

# OpcNonExclusiveLimitAlarm Class

**Namespace:** Opc.UaFx

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

Represents a snapshot of a 'Opc.UaFx.OpcNonExclusiveLimitAlarmNode'.

**C#**

```
public class OpcNonExclusiveLimitAlarm : OpcLimitAlarm
```

**Inheritance** [Object](#) > [OpcEvent](#) > [OpcCondition](#) > [OpcAcknowledgeableCondition](#) > [OpcAlarmCondition](#) > [OpcLimitAlarm](#) > [OpcNonExclusiveLimitAlarm](#)

## Derived

- [OpcNonExclusiveDeviationAlarm](#)
- [OpcNonExclusiveLevelAlarm](#)
- [OpcNonExclusiveRateOfChangeAlarm](#)

## Constructors

| Name                                                                 | Description                                                                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">OpcNonExclusiveLimitAlarm(IopcReadOnlyNodeDataStore)</a> | Initializes a new instance of the <a href="#">OpcNonExclusiveLimitAlarm</a> class using the <a href="#">dataStore</a> specified. |

## Events

| Name                        | Description                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">TypeResolve</a> | Occurs when the resolution of an event type fails. Use this event to manually provide the <a href="#">Type</a> to use for a specific event type definition identifier.<br>(Inherited from <a href="#">OpcEvent</a> ) |

## Properties

| Name                               | Description                                                                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">BranchId</a>           | Gets an identifier which identifies the branch to that the event does belong.<br>(Inherited from <a href="#">OpcCondition</a> )                                                                                  |
| <a href="#">ClientUserId</a>       | Gets an identifier that is related to the <a href="#">Comment</a> and contains the identity of the user who inserted the most recent <a href="#">Comment</a> .<br>(Inherited from <a href="#">OpcCondition</a> ) |
| <a href="#">Comment</a>            | Gets the last comment provided for a certain state (condition branch).<br>(Inherited from <a href="#">OpcCondition</a> )                                                                                         |
| <a href="#">ConditionClassId</a>   | Gets a value which specifies in which domain this condition is used. It is the <a href="#">OpcNodeId</a> of the corresponding condition class type.<br>(Inherited from <a href="#">OpcCondition</a> )            |
| <a href="#">ConditionClassName</a> | Gets a value that matches the display name of the condition class type.<br>(Inherited from <a href="#">OpcCondition</a> )                                                                                        |

| Name                  | Description                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ConditionName         | Gets a value which identifies the condition instance that the event originated from.<br>(Inherited from <a href="#">OpcCondition</a> )                                                                            |
| DataStore             | Gets the <a href="#">IOpcReadOnlyNodeDataStore</a> which contains the data of the <a href="#">OpcEvent</a> instance.<br>(Inherited from <a href="#">OpcEvent</a> )                                                |
| EventId               | Gets a value generated by the server to uniquely identify a particular event notification.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                          |
| EventType             | Gets the type of event.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                                                                             |
| EventTypeId           | Gets node identifier which describes the specific type of event.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                                    |
| HighHighLimit         | Gets a value which indicates the high high limit of a value to test for the alarm condition.<br>(Inherited from <a href="#">OpcLimitAlarm</a> )                                                                   |
| HighLimit             | Gets a value which indicates the high limit of a value to test for the alarm condition.<br>(Inherited from <a href="#">OpcLimitAlarm</a> )                                                                        |
| InputNodeId           | Gets an identifier which represents the node identifier of the variable the value of which is used as primary input in the calculation of the alarm state.<br>(Inherited from <a href="#">OpcAlarmCondition</a> ) |
| IsAcked               | Gets a value indicating whether the condition requires acknowledgement for the reported condition state.<br>(Inherited from <a href="#">OpcAcknowledgeableCondition</a> )                                         |
| IsActive              | Gets a value indicating whether the alarm situation represented currently exists.<br>(Inherited from <a href="#">OpcAlarmCondition</a> )                                                                          |
| IsConfirmed           | Gets a value indicating whether the condition requires confirmation for the reported condition state.<br>(Inherited from <a href="#">OpcAcknowledgeableCondition</a> )                                            |
| IsEnabled             | Gets a value indicating whether the condition is enabled.<br>(Inherited from <a href="#">OpcCondition</a> )                                                                                                       |
| IsHigh                | Gets a value indicating whether the alarm applies to the <a href="#">HighLimit</a> in a non-exclusive manner.                                                                                                     |
| IsHighHigh            | Gets a value indicating whether the alarm applies to the 'Opc.UaFx.OpcLimitAlarmNode.HighHighLimit' in a non-exclusive manner.                                                                                    |
| IsLow                 | Gets a value indicating whether the alarm applies to the <a href="#">LowLimit</a> in a non-exclusive manner.                                                                                                      |
| IsLowLow              | Gets a value indicating whether the alarm applies to the <a href="#">LowLowLimit</a> in a non-exclusive manner.                                                                                                   |
| IsRetained            | Gets 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.<br>(Inherited from <a href="#">OpcCondition</a> )          |
| IsSuppressed          | Gets a value indicating whether the alarm is suppressed due to system specific reasons.<br>(Inherited from <a href="#">OpcAlarmCondition</a> )                                                                    |
| IsSuppressedOrShelved | Gets a value indicating whether the alarm is either in the <a href="#">IsSuppressed</a> or shelved.<br>(Inherited from <a href="#">OpcAlarmCondition</a> )                                                        |
| LastSeverity          | Gets a value which provides the previous severity of the condition branch.<br>(Inherited from <a href="#">OpcCondition</a> )                                                                                      |

