

# OpcAggregateConfigurationNode Class

**Namespace:** Opc.UaFx

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

Defines the general characteristics of a node that defines the aggregate configuration of any variable or property.

**C#**

```
public class OpcAggregateConfigurationNode : OpcObjectNode, IOpcNode, IOpcNodeInfo
```

**Inheritance** [Object](#) > [OpcNode](#) > [OpcInstanceNode](#) > [OpcObjectNode](#) > [OpcAggregateConfigurationNode](#)

**Implements** [IOpcNode](#), [IOpcNodeInfo](#)

## Remarks

The [OpcAggregateConfigurationNode](#) represents the browse entry point for information on how the server treats aggregate specific functionality such as handling uncertain data.

## Constructors

| Name                                                                        | Description                                                                                                                                                                                  |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">OpcAggregateConfigurationNode</a>                               | Initializes a new instance of the <a href="#">OpcAggregateConfigurationNode</a> class.                                                                                                       |
| <a href="#">OpcAggregateConfigurationNode(IOpcNode)</a>                     | Initializes a new instance of the <a href="#">OpcAggregateConfigurationNode</a> class as a child node of the <b>parent</b> node given.                                                       |
| <a href="#">OpcAggregateConfigurationNode(IOpcNode, OpcName)</a>            | Initializes a new instance of the <a href="#">OpcAggregateConfigurationNode</a> class accessible by the <b>name</b> specified as a child node of the <b>parent</b> node given.               |
| <a href="#">OpcAggregateConfigurationNode(IOpcNode, OpcName, OpcNodeId)</a> | Initializes a new instance of the <a href="#">OpcAggregateConfigurationNode</a> class accessible by the <b>name</b> and <b>id</b> specified as a child node of the <b>parent</b> node given. |
| <a href="#">OpcAggregateConfigurationNode(OpcName)</a>                      | Initializes a new instance of the <a href="#">OpcAggregateConfigurationNode</a> class accessible by the <b>name</b> specified.                                                               |
| <a href="#">OpcAggregateConfigurationNode(OpcName, OpcNodeId)</a>           | Initializes a new instance of the <a href="#">OpcAggregateConfigurationNode</a> class accessible by the <b>name</b> and <b>id</b> specified.                                                 |

# Events

| Name               | Description                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| AfterApplyChanges  | Occurs after one or more changes on the node has been notified.<br>(Inherited from <a href="#">OpcNode</a> ) |
| BeforeApplyChanges | Occurs before one or more changes on the node are notified.<br>(Inherited from <a href="#">OpcNode</a> )     |

# Properties

| Name                    | Description                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                | Gets the <a href="#">NodeCategoryOpcAttribute</a> which identifies the kind of node and is therefore used to classify the node regarding its use and purpose.<br>(Inherited from <a href="#">OpcNode</a> )                                    |
| DefaultReferenceTypeId  | Gets the default identifier which identifies the type that defines the underlying node reference within this <a href="#">OpcInstanceNode</a> is referenced by its parent node.<br>(Inherited from <a href="#">OpcInstanceNode</a> )           |
| DefaultReferenceTypeId  | Gets the default identifier which identifies the type that defines the underlying node reference within this <a href="#">OpcInstanceNode</a> is referenced by its parent node.<br>(Inherited from <a href="#">OpcObjectNode</a> )             |
| DefaultTypeDefinitionId | Gets the default identifier which identifies the node that defines the underlying node type from that this <a href="#">OpcInstanceNode</a> has been created.                                                                                  |
| DefaultTypeDefinitionId | Gets the default identifier which identifies the node that defines the underlying node type from that this <a href="#">OpcInstanceNode</a> has been created.<br>(Inherited from <a href="#">OpcInstanceNode</a> )                             |
| DefaultTypeDefinitionId | Gets the default identifier which identifies the node that defines the underlying node type from that this <a href="#">OpcInstanceNode</a> has been created.<br>(Inherited from <a href="#">OpcObjectNode</a> )                               |
| Description             | Gets or sets the value of the optional <a href="#">DescriptionOpcAttribute</a> which shall explain the meaning of the node.<br>(Inherited from <a href="#">OpcNode</a> )                                                                      |
| Descriptions            | Gets the <a href="#">OpcNodeGlobalization</a> instance used to control the localization and other globalization related tasks for the <a href="#">Description</a> attribute of the current node.<br>(Inherited from <a href="#">OpcNode</a> ) |
| DisplayName             | Gets or sets the value of the <a href="#">DisplayNameOpcAttribute</a> which defines the localizable name of the node.<br>(Inherited from <a href="#">OpcNode</a> )                                                                            |
| DisplayNames            | Gets the <a href="#">OpcNodeGlobalization</a> instance used to control the localization and other globalization related tasks for the <a href="#">DisplayName</a> attribute of the current node.<br>(Inherited from <a href="#">OpcNode</a> ) |
| HasPendingChanges       | Gets a value indicating whether there exists any pending change on the node.<br>(Inherited from <a href="#">OpcNode</a> )                                                                                                                     |
| Id                      | Gets the value of the <a href="#">NodeIdOpcAttribute</a> which unambiguously identifies the node.<br>(Inherited from <a href="#">OpcNode</a> )                                                                                                |
| ModellingRuleId         | Gets or sets the identifier which defines how the <a href="#">OpcInstanceNode</a> is used for instantiation.<br>(Inherited from <a href="#">OpcInstanceNode</a> )                                                                             |

