

PlcUInt32 Members

Namespace: IPS7Lnk.Advanced

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

The [PlcUInt32](#) type exposes the following members.

Constructors

PlcUInt32(PlcIdentity)

Initializes a new instance of the [PlcUInt32](#) class using the specified [identity](#)

C#

```
public PlcUInt32(PlcIdentity identity)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcUInt32](#) 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).

PlcUInt32(PlcIdentity, PlcName)

Initializes a new instance of the [PlcUInt32](#) class using the specified [identity](#) and [name](#).

C#

```
public PlcUInt32(PlcIdentity identity, PlcName name)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcUInt32](#) 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).

PlcUInt32(PlcIdentity, PlcName, UInt32)

Initializes a new instance of the **PlcUInt32** class using the specified **identity**, **name** and **value**.

C#

```
public PlcUInt32(PlcIdentity identity, PlcName name, uint value)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** of the new **PlcUInt32** to which the PLC value belongs.

name **PlcName**

The name of the value.

value **UInt32**

The initial value of the new **PlcUInt32**.

Exceptions

ArgumentException

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

ArgumentNullException

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

PlcUInt32(PlcIdentity, UInt32)

Initializes a new instance of the **PlcUInt32** class using the specified **identity** and **value**.

C#

```
public PlcUInt32(PlcIdentity identity, uint value)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** of the new **PlcUInt32** to which the PLC value belongs.

value [UInt32](#)

The initial value of the new [PlcUInt32](#).

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcUInt32(PlcUInt32Type)

Initializes a new instance of the [PlcUInt32](#) class using the specified [type](#)

C#

```
public PlcUInt32(PlcUInt32Type type)
```

Parameters

[type](#) [PlcUInt32Type](#)

The [PlcUInt32Type](#) of the new [PlcUInt32](#) to which the PLC value belongs.

Exceptions

[ArgumentNullException](#)

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

PlcUInt32(PlcUInt32Type, PlcName)

Initializes a new instance of the [PlcUInt32](#) class using the specified [type](#) and [name](#).

C#

```
public PlcUInt32(PlcUInt32Type type, PlcName name)
```

Parameters

[type](#) [PlcUInt32Type](#)

The [PlcUInt32Type](#) of the new [PlcUInt32](#) 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).

PlcUInt32(PlcUInt32Type, PlcName, UInt32)

Initializes a new instance of the [PlcUInt32](#) class using the specified **type**, **name** and **value**.

C#

```
public PlcUInt32(PlcUInt32Type type, PlcName name, uint value)
```

Parameters

type [PlcUInt32Type](#)

The [PlcUInt32Type](#) of the new [PlcUInt32](#) to which the PLC value belongs.

name [PlcName](#)

The name of the value.

value [UInt32](#)

The initial value of the new [PlcUInt32](#).

Exceptions

[ArgumentNullException](#)

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

PlcUInt32(PlcUInt32Type, UInt32)

Initializes a new instance of the [PlcUInt32](#) class using the specified **type** and **value**.

C#

```
public PlcUInt32(PlcUInt32Type type, uint value)
```

Parameters

type [PlcUInt32Type](#)

The [PlcUInt32Type](#) of the new [PlcUInt32](#) to which the PLC value belongs.

value [UInt32](#)

The initial value of the new [PlcUInt32](#).

Exceptions

[ArgumentNullException](#)

The `type` 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 uint GetValueCore(PlcDeviceConnection connection)
```

Parameters

`connection` `PlcDeviceConnection`

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

Returns

`UInt32`

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, UInt32)

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

C#

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

Parameters

connection **PlcDeviceConnection**

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

value **UInt32**

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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