

OpcDataItemNode Members

Namespace: Opc.UaFx

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

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

Constructors

OpcDataItemNode(IOpcNode, OpcName)

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

C#

```
public OpcDataItemNode(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 item node can be accessed.

OpcDataItemNode(IOpcNode, OpcName, Object)

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

C#

```
public OpcDataItemNode(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 data item node can be accessed.

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

The initial value of the new data item node.

OpcDataItemNode(IOpcNode, OpcName, OpcNodeId)

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

C#

```
public OpcDataItemNode(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 item node can be accessed.

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

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

OpcDataItemNode(IOpcNode, OpcName, OpcNodeId, Object)

Initializes a new instance of the [OpcDataItemNode](#) 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 OpcDataItemNode(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 data item node can be accessed.

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

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

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

The initial value of the new data item node.

OpcDataItemNode(OpcName)

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

C#

```
public OpcDataItemNode(OpcName name)
```

Parameters

name [OpcName](#)

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

OpcDataItemNode(OpcName, Object)

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

C#

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

Parameters

name [OpcName](#)

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

value [Object](#)

The initial value of the new data item node.

OpcDataItemNode(OpcName, OpcNodeId)

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

C#

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

Parameters

name [OpcName](#)

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

id [OpcNodeId](#)

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

OpcDataItemNode(OpcName, OpcNodeId, Object)

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

C#

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

Parameters

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

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

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

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

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

The initial value of the new data item node.

Properties

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 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).

Definition

Gets or sets a vendor-specific, human readable string that specifies how the value of this data item is calculated.

C#

```
public string Definition { get; set; }
```

Property Value

String

A non-localized value which will often contain an equation that can be parsed by certain clients.

DefinitionNode

Gets the [OpcPropertyNode`1](#) of the [Definition](#) property.

C#

```
public OpcPropertyNode<string> DefinitionNode { get; }
```

Property Value

OpcPropertyNode<String>

An instance of the [OpcPropertyNode`1](#) class.

ValuePrecision

Gets or sets a value which specifies the maximum precision that the server can maintain for the item based on restrictions in the target environment.

C#

```
public double ValuePrecision { get; set; }
```

Property Value

Double

The maximum precision that the server can maintain for the item.

Remarks

The property can be used for the following [OpcDataTypes](#): **

The value is an approximation that is intended to provide guidance to a client. A server is expected to silently round any value with more precision that it supports. This implies that a client may encounter cases where the value read back from a server differs from the value that it wrote to the server. This difference should be no more than the difference suggested by this property.

ValuePrecisionNode

Gets the [OpcPropertyNode`1](#) of the [ValuePrecision](#) property.

C#

```
public OpcPropertyNode<double> ValuePrecisionNode { get; }
```

Property Value

[OpcPropertyNode<Double>](#)

An instance of the [OpcPropertyNode`1](#) class.

Methods

InitializeDefaults()

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

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](#).

Table of Contents

Constructors	1
OpcDataItemNode(IOpcNode, OpcName)	1
OpcDataItemNode(IOpcNode, OpcName, Object)	1
OpcDataItemNode(IOpcNode, OpcName, OpcNodeId)	2
OpcDataItemNode(IOpcNode, OpcName, OpcNodeId, Object)	2
OpcDataItemNode(OpcName)	3
OpcDataItemNode(OpcName, Object)	3
OpcDataItemNode(OpcName, OpcNodeId)	3
OpcDataItemNode(OpcName, OpcNodeId, Object)	4
Properties	4
DefaultTypeDefinitionId	4
Definition	4
DefinitionNode	5
ValuePrecision	5
ValuePrecisionNode	5
Methods	6
InitializeDefaults()	6

