

# OpcEvent Class

**Namespace:** Opc.UaFx

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

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

**C#**

```
public class OpcEvent
```

**Inheritance** [Object](#) > OpcEvent

**Derived**

- [OpcCondition](#)

## Constructors

| Name                                             | Description                                                                                                     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <a href="#">OpcEvent(IReadOnlyNodeDataStore)</a> | Initializes a new instance of the <a href="#">OpcEvent</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. |

## Properties

| Name                         | Description                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <a href="#">DataStore</a>    | Gets the <a href="#">IReadOnlyNodeDataStore</a> which contains the data of the <a href="#">OpcEvent</a> instance. |
| <a href="#">EventId</a>      | Gets a value generated by the server to uniquely identify a particular event notification.                        |
| <a href="#">EventType</a>    | Gets the type of event.                                                                                           |
| <a href="#">EventTypeId</a>  | Gets node identifier which describes the specific type of event.                                                  |
| <a href="#">Message</a>      | Gets a value which defines a human-readable and localizable text description of the event.                        |
| <a href="#">NodeId</a>       | Gets the identifier of the node from which this event data snapshot has been created.                             |
| <a href="#">ReceiveTime</a>  | Gets the time the OPC UA server received the event from the underlying device of another server.                  |
| <a href="#">Severity</a>     | Gets an indication of the urgency of the event.                                                                   |
| <a href="#">SourceName</a>   | Gets a description of the source of the event.                                                                    |
| <a href="#">SourceNodeId</a> | Gets the node identifier which identifies the node that the event originated from.                                |
| <a href="#">Time</a>         | Gets the time the event occurred.                                                                                 |

# Methods

| Name                         | Description                                                                                                                                                                                                                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RegisterType`1               | Registers the type defined by <b>T</b> as the <b>OpcEvent</b> type to create in case there an event instance is to be created for the type definition identified by the <b>OpcEventTypeAttribute</b> defined on the <b>T</b> specified.                                                                                      |
| RegisterType`1(OpcNodeId)    | Registers the type defined by <b>T</b> as the <b>OpcEvent</b> type to create in case there an event instance is to be created for the type definition identified by the <b>eventId</b> specified.                                                                                                                            |
| RegisterTypes(Assembly)      | Registers all non-abstract types in the <b>assembly</b> specified which defines the <b>OpcEventTypeAttribute</b> and inherit from <b>OpcEvent</b> .                                                                                                                                                                          |
| RegisterTypes(IEnumerable)   | Registers the <b>eventTypes</b> specified as the <b>OpcEvent</b> type to create in case there an event instance is to be created for one of the type definitions identified by the <b>OpcEventTypeAttribute</b> used on one of the <b>eventTypes</b> specified.                                                              |
| RegisterTypes(Type, Type)    | Registers the <b>eventType</b> and the further specified <b>eventTypes</b> as the <b>OpcEvent</b> types to create in case there an event instance is to be created for one of the type definitions identified by the <b>OpcEventTypeAttribute</b> used on the <b>eventType</b> or on one of the <b>eventTypes</b> specified. |
| UnregisterType`1             | Unregisters the previously registered (see <b>RegisterType`1</b> ) type defined by <b>T</b> as the <b>OpcEvent</b> type to not longer create for the type definition identified by the <b>OpcEventTypeAttribute</b> defined on the <b>T</b> specified.                                                                       |
| UnregisterType`1(OpcNodeId)  | Unregisters the previously registered (see <b>RegisterType`1(OpcNodeId)</b> ) type defined by <b>T</b> as the <b>OpcEvent</b> type to not longer create for the type definition identified by the <b>eventId</b> specified.                                                                                                  |
| UnregisterTypes(Assembly)    | Unregisters all previously registered types (see <b>RegisterTypes(Assembly)</b> ) in the <b>assembly</b> specified.                                                                                                                                                                                                          |
| UnregisterTypes(IEnumerable) | Unregisters the previously registered (see <b>RegisterTypes(IEnumerable)</b> ) <b>eventTypes</b> specified.                                                                                                                                                                                                                  |
| UnregisterTypes(Type, Type)  | Unregisters the previously registered <b>eventType</b> and the further specified <b>eventTypes</b> (see <b>RegisterTypes(Type, Type)</b> ).                                                                                                                                                                                  |

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