OpcDataObject Class

Namespace: Opc.UaFx
Assemblies: Opc.UaFx.Advanced.dll

Provides a generic and dynamically accessible representation of structured data types.

C#

```
public sealed class OpcDataObject : OpcData, IDynamicMetaObjectProvider
```

Inheritance Object › OpcData › OpcDataObject

Implements IDynamicMetaObjectProvider

Constructors

Name	Description
OpcDataObject(OpcDataTypeInfo)	Initializes a new instance of the OpcDataObject class using the type information of the `dataType` specified.

Events

Name	Description
TypeResolve	Occurs when the resolution of a data type fails. Use this event to manually provide the Type to use for a specific data type definition identifier. (Inherited from OpcData)

Properties

Name	Description
DataStore	Gets the IOpcDataStore which contains the data of this OpcData instance. (Inherited from OpcData)
Item(String)	Gets the field associated with the specified `name`.

Methods

Name	Description
DeepCopy	(Inherited from OpcData)
GetField(String)	Searches for the field with the specified `name`.
GetFields	Returns all the fields of the current OpcDataObject.
GetType(OpcNodeId)	Retrieves the Type which implementes the data type which is identified by the `typeId` specified. (Inherited from OpcData)
GetTypeInfo	Gets the OpcDataTypeInfo of the current structured data type instance represented.

Name	Description
GetTypeInfo(OpcEncoding)	Retrieves the OpcDataTypeInfo which declares the data type which is identified by the `encoding` specified. (Inherited from OpcData)
GetTypeInfo(OpcNodeId)	Retrieves the OpcDataTypeInfo which declares the data type which is identified by the `typeId` specified. (Inherited from OpcData)
GetTypeInfo(Type)	Retrieves the OpcDataTypeInfo which declares the data type implemented by the `underlyingType` specified. (Inherited from OpcData)
GetTypeInfo``1	Retrieves the OpcDataTypeInfo which declares the data type implemented by the `T` specified. (Inherited from OpcData)
HasField(String)	Determines whether the current OpcDataObject provides a OpcDataField with the Name equals to the `name` specified.
New(OpcDataTypeInfo)	Creates a new instance of the OpcDataObject class using the `dataType` specified. (Inherited from OpcData)
NewArray(OpcDataTypeInfo, Int32)	Creates a one-dimensional array of OpcDataObject objects using the `dataType` and `length` with zero-based indexing. (Inherited from OpcData)
RegisterType(Type)	Registers the `dataType` specified as the data object type to create in case there a data instance is to be created for the type definition identified by the OpcDataTypeAttribute defined on the `dataType` specified. (Inherited from OpcData)
RegisterType(Type, OpcNodeId)	Registers the `dataType` specified as the data object type to create in case there a data instance is to be created for the type definition identified by the `dataTypeId` specified. (Inherited from OpcData)
RegisterType(Type, OpcNodeId, OpcEncoding)	Registers the `dataType` specified as the data object type to create in case there a data instance is to be created for the type definition identified by the `dataTypeId` or by one of the `dataTypeEncodings` specified. (Inherited from OpcData)
RegisterType``1	Registers the type defined by `T` as the data object type to create in case there a data instance is to be created for the type definition identified by the OpcDataTypeAttribute defined on the `T` specified. (Inherited from OpcData)
RegisterType``1(OpcNodeId)	Registers the type defined by `T` as the data object type to create in case there a data instance is to be created for the type definition identified by the `dataTypeId` specified. (Inherited from OpcData)
RegisterType``1(OpcNodeId, OpcEncoding)	Registers the type defined by `T` as the data object type to create in case there a data instance is to be created for the type definition identified by the `dataTypeId` or by one of the `dataTypeEncodings` specified. (Inherited from OpcData)
RegisterTypes(Assembly)	Registers all non-abstract types in the `assembly` specified which defines the OpcDataTypeAttribute. (Inherited from OpcData)

Name	Description
RegisterTypes(IEnumerable)	Registers the `dataTypes` specified as the data object type to create in case there a data instance is to be created for the type definitions identified by the OpcEventTypeAttribute used on one of the `dataTypes` specified. (Inherited from OpcData)
RegisterTypes(Type, Type)	Registers the `dataType` and the further specified `dataTypes` as the data object type to create in case there a data instance is to be created for the type definition identified by the OpcDataTypeAttribute used on the `dataType` or on one of the `dataTypes` specified. (Inherited from OpcData)
ShallowCopy	(Inherited from OpcData)
TryGetField(String, OpcDataField@)	Searches for the field associated with the `name` specified.
UnregisterType``1	Unregisters the previously registered (see RegisterType´´1) type defined by `T` as the Object type to not longer create for the type definition identified by the OpcDataTypeAttribute defined on the `T` specified. (Inherited from OpcData)
UnregisterType``1(OpcNodeId)	Unregisters the previously registered (see RegisterType´´1(OpcNodeId)) type defined by `T` as the Object type to not longer create for the type definition identified by the `dataTypeId` specified. (Inherited from OpcData)
UnregisterType``1(OpcNodeId, OpcEncoding)	Unregisters the previously registered (see RegisterType´´1(OpcNodeId, OpcEncoding)) type defined by `T` as the Object type to not longer create for the type definition identified by the `dataTypeId` or by one of the `dataTypeEncodings` specified. (Inherited from OpcData)
UnregisterTypes(Assembly)	Unregisters all previously registered types (see RegisterTypes(Assembly)) in the `assembly` specified. (Inherited from OpcData)
UnregisterTypes(IEnumerable)	Unregisters the previously registered (see RegisterTypes(IEnumerable)) `dataTypes` specified. (Inherited from OpcData)
UnregisterTypes(Type, Type)	Unregisters the previously registered `dataType` and the further specified `dataTypes` (see RegisterTypes(Type, Type)). (Inherited from OpcData)

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