

OpcInstanceNodeSnapshot Members

Namespace: Opc.UaFx

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

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

Properties

Tag

Gets or sets the object that contains additional user data about the snapshot.

C#

```
public object Tag { get; set; }
```

Property Value

[Object](#)

An [Object](#) that contains additional user data about the snapshot. The default is null (Nothing in Visual Basic).

Methods

Create(OpcContext, OpcInstanceNode)

Creates a new [OpcInstanceNodeSnapshot](#) from the [node](#) specified.

C#

```
public static OpcInstanceNodeSnapshot Create(OpcContext context, OpcInstanceNode node)
```

Parameters

[context](#) [OpcContext](#)

The [OpcContext](#) to use to collect the snapshot data.

[node](#) [OpcInstanceNode](#)

The [OpcInstanceNode](#) from which the snapshot data is to be collected.

Returns

[OpcInstanceNodeSnapshot](#)

A new instance of the [OpcInstanceNodeSnapshot](#) class containing the browsable information of the [node](#)

specified.

Exceptions

ArgumentNullException

The `context` or `node` is a null reference (Nothing in Visual Basic).

Get<T>(OpcAttribute, OpcName)

Retrieves the value of the `attribute` of the element browsable through the `name` specified.

C#

```
public T Get<T>(OpcAttribute attribute, OpcName name)
```

Parameters

`attribute` OpcAttribute

One of the members defined by the `OpcAttribute` enumeration identifying the attribute value to query from the element specified by the `name`.

`name` OpcName

The `OpcName` to use to browse to the element from that the requested `attribute` value is to be retrieved.

Returns

T

The `T` of the attribute of the element requested or the default value if the attribute value is not of the type specified by `T`.

Get<T>(OpcAttribute, OpcName[])

Retrieves the value of the `attribute` of the element browsable through the `pathElements` specified.

C#

```
public T Get<T>(OpcAttribute attribute, params OpcName[] pathElements)
```

Parameters

`attribute` OpcAttribute

One of the members defined by the `OpcAttribute` enumeration identifying the attribute value to query from the element specified by the `pathElements`.

`pathElements` OpcName[]

The `OpcName`'s to use to browse to the element from that the requested `attribute` value is to be

retrieved.

Returns

T

The T of the attribute of the element requested or the default value if the attribute value is not of the type specified by T.

Exceptions

ArgumentNullException

One of the items in pathElements is a null reference (Nothing in Visual Basic).

Get<T>(OpcAttribute, OpcNamePath)

Retrieves the value of the attribute of the element browsable through the path specified.

C#

```
public T Get<T>(OpcAttribute attribute, OpcNamePath path)
```

Parameters

attribute OpcAttribute

One of the members defined by the OpcAttribute enumeration identifying the attribute value to query from the element specified by the path.

path OpcNamePath

The sequence OpcName instances to use to browse to the element from that the requested attribute value is to be retrieved.

Returns

T

The T of the attribute of the element requested or the default value if the attribute value is not of the type specified by T.

Exceptions

ArgumentNullException

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

Get<T>(OpcAttribute, String)

Retrieves the value of the **attribute** of the element browsable through the **name** specified.

C#

```
public T Get<T>(OpcAttribute attribute, string name = "")
```

Parameters

attribute OpcAttribute

One of the members defined by the **OpcAttribute** enumeration identifying the attribute value to query from the element specified by the **name**.

name String

The **String** formatted **OpcName** to use to browse to the element from that the requested **attribute** value is to be retrieved.

Returns

T

The **T** of the attribute of the element requested or the default value if the attribute value is not of the type specified by **T**.

Get<T>(OpcName)

Retrieves the **Value** attribute of the element browsable through the **name** specified.

C#

```
public T Get<T>(OpcName name)
```

Parameters

name OpcName

The **OpcName** to use to browse to the element from that the requested **Value** attribute is to be retrieved.

Returns

T

The **T** of the attribute of the element requested or the default value if the attribute value is not of the type specified by **T**.

Get<T>(String)

Retrieves the **Value** attribute of the element browsable through the **name** specified.

C#

```
public T Get<T>(string name = "")
```

Parameters

name String

The String formatted OpcName to use to browse to the element from that the requested Value attribute is to be retrieved.

Returns

T

The T of the attribute of the element requested or the default value if the attribute value is not of the type specified by T.

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