

# 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.

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