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

Properties

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

Methods

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

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 object is greater than the second specified 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 object is greater than or equal to the second specified 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 object is less than the second specified 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 object is less than or equal to the second 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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