

PlcChar Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcChar(PlcCharType)

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

C#

```
public PlcChar(PlcCharType type)
```

Parameters

type [PlcCharType](#)

The [PlcCharType](#) of the new [PlcChar](#) to which the PLC value belongs.

Exceptions

[ArgumentNullException](#)

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

PlcChar(PlcCharType, Char)

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

C#

```
public PlcChar(PlcCharType type, char value)
```

Parameters

type [PlcCharType](#)

The [PlcCharType](#) of the new [PlcChar](#) to which the PLC value belongs.

value [Char](#)

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

Exceptions

[ArgumentNullException](#)

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

PlcChar(PlcCharType, PlcName)

Initializes a new instance of the `PlcChar` class using the specified `type` and `name`.

C#

```
public PlcChar(PlcCharType type, PlcName name)
```

Parameters

`type` `PlcCharType`

The `PlcCharType` of the new `PlcChar` 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).

PlcChar(PlcCharType, PlcName, Char)

Initializes a new instance of the `PlcChar` class using the specified `type`, `name` and `value`.

C#

```
public PlcChar(PlcCharType type, PlcName name, char value)
```

Parameters

`type` `PlcCharType`

The `PlcCharType` of the new `PlcChar` to which the PLC value belongs.

`name` `PlcName`

The name of the value.

`value` `Char`

The initial value of the new `PlcChar`.

Exceptions

`ArgumentNullException`

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

PlcChar(PlcIdentity)

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

C#

```
public PlcChar(PlcIdentity identity)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcChar](#) to which the PLC value belongs.

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcChar(PlcIdentity, Char)

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

C#

```
public PlcChar(PlcIdentity identity, char value)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcChar](#) to which the PLC value belongs.

[value](#) [Char](#)

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

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcChar(PlcIdentity, PlcName)

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

C#

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

Parameters

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

The [PlcIdentity](#) of the new [PlcChar](#) to which the PLC value belongs.

[name](#) [PlcName](#)

The name of the value.

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcChar(PlcIdentity, PlcName, Char)

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

C#

```
public PlcChar(PlcIdentity identity, PlcName name, char value)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcChar](#) to which the PLC value belongs.

[name](#) [PlcName](#)

The name of the value.

[value](#) [Char](#)

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

Exceptions

[ArgumentException](#)

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

ArgumentNullException

The **identity** or **name** 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 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.

ToString()

Retrieves the string representation of the **PlcChar**.

C#

```
public override string ToString()
```

Returns

String

The string representation of the **PlcChar**.

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