

OpcConditionNode Class

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll

Defines all general characteristics of a condition.

C#

```
[OpcEventType(typeof(OpcCondition))]  
public class OpcConditionNode : OpcEventNode, IOpcNode, IOpcNodeInfo
```

Inheritance [Object](#) > [OpcNode](#) > [OpcInstanceNode](#) > [OpcObjectNode](#) > [OpcEventNode](#) > [OpcConditionNode](#)

Derived

- [OpcAcknowledgeableConditionNode](#)
- [OpcDialogConditionNode](#)

Attributes [OpcEventTypeAttribute](#)

Implements [IOpcNode](#), [IOpcNodeInfo](#)

Remarks

Events of this type cause at least an event notification in case one of the following properties will change: [Quality](#), [Severity](#) and [Comment](#).

Constructors

Name	Description
OpcConditionNode(IOpcNode, OpcName)	Initializes a new instance of the OpcConditionNode class accessible by the name specified as a child node of the parent node given.
OpcConditionNode(IOpcNode, OpcName, OpcNodeId)	Initializes a new instance of the OpcConditionNode class accessible by the name and id specified as a child node of the parent node given.
OpcConditionNode(OpcName)	Initializes a new instance of the OpcConditionNode class accessible by the name specified.
OpcConditionNode(OpcName, OpcNodeId)	Initializes a new instance of the OpcConditionNode class accessible by the name and id specified.

Events

Name	Description
AfterApplyChanges	Occurs after one or more changes on the node has been notified. (Inherited from OpcNode)

Name	Description
BeforeApplyChanges	Occurs before one or more changes on the node are notified. (Inherited from OpcNode)

Properties

Name	Description
AddCommentCallback	Gets or sets a callback used to add a comment to the condition node.
AddCommentNode	Gets the OpcAddCommentMethodNode used to handle 'AddComment' method calls to add a comment to the condition node.
AutoReportChanges	Gets or sets a value indicating whether the OpcConditionNode will automatically report an event when a change method call completes.
BranchId	Gets or sets an identifier which identifies the branch to that the event does belong.
BranchIdNode	Gets the OpcNodeIdPropertyNode of the BranchId property.
Category	Gets the NodeCategoryOpcAttribute which identifies the kind of node and is therefore used to classify the node regarding its use and purpose. (Inherited from OpcNode)
ClientUserId	Gets or sets an identifier that is related to the Comment and contains the identity of the user who inserted the most recent Comment .
ClientUserIdNode	Gets the OpcPropertyNode`1 of the ClientUserId property.
Comment	Gets or sets the last comment provided for a certain state (condition branch).
CommentNode	Gets the OpcTextConditionVariableNode of the Comment property.
ConditionClassId	Gets or sets a value which specifies in which domain this condition is used. It is the OpcNodeId of the corresponding condition class type.
ConditionClassIdNode	Gets the OpcNodeIdPropertyNode of the ConditionClassId property.
ConditionClassName	Gets or sets a value that matches the display name of the condition class type.
ConditionClassNameNode	Gets the OpcTextPropertyNode of the ConditionClassName property.
ConditionName	Gets or sets a value which identifies the condition instance that the event originated from.
ConditionNameNode	Gets the OpcPropertyNode`1 of the ConditionName property.
DefaultReferenceTypeId	Gets the default identifier which identifies the type that defines the underlying node reference within this OpcInstanceNode is referenced by its parent node. (Inherited from OpcInstanceNode)
DefaultReferenceTypeId	Gets the default identifier which identifies the type that defines the underlying node reference within this OpcInstanceNode is referenced by its parent node. (Inherited from OpcObjectNode)
DefaultTypeDefinitionId	Gets the default identifier which identifies the node that defines the underlying node type from that this OpcInstanceNode has been created.
DefaultTypeDefinitionId	Gets the default identifier which identifies the node that defines the underlying node type from that this OpcInstanceNode has been created. (Inherited from OpcInstanceNode)
DefaultTypeDefinitionId	Gets the default identifier which identifies the node that defines the underlying node type from that this OpcInstanceNode has been created. (Inherited from OpcObjectNode)
DefaultTypeDefinitionId	Gets the default identifier which identifies the node that defines the underlying node type from that this OpcInstanceNode has been created. (Inherited from OpcEventNode)

