

OpcNodeAttribute<T> Class

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll

Stores the generic value of an attribute associated with a specific node optionally associated with status and timestamp information.

C#

```
public class OpcNodeAttribute<T> : OpcValue<T>, IFormattable, IComparable<OpcValue>,
IEquatable<OpcValue>, IComparable<OpcValue<T>>, IEquatable<OpcValue<T>>, IOpcNodeAttribute,
IOpcNodeDescriptor, IComparable, IComparable<OpcNodeAttribute<T>>,
IEquatable<OpcNodeAttribute<T>>
```

Inheritance [Object](#) > [OpcValue](#) > [OpcValue<T>](#) > [OpcNodeAttribute<T>](#)

Derived

- [OpcNodeValue`1](#)

Implements [IFormattable](#), [IComparable<OpcValue>](#), [IEquatable<OpcValue>](#), [IComparable<OpcValue>](#), [IEquatable<OpcValue>](#), [IOpcNodeAttribute](#), [IOpcNodeDescriptor](#), [IComparable](#), [IComparable<OpcNodeAttribute`1>](#), [IEquatable<OpcNodeAttribute`1>](#)

Constructors

Name	Description
OpcNodeAttribute`1(OpcNodeId, OpcAttribute)	Initializes a new instance of the OpcNodeAttribute`1 class with the nodeId of the node the attribute specified belongs to.
OpcNodeAttribute`1(OpcNodeId, OpcAttribute,)	Initializes a new instance of the OpcNodeAttribute`1 class with the nodeId of the node the attribute and its value specified belongs to.
OpcNodeAttribute`1(OpcNodeId, OpcAttribute, , DateTime)	Initializes a new instance of the OpcNodeAttribute`1 class with the nodeId of the node the attribute and its value with the sourceTimestamp of the value specified belongs to.
OpcNodeAttribute`1(OpcNodeId, OpcAttribute, , DateTime, DateTime)	Initializes a new instance of the OpcNodeAttribute`1 class with the nodeId of the node the attribute and its value , sourceTimestamp and serverTimestamp of the value specified belongs to.
OpcNodeAttribute`1(OpcNodeId, OpcAttribute, , DateTime, DateTime, OpcStatus)	Initializes a new instance of the OpcNodeAttribute`1 class with the nodeId of the node the attribute and its value , sourceTimestamp , serverTimestamp and status of the value specified belongs to.
OpcNodeAttribute`1(OpcNodeId, OpcAttribute, , DateTime, DateTime, OpcStatusCode)	Initializes a new instance of the OpcNodeAttribute`1 class with the nodeId of the node the attribute and its value , sourceTimestamp , serverTimestamp and statusCode of the value specified belongs to.

Name	Description
<code>OpcNodeAttribute`1(OpcNodeId, OpcAttribute, , DateTime, OpcStatus)</code>	Initializes a new instance of the <code>OpcNodeAttribute`1</code> class with the <code>nodeId</code> of the node the <code>attribute</code> and its <code>value</code> , <code>sourceTimestamp</code> and <code>status</code> of the <code>value</code> specified belongs to.
<code>OpcNodeAttribute`1(OpcNodeId, OpcAttribute, , DateTime, OpcStatusCode)</code>	Initializes a new instance of the <code>OpcNodeAttribute`1</code> class with the <code>nodeId</code> of the node the <code>attribute</code> and its <code>value</code> , <code>sourceTimestamp</code> and <code>statusCode</code> of the <code>value</code> specified belongs to.

Properties

Name	Description
<code>Attribute</code>	Gets a value indicating which attribute of a node is represented.
<code>DataType</code>	Gets the type of value represented. (Inherited from <code>OpcValue</code>)
<code>DataTypeId</code>	Gets the node identifier of the <code>DataType</code> of the value represented. (Inherited from <code>OpcValue</code>)
<code>NodeId</code>	Gets the node identifier of the node described.
<code>Rank</code>	Gets the rank of the value represented. (Inherited from <code>OpcValue</code>)
<code>ServerPicoSeconds</code>	Gets or sets the difference between a high resolution timestamp with a resolution of 10 picoseconds and the <code>ServerTimestamp</code> which only has a 100 ns resolution. (Inherited from <code>OpcValue</code>)
<code>ServerTimestamp</code>	Gets or sets the timestamp at which the server recorded the value. (Inherited from <code>OpcValue</code>)
<code>SourcePicoSeconds</code>	Gets or sets the difference between a high resolution timestamp with a resolution of 10 picoseconds and the <code>SourceTimestamp</code> which only has a 100 ns resolution. (Inherited from <code>OpcValue</code>)
<code>SourceTimestamp</code>	Gets or sets the timestamp of the source from that the value originates. (Inherited from <code>OpcValue</code>)
<code>Status</code>	Gets the status information which defines the servers ability to access/provide the value. (Inherited from <code>OpcValue</code>)
<code>Value</code>	Gets or sets the value represented. (Inherited from <code>OpcValue</code>)

Methods

Name	Description
<code>As`1()</code>	Retrieves the underlying <code>Value</code> as the type specified by <code>T</code> . (Inherited from <code>OpcValue</code>)
<code>AsValue`1</code>	Retrieves a new <code>OpcValue`1</code> instance its <code>Value</code> is of the type specified by <code>T</code> . (Inherited from <code>OpcValue</code>)
<code>CompareTo(Object)</code>	Compares the current <code>OpcNodeAttribute`1</code> with the <code>other</code> .
<code>CompareTo(Object)</code>	Compares the current <code>OpcValue</code> with the <code>other</code> . (Inherited from <code>OpcValue</code>)
<code>CompareTo(OpcNodeAttribute)</code>	Compares the current <code>OpcNodeAttribute`1</code> with another <code>OpcNodeAttribute`1</code> .
<code>CompareTo(OpcValue)</code>	Compares the current <code>OpcNodeAttribute`1</code> with the <code>other</code> .

