

OpcDataFieldInfo Members

Namespace: Opc.UaFx

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

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

Properties

CustomAttributes

Gets an array of custom attributes associated with this field.

C#

```
public virtual string[] CustomAttributes { get; }
```

Property Value

[String\[\]](#)

An array of [String](#) values used by the author of this field.

Remarks

Applications are not be required to understand these attributes in order to interpret an encoded field value.

DeclaringType

Gets the type that declares the current [OpcDataFieldInfo](#).

C#

```
public OpcDataTypeInfo DeclaringType { get; }
```

Property Value

[OpcDataTypeInfo](#)

An instance of the [OpcDataTypeInfo](#) which declares the current [OpcDataFieldInfo](#).

Documentation

Gets any semantic information that would help a human to understand what is contained in the field.

C#

```
public virtual string Documentation { get; }
```

Property Value

String

A human readable text that describes what is contained in the field and that would help a human to understand what the field represented.

FieldType

Gets the type of value this field provides.

C#

```
public OpcDataTypeInfo FieldType { get; }
```

Property Value

OpcDataTypeInfo

The [OpcDataTypeInfo](#) representing the type of value this field provides.

IsOptional

Gets a value indicating whether the current field might not necessarily exist in the object defined by the [DeclaringType](#).

C#

```
public bool IsOptional { get; }
```

Property Value

Boolean

The value true if the field might not always exists; otherwise the value false. Additionally see the [Switch](#) property.

Length

Gets the length of the field expressed either explicit or implicit using a different [OpcDataFieldInfo](#).

C#

```
public virtual OpcMemberLength Length { get; }
```

Property Value

OpcMemberLength

An instance of the [OpcMemberLength](#) class with the explicit length of the field or the reference to the [OpcDataFieldInfo](#) its value expresses the length of the current [OpcDataFieldInfo](#).

LengthField

Gets the [OpcDataFieldInfo](#) used to define the length of the current [OpcDataFieldInfo](#).

C#

```
public virtual OpcDataFieldInfo LengthField { get; }
```

Property Value

[OpcDataFieldInfo](#)

An instance of the [OpcDataFieldInfo](#) class its value expresses the length of the current [OpcDataFieldInfo](#) or a null reference (Nothing in Visual Basic) if the [Length](#) does not refer to a different [OpcDataFieldInfo](#) used to express the length of the field.

Name

Gets the name of the current [OpcDataFieldInfo](#).

C#

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

Property Value

[String](#)

A [String](#) containing the name of this field.

ReflectedType

Gets the type that was used to obtain this instance of [OpcDataFieldInfo](#).

C#

```
public OpcDataTypeInfo ReflectedType { get; }
```

Property Value

[OpcDataTypeInfo](#)

An instance of the [OpcDataTypeInfo](#) used to obtain this instance.

Switch

Gets the switch condition which applies to the current [OpcDataFieldInfo](#).

C#

```
public virtual OpcMemberSwitch Switch { get; }
```

Property Value

[OpcMemberSwitch](#)

An instance of the [OpcMemberSwitch](#) class which defines the conditions to fulfill so that the current [OpcDataFieldInfo](#) exists in an instance.

SwitchField

Gets the [OpcDataFieldInfo](#) used to evaluate the [Switch](#) condition which applies to the current [OpcDataFieldInfo](#).

C#

```
public virtual OpcDataFieldInfo SwitchField { get; }
```

Property Value

[OpcDataFieldInfo](#)

An instance of the [OpcDataFieldInfo](#) class its value is to be evaluated to determine whether the current [OpcDataFieldInfo](#) exists in an instance.

Methods

GetValue(Object)

Gets the value of the field supported by the given object [instance](#).

C#

```
public virtual object GetValue(object instance)
```

Parameters

[instance](#) [Object](#)

The [Object](#) whose field value will be returned.

Returns

[Object](#)

An object containing the value of the field reflected by this instance.

Remarks

This method throws a [NotSupportedException](#) and have to be overridden in a derived class.

SetValue(Object, Object)

Sets the value of the field supported by the given object [instance](#).

C#

```
public virtual void SetValue(object instance, object value)
```

Parameters

[instance](#) [Object](#)

The [Object](#) whose field value will be set.

[value](#) [Object](#)

The value to assign to the field.

Remarks

This method throws a [NotSupportedException](#) and have to be overridden in a derived class.

ToString()

Returns a [String](#) representing the [Name](#) and [FieldType](#) of the current [OpcDataFieldInfo](#).

C#

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

Returns

[String](#)

A [String](#) representing the [Name](#) and the [FieldType](#) of the current [OpcDataFieldInfo](#).

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