

OpcDataTypeDictionary Class

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll

Represents a self-describing block which offers a set of type declarations used for data types and summarizes them within a [Namespace](#).

C#

```
public abstract class OpcDataTypeDictionary : IOpcTypeProvider
```

Inheritance [Object](#) > OpcDataTypeDictionary

Implements [IOpcTypeProvider](#)

Properties

Name	Description
ByteOrder	Gets the default byte order of the data types defined in this OpcDataTypeDictionary .
Documentation	Gets any semantic information that would help a human to understand what the type dictionary defines.
Empty	Gets the type dictionary to use if there is no specific type dictionary data available.
EmptyType	Gets the type to use if there is no specific type data available, but the empty type shall refer to the current OpcDataTypeDictionary .
EncodingType	Gets the type of encoding used for the data types defined in the current OpcDataTypeDictionary .
HasCachedTypes	Gets a value indicating whether the type dictionary already has determined at least some type information offered as OpcDataTypeInfo objects.
HasCachingCompleted	Gets a value indicating whether the type dictionary has determined the whole type information offered as OpcDataTypeInfo objects.
IsEmpty	Gets a value indicating whether the current OpcDataTypeDictionary represents a type dictionary to use if there is no specific type dictionary described.
Name	Gets a value which defines the non-localizable human-readable name of the type dictionary represented. A node which represents this OpcDataTypeDictionary uses the Name as its BrowseName .
Namespace	Gets the namespace within the type dictionary has been declared.
NodeId	Gets a value which identifies the type dictionary represented. A node which represents this OpcDataTypeDictionary uses the NodeId as its NodeId .
TypeSystem	Gets the OpcDataTypeSystem which contains the data dictionary represented.
XmlNamespace	Gets the Namespace used in the XML-based declaration of the type dictionary.

Methods

Name	Description
GetType(OpcEncoding)	Retrieves the OpcDataTypeInfo object which declares the type which is identified by the encoding specified.

Name	Description
GetType(OpcName)	Retrieves the OpcDataTypeInfo object which is known under the name specified.
GetType(OpcNodeId)	Retrieves the OpcDataTypeInfo object which declares the type which is identified by the typeId specified.
GetType(String)	Retrieves the OpcDataTypeInfo object which is known under the name specified.
GetType(Type)	Retrieves the OpcDataTypeInfo object which declares the type implemented by the underlyingType specified.
GetType(XmlQualifiedName)	Retrieves the OpcDataTypeInfo object which is known under the xmlName specified.
GetTypeCore(OpcEncoding)	Retrieves the OpcDataTypeInfo object which declares the type which is identified by the encoding specified.
GetTypeCore(OpcName)	Retrieves the OpcDataTypeInfo object which is known under the name specified.
GetTypeCore(OpcNodeId)	Retrieves the OpcDataTypeInfo object which declares the type which is identified by the typeId specified.
GetTypeCore(String)	Retrieves the OpcDataTypeInfo object which is known under the name specified.
GetTypeCore(Type)	Retrieves the OpcDataTypeInfo object which declares the type implemented by the underlyingType specified.
GetTypeCore(XmlQualifiedName)	Retrieves the OpcDataTypeInfo object which is known under the xmlName specified.
GetTypes	Retrieves all OpcDataTypeInfo objects offered by the OpcDataTypeDictionary .
GetXmlNamespace(OpcNamespace)	Determines the namespace information used to initialize XmlQualifiedName instances to identify OpcDataTypeInfo objects using a full qualified name.
RetrieveTypesCore	Retrieves all OpcDataTypeInfo objects explicitly offered by the OpcDataTypeDictionary .
RetrieveTypesCore(IDictionary)	When implemented in a derived class, retrieves all OpcDataTypeInfo objects on-demand offered by the OpcDataTypeDictionary except the already knownTypes specified.
ToString	Returns a String representing the Name and the Namespace of the current OpcDataTypeDictionary .

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