

OpcDataVariableNode<T> Members

Namespace: Opc.UaFx

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

The [OpcDataVariableNode<T>](#) type exposes the following members.

Constructors

OpcDataVariableNode(IOpcNode, OpcName)

Initializes a new instance of the [OpcDataVariableNode`1](#) class accessible by the **name** specified as a child node of the **parent** node given.

C#

```
public OpcDataVariableNode(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 data variable node can be accessed.

OpcDataVariableNode(IOpcNode, OpcName, OpcNodeId)

Initializes a new instance of the [OpcDataVariableNode`1](#) class accessible by the **name** and **id** specified as a child node of the **parent** node given.

C#

```
public OpcDataVariableNode(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 data variable node can be accessed.

id [OpcNodeId](#)

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

OpcDataVariableNode(IOpcNode, OpcName, OpcNodeId, T)

Initializes a new instance of the [OpcDataVariableNode`1](#) 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 OpcDataVariableNode(IOpcNode parent, OpcName name, OpcNodeId id, T 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 data variable node can be accessed.

id [OpcNodeId](#)

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

value [T](#)

The initial value of the new data variable node.

OpcDataVariableNode(IOpcNode, OpcName, T)

Initializes a new instance of the [OpcDataVariableNode`1](#) class accessible by the **name** specified with the initial value defined by **value** as a child node of the **parent** node given.

C#

```
public OpcDataVariableNode(IOpcNode parent, OpcName name, T 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 data variable node can be accessed.

value [T](#)

The initial value of the new data variable node.

OpcDataVariableNode(OpcName)

Initializes a new instance of the [OpcDataVariableNode`1](#) class accessible by the **name** specified.

C#

```
public OpcDataVariableNode(OpcName name)
```

Parameters

name [OpcName](#)

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

OpcDataVariableNode(OpcName, OpcNodeId)

Initializes a new instance of the [OpcDataVariableNode`1](#) class accessible by the **name** and **id** specified.

C#

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

Parameters

name [OpcName](#)

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

id [OpcNodeId](#)

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

OpcDataVariableNode(OpcName, OpcNodeId, T)

Initializes a new instance of the [OpcDataVariableNode`1](#) class accessible by the **name** and **id** specified with the initial value given by **value**.

C#

```
public OpcDataVariableNode(OpcName name, OpcNodeId id, T value)
```

Parameters

name [OpcName](#)

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

id [OpcNodeId](#)

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

value [T](#)

The initial value of the new data variable node.

OpcDataVariableNode(OpcName, T)

Initializes a new instance of the [OpcDataVariableNode`1](#) class accessible by the **name** specified with the initial value given by **value**.

C#

```
public OpcDataVariableNode(OpcName name, T value)
```

Parameters

name [OpcName](#)

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

value [T](#)

The initial value of the new data variable node.

Properties

DataType

Gets or sets a value which defines a pre-defined used [DataTypeId](#) as one of the members defined by the [OpcDataType](#) enumeration to simplify querying standard data types.

C#

```
public override OpcDataType DataType { get; set; }
```

Property Value

[OpcDataType](#)

One of the members defined by the [OpcDataType](#) enumeration.

Value

Gets or sets the value of the data variable node.

C#

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

Property Value

[T](#)

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

Methods

InitializeDefaults()

Initializes the default values used by the [OpcDataVariableNode](#) 1.

C#

```
protected override void InitializeDefaults()
```

Remarks

This method is used to ensure the availability of appropriate node specific default values. For more information like when this method is to be overwritten see [InitializeDefaults](#).

ReadGenericValue(OpcReadVariableValueContext)

Reads the data variable node value using the **context** specified.

C#

```
public T ReadGenericValue(OpcReadVariableValueContext context)
```

Parameters

context [OpcReadVariableValueContext](#)

The [OpcReadVariableValueContext](#) to use to read the data variable node value.

Returns

T

The **T** data variable node value associated with this node and read using the **context** specified. This can also be a null reference (Nothing in Visual Basic).

Exceptions

[ArgumentNullException](#)

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

WriteGenericValue(OpcWriteVariableValueContext, T)

Writes the **value** to the data variable node value using the **context** specified.

C#

```
public void WriteGenericValue(OpcWriteVariableValueContext context, T value)
```

Parameters

context [OpcWriteVariableValueContext](#)

The [OpcWriteVariableValueContext](#) to use to write the data variable node **value** specified.

value [T](#)

The [T](#) to write to the data variable node value.

Exceptions

[ArgumentNullException](#)

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

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