OpcAddDataItemNode<T> Members

Namespace: Opc.UaFx
Assemblies: Opc.UaFx.Advanced.dll, Opc.UaFx.Advanced.dll
The OpcAddDataItemNode<T> type exposes the following members.

Constructors

OpcAddDataItemNode(OpcName)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add. The according OpcNodeId to identify and access the new node is determined by the service. The new node will be a child of the ObjectsFolder node using HasComponent as the type of reference.

C#

```
public OpcAddDataItemNode(OpcName name)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

Exceptions

ArgumentException

The `name` is equals Null.

ArgumentNullException

The `name` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, OpcNodeId)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add, which shall be additionally accessible by the `nodeId` defined. The new node will be a child of the ObjectsFolder node using HasComponent as the type of reference.

C#

```
public OpcAddDataItemNode(OpcName name, OpcNodeId nodeId)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

Exceptions

ArgumentException

The `name` is equals Null.

ArgumentNullException

The `name` or `nodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, OpcNodeId, OpcNodeId)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add, which shall be additionally accessible by the `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using HasComponent as the type of reference.

C#

```
public OpcAddDataItemNode(OpcName name, OpcNodeId nodeId, OpcNodeId parentNodeId)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using HasComponent as the type of reference.

Exceptions

ArgumentException

The `parentNodeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId` or `parentNodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, OpcNodeId,

OpcNodeId, OpcNodeId)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add, which shall be additionally accessible by the `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using the type of reference identified by the `referenceTypeId` specified.

C#

```
public OpcAddDataItemNode(OpcName name, OpcNodeId nodeId, OpcNodeId parentNodeId, OpcNodeId
referenceTypeId)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using the type of reference identified by `referenceTypeId`.

`referenceTypeId` OpcNodeId

The OpcNodeId which identifies the type of reference to use for the new node and the existing parent node identified by `parentNodeId`.

Exceptions

ArgumentException

The `parentNodeId` or `referenceTypeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId`, `parentNodeId` or `referenceTypeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, OpcNodeId, OpcNodeId, OpcNodeId, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add, which shall be additionally accessible by the `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using the type of reference identified by the `referenceTypeId` specified.

C#

```
public OpcAddDataItemNode(OpcName name, OpcNodeId nodeId, OpcNodeId parentNodeId, OpcNodeId
referenceTypeId, T value)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using the type of reference identified by `referenceTypeId`.

`referenceTypeId` OpcNodeId

The OpcNodeId which identifies the type of reference to use for the new node and the existing parent node identified by `parentNodeId`.

`value` T

The initial value of the new data item node.

Exceptions

ArgumentException

The `parentNodeId` or `referenceTypeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId`, `parentNodeId` or `referenceTypeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, OpcNodeId, OpcNodeId, OpcReferenceType)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add, which shall be additionally accessible by the `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using the `referenceType` specified as the type of reference.

C#

```
public OpcAddDataItemNode(OpcName name, OpcNodeId nodeId, OpcNodeId parentNodeId,
OpcReferenceType referenceType)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using HasComponent as the type of reference.

`referenceType` OpcReferenceType

One of the members defined by the OpcReferenceType enumeration to use to setup the reference between the new node and the existing parent node identified by `parentNodeId`.

Exceptions

ArgumentException

The `parentNodeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId` or `parentNodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, OpcNodeId, OpcNodeId, OpcReferenceType, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add, which shall be additionally accessible by the `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using the `referenceType` specified as the type of reference.

C#

```
public OpcAddDataItemNode(OpcName name, OpcNodeId nodeId, OpcNodeId parentNodeId,
OpcReferenceType referenceType, T value)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using HasComponent as the type of reference.

`referenceType` OpcReferenceType

One of the members defined by the OpcReferenceType enumeration to use to setup the reference between the new node and the existing parent node identified by `parentNodeId`.

`value` T

The initial value of the new data item node.

Exceptions

ArgumentException

The `parentNodeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId` or `parentNodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, OpcNodeId, OpcNodeId, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add, which shall be additionally accessible by the `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using HasComponent as the type of reference.

C#

```
public OpcAddDataItemNode(OpcName name, OpcNodeId nodeId, OpcNodeId parentNodeId, T value)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using HasComponent as the type of reference.

`value` T

The initial value of the new data item node.

Exceptions

ArgumentException

The `parentNodeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId` or `parentNodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, OpcNodeId, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add, which shall be additionally accessible by the `nodeId` defined. The new node will be a child of the ObjectsFolder node using HasComponent as the type of reference.

C#

```
public OpcAddDataItemNode(OpcName name, OpcNodeId nodeId, T value)
```

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`value` T

The initial value of the new data item node.

Exceptions

ArgumentException

The `name` is equals Null.

ArgumentNullException

The `name` or `nodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcName, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the `name` of the data item node to add. The according OpcNodeId to identify and access the new node is determined by the service. The new node will be a child of the ObjectsFolder node using HasComponent as the type of reference.

C#

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

Parameters

`name` OpcName

The OpcName through that the new data item node can be accessed.

`value` T

The initial value of the new data item node.

Exceptions

ArgumentException

The `name` is equals Null.

ArgumentNullException

The `name` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` defined. The according OpcNodeId to identify and access the new node is determined by the service. The new node will be a child of the ObjectsFolder node using HasComponent as the type of reference.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

Exceptions

ArgumentException

The `name` is equals Null.

