

OpcData Class

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll

Defines an abstract base class of data objects used and provided in the ecosystem of a specific OPC UA Server.

C#

```
[OpcDataType(22U)]  
public abstract class OpcData
```

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

Derived

- [OpcDataObject](#)

Attributes [OpcDataTypeAttribute](#)

Constructors

Name	Description
OpcData(IOpcDataStore)	Initializes a new instance of the OpcData class using the dataStore 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.

Properties

Name	Description
DataStore	Gets the IOpcDataStore which contains the data of this OpcData instance.

Methods

Name	Description
DeepCopy	
GetType(OpcNodeId)	Retrieves the Type which implements the data type which is identified by the typeId specified.
GetTypeInfo(OpcEncoding)	Retrieves the OpcDataTypeInfo which declares the data type which is identified by the encoding specified.
GetTypeInfo(OpcNodeId)	Retrieves the OpcDataTypeInfo which declares the data type which is identified by the typeId specified.

Name	Description
GetTypeInfo(Type)	Retrieves the OpcDataTypeInfo which declares the data type implemented by the underlyingType specified.
GetTypeInfo`1	Retrieves the OpcDataTypeInfo which declares the data type implemented by the T specified.
New(OpcDataTypeInfo)	Creates a new instance of the OpcDataObject class using the dataType specified.
ToArray(OpcDataTypeInfo, Int32)	Creates a one-dimensional array of OpcDataObject objects using the dataType and length with zero-based indexing.
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.
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.
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.
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.
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.
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.
RegisterTypes(Assembly)	Registers all non-abstract types in the assembly specified which defines the OpcDataTypeAttribute .
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.
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.
ShallowCopy	
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.
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.
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.

Name	Description
UnregisterTypes(Assembly)	Unregisters all previously registered types (see RegisterTypes(Assembly)) in the assembly specified.
UnregisterTypes(IEnumerable)	Unregisters the previously registered (see RegisterTypes(IEnumerable)) dataTypes specified.
UnregisterTypes(Type, Type)	Unregisters the previously registered dataType and the further specified dataTypes (see RegisterTypes(Type, Type)).

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