

# OpcMonitoredItem Class

**Namespace:** Opc.UaFx.Client

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

Represents a node and one of its attributes (= node data) to subscribe to monitor data changes or events on the node.

## C#

```
public class OpcMonitoredItem
```

Inheritance Object > OpcMonitoredItem

## Constructors

Name	Description
<a href="#">OpcMonitoredItem(OpcNodeID, OpcAttribute)</a>	Initializes a new instance of the <a href="#">OpcMonitoredItem</a> class using the <a href="#">nodeId</a> and <a href="#">attribute</a> specified.
<a href="#">OpcMonitoredItem(OpcNodeID, OpcAttribute, OpcMonitoringFilter)</a>	Initializes a new instance of the <a href="#">OpcMonitoredItem</a> class using the <a href="#">nodeId</a> , <a href="#">attribute</a> and <a href="#">filter</a> specified.

## Events

Name	Description
<a href="#">DataChangeReceived</a>	Occurs when a data change notification has been received.
<a href="#">EventReceived</a>	Occurs when an event notification has been received.

## Properties

Name	Description
<a href="#">Attribute</a>	Gets or sets the <a href="#">OpcAttribute</a> to monitor.
<a href="#">CacheQueueSize</a>	Gets or sets the total number of notifications which can be queued in the <a href="#">OpcMonitoredItem</a> related notification cache.
<a href="#">ClientID</a>	Gets the client-assigned unique identifier for this <a href="#">OpcMonitoredItem</a> .
<a href="#">DisplayName</a>	Gets or sets the name of the <a href="#">OpcMonitoredItem</a> used just for display purpose in the client application.
<a href="#">Encoding</a>	Gets or sets the name of the data encoding to use.
<a href="#">Filter</a>	Gets or sets the filter to evaluate while generating notifications for this <a href="#">OpcMonitoredItem</a> .
<a href="#">IndexRange</a>	Gets or sets the range of array indeces to monitor.
<a href="#">IsCreated</a>	Gets a value indicating whether this <a href="#">OpcMonitoredItem</a> has been created on the server.
<a href="#">IsModified</a>	Gets a value indicating whether this <a href="#">OpcMonitoredItem</a> has been modified since it has been created on the server or since its previous changes has been committed to the server.
<a href="#">LastDataChange</a>	Gets the last data change-related notification data received from the server.
<a href="#">LastEvent</a>	Gets the last event-related notification data received from the server.

Name	Description
LastNotification	Gets the last notification received from the server.
MonitoringMode	Gets or sets the monitoring mode which applies to the monitored item.
NodeCategory	Gets or sets the kind of node to monitor.
NodeId	Gets or sets the node identifier of the node to monitor.
QueueMode	Gets or sets the mode used to enqueue and dequeue notification data items.
QueueSize	Gets or sets a value which defines the requested total number of notifications the server shall queue for this <a href="#">OpcMonitoredItem</a> .
RelativePath	Gets or sets the relative path to the node to monitor starting at the node identified by the <a href="#">NodeId</a> .
ResolvedNodeId	Gets the resolved node identifier of the node to monitor.
SamplingInterval	Gets or sets the requested number of milliseconds of the interval within the server have to access and evaluate this <a href="#">OpcMonitoredItem</a> .
Status	Gets the status information which defines the servers ability to define/provide a monitored item configured like this <a href="#">OpcMonitoredItem</a> .
Subscription	Gets the <a href="#">OpcSubscription</a> this <a href="#">OpcMonitoredItem</a> belongs to.
Tag	Gets or sets the object that contains additional user data about the monitored item.

## Methods

Name	Description
OnDataChangeReceived(OpcDataChangeReceivedEventArgs)	Raises the <a href="#">DataChangeReceived</a> event of the <a href="#">OpcMonitoredItem</a> .
OnEventReceived(OpcEventReceivedEventArgs)	Raises the <a href="#">EventReceived</a> event of the <a href="#">OpcMonitoredItem</a> .
ToString	Returns a string that represents the current <a href="#">OpcMonitoredItem</a> .

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