

PlcCharArrayType Members

Namespace: IPS7Lnk.Advanced

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

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

Properties

DefaultValue

Gets the type dependent default value which can be assigned to an entity of the type represented.

C#

```
public override object DefaultValue { get; }
```

Property Value

[Object](#)

The type dependent default value.

Methods

CreateEntity()

Creates a new [IPlcEntity](#) object which represents a concrete accessible entity of this [PlcType](#).

C#

```
public override IPlcEntity CreateEntity()
```

Returns

[IPlcEntity](#)

An instance implementing the [IPlcEntity](#) interface its [Type](#) property does refer to this [PlcType](#).

Exceptions

[NotSupportedException](#)

This pure [PlcType](#) instance can't create an entity, because it is an abstract type representation.

Of(Int32)

Retrieves the according [PlcCharArrayType](#) which matches the supplied type metadata.

C#

```
public static PlcCharArrayType Of(int length)
```

Parameters

length [Int32](#)

The maximum length used to store a [PlcCharArrayType](#) value.

Returns

[PlcCharArrayType](#)

The [PlcCharArrayType](#) which matches with the characteristics supplied.

Exceptions

[ArgumentOutOfRangeException](#)

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

Of(PlcIdentity, Int32)

Retrieves the according [PlcCharArrayType](#) which matches the supplied type metadata.

C#

```
public static PlcCharArrayType Of(PlcIdentity identity, int length)
```

Parameters

identity [PlcIdentity](#)

The [PlcIdentity](#) to which the [PlcCharArrayType](#) does refer.

length [Int32](#)

The maximum length used to store a [PlcCharArrayType](#) value.

Returns

[PlcCharArrayType](#)

The [PlcCharArrayType](#) which matches with the characteristics supplied.

Exceptions

ArgumentException

The **identity** does not provide the necessary information required to address the type of data.

ArgumentNullException

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

ArgumentOutOfRangeException

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

Of(PlcIdentity, PlcName, Int32)

Retrieves the according **PlcCharArrayType** which matches the supplied type metadata.

C#

```
public static PlcCharArrayType Of(PlcIdentity identity, PlcName name, int length)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** to which the **PlcCharArrayType** does refer.

name **PlcName**

The **PlcName** of the **PlcType**.

length **Int32**

The maximum length used to store a **PlcCharArrayType** value.

Returns

PlcCharArrayType

The **PlcCharArrayType** which matches with the characteristics supplied.

Exceptions

ArgumentException

The **identity** does not provide the necessary information required to address the type of data.

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**.

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