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 cummulate 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 cummulate 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 `referenceTypeIds` 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 cummulate 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 cummulate 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 cummulate 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 cummulate 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 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 `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 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 `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.

ReferenceTypeIds

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-int 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.

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