

OpcBrowseNode Members

Namespace: Opc.UaFx

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

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

Constructors

OpcBrowseNode(OpcNodeId)

Initializes a new instance of the [OpcBrowseNode](#) class using the specified [nodeId](#) to browse hierarchical references (see [HierarchicalReferences](#)) in the default view using the [Self](#) as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId)
```

Parameters

[nodeId](#) [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

The [nodeId](#) is a null reference (Nothing in Visual Basic).

OpcBrowseNode(OpcNodeId, IEnumerable<OpcNodeId>)

Initializes a new instance of the [OpcBrowseNode](#) class using the specified [nodeId](#) to browse the references identified by the [referenceTypeIds](#) specified in the default view using the [Self](#) as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, IEnumerable<OpcNodeId> referenceTypeIds)
```

Parameters

[nodeId](#) [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

`referenceTypeIds` `IEnumerable<OpcNodeId>`

A sequence of `OpcNodeId` instances identifying the type of references to browse for. If empty the `HierarchicalReferences` identifier is used.

Exceptions

`ArgumentException`

The command does not support empty node identifiers.

`ArgumentNullException`

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

OpcBrowseNode(OpcNodeId, IEnumerable<OpcReferenceType>)

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse the references specified by `referenceTypes` in the default view using the `Self` as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, IEnumerable<OpcReferenceType> referenceTypes)
```

Parameters

`nodeId` `OpcNodeId`

The `OpcNodeId` of the node on which the service will browse the references.

`referenceTypes` `IEnumerable<OpcReferenceType>`

A sequence of `OpcReferenceType` values representing the type of references to browse for. If empty the `HierarchicalReferences` is used.

Exceptions

`ArgumentException`

The command does not support empty node identifiers.

`ArgumentNullException`

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

OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree)

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse hierarchical references (see `HierarchicalReferences`) in the default view using the `degree` specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, OpcBrowseNodeDegree degree)
```

Parameters

nodeId [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

degree [OpcBrowseNodeDegree](#)

The [OpcBrowseNodeDegree](#) to cumulate subsequent browse operations by respecting the node layers to include while browsing.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

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

OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree, IEnumerable<OpcNodeId>)

Initializes a new instance of the [OpcBrowseNode](#) class using the specified **nodeId** to browse the references identified by the **referenceTypeIds** specified in the default view using the **degree** specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, OpcBrowseNodeDegree degree, IEnumerable<OpcNodeId> referenceTypeIds)
```

Parameters

nodeId [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

degree [OpcBrowseNodeDegree](#)

The [OpcBrowseNodeDegree](#) to cumulate subsequent browse operations by respecting the node layers to include while browsing.

referenceTypeIds [IEnumerable<OpcNodeId>](#)

A sequence of [OpcNodeId](#) instances identifying the type of references to browse for. If empty the [HierarchicalReferences](#) identifier is used.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

ArgumentNullException

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

OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree, IEnumerable<OpcReferenceType>)

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse the references specified by `referenceTypes` in the default view using the `degree` specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, OpcBrowseNodeDegree degree,
    IEnumerable<OpcReferenceType> referenceTypes)
```

Parameters

`nodeId` `OpcNodeId`

The `OpcNodeId` of the node on which the service will browse the references.

`degree` `OpcBrowseNodeDegree`

The `OpcBrowseNodeDegree` to cumulate subsequent browse operations by respecting the node layers to include while browsing.

`referenceTypes` `IEnumerable<OpcReferenceType>`

A sequence of `OpcReferenceType` values representing the type of references to browse for. If empty the `HierarchicalReferences` is used.

Exceptions

ArgumentException

The command does not support empty node identifiers.

ArgumentNullException

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

OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree, OpcNodeId[])

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse the references identified by `referenceTypeIds` in the default view using the `degree` specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, OpcBrowseNodeDegree degree, params OpcNodeId[]
referenceTypeIds)
```

Parameters

nodeId [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

degree [OpcBrowseNodeDegree](#)

The [OpcBrowseNodeDegree](#) to cummulate subsequent browse operations by respecting the node layers to include while browsing.

referenceTypeIds [OpcNodeId\[\]](#)

An array of [OpcNodeId](#) instances identifying the type of references to browse for. If empty the [HierarchicalReferences](#) identifier is used.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

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

OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree, OpcReferenceType[])

Initializes a new instance of the [OpcBrowseNode](#) class using the specified **nodeId** to browse the references specified by **referenceTypes** in the default view using the **degree** specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, OpcBrowseNodeDegree degree, params OpcReferenceType[]
referenceTypes)
```

Parameters

nodeId [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

degree [OpcBrowseNodeDegree](#)

The [OpcBrowseNodeDegree](#) to cummulate subsequent browse operations by respecting the node layers to include while browsing.

referenceTypes [OpcReferenceType\[\]](#)

An array of [OpcReferenceType](#) values representing the type of references to browse for. If empty the

HierarchicalReferences is used.

