

OpcFileNode Class

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll

Defines a file node.

C#

```
public class OpcFileNode : OpcObjectNode, IOpcNode, IOpcNodeInfo
```

Inheritance [Object](#) > [OpcNode](#) > [OpcInstanceNode](#) > [OpcObjectNode](#) > [OpcFileNode](#)

Implements [IOpcNode](#), [IOpcNodeInfo](#)

Remarks

The file node uses the type definition [FileType](#).

Constructors

Name	Description
OpcFileNode (IOpcNode , OpcName , FileInfo)	Initializes a new instance of the OpcFileNode class accessible by the name specified with the file to represent defined by fileInfo as a child node of the parent node given.
OpcFileNode (IOpcNode , OpcName , IOpcFileInfo)	Initializes a new instance of the OpcFileNode class accessible by the name specified with the file to represent defined by fileInfo as a child node of the parent node given.
OpcFileNode (IOpcNode , OpcName , OpcNodeId , FileInfo)	Initializes a new instance of the OpcFileNode class accessible by the name and id specified with the file information defined by fileInfo as a child node of the parent node given.
OpcFileNode (IOpcNode , OpcName , OpcNodeId , IOpcFileInfo)	Initializes a new instance of the OpcFileNode class accessible by the name and id specified with the file information defined by fileInfo as a child node of the parent node given.
OpcFileNode (IOpcNode , OpcName , OpcNodeId , String)	Initializes a new instance of the OpcFileNode class accessible by the name and id specified with the file information defined by filePath as a child node of the parent node given.
OpcFileNode (IOpcNode , OpcName , String)	Initializes a new instance of the OpcFileNode class accessible by the name specified with the file to represent defined by filePath as a child node of the parent node given.
OpcFileNode (OpcName , FileInfo)	Initializes a new instance of the OpcFileNode class accessible by the name specified with the file to represent given by fileInfo .
OpcFileNode (OpcName , IOpcFileInfo)	Initializes a new instance of the OpcFileNode class accessible by the name specified with the file to represent given by fileInfo .
OpcFileNode (OpcName , OpcNodeId , FileInfo)	Initializes a new instance of the OpcFileNode class accessible by the name and id specified with the file to represent given by fileInfo .
OpcFileNode (OpcName , OpcNodeId , IOpcFileInfo)	Initializes a new instance of the OpcFileNode class accessible by the name and id specified with the file to represent given by fileInfo .

Name	Description
<code>OpcFileNode(OpcName, OpcNodeId, String)</code>	Initializes a new instance of the <code>OpcFileNode</code> class accessible by the <code>name</code> and <code>id</code> specified with the file to represent given by <code>filePath</code> .
<code>OpcFileNode(OpcName, String)</code>	Initializes a new instance of the <code>OpcFileNode</code> class accessible by the <code>name</code> specified with the file to represent given by <code>filePath</code> .

Events

Name	Description
<code>AfterApplyChanges</code>	Occurs after one or more changes on the node has been notified. (Inherited from <code>OpcNode</code>)
<code>BeforeApplyChanges</code>	Occurs before one or more changes on the node are notified. (Inherited from <code>OpcNode</code>)

Properties

Name	Description
<code>CanUserWrite</code>	Gets or sets a value indicating whether by default a user can access the file represented for writing taking user access rights into account.
<code>CanUserWriteNode</code>	Gets the <code>OpcPropertyNode`1</code> of the <code>CanUserWrite</code> property.
<code>CanWrite</code>	Gets or sets a value indicating whether the file is writable. It does not take any user access rights into account, i.e. although the file is writable this may be restricted to a certain user / user group.
<code>CanWriteNode</code>	Gets the <code>OpcPropertyNode`1</code> of the <code>CanWrite</code> property.
<code>Category</code>	Gets the <code>NodeCategoryOpcAttribute</code> which identifies the kind of node and is therefore used to classify the node regarding its use and purpose. (Inherited from <code>OpcNode</code>)
<code>CloseNode</code>	Gets the <code>OpcFileCloseMethodNode</code> used to handle 'Close' method calls to close the file represented.
<code>DefaultReferenceTypeId</code>	Gets the default identifier which identifies the type that defines the underlying node reference within this <code>OpcInstanceNode</code> is referenced by its parent node. (Inherited from <code>OpcInstanceNode</code>)
<code>DefaultReferenceTypeId</code>	Gets the default identifier which identifies the type that defines the underlying node reference within this <code>OpcInstanceNode</code> is referenced by its parent node. (Inherited from <code>OpcObjectNode</code>)
<code>DefaultTypeDefinitionId</code>	Gets the default identifier which identifies the node that defines the underlying node type from that this <code>OpcInstanceNode</code> has been created.
<code>DefaultTypeDefinitionId</code>	Gets the default identifier which identifies the node that defines the underlying node type from that this <code>OpcInstanceNode</code> has been created. (Inherited from <code>OpcInstanceNode</code>)
<code>DefaultTypeDefinitionId</code>	Gets the default identifier which identifies the node that defines the underlying node type from that this <code>OpcInstanceNode</code> has been created. (Inherited from <code>OpcObjectNode</code>)
<code>Description</code>	Gets or sets the value of the optional <code>DescriptionOpcAttribute</code> which shall explain the meaning of the node. (Inherited from <code>OpcNode</code>)

