

# PlcUInt32Array Members

**Namespace:** IPS7Lnk.Advanced

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

The [PlcUInt32Array](#) type exposes the following members.

## Constructors

### PlcUInt32Array(PlcIdentity, Int32)

Initializes a new instance of the [PlcUInt32Array](#) class using the specified [identity](#) and [length](#).

**C#**

```
public PlcUInt32Array(PlcIdentity identity, int length)
```

#### Parameters

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

The [PlcIdentity](#) of the new [PlcUInt32Array](#) to which the PLC array belongs.

[length](#) [Int32](#)

The array length used to store the array values of the [PlcUInt32Array](#).

#### Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

[ArgumentOutOfRangeException](#)

The [length](#) is out of the bounds defined by [MinLength](#) and [MaxLength](#).

### PlcUInt32Array(PlcIdentity, PlcName, Int32)

Initializes a new instance of the [PlcUInt32Array](#) class using the specified [identity](#), [name](#) and [length](#).

**C#**

```
public PlcUInt32Array(PlcIdentity identity, PlcName name, int length)
```

#### Parameters

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

The `PlcIdentity` of the new `PlcUInt32Array` to which the PLC array belongs.

`name PlcName`

The name of the array represented.

`length Int32`

The array length used to store the array values of the `PlcUInt32Array`.

## Exceptions

`ArgumentException`

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

`ArgumentNullException`

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

`ArgumentOutOfRangeException`

The `length` is out of the bounds defined by `MinLength` and `MaxLength`.

# PlcUInt32Array(PlcIdentity, PlcName, UInt32[])

Initializes a new instance of the `PlcUInt32Array` class using the specified `identity`, `name` and `values`.

**C#**

```
public PlcUInt32Array(PlcIdentity identity, PlcName name, params uint[] values)
```

## Parameters

`identity PlcIdentity`

The `PlcIdentity` of the new `PlcUInt32Array` to which the PLC array belongs.

`name PlcName`

The name of the array represented.

`values UInt32[]`

The initial values of the new `PlcUInt32Array`.

## Exceptions

`ArgumentException`

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

`ArgumentNullException`

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

## PlcUInt32Array(PlcIdentity, UInt32[])

Initializes a new instance of the [PlcUInt32Array](#) class using the specified [identity](#) and [values](#).

**C#**

```
public PlcUInt32Array(PlcIdentity identity, params uint[] values)
```

### Parameters

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

The [PlcIdentity](#) of the new [PlcUInt32Array](#) to which the PLC array belongs.

[values](#) [UInt32\[\]](#)

The initial values of the new [PlcUInt32Array](#).

### Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

## PlcUInt32Array(PlcUInt32ArrayType)

Initializes a new instance of the [PlcUInt32Array](#) class using the specified [type](#).

**C#**

```
public PlcUInt32Array(PlcUInt32ArrayType type)
```

### Parameters

[type](#) [PlcUInt32ArrayType](#)

The [PlcUInt32ArrayType](#) of the new [PlcUInt32Array](#) to which the PLC array belongs.

### Exceptions

[ArgumentNullException](#)

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

## PlcUInt32Array(PlcUInt32ArrayType, PlcName, UInt32[])

Initializes a new instance of the [PlcUInt32Array](#) class using the specified [type](#), [name](#) and [values](#).

**C#**

```
public PlcUInt32Array(PlcUInt32ArrayType type, PlcName name, params uint[] values)
```

## Parameters

**type** [PlcUInt32ArrayType](#)

The [PlcUInt32ArrayType](#) of the new [PlcUInt32Array](#) to which the PLC array belongs.

**name** [PlcName](#)

The name of the array represented.

**values** [UInt32\[\]](#)

The initial values of the new [PlcUInt32Array](#).

## Exceptions

[ArgumentNullException](#)

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

# PlcUInt32Array(PlcUInt32ArrayType, UInt32[])

Initializes a new instance of the [PlcUInt32Array](#) class using the specified **type** and **values**.

## C#

```
public PlcUInt32Array(PlcUInt32ArrayType type, params uint[] values)
```

## Parameters

**type** [PlcUInt32ArrayType](#)

The [PlcUInt32ArrayType](#) of the new [PlcUInt32Array](#) to which the PLC array belongs.

**values** [UInt32\[\]](#)

The initial values of the new [PlcUInt32Array](#).

## Exceptions

[ArgumentNullException](#)

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

# Methods

## GetElementCore(Int32)

Retrieves the [PlcUInt32](#) at the specified index.

## C#

```
protected override PlcUInt32 GetElementCore(int index)
```

### Parameters

**index** [Int32](#)

The zero-based index of the element to get.

### Returns

[PlcUInt32](#)

The [PlcUInt32](#) at the specified index.

## 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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