

OpcFileInfo Members

Namespace: Opc.UaFx.Client

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

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

Constructors

OpcFileInfo(OpcClient, OpcNodeId)

Initializes a new instance of the [OpcFileInfo](#) class, which acts as a wrapper for the file node identified by the [fileNodeId](#) and accessed using the [client](#) specified.

C#

```
public OpcFileInfo(OpcClient client, OpcNodeId fileNodeId)
```

Parameters

[client](#) [OpcClient](#)

The [OpcClient](#) to use when accessing the file node information.

[fileNodeId](#) [OpcNodeId](#)

The [OpcNodeId](#) of the file node to wrap.

Exceptions

[ArgumentNullException](#)

The [client](#) or [fileNodeId](#) is a null reference (Nothing in Visual Basic).

OpcFileInfo(OpcFileNodeContext)

Initializes a new instance of the [OpcFileInfo](#) class, which acts as a wrapper for the file node identified by the [context](#) specified.

C#

```
public OpcFileInfo(OpcFileNodeContext context)
```

Parameters

[context](#) [OpcFileNodeContext](#)

The [OpcFileNodeContext](#) identifying the file node to be wrapped by the new instance.

Exceptions

ArgumentNullException

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

Properties

CanUserWrite

Gets a value indicating whether the file is writable taking user access rights into account.

C#

```
public bool CanUserWrite { get; }
```

Property Value

Boolean

The value true if the current file can be written by the current user; otherwise the value false.

Exceptions

InvalidOperationException

The file node described by the current **OpcFileInfo** object could not be found.

Remarks

When first called, **OpcFileInfo** calls **Refresh** and caches information about the file. On subsequent calls, you must call **Refresh** to get the latest copy of the information.

This property does not take into account whether the file is currently opened for writing by another client and thus currently locked and not writable by others.

CanWrite

Gets a value indicating whether the file is writable.

C#

```
public bool CanWrite { get; }
```

Property Value

Boolean

The value true if the current file can be written; otherwise the value false.

Exceptions

InvalidOperationException

The file node described by the current [OpcFileInfo](#) object could not be found.

Remarks

When first called, [OpcFileInfo](#) calls [Refresh](#) and caches information about the file. On subsequent calls, you must call [Refresh](#) to get the latest copy of the information.

This property 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. The property does not take into account whether the file is currently opened for writing by another client and thus currently locked and not writable by others.

Context

Gets the [OpcFileNodeContext](#) used to wrap and access the file node its information is to be provided by the [OpcFileInfo](#).

C#

```
public OpcFileNodeContext Context { get; }
```

Property Value

OpcFileNodeContext

An instance of the [OpcFileNodeContext](#) class.

Exists

Gets a value indicating whether the file node represented exists.

C#

```
public bool Exists { get; }
```

Property Value

Boolean

The value true if the file node exists; otherwise the value false if the file node does not exist.

Remarks

When first called, [OpcFileInfo](#) calls [Refresh](#) and caches information about the file. On subsequent calls, you must call [Refresh](#) to get the latest copy of the information.

The [Exists](#) property returns false if any error occurs while trying to determine if the specified file node exists. This can occur in situations that raise exceptions.

Length

Gets the size, in bytes, of the current file represented by the file node described.

C#

```
public long Length { get; }
```

Property Value

[Int64](#)

The size of the file of the current file node in bytes.

Exceptions

[InvalidOperationException](#)

The file node described by the current [OpcFileInfo](#) object could not be found.

Remarks

To get the latest value, call the [Refresh](#) method.

MimeType

Gets the media type of the current file represented by the file node described.

C#

```
public string MimeType { get; }
```

Property Value

[String](#)

The media type of the file of the current file node based on RFC 2046.

Exceptions

[InvalidOperationException](#)

The file node described by the current [OpcFileInfo](#) object could not be found.

Remarks

To get the latest value, call the [Refresh](#) method.

Name

Gets the name of the file node described.

C#

```
public OpcName Name { get; }
```

Property Value

[OpcName](#)

The [OpcName](#) of the file node described.

Exceptions

[InvalidOperationException](#)

The file node described by the current [OpcFileInfo](#) object could not be found.

Remarks

When first called, [OpcFileInfo](#) calls [Refresh](#) and caches information about the file. On subsequent calls, you must call [Refresh](#) to get the latest copy of the information.

Methods

AppendText()

Creates a [StreamWriter](#) that appends text to the file represented by this instance of the [OpcFileInfo](#).

C#

```
public StreamWriter AppendText()
```

Returns

[StreamWriter](#)

A new instance of the [StreamWriter](#) class.

Exceptions

InvalidOperationException

The file node described by the current [OpcFileInfo](#) object could not be found.

Remarks

This method returns a write-only [OpcFileStream](#) object with the mode set to [AppendWrite](#).

Open(OpcFileMode)

Opens a file in the specified [mode](#).

C#

```
public OpcFileStream Open(OpcFileMode mode)
```

Parameters

[mode](#) [OpcFileMode](#)

A [OpcFileMode](#) member specifying the mode in which to open the file.

Returns

[OpcFileStream](#)

A [OpcFileStream](#) opened in the specified mode.

Exceptions

InvalidOperationException

The file node described by the current [OpcFileInfo](#) object could not be found.

OpenRead()

Creates a read-only [OpcFileStream](#).

C#

```
public OpcFileStream OpenRead()
```

Returns

[OpcFileStream](#)

A new read-only [OpcFileStream](#) object.

Exceptions

InvalidOperationException

The file node described by the current [OpcFileInfo](#) object could not be found.

Remarks

This method returns a read-only [OpcFileStream](#) object with the mode set to [Read](#).

OpenText()

Creates a [StreamReader](#) with UTF8 encoding.

C#

```
public StreamReader OpenText()
```

Returns

StreamReader

A new [StreamReader](#) with UTF8 encoding.

Exceptions

InvalidOperationException

The file node described by the current [OpcFileInfo](#) object could not be found.

OpenWrite()

Creates a write-only [OpcFileStream](#).

C#

```
public OpcFileStream OpenWrite()
```

Returns

OpcFileStream

A write-only [OpcFileStream](#) object.

Exceptions

InvalidOperationException

The file node described by the current [OpcFileInfo](#) object could not be found.

Remarks

This method returns a write-only [OpcFileStream](#) object with the mode set to [Write](#).

The stream created does not append the new content to the existing content. Instead, it overwrites the existing data with the new data. If you overwrite longer data (such as "This is a test of the OpenWrite method") with a shorter string (like "Second "), the file will contain a mix of the strings ("Second test of the OpenWrite method").

Refresh()

Refreshes the state and information of the [OpcFileInfo](#) object.

C#

```
public void Refresh()
```

Remarks

The method takes a snapshot of the file node.

Calls must be made to [Refresh](#) before attempting to get any information, or the information will be outdated.

ToString()

Returns the [OpcNodeId](#) or the [Value](#) of the file node described.

C#

```
public override string ToString()
```

Returns

String

A string representing the file node described.

Table of Contents

Constructors	1
OpcFileInfo(OpcClient, OpcNodeId)	1
OpcFileInfo(OpcFileNodeContext)	1
Properties	2
CanUserWrite	2
CanWrite	2
Context	3
Exists	3
Length	4
MimeType	4
Name	5
Methods	5
AppendText()	5
Open(OpcFileMode)	6
OpenRead()	6
OpenText()	7
OpenWrite()	7
Refresh()	8
ToString()	8

