

OpcValueRangePropertyNode Members

Namespace: Opc.UaFx

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

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

Constructors

OpcValueRangePropertyNode(IOpcNode, OpcName)

Initializes a new instance of the [OpcValueRangePropertyNode](#) class accessible by the **name** specified as a child node of the **parent** node given.

C#

```
public OpcValueRangePropertyNode(IOpcNode parent, OpcName name)
```

Parameters

parent [IOpcNode](#)

The [IOpcNode](#) used as the parent node or a null reference (Nothing in Visual Basic) in the case there is no parent node available.

name [OpcName](#)

The [OpcName](#) through that the new value range property node can be accessed.

OpcValueRangePropertyNode(IOpcNode, OpcName, OpcNodeId)

Initializes a new instance of the [OpcValueRangePropertyNode](#) class accessible by the **name** and **id** specified as a child node of the **parent** node given.

C#

```
public OpcValueRangePropertyNode(IOpcNode parent, OpcName name, OpcNodeId id)
```

Parameters

parent [IOpcNode](#)

The [IOpcNode](#) used as the parent node or a null reference (Nothing in Visual Basic) in the case there is no parent node available.

name [OpcName](#)

The [OpcName](#) through that the new value range property node can be accessed.

id [OpcNodeId](#)

The [OpcNodeId](#) through that the new value range property node can be identified and accessed.

OpcValueRangePropertyNode(IOpcNode, OpcName, OpcNodeId, OpcValueRange)

Initializes a new instance of the [OpcValueRangePropertyNode](#) class accessible by the **name** and **id** specified with the initial value defined by **value** as a child node of the **parent** node given.

C#

```
public OpcValueRangePropertyNode(IOpcNode parent, OpcName name, OpcNodeId id, OpcValueRange value)
```

Parameters

parent [IOpcNode](#)

The [IOpcNode](#) used as the parent node or a null reference (Nothing in Visual Basic) in the case there is no parent node available.

name [OpcName](#)

The [OpcName](#) through that the new value range property node can be accessed.

id [OpcNodeId](#)

The [OpcNodeId](#) through that the new value range property node can be identified and accessed.

value [OpcValueRange](#)

The initial value of the new value range property node.

OpcValueRangePropertyNode(IOpcNode, OpcName, OpcValueRange)

Initializes a new instance of the [OpcValueRangePropertyNode](#) class accessible by the **name** specified with the initial value defined by **value** as a child node of the **parent** node given.

C#

```
public OpcValueRangePropertyNode(IOpcNode parent, OpcName name, OpcValueRange value)
```

Parameters

parent [IOpcNode](#)

The [IOpcNode](#) used as the parent node or a null reference (Nothing in Visual Basic) in the case there is no parent node available.

name [OpcName](#)

The [OpcName](#) through that the new value range property node can be accessed.

value [OpcValueRange](#)

The initial value of the new value range property node.

OpcValueRangePropertyNode(OpcName)

Initializes a new instance of the [OpcValueRangePropertyNode](#) class accessible by the [name](#) specified.

C#

```
public OpcValueRangePropertyNode(OpcName name)
```

Parameters

[name](#) [OpcName](#)

The [OpcName](#) through that the new value range property node can be accessed.

OpcValueRangePropertyNode(OpcName, OpcNodeId)

Initializes a new instance of the [OpcValueRangePropertyNode](#) class accessible by the [name](#) and [id](#) specified.

C#

```
public OpcValueRangePropertyNode(OpcName name, OpcNodeId id)
```

Parameters

[name](#) [OpcName](#)

The [OpcName](#) through that the new value range property node can be accessed.

[id](#) [OpcNodeId](#)

The [OpcNodeId](#) through that the new value range property node can be identified and accessed.

OpcValueRangePropertyNode(OpcName, OpcNodeId, OpcValueRange)

Initializes a new instance of the [OpcValueRangePropertyNode](#) class accessible by the [name](#) and [id](#) specified with the initial value given by [value](#).

C#

```
public OpcValueRangePropertyNode(OpcName name, OpcNodeId id, OpcValueRange value)
```

Parameters

[name](#) [OpcName](#)

The [OpcName](#) through that the new value range property node can be accessed.

id [OpcNodeId](#)

The [OpcNodeId](#) through that the new value range property node can be identified and accessed.

value [OpcValueRange](#)

The initial value of the new value range property node.

OpcValueRangePropertyNode(OpcName, OpcValueRange)

Initializes a new instance of the [OpcValueRangePropertyNode](#) class accessible by the **name** specified with the initial value given by **value**.

C#

```
public OpcValueRangePropertyNode(OpcName name, OpcValueRange value)
```

Parameters

name [OpcName](#)

The [OpcName](#) through that the new value range property node can be accessed.

value [OpcValueRange](#)

The initial value of the new value range property node.

Properties

ReadValueRangePropertyValueCallback

Gets or sets a callback used to read the value range property value.

C#

```
public OpcReadValueRangePropertyValueCallback ReadValueRangePropertyValueCallback { get; set; }
```

Property Value

[OpcReadValueRangePropertyValueCallback](#)

A [OpcReadValueRangePropertyValueCallback](#) used to read the value range property value as the type [OpcValueRange](#). The value can also be a null reference (Nothing in Visual Basic).

Remarks

This callback is used in call chain with the [ReadPropertyValueCallback](#) and will be called with the outcome of that callback routine (in case there is one defined).