| Name           | Description                                                                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LowLimit       | Gets a value which indicates the low limit of a value to test for the alarm condition.<br>(Inherited from <a href="#">OpcLimitAlarm</a> )                       |
| LowLowLimit    | Gets a value which indicates the low low limit of a value to test for the alarm condition.<br>(Inherited from <a href="#">OpcLimitAlarm</a> )                   |
| MaxTimeShelved | Gets the maximum time that the alarm condition may be shelved.<br>(Inherited from <a href="#">OpcAlarmCondition</a> )                                           |
| Message        | Gets a value which defines a human-readable and localizable text description of the event.<br>(Inherited from <a href="#">OpcEvent</a> )                        |
| NodeId         | Gets the identifier of the node from which this event data snapshot has been created.<br>(Inherited from <a href="#">OpcEvent</a> )                             |
| Quality        | Gets a value which reveals the status of process values or other resources that this condition is based upon.<br>(Inherited from <a href="#">OpcCondition</a> ) |
| ReceiveTime    | Gets the time the OPC UA server received the event from the underlying device of another server.<br>(Inherited from <a href="#">OpcEvent</a> )                  |
| Severity       | Gets an indication of the urgency of the event.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                   |
| SourceName     | Gets a description of the source of the event.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                    |
| SourceNodeId   | Gets the node identifier which identifies the node that the event originated from.<br>(Inherited from <a href="#">OpcEvent</a> )                                |
| Time           | Gets the time the event occurred.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                 |

## Methods

| Name                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">RegisterType`1</a>             | Registers the type defined by <a href="#">T</a> as the <a href="#">OpcEvent</a> type to create in case there an event instance is to be created for the type definition identified by the <a href="#">OpcEventTypeAttribute</a> defined on the <a href="#">T</a> specified.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                                          |
| <a href="#">RegisterType`1(OpcNodeId)</a>  | Registers the type defined by <a href="#">T</a> as the <a href="#">OpcEvent</a> type to create in case there an event instance is to be created for the type definition identified by the <a href="#">eventTypeId</a> specified.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                                                                                     |
| <a href="#">RegisterTypes(Assembly)</a>    | Registers all non-abstract types in the <a href="#">assembly</a> specified which defines the <a href="#">OpcEventTypeAttribute</a> and inherit from <a href="#">OpcEvent</a> .<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                                                                                                                                       |
| <a href="#">RegisterTypes(IEnumerable)</a> | Registers the <a href="#">eventTypes</a> specified as the <a href="#">OpcEvent</a> type to create in case there an event instance is to be created for one of the type definitions identified by the <a href="#">OpcEventTypeAttribute</a> used on one of the <a href="#">eventTypes</a> specified.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                  |
| <a href="#">RegisterTypes(Type, Type)</a>  | Registers the <a href="#">eventTypes</a> and the further specified <a href="#">eventTypes</a> as the <a href="#">OpcEvent</a> types to create in case there an event instance is to be created for one of the type definitions identified by the <a href="#">OpcEventTypeAttribute</a> used on the <a href="#">eventTypes</a> or on one of the <a href="#">eventTypes</a> specified.<br>(Inherited from <a href="#">OpcEvent</a> ) |

| Name                         | Description                                                                                                                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UnregisterType`1             | Unregisters the previously registered (see <a href="#">RegisterType`1</a> ) type defined by <b>T</b> as the <a href="#">OpcEvent</a> type to not longer create for the type definition identified by the <a href="#">OpcEventTypeAttribute</a> defined on the <b>T</b> specified.<br>(Inherited from <a href="#">OpcEvent</a> ) |
| UnregisterType`1(OpcNodeId)  | Unregisters the previously registered (see <a href="#">RegisterType`1(OpcNodeId)</a> ) type defined by <b>T</b> as the <a href="#">OpcEvent</a> type to not longer create for the type definition identified by the <b>eventId</b> specified.<br>(Inherited from <a href="#">OpcEvent</a> )                                     |
| UnregisterTypes(Assembly)    | Unregisters all previously registered types (see <a href="#">RegisterTypes(Assembly)</a> ) in the <b>assembly</b> specified.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                                                                                      |
| UnregisterTypes(IEnumerable) | Unregisters the previously registered (see <a href="#">RegisterTypes(IEnumerable)</a> ) <b>eventTypes</b> specified.<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                                                                                              |
| UnregisterTypes(Type, Type)  | Unregisters the previously registered <b>eventType</b> and the further specified <b>eventTypes</b> (see <a href="#">RegisterTypes(Type, Type)</a> ).<br>(Inherited from <a href="#">OpcEvent</a> )                                                                                                                              |

# Table of Contents

|                     |   |
|---------------------|---|
| <b>Constructors</b> | 1 |
| <b>Events</b>       | 1 |
| <b>Properties</b>   | 1 |
| <b>Methods</b>      | 3 |

