OpcHistoryConfigurationNode Members

Namespace: Opc.UaFx
Assemblies: Opc.UaFx.Advanced.dll, Opc.UaFx.Advanced.dll
The OpcHistoryConfigurationNode type exposes the following members.

Constructors

OpcHistoryConfigurationNode()

Initializes a new instance of the OpcHistoryConfigurationNode class.

C#

```
public OpcHistoryConfigurationNode()
```

OpcHistoryConfigurationNode(IOpcNode)

Initializes a new instance of the OpcHistoryConfigurationNode class as a child node of the `parent` node given.

C#

```
public OpcHistoryConfigurationNode(IOpcNode parent)
```

Parameters

`parent` IOpcNode

The IOpcNode used as the parent node or a null reference (Nothing in Visual Basic) in the case there is no parent node available.

OpcHistoryConfigurationNode(IOpcNode, OpcName)

Initializes a new instance of the OpcHistoryConfigurationNode class accessible by the `name` specified as a child node of the `parent` node given.

C#

```
public OpcHistoryConfigurationNode(IOpcNode parent, OpcName name)
```

Parameters

`parent` IOpcNode

The IOpcNode used as the parent node or a null reference (Nothing in Visual Basic) in the case there is no

parent node available.

`name` OpcName

The OpcName through that the new history configurtion node can be accessed.

OpcHistoryConfigurationNode(IOpcNode, OpcName, OpcNodeId)

Initializes a new instance of the OpcHistoryConfigurationNode class accessible by the `name` and `id` specified as a child node of the `parent` node given.

C#

```
public OpcHistoryConfigurationNode(IOpcNode parent, OpcName name, OpcNodeId id)
```

Parameters

`parent` IOpcNode

The IOpcNode used as the parent node or a null reference (Nothing in Visual Basic) in the case there is no parent node available.

`name` OpcName

The OpcName through that the new history configurtion node can be accessed.

`id` OpcNodeId

The OpcNodeId through that the new history configurtion node can be identified and accessed.

OpcHistoryConfigurationNode(OpcName)

Initializes a new instance of the OpcHistoryConfigurationNode class accessible by the `name` specified.

C#

```
public OpcHistoryConfigurationNode(OpcName name)
```

Parameters

`name` OpcName

The OpcName through that the new history configurtion node can be accessed.

OpcHistoryConfigurationNode(OpcName, OpcNodeId)

Initializes a new instance of the OpcHistoryConfigurationNode class accessible by the `name` and `id` specified.

C#

```
public OpcHistoryConfigurationNode(OpcName name, OpcNodeId id)
```

Parameters

`name` OpcName

The OpcName through that the new history configurtion node can be accessed.

`id` OpcNodeId

The OpcNodeId through that the new history configurtion node can be identified and accessed.

Properties

AggregateConfiguration

Gets the node used as the browse entry point for information on how the server treats aggregate specific functionality such as handling uncertain data.

C#

```
public OpcAggregateConfigurationNode AggregateConfiguration { get; }
```

Property Value

OpcAggregateConfigurationNode

An instance of the OpcAggregateConfigurationNode for information on how the server treats aggregate specific functionality.

AggregateFunctions

Gets the node used as an entry point to browse to all aggregate capabilities supported by the server for historical access.

C#

```
public OpcFolderNode AggregateFunctions { get; }
```

Property Value

OpcFolderNode

An instance of the OpcFolderNode with all history aggregates supported by the server. If the server does not support aggregates then the folder is left empty.

DefaultTypeDefinitionId

Gets the default identifier which identifies the node that defines the underlying node type from that this OpcInstanceNode has been created.

C#

```
protected override OpcNodeId DefaultTypeDefinitionId { get; }
```

Property Value

OpcNodeId

The OpcNodeId of the type node from that this OpcInstanceNode has been created from. These type node defines the typical structure of an instance node of its type definition. If there exists no specific type definition node a null reference (Nothing in Visual Basic).

Definition

Gets or sets is a vendor-specific, human readable string that specifies how the value of this historical data node is calculated.

C#

```
public string Definition { get; set; }
```

Property Value

String

A non-localized value which will often contain an equation that can be parsed by certain client.

DefinitionNode

Gets the OpcPropertyNode´1 of the Definition property.

C#

```
public OpcPropertyNode<string> DefinitionNode { get; }
```

Property Value

OpcPropertyNode<String>

An instance of the OpcPropertyNode´1 class.