Exceptions

ArgumentException

The command does not support empty node identifiers.

ArgumentNullException

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

OpcBrowseNode(OpcNodeId, OpcNodeId[])

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse the references identified by `referenceTypeIds` in the default view using the `Self` as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, params OpcNodeId[] referenceTypeIds)
```

Parameters

`nodeId` `OpcNodeId`

The `OpcNodeId` of the node on which the service will browse the references.

`referenceTypeIds` `OpcNodeId[]`

An array of `OpcNodeId` instances identifying the type of references to browse for. If empty the `HierarchicalReferences` identifier is used.

Exceptions

ArgumentException

The command does not support empty node identifiers.

ArgumentNullException

The `nodeId` or `referenceTypeIds` or one of items is a null reference (Nothing in Visual Basic).

OpcBrowseNode(OpcNodeId, OpcReferenceType[])

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse the references specified by `referenceTypes` in the default view using the `Self` as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcNodeId nodeId, params OpcReferenceType[] referenceTypes)
```

Parameters

`nodeId` [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

`referenceTypes` [OpcReferenceType](#)[]

An array of [OpcReferenceType](#) values representing the type of references to browse for. If empty the [HierarchicalReferences](#) is used.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

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

OpcBrowseNode(OpcViewDescription, OpcNodeId)

Initializes a new instance of the [OpcBrowseNode](#) class using the specified `nodeId` to browse hierarchical references (see [HierarchicalReferences](#)) in the specified `view` using the [Self](#) as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId)
```

Parameters

`view` [OpcViewDescription](#)

The [OpcViewDescription](#) of the view onto the address space being browsed.

`nodeId` [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

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

OpcBrowseNode(OpcViewDescription, OpcNodeId, IEnumerable<OpcNodeId>)

Initializes a new instance of the [OpcBrowseNode](#) class using the specified `nodeId` to browse the references identified by the `referenceTypeIds` specified in the specified `view` using the [Self](#) as the degree of nodes

being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId, IEnumerable<OpcNodeId>
referenceTypeIds)
```

Parameters

view [OpcViewDescription](#)

The [OpcViewDescription](#) of the view onto the address space being browsed.

nodeId [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

referenceTypeIds [IEnumerable<OpcNodeId>](#)

A sequence of [OpcNodeId](#) instances identifying the type of references to browse for. If empty the [HierarchicalReferences](#) identifier is used.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

The **view** or **nodeId** or **referenceTypeIds** or one of its items is a null reference (Nothing in Visual Basic).

OpcBrowseNode(OpcViewDescription, OpcNodeId, IEnumerable<OpcReferenceType>)

Initializes a new instance of the [OpcBrowseNode](#) class using the specified **nodeId** to browse the references specified by **referenceTypes** in the specified **view** using the [Self](#) as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId,
IEnumerable<OpcReferenceType> referenceTypes)
```

Parameters

view [OpcViewDescription](#)

The [OpcViewDescription](#) of the view onto the address space being browsed.

nodeId [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

referenceTypes [IEnumerable<OpcReferenceType>](#)

A sequence of [OpcReferenceType](#) values representing the type of references to browse for. If empty the

HierarchicalReferences is used.

Exceptions

ArgumentException

The command does not support empty node identifiers.

ArgumentNullException

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

OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree)

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse hierarchical references (see [HierarchicalReferences](#)) in the specified `view` using the `degree` specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId, OpcBrowseNodeDegree degree)
```

Parameters

`view` OpcViewDescription

The `OpcViewDescription` of the view onto the address space being browsed.

`nodeId` OpcNodeId

The `OpcNodeId` of the node on which the service will browse the references.

`degree` OpcBrowseNodeDegree

The `OpcBrowseNodeDegree` to cumulate subsequent browse operations by respecting the node layers to include while browsing.

