

# OpcMethodNode Members

**Namespace:** Opc.UaFx

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

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

## Constructors

### OpcMethodNode(IOPcNode, OpcName, Delegate)

Initializes a new instance of the [OpcMethodNode](#) class accessible by the `name` specified with the `Delegate` call given by `callback` as a child node of the `parent` node given.

**C#**

```
public OpcMethodNode(IOPcNode parent, OpcName name, Delegate callback)
```

#### 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 method node can be accessed.

`callback` [Delegate](#)

The [Delegate](#) to call on method invocation of the new method node.

#### Exceptions

[ArgumentNullException](#)

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

### OpcMethodNode(IOPcNode, OpcName, IOPcMethodCommand)

Initializes a new instance of the [OpcMethodNode](#) class accessible by the `name` specified with the [IOPcMethodCommand](#) given by `command` as a child node of the `parent` node given.

**C#**

```
public OpcMethodNode(IOPcNode parent, OpcName name, IOPcMethodCommand command)
```

#### 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 method node can be accessed.

## command IOpcMethodCommand

The **IOpcMethodCommand** to call on method invocation of the new method node.

## Exceptions

### ArgumentNullException

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

## OpcMethodNode(IOpcNode, OpcName, IOpcMethodCommand, OpcArgument[])

Initializes a new instance of the **OpcMethodNode** class accessible by the **name** specified with the **IOpcMethodCommand** given by **command** as a child node of the **parent** node given.

## C#

```
public OpcMethodNode(IOpcNode parent, OpcName name, IOpcMethodCommand command, params  
OpcArgument[] inputArguments)
```

## 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 method node can be accessed.

### command IOpcMethodCommand

The **IOpcMethodCommand** to call on method invocation of the new method node.

### inputArguments OpcArgument[]

An array of **OpcArgument** instances representing the arguments consumed by the method node.

## Exceptions

### ArgumentNullException

The **command** or **inputArguments** (or one of its items) is a null reference (Nothing in Visual Basic).

# OpcMethodNode(IopcNode, OpcName, IOpcMethodCommand, OpcArgument[], OpcArgument[])

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` specified with the `IOpcMethodCommand` given by `command` as a child node of the `parent` node given.

## C#

```
public OpcMethodNode(IopcNode parent, OpcName name, IOpcMethodCommand command, OpcArgument[] inputArguments, params OpcArgument[] outputArguments)
```

## 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 method node can be accessed.

`command` `IOpcMethodCommand`

The `IOpcMethodCommand` to call on method invocation of the new method node.

`inputArguments` `OpcArgument[]`

An array of `OpcArgument` instances representing the arguments consumed by the method node.

`outputArguments` `OpcArgument[]`

An array of `OpcArgument` instances representing the arguments produced by the method node.

## Exceptions

`ArgumentNullException`

The `command`, `inputArguments` (or one of its items) or `outputArguments` (or one of its items) is a null reference (Nothing in Visual Basic).

# OpcMethodNode(IopcNode, OpcName, OpcNodeId, Delegate)

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` and `id` specified with the delegate to call defined by `callback` as a child node of the `parent` node given.

## C#

```
public OpcMethodNode(IopcNode parent, OpcName name, OpcNodeId id, Delegate callback)
```

## 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 method node can be accessed.

**id** OpcNodeId

The **OpcNodeId** through that the new method node can be identified and accessed.

**callback** Delegate

The **Delegate** to call on method invocation of the new method node.

## Exceptions

**ArgumentNullException**

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

# OpcMethodNode(IOPcNode, OpcName, OpcNodeId, IOPcMethodCommand)

Initializes a new instance of the **OpcMethodNode** class accessible by the **name** and **id** specified with the **IOPcMethodCommand** defined by **command** as a child node of the **parent** node given.

## C#

```
public OpcMethodNode(IOPcNode parent, OpcName name, OpcNodeId id, IOPcMethodCommand command)
```

## 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 method node can be accessed.

**id** OpcNodeId

The **OpcNodeId** through that the new method node can be identified and accessed.

**command** IOPcMethodCommand

The **IOPcMethodCommand** to call on method invocation of the new method node.

## Exceptions

**ArgumentNullException**

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

# OpcMethodNode(IopcNode, OpcName, OpcNodeId, IOpcMethodCommand, OpcArgument[])

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` and `id` specified with the `IOpcMethodCommand` defined by `command` as a child node of the `parent` node given.

## C#

```
public OpcMethodNode(IopcNode parent, OpcName name, OpcNodeId id, IOpcMethodCommand command,
params OpcArgument[] inputArguments)
```

## 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 method node can be accessed.

`id` `OpcNodeId`

The `OpcNodeId` through that the new method node can be identified and accessed.

`command` `IOpcMethodCommand`

The `IOpcMethodCommand` to call on method invocation of the new method node.

`inputArguments` `OpcArgument[]`

An array of `OpcArgument` instances representing the arguments consumed by the method node.

## Exceptions

`ArgumentNullException`

The `command` or `inputArguments` (or one of its items) is a null reference (Nothing in Visual Basic).

