

OpcPropertyNode Members

Namespace: Opc.UaFx

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

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

Constructors

OpcPropertyNode(IOpcNode, OpcName)

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

C#

```
public OpcPropertyNode(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 property node can be accessed.

OpcPropertyNode(IOpcNode, OpcName, Object)

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

C#

```
public OpcPropertyNode(IOpcNode parent, OpcName name, object 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 property node can be accessed.

value [Object](#)

The initial value of the new property node.

OpcPropertyNode(IOpcNode, OpcName, OpcNodeId)

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

C#

```
public OpcPropertyNode(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 property node can be accessed.

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

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

OpcPropertyNode(IOpcNode, OpcName, OpcNodeId, Object)

Initializes a new instance of the [OpcPropertyNode](#) 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 OpcPropertyNode(IOpcNode parent, OpcName name, OpcNodeId id, object 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 property node can be accessed.

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

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

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

The initial value of the new property node.

OpcPropertyNode(OpcName)

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

C#

```
public OpcPropertyNode(OpcName name)
```

Parameters

name [OpcName](#)

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

OpcPropertyNode(OpcName, Object)

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

C#

```
public OpcPropertyNode(OpcName name, object value)
```

Parameters

name [OpcName](#)

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

value [Object](#)

The initial value of the new property node.

OpcPropertyNode(OpcName, OpcNodeId)

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

C#

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

Parameters

name [OpcName](#)

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

id [OpcNodeId](#)

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

OpcPropertyNode(OpcName, OpcNodeId, Object)

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

C#

```
public OpcPropertyNode(OpcName name, OpcNodeId id, object value)
```

Parameters

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

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

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

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

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

The initial value of the new property node.

Properties

DefaultReferenceTypeId

Gets the default identifier which identifies the type that defines the underlying node reference within this [OpcInstanceNode](#) is referenced by its parent node.

C#

```
protected override OpcNodeId DefaultReferenceTypeId { get; }
```

Property Value

[OpcNodeId](#)

The [OpcNodeId](#) of the reference within this [OpcInstanceNode](#) is referenced. These reference defines the typical behaviour of an instance node and its role in the address space regarding its parent. If there exists no specific reference type a null reference (Nothing in Visual Basic).

DefaultTypeDefinitionId

Gets the default identifier which identifies the node that defines the underlying node type from that this [OpcInstanceNode](#) has been created.

C#

```
protected override sealed OpcNodeId DefaultTypeDefinitionId { get; }
```

Property Value

OpcNodeId

The [OpcNodeId](#) of the type node from that this [OpcInstanceNode](#) has been created from. These type node defines the typical structure of an instance node of its type definition. If there exists no specific type definition node a null reference (Nothing in Visual Basic).

ReadPropertyValueCallback

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

C#

```
public OpcReadPropertyValueCallback ReadPropertyValueCallback { get; set; }
```

Property Value

OpcReadPropertyValueCallback

A [OpcReadPropertyValueCallback](#) used to read the property value as an [Object](#). The value can also be a null reference (Nothing in Visual Basic).

Remarks

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

WritePropertyValueCallback

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

C#

```
public OpcWritePropertyValueCallback WritePropertyValueCallback { get; set; }
```

Property Value

OpcWritePropertyValueCallback

A [OpcWritePropertyValueCallback](#) used to write the property value as an [Object](#). The value can also be a null reference (Nothing in Visual Basic).

Remarks

This callback is used in call chain with the [WriteVariableValueCallback](#) 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 virtual 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'1 containing the currently used value constructed by the value information contained in the property node cache.

Returns

OpcPropertyValue<Object>

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

ReadVariableValueCore(OpcReadVariableValueContext, OpcVariableValue<Object>)

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

C#

```
protected override sealed OpcVariableValue<object> ReadVariableValueCore(OpcReadVariableValueContext context, OpcVariableValue<object> value)
```

Parameters

context OpcReadVariableValueContext

The OpcReadVariableValueContext to use to read the variable node value.

value OpcVariableValue<Object>

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

Returns

OpcVariableValue<Object>

The OpcVariableValue'1 read using the ReadVariableValueCallback or the value if there is no custom callback routine defined.

WritePropertyValueCore(OpcWritePropertyValueContext, OpcPropertyValue<Object>)

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

C#

```
protected virtual 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.

WriteVariableValueCore(OpcWriteVariableValueContext, OpcVariableValue<Object>)

Writes the value of the variable node using the context and value information specified.

C#

```
protected override sealed OpcVariableValue<object>
WriteVariableValueCore(OpcWriteVariableValueContext context, OpcVariableValue<object> value)
```

Parameters

context OpcWriteVariableValueContext

The OpcWriteVariableValueContext to use to write the variable node value.

value OpcVariableValue<Object>

The `OpcVariableValue`1` containing the currently used value constructed by the value information contained in the variable node cache.

Returns

`OpcVariableValue<Object>`

The `OpcVariableValue`1` written using the `WriteVariableValueCallback` or the `value` if there is no custom callback routine defined.

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