

OpcNodeManager Class

Namespace: Opc.UaFx.Server

Assemblies: Opc.UaFx.Advanced.dll

Provides an abstract base class used to organize and maintain the address space or only a part of it. This includes the definition of the nodes in the address space as well as the processing of different node operations to interact with the underlying system.

C#

```
public abstract class OpcNodeManager : IDisposable, IOpcNamespaceResolver
```

Inheritance [Object](#) > [OpcNodeManager](#)

Derived

- [OpcNodeSetManager](#)

Implements [IDisposable](#), [IOpcNamespaceResolver](#)

Constructors

| Name | Description |
|--|--|
| OpcNodeManager (OpcNamespace , OpcNamespace) | Initializes a new instance of the OpcNodeManager class using the defaultNamespace and additionally specified namespaces . |
| OpcNodeManager (String , String) | Initializes a new instance of the OpcNodeManager class using the defaultNamespace and additionally specified String -based namespaces . |
| OpcNodeManager (Uri , Uri) | Initializes a new instance of the OpcNodeManager class using the defaultNamespaceUri and additionally specified Uri -based namespaceUris . |

Events

| Name | Description |
|--|--|
| AfterRead | |
| AfterWrite | |
| BeforeRead | |
| BeforeWrite | |
| MonitoredItemCreated | Occurs when a new monitored item is created through a OpcSession . |
| MonitoredItemDeleted | Occurs when an existing monitored item of a OpcSession has been deleted. |
| MonitoredItemModified | Occurs when an existing monitored item of a OpcSession has been modified. |
| MonitoredItemsCreated | Occurs when a set of new monitored items is created through a OpcSession . |
| MonitoredItemsDeleted | Occurs when a set of existing monitored items of a OpcSession has been deleted. |
| MonitoredItemsModified | Occurs when a set of existing monitored items of a OpcSession has been modified. |

Properties

| Name | Description |
|-----------------------|---|
| DefaultNamespace | |
| DefaultNamespaceIndex | |
| DefaultNamespaceUri | |
| DefaultNamespaceValue | |
| Namespaces | |
| NodeIdFactory | Gets or sets the OpcNodeIdFactory instance used by this node manager to determine / create node identifiers for the nodes provided / defined by the node manager. |
| Nodes | |
| NotifierNodes | |
| SyncRoot | |
| SystemContext | |

Methods

| Name | Description |
|--|--|
| AddNode(IOpcNode) | |
| AddNode(IOpcNode, IEnumerable) | |
| AddNode(IOpcNode, IOpcNodeReferenceAware) | |
| AddNode(IOpcNode, OpcNodeReferenceCollection) | |
| AddNode(OpcContext, IOpcNode) | |
| AddNode(OpcContext, IOpcNode, IEnumerable) | |
| AddNode(OpcContext, IOpcNode, IOpcNodeReferenceAware) | |
| AddNode(OpcContext, IOpcNode, OpcNodeReferenceCollection) | |
| AddNotifierNode(IOpcNode) | |
| Browse(OpcContext, OpcBrowsePoint, OpcReferenceDescriptionCollection) | |
| CreateHistory(IOpcNode, OpcHistoryModificationInfo, OpcValueCollection) | |
| CreateNodes(OpcNodeReferenceCollection) | |
| DeleteHistory(IOpcNode, OpcHistoryModificationInfo, IEnumerable) | |
| DeleteHistory(IOpcNode, OpcHistoryModificationInfo, Nullable, Nullable, OpcDeleteHistoryOptions) | |
| DeleteHistory(IOpcNode, OpcHistoryModificationInfo, OpcValueCollection) | |
| DeleteNodes | |
| Dispose | Releases all resources used by the OpcNodeManager . |
| Dispose(Boolean) | Releases the unmanaged resources used by the OpcNodeManager and optionally releases the managed resources. |
| ExportNodes | |
| ExportNodes(OpcNodeExportOptions) | |

| Name | Description |
|--|--|
| GetNode(OpcNodeId) | Retrieves the IOpcNode which is maintained by the Nodes of this OpcNodeManager and is known under the nodeId specified. |
| GetNode(String) | Retrieves the IOpcNode which is maintained by the Nodes of this OpcNodeManager and is known under the nodePath specified. |
| ImplementNode(IOpcNode) | When implemented in a derived class, implements the logic required to integrate the node into the underlying system. |
| ImportNodes | When implemented in a derived class, offers the different OpcNodeSets which are imported prior any other nodes are created within the address space part organized by the current OpcNodeManager . |
| IsNodeAccessible(OpcContext, OpcNodeId, IOpcNodeInfo) | |
| OnAfterRead(OpcNodeAccessEventArgs) | |
| OnAfterWrite(OpcNodeAccessEventArgs) | |
| OnBeforeRead(OpcNodeAccessEventArgs) | |
| OnBeforeWrite(OpcNodeAccessEventArgs) | |
| OnMonitoredItemCreated(OpcMonitoredItemEventArgs) | Raises the MonitoredItemCreated event of the OpcNodeManager . |
| OnMonitoredItemDeleted(OpcMonitoredItemEventArgs) | Raises the MonitoredItemDeleted event of the OpcNodeManager . |
| OnMonitoredItemModified(OpcMonitoredItemEventArgs) | Raises the MonitoredItemModified event of the OpcNodeManager . |
| OnMonitoredItemsCreated(OpcMonitoredItemsEventArgs) | Raises the MonitoredItemsCreated event of the OpcNodeManager . |
| OnMonitoredItemsDeleted(OpcMonitoredItemsEventArgs) | Raises the MonitoredItemsDeleted event of the OpcNodeManager . |
| OnMonitoredItemsModified(OpcMonitoredItemsEventArgs) | Raises the MonitoredItemsModified event of the OpcNodeManager . |
| QueryNode(OpcNodeId) | |
| Read(OpcContext, OpcNodeAccessTokenCollection) | |
| ReadHistory(IOpcNode, Nullable, Nullable, OpcReadHistoryOptions) | |
| RemoveNode(IOpcNode) | |
| RemoveNode(IOpcNode, OpcLocalReferenceCollection) | |
| RemoveNode(OpcContext, IOpcNode) | |
| RemoveNode(OpcContext, IOpcNode, OpcLocalReferenceCollection) | |
| RemoveNotifierNode(IOpcNode) | |
| ReplaceHistory(IOpcNode, OpcHistoryModificationInfo, OpcValueCollection) | |

| Name | Description |
|---|--|
| ReplaceNode(IOpcNode) | Replaces an existing IOpcNode instance with the specified node without invalidating existing monitored items nor previously defined notifiers. |
| ReportEvent(IOpcNode, OpcEventSeverity, OpcText) | Produces a global event using the event data specified. |
| ReportEvent(IOpcNode, OpcEventSeverity, OpcText, Object) | Produces a global event using the event data specified. |
| ReportEvent(OpcEventNode) | Produces a global event using the eventNode specified. |
| ReportEvent(OpcEventSeverity, OpcText) | Produces a global event using the event data specified. |
| ReportEvent(OpcEventSeverity, OpcText, Object) | Produces a global event using the event data specified. |
| ReportEvent(OpcNodeId, String, OpcEventSeverity, OpcText) | Produces a global event using the event data specified. |
| ReportEvent(OpcNodeId, String, OpcEventSeverity, OpcText, Object) | Produces a global event using the event data specified. |
| RetrieveNodeHistoryProvider(IOpcNode) | |
| UpdateHistory(IOpcNode, OpcHistoryModificationInfo, OpcValueCollection) | |
| Write(OpcContext, OpcNodeAccessTokenCollection) | |

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