Name	Description
Descriptions	Gets the OpcNodeGlobalization instance used to control the localization and other globalization related tasks for the Description attribute of the current node. (Inherited from OpcNode)
DisplayName	Gets or sets the value of the DisplayNameOpcAttribute which defines the localizable name of the node. (Inherited from OpcNode)
DisplayNames	Gets the OpcNodeGlobalization instance used to control the localization and other globalization related tasks for the DisplayName attribute of the current node. (Inherited from OpcNode)
File	Gets the IOpcFileInfo used to access the file represented.
FileInfo	Gets the FileInfo of the file represented.
GetPositionNode	Gets the OpcFileGetPositionMethodNode used to handle 'GetPosition' method calls to query the position in the file represented.
HasPendingChanges	Gets a value indicating whether there exists any pending change on the node. (Inherited from OpcNode)
Id	Gets the value of the NodeIdOpcAttribute which unambiguously identifies the node. (Inherited from OpcNode)
MimeType	Gets the media type of the file.
MimeTypeNode	Gets the OpcPropertyNode`1 of the MimeType property.
ModellingRuleId	Gets or sets the identifier which defines how the OpcInstanceNode is used for instantiation. (Inherited from OpcInstanceNode)
Name	Gets or sets the value of the BrowseNameOpcAttribute which defines the non-localizable human-readable name used when browsing the address space. (Inherited from OpcNode)
Namespace	(Inherited from OpcNode)
OpenCount	Gets the number of currently valid file handles on the file.
OpenCountNode	Gets the OpcPropertyNode`1 of the OpenCount property.
OpenNode	Gets the OpcFileOpenMethodNode used to handle 'Open' method calls to open the file represented.
Parent	Gets the parent node of the node. (Inherited from OpcNode)
Parent	Gets the parent node of the node. (Inherited from OpcInstanceNode)
PendingChanges	Gets a value indicating the most recent changes performed on the node since their last notification. (Inherited from OpcNode)
QueryEventsCallback	Gets or sets a callback used to query any event information which belongs to the node. (Inherited from OpcNode)
ReadDescriptionCallback	(Inherited from OpcNode)
ReadDisplayNameCallback	(Inherited from OpcNode)
ReadNode	Gets the OpcFileReadMethodNode used to handle 'Read' method calls to read data from the file represented.
ReadUserWriteAccessCallback	(Inherited from OpcNode)
ReadWriteAccessCallback	(Inherited from OpcNode)