Value

Gets or sets the value of the property node.

C#

```
public OpcValueRange Value { get; set; }
```

Property Value

[OpcValueRange](#)

A [OpcValueRange](#) representing the value of the property node. This can be also a null reference (Nothing in Visual Basic).

WriteValueRangePropertyValueCallback

Gets or sets a callback used to write the value range property value.

C#

```
public OpcWriteValueRangePropertyValueCallback WriteValueRangePropertyValueCallback { get; set; }
```

Property Value

[OpcWriteValueRangePropertyValueCallback](#)

A [OpcWriteValueRangePropertyValueCallback](#) used to write the value range property value as the type [OpcValueRange](#). The value can also be a null reference (Nothing in Visual Basic).

Remarks

This callback is used in call chain with the [WritePropertyValueCallback](#) and will be called with the outcome of that callback routine (in case there is one defined).

Methods

ReadPropertyValueCore(OpcReadPropertyValueContext, OpcPropertyValue<Object>)

Reads the value of the property node using the **context** and **value** information specified.

C#

```
protected override sealed OpcPropertyValue<object>  
ReadPropertyValueCore(OpcReadPropertyValueContext context, OpcPropertyValue<object> value)
```

Parameters

context [OpcReadPropertyValueContext](#)

The [OpcReadPropertyValueContext](#) to use to read the property node value.

value [OpcPropertyValue<Object>](#)

The [OpcPropertyValue](#) containing the currently used value constructed by the value information contained in the property node cache.

Returns

[OpcPropertyValue<Object>](#)

The [OpcPropertyValue](#) read using the [ReadPropertyValueCallback](#) or the **value** if there is no custom callback routine defined.

ReadValueRangePropertyValueCore(OpcReadPropertyValueContext<OpcValueRangePropertyNode>, OpcPropertyValue<OpcValueRange>)

Reads the value range value of the property node using the **context** and **value** information specified.

C#

```
protected virtual OpcPropertyValue<OpcValueRange>
ReadValueRangePropertyValueCore(OpcReadPropertyValueContext<OpcValueRangePropertyNode>
context, OpcPropertyValue<OpcValueRange> value)
```

Parameters

context [OpcReadPropertyValueContext<OpcValueRangePropertyNode>](#)

The [OpcReadPropertyValueContext](#) to use to read the property node value.

value [OpcPropertyValue<OpcValueRange>](#)

The [OpcPropertyValue](#) containing the currently used value constructed by the value information contained in the property node cache.

Returns

[OpcPropertyValue<OpcValueRange>](#)

The [OpcPropertyValue](#) read using the [ReadValueRangePropertyValueCallback](#) or the **value** if there is no custom callback routine defined.

ReadValueRangeValue(OpcReadVariableValueContext)

Reads the value range value of the property node.

C#

```
public OpcValueRange ReadValueRangeValue(OpcReadVariableValueContext context)
```

Parameters

context [OpcReadVariableValueContext](#)

The [OpcReadVariableValueContext](#) to use when reading the value.

Returns

[OpcValueRange](#)

The [OpcValueRange](#) value of the value range property node read.

Exceptions

[ArgumentNullException](#)

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

WritePropertyValueCore(OpcWritePropertyValueContext, OpcPropertyValue<Object>)

Writes the value of the property node using the **context** and **value** information specified.

C#

```
protected override sealed OpcPropertyValue<object>  
WritePropertyValueCore(OpcWritePropertyValueContext context, OpcPropertyValue<object> value)
```

Parameters

context [OpcWritePropertyValueContext](#)

The [OpcWritePropertyValueContext](#) to use to write the property node value.

value [OpcPropertyValue<Object>](#)

The [OpcPropertyValue`1](#) containing the currently used value constructed by the value information contained in the property node cache.

Returns

[OpcPropertyValue<Object>](#)

The [OpcPropertyValue`1](#) written using the [WritePropertyValueCallback](#) or the **value** if there is no custom callback routine defined.

WriteValueRangePropertyValueCore(OpcWritePropertyValueContext<OpcValueRangePropertyNode>, OpcPropertyValue<OpcValueRange>)

Writes the value range value of the property node using the **context** and **value** information specified.

C#

```
protected virtual OpcPropertyValue<OpcValueRange>
WriteValueRangePropertyValueCore(OpcWritePropertyValueContext<OpcValueRangePropertyNode>
context, OpcPropertyValue<OpcValueRange> value)
```

Parameters

context OpcWritePropertyValueContext<OpcValueRangePropertyNode>

The OpcWritePropertyValueContext'1 to use to write the property node value.

value OpcPropertyValue<OpcValueRange>

The OpcPropertyValue'1 containing the currently used value constructed by the value information contained in the property node cache.

Returns

OpcPropertyValue<OpcValueRange>

The OpcPropertyValue'1 written using the WriteValueRangePropertyValueCallback or the **value** if there is no custom callback routine defined.

WriteValueRangeValue(OpcWriteVariableValueContext, OpcValueRange)

Writes the value of the property node specified by **value**.

C#

```
public void WriteValueRangeValue(OpcWriteVariableValueContext context, OpcValueRange value)
```

Parameters

context OpcWriteVariableValueContext

The OpcWriteVariableValueContext to use when writing the value.

value OpcValueRange

The OpcValueRange value of the value range property node to write.

Exceptions

ArgumentNullException

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

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