

PlcStringType Members

Namespace: IPS7Lnk.Advanced

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

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

Fields

MaxLength

Specifies the maximum value that can be used for a [PlcStringType](#).

C#

```
public const int MaxLength = 254
```

Field Value

[Int32](#)

MinLength

Specifies the minimum value that can be used for a [PlcStringType](#) property.

C#

```
public const int MinLength =
```

Field Value

[Int32](#)

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 [PlcStringType](#) which matches the supplied type metadata.

C#

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

Parameters

[length](#) [Int32](#)

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

Returns

[PlcStringType](#)

The [PlcStringType](#) 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 [PlcStringType](#) which matches the supplied type metadata.

C#

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

Parameters

identity [PlcIdentity](#)

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

length [Int32](#)

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

Returns

[PlcStringType](#)

The [PlcStringType](#) 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 [PlcStringType](#) which matches the supplied type metadata.

C#

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

Parameters

identity [PlcIdentity](#)

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

name [PlcName](#)

The `PlcName` of the `PlcType`.

`length` `Int32`

The maximum length used to store a `PlcStringType` value.

Returns

`PlcStringType`

The `PlcStringType` 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`.

Table of Contents

Fields	1
MaxLength	1
MinLength	1
Properties	1
DefaultValue	1
Methods	2
CreateEntity()	2
Of(Int32)	2
Of(PlcIdentity, Int32)	3
Of(PlcIdentity, PlcName, Int32)	3

