PlcCharArray Members

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

Constructors

PlcCharArray(PlcCharArrayType)

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

C#

```
public PlcCharArray(PlcCharArrayType type)
```

Parameters

`type` PlcCharArrayType

The PlcCharArrayType of the new PlcCharArray to which the PLC array belongs.

Exceptions

ArgumentNullException

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

PlcCharArray(PlcCharArrayType, Char[])

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

C#

```
public PlcCharArray(PlcCharArrayType type, params char[] values)
```

Parameters

`type` PlcCharArrayType

The PlcCharArrayType of the new PlcCharArray to which the PLC array belongs.

`values` Char[]

The initial values of the new PlcCharArray.

Exceptions

ArgumentNullException

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

PlcCharArray(PlcCharArrayType, PlcName, Char[])

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

C#

```
public PlcCharArray(PlcCharArrayType type, PlcName name, params char[] values)
```

Parameters

`type` PlcCharArrayType

The PlcCharArrayType of the new PlcCharArray to which the PLC array belongs.

`name` PlcName

The name of the array represented.

`values` Char[]

The initial values of the new PlcCharArray.

Exceptions

ArgumentNullException

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

PlcCharArray(PlcIdentity, Char[])

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

C#

```
public PlcCharArray(PlcIdentity identity, params char[] values)
```

Parameters

`identity` PlcIdentity

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

`values` Char[]

The initial values of the new PlcCharArray.

Exceptions

ArgumentException

The `identity` does not refer to the Byte.

ArgumentNullException

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

PlcCharArray(PlcIdentity, Int32)

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

C#

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

Parameters

`identity` PlcIdentity

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

`length` Int32

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

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.

PlcCharArray(PlcIdentity, PlcName, Char[])

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

C#

```
public PlcCharArray(PlcIdentity identity, PlcName name, params char[] values)
```

Parameters

`identity` PlcIdentity

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

`name` PlcName

The name of the array represented.

`values` Char[]

The initial values of the new PlcCharArray.

Exceptions

ArgumentException

The `identity` does not refer to the Byte.

ArgumentNullException

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

PlcCharArray(PlcIdentity, PlcName, Int32)

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

C#

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

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcCharArray 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 PlcCharArray.

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 PlcChar at the specified index.

C#

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

Parameters

`index` Int32

The zero-based index of the element to get.

Returns

PlcChar

The PlcChar at the specified index.

GetValueCore(PlcDeviceConnection)

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

C#

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

Parameters

`connection` PlcDeviceConnection

The PlcDeviceConnection from that the data is to be retrieved.

Returns

Char[]

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, Char[])

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

C#

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

Parameters

`connection` PlcDeviceConnection

The PlcDeviceConnection to use to store the `value`.

`value` Char[]

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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