

# OpcEventNode Class

**Namespace:** Opc.UaFx

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

Defines a generic base class for all general characteristics of an OPC UA Event.

## C#

```
[OpcEventType(typeof(OpcEvent))]
public class OpcEventNode : OpcObjectNode, IOpcNode, IOpcNodeInfo
```

**Inheritance** Object > OpcNode > OpcInstanceNode > OpcObjectNode > OpcEventNode

## Derived

- OpcConditionNode

**Attributes** OpcEventTypeAttribute

**Implements** IOpcNode, IOpcNodeInfo

## Constructors

Name	Description
OpcEventNode(IOpcNode, OpcName)	Initializes a new instance of the <a href="#">OpcEventNode</a> class accessible by the <code>name</code> specified as a child node of the <code>parent</code> node given.
OpcEventNode(IOpcNode, OpcName, OpcNodeld)	Initializes a new instance of the <a href="#">OpcEventNode</a> class accessible by the <code>name</code> and <code>id</code> specified as a child node of the <code>parent</code> node given.
OpcEventNode(OpcName)	Initializes a new instance of the <a href="#">OpcEventNode</a> class accessible by the <code>name</code> specified.
OpcEventNode(OpcName, OpcNodeld)	Initializes a new instance of the <a href="#">OpcEventNode</a> class accessible by the <code>name</code> and <code>id</code> specified.

## Events

Name	Description
AfterApplyChanges	Occurs after one or more changes on the node has been notified. (Inherited from <a href="#">OpcNode</a> )
BeforeApplyChanges	Occurs before one or more changes on the node are notified. (Inherited from <a href="#">OpcNode</a> )

## Properties

Name	Description
Category	Gets the <a href="#">NodeCategoryOpcAttribute</a> which identifies the kind of node and is therefore used to classify the node regarding its use and purpose. (Inherited from <a href="#">OpcNode</a> )
DefaultReferenceTypeId	Gets the default identifier which identifies the type that defines the underlying node reference within this <a href="#">OpcInstanceNode</a> is referenced by its parent node. (Inherited from <a href="#">OpcInstanceNode</a> )
DefaultReferenceTypeId	Gets the default identifier which identifies the type that defines the underlying node reference within this <a href="#">OpcInstanceNode</a> is referenced by its parent node. (Inherited from <a href="#">OpcObjectNode</a> )
DefaultTypeDefinitionId	Gets the default identifier which identifies the node that defines the underlying node type from that this <a href="#">OpcInstanceNode</a> has been created.
DefaultTypeDefinitionId	Gets the default identifier which identifies the node that defines the underlying node type from that this <a href="#">OpcInstanceNode</a> has been created. (Inherited from <a href="#">OpcInstanceNode</a> )
DefaultTypeDefinitionId	Gets the default identifier which identifies the node that defines the underlying node type from that this <a href="#">OpcInstanceNode</a> has been created. (Inherited from <a href="#">OpcObjectNode</a> )
Description	Gets or sets the value of the optional <a href="#">DescriptionOpcAttribute</a> which shall explain the meaning of the node. (Inherited from <a href="#">OpcNode</a> )
Descriptions	Gets the <a href="#">OpcNodeGlobalization</a> instance used to control the localization and other globalization related tasks for the <a href="#">Description</a> attribute of the current node. (Inherited from <a href="#">OpcNode</a> )
DisplayName	Gets or sets the value of the <a href="#">DisplayNameOpcAttribute</a> which defines the localizable name of the node. (Inherited from <a href="#">OpcNode</a> )
DisplayNames	Gets the <a href="#">OpcNodeGlobalization</a> instance used to control the localization and other globalization related tasks for the <a href="#">DisplayName</a> attribute of the current node. (Inherited from <a href="#">OpcNode</a> )
EventId	Gets or sets a value generated by the server to uniquely identify a particular event notification.
EventIdNode	Gets the <a href="#">OpcPropertyNameNode</a> '1 of the <a href="#">EventId</a> property.
EventTypeId	Gets or sets the node identifier which describes the specific type of event.
EventTypeIdNode	Gets the <a href="#">OpcNodIdPropertyNode</a> of the <a href="#">EventTypeId</a> property.
HasPendingChanges	Gets a value indicating whether there exists any pending change on the node. (Inherited from <a href="#">OpcNode</a> )
Id	Gets the value of the <a href="#">NodeIdOpcAttribute</a> which unambiguously identifies the node. (Inherited from <a href="#">OpcNode</a> )
Message	Gets or sets a value which defines a human-readable and localizable text description of the event.
MessageNode	Gets the <a href="#">OpcTextPropertyNode</a> of the <a href="#">Message</a> property.
ModellingRuleId	Gets or sets the identifier which defines how the <a href="#">OpcInstanceNode</a> is used for instantiation. (Inherited from <a href="#">OpcInstanceNode</a> )

