

OpcDataTypeMemberLengthAttribute Members

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll, Opc.UaFx.Advanced.dll

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

Constructors

OpcDataTypeMemberLengthAttribute(Int64)

Initializes a new instance of the [OpcDataTypeMemberLengthAttribute](#) class which declares a field or property with a fixed length.

C#

```
public OpcDataTypeMemberLengthAttribute(long length)
```

Parameters

length [Int64](#)

The total number of instances within the stream of the custom data type of the member the attribute belongs to.

Exceptions

[ArgumentOutOfRangeException](#)

The **length** is less than zero.

OpcDataTypeMemberLengthAttribute(String)

Initializes a new instance of the [OpcDataTypeMemberLengthAttribute](#) class which declares a field or property with a variable length controlled by the value of a preceding field or property which can be identified by the **name** specified.

C#

```
public OpcDataTypeMemberLengthAttribute(string name)
```

Parameters

name [String](#)

The [MemberInfo.Name](#) or [Name](#) (if defined) of the preceding member its value is to be used to indicate the variable length of the member the attribute belongs to.

Exceptions

ArgumentException

The `name` is an empty string.

ArgumentNullException

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

Properties

Length

Gets the total number of instances within the stream of the custom data type of the member the attribute belongs to.

C#

```
public long Length { get; }
```

Property Value

Int64

The total number of instances within the stream. The default value is -1. In case there the value of the `Length` property is equals -1 the length of the field or property is variable and determined using the value of the field referenced by `Name`.

Name

Gets the name of the preceding member its value is to be evaluated to indicate the variable length of the member the attribute belongs to.

C#

```
public string Name { get; }
```

Property Value

String

The `MemberInfo.Name` or `Name` (if defined) of the preceding member or a null reference (Nothing in Visual Basic) in case there this `OpcDataTypeMemberLengthAttribute` uses a fixed `Length` to define the total number of instances within the stream.

Remarks

In case there `Name` refers to a field that is not present in an encoded value, then the default value for the length is 1. This situation can occur if the the field referenced is an optional field (see

[OpcDataTypeMemberSwitchAttribute](#)).

The length field shall be a fixed length Base-2 representation of an integer. If the length field is one of the standard signed integer types and the value is a negative integer, then the field is not present in the encoded stream. The field referenced by the [Name](#) shall precede the field with the custom data type.

Methods

GetLength()

Retrieves the [OpcMemberLength](#) defined by the [OpcDataTypeMemberLengthAttribute](#).

C#

```
public OpcMemberLength GetLength()
```

Returns

[OpcMemberLength](#)

A new [OpcMemberLength](#) instance which provides the information required to determine the length of the member the attribute belongs to.

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