ArgumentNullException

The `name` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, OpcNodeId)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` and `nodeId` defined. The new node will be a child of the ObjectsFolder node using HasComponent as the type of reference.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, OpcNodeId nodeId)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

Exceptions

ArgumentException

The `name` is equals Null.

ArgumentNullException

The `name` or `nodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, OpcNodeId, OpcNodeId)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` and `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using HasComponent as the type of reference.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, OpcNodeId nodeId, OpcNodeId
parentNodeId)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using HasComponent as the type of reference.

Exceptions

ArgumentException

The `parentNodeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId` or `parentNodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, OpcNodeId, OpcNodeId, OpcNodeId)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` and `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using the type of reference identified by the `referenceTypeId` specified.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, OpcNodeId nodeId, OpcNodeId
parentNodeId, OpcNodeId referenceTypeId)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using the type of reference identified by `referenceTypeId`.

`referenceTypeId` OpcNodeId

The OpcNodeId which identifies the type of reference to use for the new node and the existing parent node identified by `parentNodeId`.

Exceptions

ArgumentException

The `parentNodeId` or `referenceTypeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId`, `parentNodeId` or `referenceTypeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, OpcNodeId, OpcNodeId, OpcNodeId, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` and `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using the type of reference identified by the `referenceTypeId` specified.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, OpcNodeId nodeId, OpcNodeId
parentNodeId, OpcNodeId referenceTypeId, T value)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using the type of reference identified by `referenceTypeId`.

`referenceTypeId` OpcNodeId

The OpcNodeId which identifies the type of reference to use for the new node and the existing parent node identified by `parentNodeId`.

`value` T

The initial value of the new data variable node.

Exceptions

ArgumentException

The `parentNodeId` or `referenceTypeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId`, `parentNodeId` or `referenceTypeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, OpcNodeId, OpcNodeId, OpcReferenceType)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` and `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using the `referenceType` specified as the type of reference.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, OpcNodeId nodeId, OpcNodeId
parentNodeId, OpcReferenceType referenceType)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using HasComponent as the type of reference.

`referenceType` OpcReferenceType

One of the members defined by the OpcReferenceType enumeration to use to setup the reference between the new node and the existing parent node identified by `parentNodeId`.

Exceptions

ArgumentException

The `parentNodeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId` or `parentNodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, OpcNodeId, OpcNodeId, OpcReferenceType, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` and `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using the `referenceType` specified as the type of reference.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, OpcNodeId nodeId, OpcNodeId
parentNodeId, OpcReferenceType referenceType, T value)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using HasComponent as the type of reference.

`referenceType` OpcReferenceType

One of the members defined by the OpcReferenceType enumeration to use to setup the reference between the new node and the existing parent node identified by `parentNodeId`.

`value` T

The initial value of the new data variable node.

Exceptions

ArgumentException

The `parentNodeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId` or `parentNodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, OpcNodeId, OpcNodeId, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` and `nodeId` defined. The new node will be a child of the node identified by `parentNodeId` using HasComponent as the type of reference.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, OpcNodeId nodeId, OpcNodeId
parentNodeId, T value)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`parentNodeId` OpcNodeId

The OpcNodeId of the parent node to reference using HasComponent as the type of reference.

`value` T

The initial value of the new data variable node.

Exceptions

ArgumentException

The `parentNodeId` is equals Null or `name` is equals Null.

ArgumentNullException

The `name`, `nodeId` or `parentNodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, OpcNodeId, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` and `nodeId` defined. The new node will be a child of the ObjectsFolder node using HasComponent as the type of reference.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, OpcNodeId nodeId, T value)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`nodeId` OpcNodeId

The OpcNodeId through that the new node can be identified and accessed. In case there Null is specified the server will determine the according OpcNodeId by its own.

`value` T

The initial value of the new data variable node.

Exceptions

ArgumentException

The `name` is equals Null.

ArgumentNullException

The `name` or `nodeId` is a null reference (Nothing in Visual Basic).

OpcAddDataItemNode(OpcVariableType, OpcName, T)

Initializes a new instance of the OpcAddDataItemNode´1 class using the specified `type` of data item node to add, which shall be accessible by the `name` defined. The according OpcNodeId to identify and access the new node is determined by the service. The new node will be a child of the ObjectsFolder node using HasComponent as the type of reference.

C#

```
protected OpcAddDataItemNode(OpcVariableType type, OpcName name, T value)
```

Parameters

`type` OpcVariableType

One of the members defined by the OpcVariableType enumeration which identifies the predefined underlying type definition the new node will represent an instance of.

`name` OpcName

The OpcName through that the new data item node can be accessed.

`value` T

The initial value of the new data variable node.

Exceptions

ArgumentException

The `name` is equals Null.

ArgumentNullException

The `name` is a null reference (Nothing in Visual Basic).

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. A null reference (Nothing in Visual Basic) indicates that the attribute is undefined and its default value is used.

C#

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

Property Value

Nullable<OpcDataType>

One of the members defined by the OpcDataType enumeration.

Value

Gets or sets the value of the data variable node. A null reference (Nothing in Visual Basic) indicates that the attribute is undefined and its default value is used.

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).

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