Name	Description
Name	Gets or sets the value of the <a href="#">BrowseNameOpcAttribute</a> which defines the non-localizable human-readable name used when browsing the address space. (Inherited from <a href="#">OpcNode</a> )
Namespace	(Inherited from <a href="#">OpcNode</a> )
Parent	Gets the parent node of the node. (Inherited from <a href="#">OpcNode</a> )
Parent	Gets the parent node of the node. (Inherited from <a href="#">OpcInstanceNode</a> )
PendingChanges	Gets a value indicating the most recent changes performed on the node since their last notification. (Inherited from <a href="#">OpcNode</a> )
QueryEventsCallback	Gets or sets a callback used to query any event information which belongs to the node. (Inherited from <a href="#">OpcNode</a> )
ReadDescriptionCallback	(Inherited from <a href="#">OpcNode</a> )
ReadDisplayNameCallback	(Inherited from <a href="#">OpcNode</a> )
ReadUserWriteAccessCallback	(Inherited from <a href="#">OpcNode</a> )
ReadWriteAccessCallback	(Inherited from <a href="#">OpcNode</a> )
ReceiveTime	Gets or sets the time the OPC UA server received the event from the underlying device of another server.
ReceiveTimeNode	Gets the <a href="#">OpcPropertyName`1</a> of the <a href="#">ReceiveTime</a> property.
ReferenceType	Gets a value which defines a pre-defined used <a href="#">ReferenceTypeId</a> as one of the members defined by the <a href="#">OpcReferenceType</a> enumeration to simplify querying standard reference types. (Inherited from <a href="#">OpcInstanceNode</a> )
ReferenceTypeId	Gets or sets the identifier which identifies the node that defines the semantic of the reference between a source and a target node and generally reflects an operation between the two, such as "A contains B". (Inherited from <a href="#">OpcInstanceNode</a> )
Severity	Gets or sets an indication of the urgency of the event.
SeverityNode	Gets the <a href="#">OpcPropertyName`1</a> of the <a href="#">Severity</a> property.
SourceName	Gets or sets a description of the source of the event.
SourceNameNode	Gets the <a href="#">OpcPropertyName`1</a> of the <a href="#">SourceName</a> property.
SourceNodeld	Gets or sets the node identifier which identifies the node that the event originated from.
SourceNodeldNode	Gets the <a href="#">OpcNodeldPropertyNode</a> of the <a href="#">SourceNodeld</a> property.
SymbolicName	(Inherited from <a href="#">OpcNode</a> )
Tag	Gets or sets the object that contains additional user data about the node. (Inherited from <a href="#">OpcNode</a> )
Time	Gets or sets the time the event occurred.
TimeNode	Gets the <a href="#">OpcPropertyName`1</a> of the <a href="#">Time</a> property.
TypeDefinitionId	Gets or sets the identifier which identifies the node that defines the underlying node type from that this <a href="#">OpcInstanceNode</a> has been created. (Inherited from <a href="#">OpcInstanceNode</a> )
UserWriteAccess	Gets or sets the value of the optional <a href="#">UserWriteAccessOpcAttribute</a> which exposes the possibilities of a client to write the attributes of the node taking user access rights into account. (Inherited from <a href="#">OpcNode</a> )
WriteAccess	Gets or sets the value of the optional <a href="#">WriteAccessOpcAttribute</a> which exposes the possibilities of a client to write the attributes of the node. (Inherited from <a href="#">OpcNode</a> )

Name	Description
WriteDescriptionCallback	(Inherited from <a href="#">OpcNode</a> )
WriteDisplayNameCallback	(Inherited from <a href="#">OpcNode</a> )
WriteUserWriteAccessCallback	(Inherited from <a href="#">OpcNode</a> )
WriteWriteAccessCallback	(Inherited from <a href="#">OpcNode</a> )