Name	Description
Description	Gets or sets the value of the optional DescriptionOpcAttribute which shall explain the meaning of the node. (Inherited from OpcNode)
Descriptions	Gets the OpcNodeGlobalization instance used to control the localization and other globalization related tasks for the Description attribute of the current node. (Inherited from OpcNode)
DisableCallback	Gets or sets a callback used to disable the condition node.
DisableNode	Gets the OpcActionMethodNode used to handle 'Disable' method calls to disable the condition.
DisplayName	Gets or sets the value of the DisplayNameOpcAttribute which defines the localizable name of the node. (Inherited from OpcNode)
DisplayNames	Gets the OpcNodeGlobalization instance used to control the localization and other globalization related tasks for the DisplayName attribute of the current node. (Inherited from OpcNode)
EnableCallback	Gets or sets a callback used to enable the condition node.
EnableNode	Gets the OpcActionMethodNode used to handle 'Enable' method calls to enable the condition.
EventId	Gets or sets a value generated by the server to uniquely identify a particular event notification. (Inherited from OpcEventNode)
EventIdNode	Gets the OpcPropertyNode`1 of the EventId property. (Inherited from OpcEventNode)
EventTypeId	Gets or sets the node identifier which describes the specific type of event. (Inherited from OpcEventNode)
EventTypeIdNode	Gets the OpcNodeIdPropertyNode of the EventTypeId property. (Inherited from OpcEventNode)
HasPendingChanges	Gets a value indicating whether there exists any pending change on the node. (Inherited from OpcNode)
Id	Gets the value of the NodeIdOpcAttribute which unambiguously identifies the node. (Inherited from OpcNode)
IsEnabled	Gets a value indicating whether the condition is enabled.
IsEnabledNode	Gets the OpcTwoStateVariableNode of the IsEnabled property.
IsRetained	Gets or sets a value indicating whether the condition is in a state that is interesting for a client wishing to synchronize its state with the server's state.
IsRetainedNode	Gets the OpcPropertyNode`1 of the IsRetained property.
LastSeverity	Gets or sets a value which provides the previous severity of the condition branch.
LastSeverityNode	Gets the OpcConditionVariableNode`1 of the LastSeverity property.
Message	Gets or sets a value which defines a human-readable and localizable text description of the event. (Inherited from OpcEventNode)
MessageNode	Gets the OpcTextPropertyNode of the Message property. (Inherited from OpcEventNode)
ModellingRuleId	Gets or sets the identifier which defines how the OpcInstanceNode is used for instantiation. (Inherited from OpcInstanceNode)

Name	Description
Name	Gets or sets the value of the BrowseNameOpcAttribute which defines the non-localizable human-readable name used when browsing the address space. (Inherited from OpcNode)
Namespace	(Inherited from OpcNode)
Parent	Gets the parent node of the node. (Inherited from OpcNode)
Parent	Gets the parent node of the node. (Inherited from OpcInstanceNode)
PendingChanges	Gets a value indicating the most recent changes performed on the node since their last notification. (Inherited from OpcNode)
Quality	Gets or sets a value which reveals the status of process values or other resources that this condition is based upon.
QualityNode	Gets the OpcStatusConditionVariableNode of the Quality property.
QueryEventsCallback	Gets or sets a callback used to query any event information which belongs to the node. (Inherited from OpcNode)
ReadDescriptionCallback	(Inherited from OpcNode)
ReadDisplayNameCallback	(Inherited from OpcNode)
ReadUserWriteAccessCallback	(Inherited from OpcNode)
ReadWriteAccessCallback	(Inherited from OpcNode)
ReceiveTime	Gets or sets the time the OPC UA server received the event from the underlying device of another server. (Inherited from OpcEventNode)
ReceiveTimeNode	Gets the OpcPropertyNode`1 of the ReceiveTime property. (Inherited from OpcEventNode)
ReferenceType	Gets a value which defines a pre-defined used ReferenceTypeId as one of the members defined by the OpcReferenceType enumeration to simplify querying standard reference types. (Inherited from OpcInstanceNode)
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 OpcInstanceNode)
Severity	Gets or sets an indication of the urgency of the event. (Inherited from OpcEventNode)
SeverityNode	Gets the OpcPropertyNode`1 of the Severity property. (Inherited from OpcEventNode)
SourceName	Gets or sets a description of the source of the event. (Inherited from OpcEventNode)
SourceNameNode	Gets the OpcPropertyNode`1 of the SourceName property. (Inherited from OpcEventNode)
SourceNodeId	Gets or sets the node identifier which identifies the node that the event originated from. (Inherited from OpcEventNode)
SourceNodeIdNode	Gets the OpcNodeIdPropertyNode of the SourceNodeId property. (Inherited from OpcEventNode)
SymbolicName	(Inherited from OpcNode)
Tag	Gets or sets the object that contains additional user data about the node. (Inherited from OpcNode)