| Name                        | Description                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                        | Gets or sets the value of the <a href="#">BrowseNameOpcAttribute</a> which defines the non-localizable human-readable name used when browsing the address space.<br>(Inherited from <a href="#">OpcNode</a> )                                                         |
| Namespace                   | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                                                             |
| Parent                      | Gets the parent node of the node.<br>(Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                        |
| Parent                      | Gets the parent node of the node.<br>(Inherited from <a href="#">OpcInstanceNode</a> )                                                                                                                                                                                |
| PendingChanges              | Gets a value indicating the most recent changes performed on the node since their last notification.<br>(Inherited from <a href="#">OpcNode</a> )                                                                                                                     |
| PercentDataBad              | Gets or sets a value which indicates the minimum percentage of bad data in a given interval required for the status code for the given interval for the processed data requests to be set to bad.                                                                     |
| PercentDataBadNode          | Gets the <a href="#">OpcPropertyNode`1</a> of the <a href="#">PercentDataBad</a> property.                                                                                                                                                                            |
| PercentDataGood             | Gets or sets a value which indicates the minimum percentage of good data in a given interval required for the status code for the given interval for the processed data requests to be set to good.                                                                   |
| PercentDataGoodNode         | Gets the <a href="#">OpcPropertyNode`1</a> of the <a href="#">PercentDataGood</a> property.                                                                                                                                                                           |
| QueryEventsCallback         | Gets or sets a callback used to query any event information which belongs to the node.<br>(Inherited from <a href="#">OpcNode</a> )                                                                                                                                   |
| ReadDescriptionCallback     | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                                                             |
| ReadDisplayNameCallback     | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                                                             |
| ReadUserWriteAccessCallback | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                                                             |
| ReadWriteAccessCallback     | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                                                             |
| ReferenceType               | Gets a value which defines a pre-defined used <a href="#">ReferenceTypeId</a> as one of the members defined by the <a href="#">OpcReferenceType</a> enumeration to simplify querying standard reference types.<br>(Inherited from <a href="#">OpcInstanceNode</a> )   |
| ReferenceTypeId             | Gets or sets the identifier which identifies the node that defines the semantic of the reference between a source and a target node and generally reflects an operation between the two, such as "A contains B".<br>(Inherited from <a href="#">OpcInstanceNode</a> ) |
| SymbolicName                | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                                                             |
| Tag                         | Gets or sets the object that contains additional user data about the node.<br>(Inherited from <a href="#">OpcNode</a> )                                                                                                                                               |
| TreatUncertainAsBad         | Gets or sets a value indicating whether the server treats data returned with a status code severity uncertain with respect to aggregate calculations.                                                                                                                 |
| TreatUncertainAsBadNode     | Gets the <a href="#">OpcPropertyNode`1</a> of the <a href="#">TreatUncertainAsBad</a> property.                                                                                                                                                                       |
| TypeDefinitionId            | Gets or sets the identifier which identifies the node that defines the underlying node type from that this <a href="#">OpcInstanceNode</a> has been created.<br>(Inherited from <a href="#">OpcInstanceNode</a> )                                                     |
| UserWriteAccess             | Gets or sets the value of the optional <a href="#">UserWriteAccessOpcAttribute</a> which exposes the possibilities of a client to write the attributes of the node taking user access rights into account.<br>(Inherited from <a href="#">OpcNode</a> )               |
| UseSlopedExtrapolation      | Gets or sets a value indicating whether the server interpolates data when no boundary value exists (i.e. extrapolating into the future from the last known value).                                                                                                    |

| Name                         | Description                                                                                                                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UseSlopedExtrapolationNode   | Gets the <a href="#">OpcPropertyNode`1</a> of the <a href="#">UseSlopedExtrapolation</a> property.                                                                                                        |
| WriteAccess                  | Gets or sets the value of the optional <a href="#">WriteAccessOpcAttribute</a> which exposes the possibilities of a client to write the attributes of the node. (Inherited from <a href="#">OpcNode</a> ) |
| WriteDescriptionCallback     | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                 |
| WriteDisplayNameCallback     | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                 |
| WriteUserWriteAccessCallback | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                 |
| WriteWriteAccessCallback     | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                 |