# OpcMethodNode(IopcNode, OpcName, OpcNodeId, IOpcMethodCommand, OpcArgument[], OpcArgument[])

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` and `id` specified with the `IOpcMethodCommand` defined by `command` as a child node of the `parent` node given.

## C#

```
public OpcMethodNode(IopcNode parent, OpcName name, OpcNodeId id, IOpcMethodCommand command,
OpcArgument[] inputArguments, params OpcArgument[] outputArguments)
```

## 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 method node can be accessed.

#### `id OpcNodeld`

The `OpcNodeld` through that the new method node can be identified and accessed.

#### `command IOpcMethodCommand`

The `IOpcMethodCommand` to call on method invocation of the new method node.

#### `inputArguments OpcArgument[]`

An array of `OpcArgument` instances representing the arguments consumed by the method node.

#### `outputArguments OpcArgument[]`

An array of `OpcArgument` instances representing the arguments produced by the method node.

## Exceptions

### `ArgumentNullException`

The `command`, `inputArguments` (or one of its items) or `outputArguments` (or one of its items) is a null reference (Nothing in Visual Basic).

## OpcMethodNode(OpcName, Delegate)

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` specified with the `Delegate` call given by `callback`.

### C#

```
public OpcMethodNode(OpcName name, Delegate callback)
```

## Parameters

#### `name OpcName`

The `OpcName` through that the new method node can be accessed.

#### `callback Delegate`

The `Delegate` to call on method invocation of the new method node.

## Exceptions

### `ArgumentNullException`

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

# OpcMethodNode(OpcName, IOpcMethodCommand)

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` specified with the `IOpcMethodCommand` given by `command`.

## C#

```
public OpcMethodNode(OpcName name, IOpcMethodCommand command)
```

## Parameters

`name` `OpcName`

The `OpcName` through that the new method node can be accessed.

`command` `IOpcMethodCommand`

The `IOpcMethodCommand` to call on method invocation of the new method node.

## Exceptions

`ArgumentNullException`

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

# OpcMethodNode(OpcName, IOpcMethodCommand, OpcArgument[])

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` specified with the `IOpcMethodCommand` given by `command`.

## C#

```
public OpcMethodNode(OpcName name, IOpcMethodCommand command, params OpcArgument[] inputArguments)
```

## Parameters

`name` `OpcName`

The `OpcName` through that the new method node can be accessed.

`command` `IOpcMethodCommand`

The `IOpcMethodCommand` to call on method invocation of the new method node.

`inputArguments` `OpcArgument[]`

An array of `OpcArgument` instances representing the arguments consumed by the method node.

## Exceptions

`ArgumentNullException`

The `command` or `inputArguments` (or one of its items) is a null reference (Nothing in Visual Basic).

## OpcMethodNode(OpcName, IOpcMethodCommand, OpcArgument[], OpcArgument[])

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` specified with the `IOpcMethodCommand` given by `command`.

### C#

```
public OpcMethodNode(OpcName name, IOpcMethodCommand command, OpcArgument[] inputArguments,  
params OpcArgument[] outputArguments)
```

### Parameters

`name` `OpcName`

The `OpcName` through that the new method node can be accessed.

`command` `IOpcMethodCommand`

The `IOpcMethodCommand` to call on method invocation of the new method node.

`inputArguments` `OpcArgument[]`

An array of `OpcArgument` instances representing the arguments consumed by the method node.

`outputArguments` `OpcArgument[]`

An array of `OpcArgument` instances representing the arguments produced by the method node.

### Exceptions

`ArgumentNullException`

The `command`, `inputArguments` (or one of its items) or `outputArguments` (or one of its items) is a null reference (Nothing in Visual Basic).

## OpcMethodNode(OpcName, OpcNodeId, Delegate)

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` and `id` specified with the delegate to call given by `callback`.

### C#

```
public OpcMethodNode(OpcName name, OpcNodeId id, Delegate callback)
```

### Parameters

`name` `OpcName`

The `OpcName` through that the new method node can be accessed.

`id` `OpcNodeId`

The `OpcNodeld` through that the new method node can be identified and accessed.

#### callback Delegate

The `Delegate` to call on method invocation of the new method node.

#### Exceptions

##### ArgumentNullException

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

## OpcMethodNode(OpcName, OpcNodeld, IOpcMethodCommand)

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` and `id` specified with the `IOpcMethodCommand` given by `command`.

#### C#

```
public OpcMethodNode(OpcName name, OpcNodeId id, IOpcMethodCommand command)
```

#### Parameters

##### name OpcName

The `OpcName` through that the new method node can be accessed.

##### id OpcNodeld

The `OpcNodeld` through that the new method node can be identified and accessed.

##### command IOpcMethodCommand

The `IOpcMethodCommand` to call on method invocation of the new method node.

#### Exceptions

##### ArgumentNullException

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

## OpcMethodNode(OpcName, OpcNodeld, IOpcMethodCommand, OpcArgument[])

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` and `id` specified with the `IOpcMethodCommand` given by `command`.

