OpcValue Class

Namespace: Opc.UaFx
Assemblies: Opc.UaFx.Advanced.dll

Stores a value optionally associated with status and timestamp information.

C#

```
public class OpcValue : IFormattable, IComparable, IComparable<OpcValue>,
IEquatable<OpcValue>
```

Inheritance Object › OpcValue

Derived

- OpcHistoryValue
- OpcValue`1

Implements IFormattable, IComparable, IComparable<OpcValue>, IEquatable<OpcValue>

Constructors

Name	Description
OpcValue(Object)	Initializes a new instance of the OpcValue class using the `value`.
OpcValue(Object, DateTime)	Initializes a new instance of the OpcValue class using the `value` and the `sourceTimestamp` of the `value`.
OpcValue(Object, DateTime, DateTime)	Initializes a new instance of the OpcValue class using the `value`, `sourceTimestamp` and `serverTimestamp` of the `value`.
OpcValue(Object, DateTime, DateTime, OpcStatus)	Initializes a new instance of the OpcValue class using the `value`, `sourceTimestamp`, `serverTimestamp` and `status` of the `value`.
OpcValue(Object, DateTime, DateTime, OpcStatusCode)	Initializes a new instance of the OpcValue class using the `value`, `sourceTimestamp`, `serverTimestamp` and `statusCode` of the `value`.
OpcValue(Object, DateTime, OpcStatus)	Initializes a new instance of the OpcValue class using the `value`, `sourceTimestamp` and `status` of the `value`.
OpcValue(Object, DateTime, OpcStatusCode)	Initializes a new instance of the OpcValue class using the `value`, `sourceTimestamp` and `statusCode` of the `value`.

Properties

Name	Description
DataType	Gets the type of value represented.
DataTypeId	Gets the node identifier of the DataType of the value represented.
Rank	Gets the rank of the value represented.
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.
ServerTimestamp	Gets or sets the timestamp at which the server recorded the value.

Name	Description
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.
SourceTimestamp	Gets or sets the timestamp of the source from that the value originates.
Status	Gets the status information which defines the servers ability to access/provide the value.
Value	Gets or sets the value represented.

Methods

Name	Description
As``1()	Retrieves the underlying Value as the type specified by `T`.
AsValue``1	Retrieves a new OpcValue´1 instance its Value is of the type specified by `T`.
CompareTo(Object)	Compares the current OpcValue with the `other`.
CompareTo(OpcValue)	Compares the current OpcValue with another OpcValue.
Equals(Object)	Determines whether the specified `other` is equal to this OpcValue.
Equals(OpcValue)	Determines whether the specified `other` is equal to this OpcValue.
GetHashCode	Retrieves a hash code for this OpcValue.
ToString	Converts the value of this instance to its equivalent string representation.
ToString(String, IFormatProvider)	Converts the value of this instance to its equivalent string representation using the specified format and culture-specific format information.

Operators

Name	Description
op_Equality(OpcValue, OpcValue)	Returns a value indicating whether two instance of OpcValue are equal.
op_Explicit(Ua.DataValue)	Converts a OpcValue to an DataValue object.
op_GreaterThan(OpcValue, OpcValue)	Determines whether the first specified OpcValue object is greater than the second specified OpcValue object.
op_GreaterThanOrEqual(OpcValue, OpcValue)	Determines whether the first specified OpcValue object is greater than or equal to the second specified OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a Boolean to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a Byte to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a Char to an OpcValue object.
op_Implicit(DataValue)~Opc.UaFx.OpcValue)	Converts a DataValue to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a Decimal to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a Double to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a UInt16 to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a Int32 to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a UInt64 to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able Boolean to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able Byte to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able Char to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able Decimal to an OpcValue object.

Name	Description
op_Implicit(Nullable)	Converts a null-able Double to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able UInt16 to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able Int32 to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able UInt64 to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able SByte to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able Single to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able UInt16 to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able UInt32 to an OpcValue object.
op_Implicit(Nullable)	Converts a null-able UInt64 to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a SByte to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a Single to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a String to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a UInt16 to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a UInt32 to an OpcValue object.
op_Implicit(UaFx.OpcValue)	Converts a UInt64 to an OpcValue object.
op_Implicit(Variant)~Opc.UaFx.OpcValue)	Converts a Variant to an OpcValue object.
op_Inequality(OpcValue, OpcValue)	Returns a value indicating whether two instances of OpcValue are not equal.
op_LessThan(OpcValue, OpcValue)	Determines whether the first specified OpcValue object is less than the second specified OpcValue object.
op_LessThanOrEqual(OpcValue, OpcValue)	Determines whether the first specified OpcValue object is less than or equal to the second OpcValue object.

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