

# OpcVariableNodeInfo Class

**Namespace:** Opc.UaFx.Client

**Assemblies:** Opc.UaFx.Advanced.dll

Provides properties and methods for the examination of the attributes and references of a node which is classified as [Variable](#).

**C#**

```
public class OpcVariableNodeInfo : OpcInstanceNodeInfo, IOpcNodeInfo
```

**Inheritance** [Object](#) > [OpcNodeInfo](#) > [OpcInstanceNodeInfo](#) > [OpcVariableNodeInfo](#)

## Derived

- [OpcAnalogItemNodeInfo](#)
- [OpcDataTypeDescriptionNodeInfo](#)
- [OpcDataTypeDictionaryNodeInfo](#)

**Implements** [IOpcNodeInfo](#)

## Properties

| Name                            | Description                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">AccessLevel</a>     | Gets the value of the <a href="#">AccessLevel</a> attribute of the variable node represented.                                                                                           |
| <a href="#">ArrayDimensions</a> | Gets the length for each dimension of an array value of the variable node represented.                                                                                                  |
| <a href="#">ArrayLength</a>     | Gets the total number of elements in all the dimensions of the array value of the variable node represented.                                                                            |
| <a href="#">ArrayRank</a>       | Gets the rank (number of dimensions) of the array value of the variable node represented. For example, a one-dimensional array returns 1, a two-dimensional array returns 2, and so on. |
| <a href="#">Category</a>        | Gets the classification of the node using one of the predefined categories.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                                            |
| <a href="#">Context</a>         | Gets the browse setup and context to use to inspect the node, its attributes and its relationships to other nodes.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                     |
| <a href="#">DataType</a>        | Gets the <a href="#">OpcTypeInfoNodeInfo</a> about the data type node of the variable node represented.                                                                                 |
| <a href="#">DataTypeId</a>      | Gets the <a href="#">OpcNodeId</a> about the data type node of the variable node represented.                                                                                           |
| <a href="#">DisplayName</a>     | Gets the value of the <a href="#">DisplayNameOpcAttribute</a> which defines the localizable name of the node.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                          |
| <a href="#">IsArray</a>         | Gets a value indicating whether the value of the variable represented is an array.                                                                                                      |
| <a href="#">IsHistorizing</a>   | Gets a value indicating whether the server is actively collecting data for the history of the variable node represented.                                                                |
| <a href="#">Name</a>            | Gets the nominal information of the node represented.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                                                                  |
| <a href="#">NodeId</a>          | Gets the node identifier of the node represented.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                                                                      |

| Name             | Description                                                                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference        | Gets the description of the node reference through that the node represented and examined has been located.<br>(Inherited from <a href="#">OpcNodeInfo</a> )       |
| TypeDefinition   | Gets the <a href="#">OpcTypeNodeInfo</a> about the type definition node of the instance node represented.<br>(Inherited from <a href="#">OpcInstanceNodeInfo</a> ) |
| TypeDefinitionId | Gets the <a href="#">OpcNodeId</a> about the type definition node of the instance node represented.<br>(Inherited from <a href="#">OpcInstanceNodeInfo</a> )       |
| UserAccessLevel  | Gets the value of the <a href="#">UserAccessLevel</a> attribute of the variable node represented.                                                                  |
| UserWriteAccess  | Gets a mask that indicates which attributes are writable by the current user of the client of a node taking user access rights into account.                       |
| WriteAccess      | Gets a mask that indicates which attributes are generally writable through the server not taking user access rights into account.                                  |

## Methods

| Name                                             | Description                                                                                                                                                                                                     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Attribute( <a href="#">OpcAttribute</a> )        | Retrieves the <a href="#">OpcAttributeInfo</a> of the node that has the specified <a href="#">OpcAttribute</a> identifier.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                     |
| Attribute(String)                                | Retrieves the <a href="#">OpcAttributeInfo</a> of the node that is known using the specified <a href="#">browseName</a> .<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                      |
| Attributes                                       | Retrieves for each <a href="#">OpcAttribute</a> identifier the according <a href="#">OpcAttributeInfo</a> of the node.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                         |
| Attributes(IEnumerable)                          | Retrieves for each <a href="#">OpcAttribute</a> identifier specified by <a href="#">attributes</a> the according <a href="#">OpcAttributeInfo</a> of the node.<br>(Inherited from <a href="#">OpcNodeInfo</a> ) |
| Attributes(IEnumerable)                          | Retrieves the <a href="#">OpcAttributeInfo</a> of the node that is known using the specified <a href="#">browseNames</a> .<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                     |
| Attributes( <a href="#">OpcAttribute</a> )       | Retrieves for each <a href="#">OpcAttribute</a> identifier specified by <a href="#">attributes</a> the according <a href="#">OpcAttributeInfo</a> of the node.<br>(Inherited from <a href="#">OpcNodeInfo</a> ) |
| Attributes(String)                               | Retrieves the <a href="#">OpcAttributeInfo</a> of the node that is known using the specified <a href="#">browseNames</a> .<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                     |
| AttributeValue( <a href="#">OpcAttribute</a> )   | Retrieves the value of the <a href="#">attribute</a> specified.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                                                                                |
| AttributeValue`1( <a href="#">OpcAttribute</a> ) | Retrieves the value of the <a href="#">attribute</a> specified.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                                                                                |
| Child(String)                                    | Retrieves the <a href="#">OpcNodeInfo</a> of the child node that is known using the specified <a href="#">name</a> of the node.<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                |
| Children                                         | Retrieves for each child node of the node represented the according <a href="#">OpcNodeInfo</a> .<br>(Inherited from <a href="#">OpcNodeInfo</a> )                                                              |
| Children( <a href="#">OpcNodeCategory</a> )      | Retrieves for each child node of the <a href="#">category</a> specified of the node represented the according <a href="#">OpcNodeInfo</a> .<br>(Inherited from <a href="#">OpcNodeInfo</a> )                    |

| Name                       | Description                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Children(OpcReferenceType) | Retrieves for each child node referenced using the <b>referenceType</b> specified the according <b>OpcNodeInfo</b> .<br>(Inherited from <b>OpcNodeInfo</b> )       |
| GetArrayLength(Int32)      | Gets a 32-bit integer that represents the number of elements in the specified dimension of the array value of the variable node.                                   |
| GetArrayLowerBound(Int32)  | Gets the index of the first element of the specified dimension in the array value of the variable node.                                                            |
| GetArrayUpperBound(Int32)  | Gets the index of the last element of the specified dimension in the array value of the variable node.                                                             |
| Parent(String)             | Retrieves the <b>OpcNodeInfo</b> of the parent node that is known using the specified <b>name</b> of the node.<br>(Inherited from <b>OpcNodeInfo</b> )             |
| Parents                    | Retrieves for each parent node of the node represented the according <b>OpcNodeInfo</b> .<br>(Inherited from <b>OpcNodeInfo</b> )                                  |
| Parents(OpcNodeCategory)   | Retrieves for each parent node of the <b>category</b> specified of the node represented the according <b>OpcNodeInfo</b> .<br>(Inherited from <b>OpcNodeInfo</b> ) |
| Parents(OpcReferenceType)  | Retrieves for each parent node referenced using the <b>referenceType</b> specified the according <b>OpcNodeInfo</b> .<br>(Inherited from <b>OpcNodeInfo</b> )      |



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