Name	Description
CompareTo(OpcValue)	Compares the current OpcValue with another OpcValue . (Inherited from OpcValue)
CompareTo(OpcValue)	Compares the current OpcNodeAttribute`1 with the other .
Equals(Object)	Determines whether the specified other is equal to this OpcNodeAttribute`1 .
Equals(Object)	Determines whether the specified other is equal to this OpcValue . (Inherited from OpcValue)
Equals(OpcNodeAttribute)	Determines whether the specified other is equal to this OpcNodeAttribute`1 .
Equals(OpcValue)	Determines whether the specified other is equal to this OpcNodeAttribute`1 .
Equals(OpcValue)	Determines whether the specified other is equal to this OpcValue . (Inherited from OpcValue)
Equals(OpcValue)	Determines whether the specified other is equal to this OpcNodeAttribute`1 .
GetHashCode	Retrieves a hash code for this OpcNodeAttribute`1 .
GetHashCode	Retrieves a hash code for this OpcValue . (Inherited from OpcValue)
ToString	Converts the value of this instance to its equivalent string representation. (Inherited from OpcValue)
ToString(String, IFormatProvider)	Converts the value of this instance to its equivalent string representation using the specified format and culture-specific format information.
ToString(String, IFormatProvider)	Converts the value of this instance to its equivalent string representation using the specified format and culture-specific format information. (Inherited from OpcValue)

Operators

Name	Description
op_Equality(OpcNodeAttribute, OpcNodeAttribute)	Returns a value indicating whether two instance of OpcNodeAttribute`1 are equal.
op_Equality(OpcValue, OpcValue)	Returns a value indicating whether two instance of OpcValue are equal. (Inherited from OpcValue)
op_Explicit(OpcNodeAttribute)	Converts a OpcNodeAttribute`1 to an DataValue object.
op_Explicit(Ua.DataValue)	Converts a OpcValue to an DataValue object. (Inherited from OpcValue)
op_GreaterThan(OpcNodeAttribute, OpcNodeAttribute)	Determines whether the first specified OpcNodeAttribute`1</a> object is greater than the second specified <a href="#">OpcNodeAttribute`1 object.
op_GreaterThan(OpcValue, OpcValue)	Determines whether the first specified OpcValue object is greater than the second specified OpcValue object. (Inherited from OpcValue)
op_GreaterThanOrEqual(OpcNodeAttribute, OpcNodeAttribute)	Determines whether the first specified OpcNodeAttribute`1</a> object is greater than or equal to the second specified <a href="#">OpcNodeAttribute`1 object.

Name	Description
op_GreaterThanOrEqual(OpcValue, OpcValue)	Determines whether the first specified OpcValue object is greater than or equal to the second specified OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a Boolean to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a Byte to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a Char to an OpcValue object. (Inherited from OpcValue)
op_Implicit(DataValue)~Opc.UaFx.OpcValue)	Converts a DataValue to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a Decimal to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a Double to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a UInt16 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a Int32 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a UInt64 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able Boolean to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able Byte to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able Char to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able Decimal to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able Double to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able UInt16 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able Int32 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able UInt64 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able SByte to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able Single to an OpcValue object. (Inherited from OpcValue)

Name	Description
op_Implicit(Nullable)	Converts a null-able UInt16 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able UInt32 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Nullable)	Converts a null-able UInt64 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a SByte to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a Single to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a String to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a UInt16 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a UInt32 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(UaFx.OpcValue)	Converts a UInt64 to an OpcValue object. (Inherited from OpcValue)
op_Implicit(Variant)~Opc.UaFx.OpcValue)	Converts a Variant to an OpcValue object. (Inherited from OpcValue)
op_Inequality(OpcNodeAttribute, OpcNodeAttribute)	Returns a value indicating whether two instances of OpcNodeAttribute`1 are not equal.
op_Inequality(OpcValue, OpcValue)	Returns a value indicating whether two instances of OpcValue are not equal. (Inherited from OpcValue)
op_LessThan(OpcNodeAttribute, OpcNodeAttribute)	Determines whether the first specified OpcNodeAttribute`1</a> object is less than the second specified <a href="#">OpcNodeAttribute`1 object.
op_LessThan(OpcValue, OpcValue)	Determines whether the first specified OpcValue object is less than the second specified OpcValue object. (Inherited from OpcValue)
op_LessThanOrEqual(OpcNodeAttribute, OpcNodeAttribute)	Determines whether the first specified OpcNodeAttribute`1</a> object is less than or equal to the second <a href="#">OpcNodeAttribute`1 object.
op_LessThanOrEqual(OpcValue, OpcValue)	Determines whether the first specified OpcValue object is less than or equal to the second OpcValue object. (Inherited from OpcValue)

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