ExceptionDeviation

Gets or sets a value which specifies the minimum amount that the data for the historical data node must change in order for the change to be reported to the history database.

C#

```
public double ExceptionDeviation { get; set; }
```

Property Value

Double

The minimum amount that the data node must change in order for the change to be reported to the history database.

ExceptionDeviationFormat

Gets or sets the format how the ExceptionDeviation is determined.

C#

```
public OpcExceptionDeviationFormat ExceptionDeviationFormat { get; set; }
```

Property Value

OpcExceptionDeviationFormat

One of the members defined by the OpcExceptionDeviationFormat enumeration.

ExceptionDeviationFormatNode

Gets the OpcPropertyNode´1 of the ExceptionDeviationFormat property.

C#

```
public OpcPropertyNode<ExceptionDeviationFormat> ExceptionDeviationFormatNode { get; }
```

Property Value

OpcPropertyNode<ExceptionDeviationFormat>

An instance of the OpcPropertyNode´1 class.

ExceptionDeviationNode

Gets the OpcPropertyNode´1 of the ExceptionDeviation property.

C#

```
public OpcPropertyNode<double> ExceptionDeviationNode { get; }
```

Property Value

OpcPropertyNode<Double>

An instance of the OpcPropertyNode´1 class.

MaxTimeInterval

Gets or sets which specifies the maximum interval between data points in the history repository regardless of their value change.

C#

```
public double MaxTimeInterval { get; set; }
```

Property Value

Double

The maximum interval between data points.

MaxTimeIntervalNode

Gets the OpcPropertyNode´1 of the MaxTimeInterval property.

C#

```
public OpcPropertyNode<double> MaxTimeIntervalNode { get; }
```

Property Value

OpcPropertyNode<Double>

An instance of the OpcPropertyNode´1 class.

MinTimeInterval

Gets or sets which specifies the minimum interval between data points in the history repository regardless of their value change.

C#

```
public double MinTimeInterval { get; set; }
```

Property Value

Double

The minimum interval between data points.

MinTimeIntervalNode

Gets the OpcPropertyNode´1 of the MinTimeInterval property.

C#

```
public OpcPropertyNode<double> MinTimeIntervalNode { get; }
```

Property Value

OpcPropertyNode<Double>

An instance of the OpcPropertyNode´1 class.

StartOfArchive

Gets or sets a value which specifies the date before which there is no data in the archive either online or offline.

C#

```
public DateTime StartOfArchive { get; set; }
```

Property Value

DateTime

The DateTime before which there is no data in the archive either online or offline.

StartOfArchiveNode

Gets the OpcPropertyNode´1 of the StartOfArchive property.

C#

```
public OpcPropertyNode<DateTime> StartOfArchiveNode { get; }
```

Property Value

OpcPropertyNode<DateTime>

An instance of the OpcPropertyNode´1 class.

StartOfOnlineArchive

Gets or sets a value which specifies the date of the earliest data in the online archive.

C#

```
public DateTime StartOfOnlineArchive { get; set; }
```

Property Value

DateTime

The DateTime of the date of the earliest data in the online archive.

StartOfOnlineArchiveNode

Gets the OpcPropertyNode´1 of the StartOfOnlineArchive property.

C#

```
public OpcPropertyNode<DateTime> StartOfOnlineArchiveNode { get; }
```

Property Value

OpcPropertyNode<DateTime>

An instance of the OpcPropertyNode´1 class.

Stepped

Gets or sets a value indicating whether the historical data was collected in such a manner that it should be displayed as sloped interpolation (sloped line between points) or as stepped interpolation (vertically-connected horizontal lines between points) when raw data is examined.

C#

```
public bool Stepped { get; set; }
```

Property Value

Boolean

A value of true indicates stepped interpolation mode. A value equals false indicates sloped interpolated mode. The default value is false.

Remarks

This property also effects how some aggregates are calculated.

SteppedNode

Gets the OpcPropertyNode´1 of the Stepped property.

C#

```
public OpcPropertyNode<bool> SteppedNode { get; }
```

Property Value

OpcPropertyNode<Boolean>

An instance of the OpcPropertyNode´1 class.

Methods

InitializeDefaults()

Initializes the default values used by the OpcHistoryConfigurationNode.

C#

```
protected override void InitializeDefaults()
```

Remarks

This method is used to ensure the availability of appropriate node specific default values. For more information like when this method is to be overwritten see InitializeDefaults.

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