Exceptions

ArgumentException

The command does not support empty node identifiers.

ArgumentNullException

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

OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree, IEnumerable<OpcNodeId>)

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse the references identified by the `referenceTypeIds` specified in the specified `view` using the `degree` specified as the

degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId, OpcBrowseNodeDegree degree,
    IEnumerable<OpcNodeId> referenceTypeIds)
```

Parameters

view [OpcViewDescription](#)

The [OpcViewDescription](#) of the view onto the address space being browsed.

nodeId [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

degree [OpcBrowseNodeDegree](#)

The [OpcBrowseNodeDegree](#) to cumulate subsequent browse operations by respecting the node layers to include while browsing.

referenceTypeIds [IEnumerable<OpcNodeId>](#)

A sequence of [OpcNodeId](#) instances identifying the type of references to browse for. If empty the [HierarchicalReferences](#) identifier is used.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

The **view** or **nodeId** or **referenceTypeIds** or one of its items is a null reference (Nothing in Visual Basic).

OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree, IEnumerable<OpcReferenceType>)

Initializes a new instance of the [OpcBrowseNode](#) class using the specified **nodeId** to browse the references specified by **referenceTypes** in the specified **view** using the **degree** specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId, OpcBrowseNodeDegree degree,
    IEnumerable<OpcReferenceType> referenceTypes)
```

Parameters

view [OpcViewDescription](#)

The [OpcViewDescription](#) of the view onto the address space being browsed.

[nodeId](#) [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

[degree](#) [OpcBrowseNodeDegree](#)

The [OpcBrowseNodeDegree](#) to cumulate subsequent browse operations by respecting the node layers to include while browsing.

[referenceTypes](#) [IEnumerable<OpcReferenceType>](#)

A sequence of [OpcReferenceType](#) values representing the type of references to browse for. If empty the [HierarchicalReferences](#) is used.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

The [view](#) or [nodeId](#) or [referenceTypes](#) is a null reference (Nothing in Visual Basic).

OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree, OpcNodeId[])

Initializes a new instance of the [OpcBrowseNode](#) class using the specified [nodeId](#) to browse the references identified by [referenceTypeIds](#) in the specified [view](#) using the [degree](#) specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId, OpcBrowseNodeDegree degree,
    params OpcNodeId[] referenceTypeIds)
```

Parameters

[view](#) [OpcViewDescription](#)

The [OpcViewDescription](#) of the view onto the address space being browsed.

[nodeId](#) [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

[degree](#) [OpcBrowseNodeDegree](#)

The [OpcBrowseNodeDegree](#) to cumulate subsequent browse operations by respecting the node layers to include while browsing.

[referenceTypeIds](#) [OpcNodeId\[\]](#)

An array of [OpcNodeId](#) instances identifying the type of references to browse for. If empty the [HierarchicalReferences](#) identifier is used.

Exceptions

ArgumentException

The command does not support empty node identifiers.

ArgumentNullException

The `view` or `nodeId` or `referenceTypeIds` or one of its items is a null reference (Nothing in Visual Basic).

OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree, OpcReferenceType[])

Initializes a new instance of the `OpcBrowseNode` class using the specified `nodeId` to browse the references specified by `referenceTypes` in the specified `view` using the `degree` specified as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId, OpcBrowseNodeDegree degree,
    params OpcReferenceType[] referenceTypes)
```

Parameters

`view` `OpcViewDescription`

The `OpcViewDescription` of the view onto the address space being browsed.

`nodeId` `OpcNodeId`

The `OpcNodeId` of the node on which the service will browse the references.

`degree` `OpcBrowseNodeDegree`

The `OpcBrowseNodeDegree` to cumulate subsequent browse operations by respecting the node layers to include while browsing.

`referenceTypes` `OpcReferenceType[]`

An array of `OpcReferenceType` values representing the type of references to browse for. If empty the `HierarchicalReferences` is used.

Exceptions

ArgumentException

The command does not support empty node identifiers.

ArgumentNullException

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

OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcReferenceType[])

Initializes a new instance of the [OpcBrowseNode](#) class using the specified [nodeId](#) to browse the references specified by [referenceTypes](#) in the specified [view](#) using the [Self](#) as the degree of nodes being browsed.

C#

```
public OpcBrowseNode(OpcViewDescription view, OpcNodeId nodeId, params OpcReferenceType[] referenceTypes)
```

Parameters

[view](#) [OpcViewDescription](#)

The [OpcViewDescription](#) of the view onto the address space being browsed.

