

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 <code>defaultNamespace</code> and additionally specified <code>namespaces</code> .
OpcNodeManager(String, String)	Initializes a new instance of the OpcNodeManager class using the <code>defaultNamespace</code> and additionally specified <code>String</code> -based <code>namespaces</code> .
OpcNodeManager(Uri, Uri)	Initializes a new instance of the OpcNodeManager class using the <code>defaultNamespaceUri</code> and additionally specified <code>Uri</code> -based <code>namespaceUris</code> .

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	
NodeldFactory	Gets or sets the OpcNodeldFactory 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(OpcNodeld , String , OpcEventSeverity , OpcText)	Produces a global event using the event data specified.
ReportEvent(OpcNodeld , 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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