#### C#

```
public OpcMethodNode(OpcName name, OpcNodeId id, IOpcMethodCommand command, params  
OpcArgument[] inputArguments)
```

## Parameters

`name OpcName`

The `OpcName` through that the new method node can be accessed.

`id OpcNodeId`

The `OpcNodeId` through that the new method node can be identified and accessed.

`command IOpcMethodCommand`

The `IOpcMethodCommand` to call on method invocation of the new method node.

`inputArguments OpcArgument[]`

An array of `OpcArgument` instances representing the arguments consumed by the method node.

## Exceptions

`ArgumentNullException`

The `command` or `inputArguments` (or one of its items) is a null reference (Nothing in Visual Basic).

# OpcMethodNode(OpcName, OpcNodeId, IOpcMethodCommand, OpcArgument[], OpcArgument[])

Initializes a new instance of the `OpcMethodNode` class accessible by the `name` and `id` specified with the `IOpcMethodCommand` given by `command`.

## C#

```
public OpcMethodNode(OpcName name, OpcNodeId id, IOpcMethodCommand command, OpcArgument[] inputArguments, params OpcArgument[] outputArguments)
```

## Parameters

`name OpcName`

The `OpcName` through that the new method node can be accessed.

`id OpcNodeId`

The `OpcNodeId` through that the new method node can be identified and accessed.

`command IOpcMethodCommand`

The `IOpcMethodCommand` to call on method invocation of the new method node.

`inputArguments OpcArgument[]`

An array of `OpcArgument` instances representing the arguments consumed by the method node.

`outputArguments OpcArgument[]`

An array of `OpcArgument` instances representing the arguments produced by the method node.

## Exceptions

### ArgumentNullException

The `command`, `inputArguments` (or one of its items) or `outputArguments` (or one of its items) is a null reference (Nothing in Visual Basic).

# Properties

## Callback

Gets the [Delegate](#) of the method to invoke in case there this method node is called.

### C#

```
public Delegate Callback { get; }
```

### Property Value

#### Delegate

The [Delegate](#) to invoke on method call or a null reference (Nothing in Visual Basic) if [Command](#) is used instead of a delegate.

## CanExecute

Gets or sets a value indicating whether the method can be called.

### C#

```
public bool CanExecute { get; set; }
```

### Property Value

#### Boolean

The value true if the method can be called; otherwise the value false.

## Exceptions

### InvalidOperationException

The property can't changed in case there [Command](#) is used for the current [OpcMethodNode](#).

## CanUserExecute

Gets or sets a value indicating whether the method can be called by the current user.

### C#

```
public bool CanUserExecute { get; set; }
```

## Property Value

Boolean

The value true if the method can be called by the current user; otherwise the value false.

## Exceptions

[InvalidOperationException](#)

The property can't be changed in case there [Command](#) is used for the current [OpcMethodNode](#).

## Command

Gets the [IOpcMethodCommand](#) of the method to invoke in case there this method node is called.

C#

```
public IOpcMethodCommand Command { get; set; }
```

## Property Value

[IOpcMethodCommand](#)

An instance implementing the [IOpcMethodCommand](#) interface through that the method call is to be handled or a null reference (Nothing in Visual Basic) if [Callback](#) is used instead of a command.

## 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 references define 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).

## InputArguments

Gets a read-only collection of [OpcArgument](#) instances representing the arguments consumed by the

method node.

## C#

```
public OpcReadOnlyArgumentCollection InputArguments { get; }
```

### Property Value

#### OpcReadOnlyArgumentCollection

An instance of the [OpcReadOnlyArgumentCollection](#) class with the [OpcArgument](#) instances used to define which arguments are consumed by the method node. In case there the collection is empty, the method does not accept any argument.

## OutputArguments

Gets a read-only collection of [OpcArgument](#) instances representing the arguments produced by the method node.

## C#

```
public OpcReadOnlyArgumentCollection OutputArguments { get; }
```

### Property Value

#### OpcReadOnlyArgumentCollection

An instance of the [OpcReadOnlyArgumentCollection](#) class with the [OpcArgument](#) instances used to define which arguments are produced by the method node. In case there the collection is empty, the method does not return any argument.

## Methods

### InitializeDefaults()

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

## 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](#).

# ReadAttributeValueCore<T>(OpcReadAttributeValueContext, OpcAttributeValue<T>)

C#

```
protected override OpcAttributeValue<T>
ReadAttributeValueCore<T>(OpcReadAttributeValueContext context, OpcAttributeValue<T> value)
```

## Parameters

context `OpcReadAttributeValueContext`

value `OpcAttributeValue<T>`

## Returns

`OpcAttributeValue<T>`

# WriteAttributeValueCore<T>(OpcWriteAttributeValueContext, OpcAttributeValue<T>)

C#

```
protected override OpcAttributeValue<T>
WriteAttributeValueCore<T>(OpcWriteAttributeValueContext context, OpcAttributeValue<T>
value)
```

## Parameters

context `OpcWriteAttributeValueContext`

value `OpcAttributeValue<T>`

## Returns

`OpcAttributeValue<T>`

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