## Methods

Name	Description
AddChild(OpcContext, OpcInstanceNode)	(Inherited from <a href="#">OpcInstanceNode</a> )
AddNotifier(OpcContext, IOpcNode)	(Inherited from <a href="#">OpcNode</a> )
AddNotifier(OpcContext, IOpcNode)	(Inherited from <a href="#">OpcObjectNode</a> )
ApplyChanges(OpcContext)	Notifies about changes performed on the node since the last notification and resets the pending changes to <a href="#">None</a> . (Inherited from <a href="#">OpcNode</a> )
ApplyChanges(OpcContext, Boolean)	Notifies about changes performed on the node (and optionally on its children) since the last notification and resets the pending changes to <a href="#">None</a> . (Inherited from <a href="#">OpcNode</a> )
AttributeValue(OpcAttribute)	Retrieves the value of the <b>attribute</b> specified. (Inherited from <a href="#">OpcNode</a> )
AttributeValue`1(OpcAttribute)	Retrieves the value of the <b>attribute</b> specified. (Inherited from <a href="#">OpcNode</a> )
Child(OpcContext, OpcName)	Retrieves the child node its <b>Name</b> property matches exactly the <b>name</b> specified. (Inherited from <a href="#">OpcNode</a> )
Children(OpcContext)	Retrieves a sequence of all nodes organized as children of this node. (Inherited from <a href="#">OpcNode</a> )
CreateEvent(OpcContext)	Creates a new instance of the <a href="#">OpcEvent</a> class which represents a snapshot of this <a href="#">OpcEventNode</a> .
CreateEventCore(OpcContext, OpcEventNodeSnapshot)	Creates a new instance of the <a href="#">OpcEvent</a> class representing the specified <b>snapshot</b> of this <a href="#">OpcEventNode</a> .
InitializeDefaults	Initializes the default values used by the <a href="#">OpcEventNode</a> .
InitializeDefaults	Initializes the default values used by the node implementation represented / required. (Inherited from <a href="#">OpcNode</a> )
InitializeDefaults	Initializes the default values used by the <a href="#">OpcInstanceNode</a> . (Inherited from <a href="#">OpcInstanceNode</a> )
IsChangePending(OpcNodeChanges)	(Inherited from <a href="#">OpcNode</a> )

Name	Description
<a href="#">OnAfterApplyChanges(OpcNodeChangesEventArgs)</a>	Raises the <a href="#">AfterApplyChanges</a> event using the event data specified. (Inherited from <a href="#">OpcNode</a> )
<a href="#">OnBeforeApplyChanges(OpcNodeChangesEventArgs)</a>	Raises the <a href="#">BeforeApplyChanges</a> event using the event data specified. (Inherited from <a href="#">OpcNode</a> )
<a href="#">QueryEventsCore(OpcNodeContext, OpcEventCollection)</a>	(Inherited from <a href="#">OpcNode</a> )
<a href="#">ReadAttributeValueCore`1(OpcReadAttributeValueContext, OpcAttributeValue)</a>	(Inherited from <a href="#">OpcNode</a> )
<a href="#">RemoveChild(OpcContext, OpcInstanceNode)</a>	(Inherited from <a href="#">OpcInstanceNode</a> )
<a href="#">RemoveNotifier(OpcContext, IOpcNode)</a>	(Inherited from <a href="#">OpcNode</a> )
<a href="#">RemoveNotifier(OpcContext, IOpcNode)</a>	(Inherited from <a href="#">OpcInstanceNode</a> )
<a href="#">RemoveNotifier(OpcContext, IOpcNode)</a>	(Inherited from <a href="#">OpcObjectNode</a> )
<a href="#">ReportEvent(OpcContext)</a>	Produces an event using the data represented by this <a href="#">OpcEventNode</a> .
<a href="#">ReportEvent(OpcContext, OpcEvent)</a>	(Inherited from <a href="#">OpcNode</a> )
<a href="#">ReportEventFrom(OpcContext, IOpcNode)</a>	Produces an event using the data represented by this <a href="#">OpcEventNode</a> using the <a href="#">source</a> as initiator of the event reported.
<a href="#">UpdateChanges(OpcContext, OpcNodeChanges)</a>	Notifies about the <a href="#">changes</a> on behalf of the node and removes pending changes which intersect with the <a href="#">changes</a> specified. (Inherited from <a href="#">OpcNode</a> )
<a href="#">UpdateChanges(OpcContext, OpcNodeChanges, Boolean)</a>	Notifies about the <a href="#">changes</a> on behalf of the node (and optionally on its children) and removes pending changes which intersect with the <a href="#">changes</a> specified. (Inherited from <a href="#">OpcNode</a> )
<a href="#">WriteAttributeValueCore`1(OpcWriteAttributeValueContext, OpcAttributeValue)</a>	(Inherited from <a href="#">OpcNode</a> )



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