Name	Description
Time	Gets or sets the time the event occurred. (Inherited from OpcEventNode)
TimeNode	Gets the OpcPropertyNode`1 of the Time property. (Inherited from OpcEventNode)
TypeDefinitionId	Gets or sets the identifier which identifies the node that defines the underlying node type from that this OpcInstanceNode has been created. (Inherited from OpcInstanceNode)
UserWriteAccess	Gets or sets the value of the optional UserWriteAccessOpcAttribute which exposes the possibilities of a client to write the attributes of the node taking user access rights into account. (Inherited from OpcNode)
WriteAccess	Gets or sets the value of the optional WriteAccessOpcAttribute which exposes the possibilities of a client to write the attributes of the node. (Inherited from OpcNode)
WriteDescriptionCallback	(Inherited from OpcNode)
WriteDisplayNameCallback	(Inherited from OpcNode)
WriteUserWriteAccessCallback	(Inherited from OpcNode)
WriteWriteAccessCallback	(Inherited from OpcNode)

Methods

Name	Description
AddChild (OpcContext , OpcInstanceNode)	(Inherited from OpcInstanceNode)
AddComment (OpcContext , Byte , OpcText)	Applies a comment to the state reported by an event notification which can be identified by the eventId using the specified context .
AddComment (OpcContext , OpcText)	Applies a comment to the state reported by an event notification which can be identified by the EventId using the specified context .
AddCommentCore (OpcNodeContext , Byte , OpcText)	Applies the comment to the state of the condition node.
AddNotifier (OpcContext , IOpcNode)	(Inherited from OpcNode)
AddNotifier (OpcContext , IOpcNode)	(Inherited from OpcObjectNode)
ApplyChanges (OpcContext)	Notifies about changes performed on the node since the last notification and resets the pending changes to None . (Inherited from OpcNode)
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 None . (Inherited from OpcNode)
AttributeValue (OpcAttribute)	Retrieves the value of the attribute specified. (Inherited from OpcNode)

Name	Description
AttributeValue`1(OpcAttribute)	Retrieves the value of the attribute specified. (Inherited from OpcNode)
Child(OpcContext, OpcName)	Retrieves the child node its Name property matches exactly the name specified. (Inherited from OpcNode)
Children(OpcContext)	Retrieves a sequence of all nodes organized as children of this node. (Inherited from OpcNode)
CreateBranch(OpcContext)	Creates a new instance of the OpcConditionNode class which can be used to maintain branched event information.
CreateBranch(OpcContext, OpcNodeId)	Creates a new instance of the OpcConditionNode class using the branchId specified to maintain branched event information.
CreateBranchCore	Creates a new instance of the OpcConditionNode using the same Id and Name as this node.
CreateEvent(OpcContext)	Creates a new instance of the OpcEvent class which represents a snapshot of this OpcEventNode . (Inherited from OpcEventNode)
CreateEventCore(OpcContext, OpcEventNodeSnapshot)	Creates a new instance of the OpcEvent class representing the specified snapshot of this OpcEventNode . (Inherited from OpcEventNode)
Disable(OpcContext)	Changes the condition state to 'Disabled' using the specified context .
DisableCore(OpcNodeContext)	Disables the condition node.
Enable(OpcContext)	Changes the condition state to 'Enabled' using the specified context .
EnableCore(OpcNodeContext)	Enables the condition node.
InitializeDefaults	Initializes the default values used by the OpcConditionNode .
InitializeDefaults	Initializes the default values used by the node implementation represented / required. (Inherited from OpcNode)
InitializeDefaults	Initializes the default values used by the OpcInstanceNode . (Inherited from OpcInstanceNode)
InitializeDefaults	Initializes the default values used by the OpcEventNode . (Inherited from OpcEventNode)
IsChangePending(OpcNodeChanges)	(Inherited from OpcNode)
OnAfterApplyChanges(OpcNodeChangesEventArgs)	Raises the AfterApplyChanges event using the event data specified. (Inherited from OpcNode)

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

Table of Contents

Remarks	1
Constructors	1
Events	1
Properties	2
Methods	5