[nodeId](#) [OpcNodeId](#)

The [OpcNodeId](#) of the node on which the service will browse the references.

[referenceTypes](#) [OpcReferenceType\[\]](#)

An array of [OpcReferenceType](#) values representing the type of references to browse for. If empty the [HierarchicalReferences](#) is used.

Exceptions

[ArgumentException](#)

The command does not support empty node identifiers.

[ArgumentNullException](#)

The [view](#) or [nodeId](#) or [referenceTypes](#) is a null reference (Nothing in Visual Basic).

Properties

Attributes

Gets the mask used to identify the different attributes to read after a whole layer (controlled by [Degree](#)) of nodes has been browsed.

C#

```
public OpcAttributes Attributes { get; set; }
```

Property Value

[OpcAttributes](#)

A combination of the members defined by the [OpcAttributes](#) enumeration used to identify the different

attributes (defined by the [OpcAttribute](#) enumeration) to read while browsing the different layers of the dedicated node tree.

Category

C#

```
public OpcNodeCategory Category { get; set; }
```

Property Value

[OpcNodeCategory](#)

Degree

Gets or sets a value indicating the degree of relation to browse at once.

C#

```
public OpcBrowseNodeDegree Degree { get; set; }
```

Property Value

[OpcBrowseNodeDegree](#)

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

Options

Gets the options used to include and exclude information offered by the server while browsing its address space.

C#

```
public OpcBrowseOptions Options { get; set; }
```

Property Value

[OpcBrowseOptions](#)

A combination of the members defined by the [OpcBrowseOptions](#) enumeration. The default value is [IncludeAll](#).

ReferenceTypelds

Gets a read-only collection of [OpcNodeId](#) objects used to identify the different reference types to include while browsing the node tree.

C#

```
public OpcReadOnlyNodeIdCollection ReferenceTypeIds { get; }
```

Property Value

OpcReadOnlyNodeIdCollection

An instance of the read-only collection [OpcReadOnlyNodeIdCollection](#) containing the [OpcNodeId](#) objects identifying the reference types to include while browsing the node tree.

ReferenceTypes

Gets a read-only collection of [OpcReferenceType](#) values used to identify the different built-in different reference types to include while browsing the node tree.

C#

```
public OpcReadOnlyReferenceTypeCollection ReferenceTypes { get; }
```

Property Value

OpcReadOnlyReferenceTypeCollection

An instance of the read-only collection [OpcReadOnlyReferenceTypeCollection](#) containing the [OpcNodeId](#) objects identifying the reference types to include while browsing the node tree.

View

Gets the [OpcViewDescription](#) which identifies the view used then browsing the node tree.

C#

```
public OpcViewDescription View { get; }
```

Property Value

OpcViewDescription

The [OpcViewDescription](#) of the view to browse.

Table of Contents

Constructors	1
OpcBrowseNode(OpcNodeId)	1
OpcBrowseNode(OpcNodeId, IEnumerable<OpcNodeId>)	1
OpcBrowseNode(OpcNodeId, IEnumerable<OpcReferenceType>)	2
OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree)	2
OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree, IEnumerable<OpcNodeId>)	3
OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree, IEnumerable<OpcReferenceType>)	4
OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree, OpcNodeId[])	4
OpcBrowseNode(OpcNodeId, OpcBrowseNodeDegree, OpcReferenceType[])	5
OpcBrowseNode(OpcNodeId, OpcNodeId[])	6
OpcBrowseNode(OpcNodeId, OpcReferenceType[])	6
OpcBrowseNode(OpcViewDescription, OpcNodeId)	7
OpcBrowseNode(OpcViewDescription, OpcNodeId, IEnumerable<OpcNodeId>)	7
OpcBrowseNode(OpcViewDescription, OpcNodeId, IEnumerable<OpcReferenceType>)	8
OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree)	9
OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree, IEnumerable<OpcNodeId>)	9
OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree, IEnumerable<OpcReferenceType>)	10
OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree, OpcNodeId[])	11
OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcBrowseNodeDegree, OpcReferenceType[])	12
OpcBrowseNode(OpcViewDescription, OpcNodeId, OpcReferenceType[])	13
Properties	13
Attributes	13
Category	14
Degree	14
Options	14
ReferenceTypeIds	14
ReferenceTypes	15
View	15