PlcUInt16Array Members

Namespace: IPS7Lnk.Advanced
Assemblies: IPS7LnkNet.Advanced.dll, IPS7LnkNet.Advanced.dll
The PlcUInt16Array type exposes the following members.

Constructors

PlcUInt16Array(PlcIdentity, Int32)

Initializes a new instance of the PlcUInt16Array class using the specified `identity` and `length`.

C#

```
public PlcUInt16Array(PlcIdentity identity, int length)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcUInt16Array to which the PLC array belongs.

`length` Int32

The array length used to store the array values of the PlcUInt16Array.

Exceptions

ArgumentException

The `identity` does not refer to the Word.

ArgumentNullException

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

ArgumentOutOfRangeException

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

PlcUInt16Array(PlcIdentity, PlcName, Int32)

Initializes a new instance of the PlcUInt16Array class using the specified `identity`, `name` and `length`.

C#

```
public PlcUInt16Array(PlcIdentity identity, PlcName name, int length)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcUInt16Array 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 PlcUInt16Array.

Exceptions

ArgumentException

The `identity` does not refer to the Word.

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.

PlcUInt16Array(PlcIdentity, PlcName, UInt16[])

Initializes a new instance of the PlcUInt16Array class using the specified `identity`, `name` and `values`.

C#

```
public PlcUInt16Array(PlcIdentity identity, PlcName name, params ushort[] values)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcUInt16Array to which the PLC array belongs.

`name` PlcName

The name of the array represented.

`values` UInt16[]

The initial values of the new PlcUInt16Array.

Exceptions

ArgumentException

The `identity` does not refer to the Word.

ArgumentNullException

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

PlcUInt16Array(PlcIdentity, UInt16[])

Initializes a new instance of the PlcUInt16Array class using the specified `identity` and `values`.

C#

```
public PlcUInt16Array(PlcIdentity identity, params ushort[] values)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcUInt16Array to which the PLC array belongs.

`values` UInt16[]

The initial values of the new PlcUInt16Array.

Exceptions

ArgumentException

The `identity` does not refer to the Word.

ArgumentNullException

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

PlcUInt16Array(PlcUInt16ArrayType)

Initializes a new instance of the PlcUInt16Array class using the specified `type`.

C#

```
public PlcUInt16Array(PlcUInt16ArrayType type)
```

Parameters

`type` PlcUInt16ArrayType

The PlcUInt16ArrayType of the new PlcUInt16Array to which the PLC array belongs.

Exceptions

ArgumentNullException

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

PlcUInt16Array(PlcUInt16ArrayType, PlcName, UInt16[])

Initializes a new instance of the PlcUInt16Array class using the specified `type`, `name` and `values`.

C#

```
public PlcUInt16Array(PlcUInt16ArrayType type, PlcName name, params ushort[] values)
```

Parameters

`type` PlcUInt16ArrayType

The PlcUInt16ArrayType of the new PlcUInt16Array to which the PLC array belongs.

`name` PlcName

The name of the array represented.

`values` UInt16[]

The initial values of the new PlcUInt16Array.

Exceptions

ArgumentNullException

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

PlcUInt16Array(PlcUInt16ArrayType, UInt16[])

Initializes a new instance of the PlcUInt16Array class using the specified `type` and `values`.

C#

```
public PlcUInt16Array(PlcUInt16ArrayType type, params ushort[] values)
```

Parameters

`type` PlcUInt16ArrayType

The PlcUInt16ArrayType of the new PlcUInt16Array to which the PLC array belongs.

`values` UInt16[]

The initial values of the new PlcUInt16Array.

Exceptions

ArgumentNullException

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

Methods

GetElementCore(Int32)

Retrieves the PlcUInt16 at the specified index.

C#

```
protected override PlcUInt16 GetElementCore(int index)
```

Parameters

`index` Int32

The zero-based index of the element to get.

Returns

PlcUInt16

The PlcUInt16 at the specified index.

GetValueCore(PlcDeviceConnection)

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

C#

```
protected override ushort[] GetValueCore(PlcDeviceConnection connection)
```

Parameters

`connection` PlcDeviceConnection

The PlcDeviceConnection from that the data is to be retrieved.

Returns

UInt16[]

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, UInt16[])

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

C#

```
protected override void SetValueCore(PlcDeviceConnection connection, ushort[] value)
```

Parameters

`connection` PlcDeviceConnection

The PlcDeviceConnection to use to store the `value`.

`value` UInt16[]

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
PlcUInt16Array(PlcIdentity, Int32) 1
PlcUInt16Array(PlcIdentity, PlcName, Int32) 1
PlcUInt16Array(PlcIdentity, PlcName, UInt16[]) 2
PlcUInt16Array(PlcIdentity, UInt16[]) 3
PlcUInt16Array(PlcUInt16ArrayType) 3
PlcUInt16Array(PlcUInt16ArrayType, PlcName, UInt16[]) 3
PlcUInt16Array(PlcUInt16ArrayType, UInt16[]) 4
Methods 4
GetElementCore(Int32) 4
GetValueCore(PlcDeviceConnection) 5
RelocateCore(PlcAddress) 5
SetValueCore(PlcDeviceConnection, UInt16[]) 6