

PlcByteArray Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcByteArray(PlcByteArrayType)

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

C#

```
public PlcByteArray(PlcByteArrayType type)
```

Parameters

type [PlcByteArrayType](#)

The [PlcByteArrayType](#) of the new [PlcByteArray](#) to which the PLC array belongs.

Exceptions

[ArgumentNullException](#)

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

PlcByteArray(PlcByteArrayType, Byte[])

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

C#

```
public PlcByteArray(PlcByteArrayType type, params byte[] values)
```

Parameters

type [PlcByteArrayType](#)

The [PlcByteArrayType](#) of the new [PlcByteArray](#) to which the PLC array belongs.

values [Byte\[\]](#)

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

Exceptions

[ArgumentNullException](#)

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

PlcByteArray(PlcByteArrayType, PlcName, Byte[])

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

C#

```
public PlcByteArray(PlcByteArrayType type, PlcName name, params byte[] values)
```

Parameters

`type` `PlcByteArrayType`

The `PlcByteArrayType` of the new `PlcByteArray` to which the PLC array belongs.

`name` `PlcName`

The name of the array represented.

`values` `Byte[]`

The initial values of the new `PlcByteArray`.

Exceptions

`ArgumentNullException`

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

PlcByteArray(PlcIdentity, Byte[])

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

C#

```
public PlcByteArray(PlcIdentity identity, params byte[] values)
```

Parameters

`identity` `PlcIdentity`

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

`values` `Byte[]`

The initial values of the new `PlcByteArray`.

Exceptions

`ArgumentException`

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

ArgumentNullException

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

PlcByteArray(PlcIdentity, Int32)

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

C#

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

Parameters

`identity` `PlcIdentity`

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

`length` `Int32`

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

Exceptions

ArgumentException

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

ArgumentNullException

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

ArgumentOutOfRangeException

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

PlcByteArray(PlcIdentity, PlcName, Byte[])

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

C#

```
public PlcByteArray(PlcIdentity identity, PlcName name, params byte[] values)
```

Parameters

`identity` `PlcIdentity`

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

`name` `PlcName`

The name of the array represented.

`values` `Byte[]`

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

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcByteArray(PlcIdentity, PlcName, Int32)

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

C#

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

Parameters

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

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

Exceptions

[ArgumentException](#)

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

[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](#).

Methods

GetElementCore(Int32)

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

C#

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

Parameters

index [Int32](#)

The zero-based index of the element to get.

Returns

[PlcByte](#)

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

GetValueCore(PlcDeviceConnection)

Retrieves the current value of the PLC value from a [IPlcDevice](#) using the **connection** specified.

C#

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

Parameters

connection [PlcDeviceConnection](#)

The [PlcDeviceConnection](#) from that the data is to be retrieved.

Returns

[Byte\[\]](#)

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, Byte[])

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

C#

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

Parameters

connection PlcDeviceConnection

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

value Byte[]

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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