

PlcStringInfo Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcStringInfo(PlcIdentity, PlcName, Int32)

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

C#

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

Parameters

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

The [PlcIdentity](#) of the type of value member.

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

The name of the value member.

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

The length of the value member.

Exceptions

[ArgumentException](#)

The [identity](#) does not refer to the [Byte](#) or [name](#) is equal to [Empty](#).

[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](#).

PlcStringInfo(PlcIdentity, PlcName, String)

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

C#

```
public PlcStringInfo(PlcIdentity identity, PlcName name, string initialValue)
```

Parameters

identity PlcIdentity

The PlcIdentity of the type of value member.

name PlcName

The name of the value member.

initialValue String

The initial value of the member.

Exceptions

ArgumentException

The **identity** does not refer to the Byte or **name** is equal to Empty.

ArgumentNullException

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

PlcStringInfo(PlcIdentity, PlcName, String, Int32)

Initializes a new instance of the PlcStringInfo class using the specified **identity**, **name**, **initialValue** and **length**.

C#

```
public PlcStringInfo(PlcIdentity identity, PlcName name, string initialValue, int length)
```

Parameters

identity PlcIdentity

The PlcIdentity of the type of value member.

name PlcName

The name of the value member.

initialValue String

The initial value of the member.

length Int32

The length of the value field.

Exceptions

ArgumentException

The **identity** does not refer to the Byte or **name** is equal to Empty.

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`.

PlcStringInfo(PlcName, Int32)

Initializes a new instance of the [PlcStringInfo](#) class using the specified `name` and `length`.

C#

```
public PlcStringInfo(PlcName name, int length)
```

Parameters

`name` [PlcName](#)

The name of the value member.

`length` [Int32](#)

The length of the value member.

Exceptions

[ArgumentException](#)

The `name` is equal to `Empty`.

[ArgumentNullException](#)

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

[ArgumentOutOfRangeException](#)

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

PlcStringInfo(PlcName, String)

Initializes a new instance of the [PlcStringInfo](#) class using the specified `name` and `initialValue`.

C#

```
public PlcStringInfo(PlcName name, string initialValue)
```

Parameters

`name` [PlcName](#)

The name of the value member.

`initialValue` [String](#)

The initial value of the member.

Exceptions

ArgumentException

The **name** is equal to **Empty**.

ArgumentNullException

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

PlcStringInfo(PlcName, String, Int32)

Initializes a new instance of the **PlcStringInfo** class using the specified **name**, **initialValue** and **length**.

C#

```
public PlcStringInfo(PlcName name, string initialValue, int length)
```

Parameters

name **PlcName**

The name of the value member.

initialValue **String**

The initial value of the member.

length **Int32**

The length of the value field.

Exceptions

ArgumentException

The **name** is equal to **Empty**.

ArgumentNullException

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

ArgumentOutOfRangeException

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

PlcStringInfo(PlcStringType, PlcName)

Initializes a new instance of the **PlcStringInfo** class using the specified **type** and **name**.

C#

```
public PlcStringInfo(PlcStringType type, PlcName name)
```

Parameters

type `PlcStringType`

The type of value member.

name `PlcName`

The name of the value member.

Exceptions

`ArgumentNullException`

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

PlcStringInfo(PlcStringType, PlcName, String)

Initializes a new instance of the `PlcStringInfo` class using the specified **type**, **name** and **initialValue**.

C#

```
public PlcStringInfo(PlcStringType type, PlcName name, string initialValue)
```

Parameters

type `PlcStringType`

The type of value member.

name `PlcName`

The name of the value member.

initialValue `String`

The initial value of the new `PlcStringInfo`.

Exceptions

`ArgumentNullException`

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

Properties

Length

Gets a 32-bit integer that represents the maximum number of characters that can be stored.

C#

```
public int Length { get; }
```

Property Value

Int32

A 32-bit integer that represents the maximum number of characters that can be stored.

Methods

MakeAbsoluteMember(PlcIdentity)

Retrieves the [PlcStringInfo](#) as an absolute addressable PLC data member.

C#

```
public override IPlcMemberInfo MakeAbsoluteMember(PlcIdentity identity)
```

Parameters

identity [PlcIdentity](#)

The [PlcIdentity](#) to use to define the absolute location. This identity is used to define the basis starting from that the member is located.

Returns

[IPlcMemberInfo](#)

In case there [IsAbsolute](#) is equals true the reference to this member; otherwise a new instance of the member which refers to an absolute [PlcType](#).

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

RelocateCore(PlcType)

Relocates the member to the **type** specified.

C#

```
protected override PlcMemberInfo RelocateCore(PlcType type)
```

Parameters

type **PlcType**

The **PlcType** to that the member is to be relocated.

Returns

PlcMemberInfo

A new instance of the same type as this PLC member instance relocated to the **type** specified.

ToString()

Retrieves the string representation of the **PlcStringInfo**.

C#

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

Returns

String

The string representation of the **PlcStringInfo**.

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