

OpcDataTypeSystem Class

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll

Represents an encoding-based system which is organized in type dictionaries to define type information to use to understand data exchanged via OPC UA using a specific type of encoding.

C#

```
public abstract class OpcDataTypeSystem : OpcTypeSystem<OpcDataTypeInfo>, IOpcTypeSystem, IOpcTypeProvider
```

Inheritance [Object](#) > [OpcTypeSystem<OpcDataTypeInfo>](#) > [OpcDataTypeSystem](#)

Implements [IOpcTypeSystem](#), [IOpcTypeProvider](#)

Properties

Name	Description
Binary	Gets the type system used for Binary encoded type information offered by the Client or Server application.
Default	Gets the default type system used by the OPC UA stack.
Empty	Gets the type system to use if their is no specific type system data available.
EmptyDictionary	Gets the type dictionary to use if their is no specific type dictionary data available, but the empty type dictionary shall refer to the current OpcDataTypeSystem .
EncodingType	Gets the type of encoding used for the data type dictionaries defined in the current OpcDataTypeSystem .
HasCachedDictionaries	Gets a value indicating whether the type system already has determined at least some type dictionaries offered as OpcDataTypeDictionary objects.
HasCachingCompleted	Gets a value indicating whether the type system has determined all type dictionaries offered as OpcDataTypeDictionary objects.
Name	Gets a value which defines the human-readable name of the type system represented. A node which represents this OpcDataTypeSystem uses the Name as its BrowseName .
NodeId	Gets a value which identifies the type system represented. A node which represents this OpcDataTypeSystem uses the NodeId as its NodeId .
Xml	Gets the type system used for Xml encoded type information offered by the Client or Server application.

Methods

Name	Description
GetDictionaries	Retrieves all OpcDataTypeDictionary objects offered by the OpcDataTypeSystem .
GetDictionary(OpcName)	Retrieves the OpcDataTypeDictionary object which is known under the name specified.
GetDictionary(OpcNamespace)	Retrieves the OpcDataTypeDictionary object which is known under the namespace specified.

Name	Description
GetDictionary(OpcNodeId)	Retrieves the OpcDataTypeDictionary object which represents the type dictionary which is identified by the nodeId specified.
GetDictionary(String)	Retrieves the OpcDataTypeDictionary object which is known under the nameOrNamespace specified.
GetDictionaryCore(OpcName)	Retrieves the OpcDataTypeDictionary object which is known under the name specified.
GetDictionaryCore(OpcNamespace)	Retrieves the OpcDataTypeDictionary object which is known under the namespace specified.
GetDictionaryCore(OpcNodeId)	Retrieves the OpcDataTypeDictionary object which represents the type dictionary which is identified by the nodeId specified.
GetDictionaryCore(String)	Retrieves the OpcDataTypeDictionary object which is known under the nameOrNamespace specified.
GetType(OpcEncoding)	Retrieves the OpcDataTypeInfo object which declares the type which is identified by the encoding 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.
GetTypesCore	Retrieves all OpcDataTypeInfo objects offered by the current OpcDataTypeSystem .
Of(OpcEncodingType)	Retrieves the type system used for the encodingType specified which provides encoded type information offered by the Client or Server application.
RetrieveDictionariesCore	Retrieves all OpcDataTypeDictionary objects explicitly offered by the OpcDataTypeSystem .
RetrieveDictionariesCore(ICollection)	When implemented in a derived class, retrieves all OpcDataTypeDictionary objects on-demand offered by the OpcDataTypeSystem except the already knownDictionaries specified.
ToString	Returns a String representing the Name of the current OpcDataTypeSystem .

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