## Methods

| Name                                          | Description                                                                                                                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AddChild(OpcContext, OpcInstanceNode)         | (Inherited from <a href="#">OpcInstanceNode</a> )                                                                                                                                                            |
| AddNotifier(OpcContext, IOpcNode)             | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                    |
| AddNotifier(OpcContext, IOpcNode)             | (Inherited from <a href="#">OpcObjectNode</a> )                                                                                                                                                              |
| ApplyChanges(OpcContext)                      | Notifies about changes performed on the node since the last notification and resets the pending changes to <a href="#">None</a> . (Inherited from <a href="#">OpcNode</a> )                                  |
| ApplyChanges(OpcContext, Boolean)             | Notifies about changes performed on the node (and optionally on its children) since the last notification and resets the pending changes to <a href="#">None</a> . (Inherited from <a href="#">OpcNode</a> ) |
| ApplyConfiguration(OpcAggregateConfiguration) | Applies the <a href="#">configuration</a> specified to the aggregation setup of this <a href="#">OpcAggregateConfigurationNode</a> .                                                                         |
| AttributeValue(OpcAttribute)                  | Retrieves the value of the <a href="#">attribute</a> specified. (Inherited from <a href="#">OpcNode</a> )                                                                                                    |
| AttributeValue`1(OpcAttribute)                | Retrieves the value of the <a href="#">attribute</a> specified. (Inherited from <a href="#">OpcNode</a> )                                                                                                    |
| Child(OpcContext, OpcName)                    | Retrieves the child node its <a href="#">Name</a> property matches exactly the <a href="#">name</a> specified. (Inherited from <a href="#">OpcNode</a> )                                                     |
| Children(OpcContext)                          | Retrieves a sequence of all nodes organized as children of this node. (Inherited from <a href="#">OpcNode</a> )                                                                                              |
| InitializeDefaults                            | Initializes the default values used by the node implementation represented / required. (Inherited from <a href="#">OpcNode</a> )                                                                             |
| InitializeDefaults                            | Initializes the default values used by the <a href="#">OpcInstanceNode</a> . (Inherited from <a href="#">OpcInstanceNode</a> )                                                                               |
| IsChangePending(OpcNodeChanges)               | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                    |
| OnAfterApplyChanges(OpcNodeChangesEventArgs)  | Raises the <a href="#">AfterApplyChanges</a> event using the event data specified. (Inherited from <a href="#">OpcNode</a> )                                                                                 |

| Name                                                                        | Description                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OnBeforeApplyChanges(OpcNodeChangesEventArgs)                               | Raises the <a href="#">BeforeApplyChanges</a> event using the event data specified.<br>(Inherited from <a href="#">OpcNode</a> )                                                                                                       |
| QueryEventsCore(OpcNodeContext, OpcEventCollection)                         | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                              |
| ReadAttributeValueCore`1(OpcReadAttributeValueContext, OpcAttributeValue)   | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                              |
| RemoveChild(OpcContext, OpcInstanceNode)                                    | (Inherited from <a href="#">OpcInstanceNode</a> )                                                                                                                                                                                      |
| RemoveNotifier(OpcContext, IOpcNode)                                        | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                              |
| RemoveNotifier(OpcContext, IOpcNode)                                        | (Inherited from <a href="#">OpcInstanceNode</a> )                                                                                                                                                                                      |
| RemoveNotifier(OpcContext, IOpcNode)                                        | (Inherited from <a href="#">OpcObjectNode</a> )                                                                                                                                                                                        |
| ReportEvent(OpcContext, OpcEvent)                                           | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                              |
| UpdateChanges(OpcContext, OpcNodeChanges)                                   | Notifies about the <a href="#">changes</a> on behalf of the node and removes pending changes which intersect with the <a href="#">changes</a> specified.<br>(Inherited from <a href="#">OpcNode</a> )                                  |
| UpdateChanges(OpcContext, OpcNodeChanges, Boolean)                          | Notifies about the <a href="#">changes</a> on behalf of the node (and optionally on its children) and removes pending changes which intersect with the <a href="#">changes</a> specified.<br>(Inherited from <a href="#">OpcNode</a> ) |
| WriteAttributeValueCore`1(OpcWriteAttributeValueContext, OpcAttributeValue) | (Inherited from <a href="#">OpcNode</a> )                                                                                                                                                                                              |



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