Name	Description
ReferenceType	Gets a value which defines a pre-defined used ReferenceTypeId as one of the members defined by the OpcReferenceType enumeration to simplify querying standard reference types. (Inherited from OpcInstanceNode)
ReferenceTypeId	Gets or sets the identifier which identifies the node that defines the semantic of the reference between a source and a target node and generally reflects an operation between the two, such as "A contains B". (Inherited from OpcInstanceNode)
SetPositionNode	Gets the OpcFileSetPositionMethodNode used to handle 'SetPosition' method calls to update the position in the file represented.
Size	Gets the size of the file in bytes.
SizeNode	Gets the OpcPropertyNode 1 of the Size property.
SymbolicName	(Inherited from OpcNode)
Tag	Gets or sets the object that contains additional user data about the node. (Inherited from OpcNode)
TypeDefinitionId	Gets or sets the identifier which identifies the node that defines the underlying node type from that this OpcInstanceNode has been created. (Inherited from OpcInstanceNode)
UserWriteAccess	Gets or sets the value of the optional UserWriteAccessOpcAttribute which exposes the possibilities of a client to write the attributes of the node taking user access rights into account. (Inherited from OpcNode)
WriteAccess	Gets or sets the value of the optional WriteAccessOpcAttribute which exposes the possibilities of a client to write the attributes of the node. (Inherited from OpcNode)
WriteDescriptionCallback	(Inherited from OpcNode)
WriteDisplayNameCallback	(Inherited from OpcNode)
WriteNode	Gets the OpcFileWriteMethodNode used to handle 'Write' method calls to write data to the file represented.
WriteUserWriteAccessCallback	(Inherited from OpcNode)
WriteWriteAccessCallback	(Inherited from OpcNode)

Methods

Name	Description
AddChild(OpcContext, OpcInstanceNode)	(Inherited from OpcInstanceNode)
AddNotifier(OpcContext, IOpcNode)	(Inherited from OpcNode)
AddNotifier(OpcContext, IOpcNode)	(Inherited from OpcObjectNode)
ApplyChanges(OpcContext)	Notifies about changes performed on the node since the last notification and resets the pending changes to None . (Inherited from OpcNode)
ApplyChanges(OpcContext, Boolean)	Notifies about changes performed on the node (and optionally on its children) since the last notification and resets the pending changes to None . (Inherited from OpcNode)
AttributeValue(OpcAttribute)	Retrieves the value of the attribute specified. (Inherited from OpcNode)

Name	Description
AttributeValue`1(OpcAttribute)	Retrieves the value of the attribute specified. (Inherited from OpcNode)
Child(OpcContext, OpcName)	Retrieves the child node its Name property matches exactly the name specified. (Inherited from OpcNode)
Children(OpcContext)	Retrieves a sequence of all nodes organized as children of this node. (Inherited from OpcNode)
InitializeDefaults	Initializes the default values used by the OpcFileNode .
InitializeDefaults	Initializes the default values used by the node implementation represented / required. (Inherited from OpcNode)
InitializeDefaults	Initializes the default values used by the OpcInstanceNode . (Inherited from OpcInstanceNode)
IsChangePending(OpcNodeChanges)	(Inherited from OpcNode)
OnAfterApplyChanges(OpcNodeChangesEventArgs)	Raises the AfterApplyChanges event using the event data specified. (Inherited from OpcNode)
OnBeforeApplyChanges(OpcNodeChangesEventArgs)	Raises the BeforeApplyChanges event using the event data specified. (Inherited from OpcNode)
QueryEventsCore(OpcNodeContext, OpcEventCollection)	(Inherited from OpcNode)
ReadAttributeValueCore`1(OpcReadAttributeValueContext, OpcAttributeValue)	(Inherited from OpcNode)
ReadCanUserWrite(OpcReadPropertyValueContext, OpcPropertyValue)	Reads the value of the CanUserWrite property.
ReadCanWrite(OpcReadPropertyValueContext, OpcPropertyValue)	Reads the value of the CanWrite property.
RemoveChild(OpcContext, OpcInstanceNode)	(Inherited from OpcInstanceNode)
RemoveNotifier(OpcContext, IOpcNode)	(Inherited from OpcNode)
RemoveNotifier(OpcContext, IOpcNode)	(Inherited from OpcInstanceNode)
RemoveNotifier(OpcContext, IOpcNode)	(Inherited from OpcObjectNode)
ReportEvent(OpcContext, OpcEvent)	(Inherited from OpcNode)
UpdateChanges(OpcContext, OpcNodeChanges)	Notifies about the changes on behalf of the node and removes pending changes which intersect with the changes specified. (Inherited from OpcNode)
UpdateChanges(OpcContext, OpcNodeChanges, Boolean)	Notifies about the changes on behalf of the node (and optionally on its children) and removes pending changes which intersect with the changes specified. (Inherited from OpcNode)
WriteAttributeValueCore`1(OpcWriteAttributeValueContext, OpcAttributeValue)	(Inherited from OpcNode)

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