
public PlcInt32(PlcInt32Type type, int value)
```

Parameters

type **PlcInt32Type**

The **PlcInt32Type** of the new **PlcInt32** to which the PLC value belongs.

value **Int32**

The initial value of the new **PlcInt32**.

Exceptions

ArgumentNullException

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

PlcInt32(PlcInt32Type, PlcName)

Initializes a new instance of the `PlcInt32` class using the specified `type` and `name`.

C#

```
public PlcInt32(PlcInt32Type type, PlcName name)
```

Parameters

`type` `PlcInt32Type`

The `PlcInt32Type` of the new `PlcInt32` 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).

PlcInt32(PlcInt32Type, PlcName, Int32)

Initializes a new instance of the `PlcInt32` class using the specified `type`, `name` and `value`.

C#

```
public PlcInt32(PlcInt32Type type, PlcName name, int value)
```

Parameters

`type` `PlcInt32Type`

The `PlcInt32Type` of the new `PlcInt32` to which the PLC value belongs.

`name` `PlcName`

The name of the value.

`value` `Int32`

The initial value of the new `PlcInt32`.

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 int GetValueCore(PlcDeviceConnection connection)
```

Parameters

`connection` `PlcDeviceConnection`

The `PlcDeviceConnection` from that the data is to be retrieved.

Returns

`Int32`

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, Int32)

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

C#

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

Parameters

connection **PlcDeviceConnection**

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

value **Int32**

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.

Table of Contents

Constructors	1
PlcInt32(PlcIdentity)	1
PlcInt32(PlcIdentity, Int32)	1
PlcInt32(PlcIdentity, PlcName)	2
PlcInt32(PlcIdentity, PlcName, Int32)	2
PlcInt32(PlcInt32Type)	3
PlcInt32(PlcInt32Type, Int32)	3
PlcInt32(PlcInt32Type, PlcName)	4
PlcInt32(PlcInt32Type, PlcName, Int32)	4
Methods	5
GetValueCore(PlcDeviceConnection)	5
RelocateCore(PlcAddress)	5
SetValueCore(PlcDeviceConnection, Int32)	6

