

OpcDataTypeInfo Class

Namespace: Opc.UaFx

Assemblies: Opc.UaFx.Advanced.dll

Represents type declarations used for data types.

C#

```
public abstract class OpcDataTypeInfo : IOpcType, IOpcDataTypeInfo
```

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

Implements [IOpcType](#), [IOpcDataTypeInfo](#)

Properties

Name	Description
BaseType	Gets the type from which the current OpcDataTypeInfo directly inherits.
ByteOrder	Gets the byte order of the data represented by the type.
Category	Gets the category the IOpcType falls within.
CustomAttributes	Gets an array of custom attributes associated with this type.
Documentation	Gets any semantic information that would help a human to understand what the type represents.
Empty	Gets the type to use if there is no specific type data available.
Encoding	Gets the information used to identify the type of encoding used for the data of the type represented.
EncodingMask	Gets the characteristics used to encode the existence of optional fields.
Encodings	Gets information of all encodings supported by the type represented.
IsArray	Gets a value indicating whether the type is an array.
IsEmpty	Gets a value indicating whether the current OpcDataTypeInfo represents a type to use if there is no specific type described.
IsEnum	Gets a value indicating whether the current OpcDataTypeInfo represents an enumeration.
IsOpaque	Gets a value indicating whether the current OpcDataTypeInfo describes a primitive fixed size type.
IsPrimitive	Gets a value indicating whether the OpcDataTypeInfo is one of the primitive types.
IsStruct	Gets a value indicating whether the OpcDataTypeInfo is a structured type; that is not a value type.
IsSystemType	Gets a value indicating whether the current OpcDataTypeInfo represents one of the predefined built-in data types defined by the OPC UA.
IsUnknown	Gets a value indicating whether the OpcDataTypeInfo acts as a placeholder for a referenced type its type declaration could not resolved.
Name	Gets a value which defines the non-localizable human-readable name of the type represented. A node which represents this OpcDataTypeInfo uses the Name as its BrowseName .
Size	Gets the size of the type represented as the number of bytes required.
SizeInBits	Gets the size of the type represented as the number of bits required.

Name	Description
TypeDictionary	Gets the the OpcDataTypeDictionary which conains the data type declaration represented.
TypeId	Gets a value which identifies the type represented. A node which represents this OpcDataTypeInfo uses the TypeId as its NodeId .
UnderlyingType	Gets the type which provides the implementation of the OpcDataTypeInfo .
XmlName	Gets the Name of this OpcDataTypeInfo qualified with the XmlNamespace of the TypeDictionary which conains the data type declaration represented.

Methods

Name	Description
GetArrayRank	Gets the number of dimensions in an array.
GetElementType	Returns the OpcDataTypeInfo of the object encompassed or referred to by the current array.
GetField(String)	Searches for the field with the specified name .
GetFields	Returns all the fields of the current OpcDataTypeInfo .
GetFieldsCore	When overridden in a derived class, searches for the fields defined for the current OpcDataTypeInfo .
GetUnderlyingType	Retrieves the Type which provides the implementation of the OpcDataTypeInfo .
GetXmlName(String, OpcDataTypeDictionary)	Retrieves the XmlQualifiedName for the name and typeDictionary specified.
GetXmlName(String, OpcNamespace)	Retrieves the XmlQualifiedName for the name and namespace specified.
GetXmlName(String, String)	Retrieves the XmlQualifiedName for the name and xmlNamespace specified.
MakeArrayType	Returns a OpcDataTypeInfo object representing a one-dimensional array of the current type, with a lower bound of zero.
MakeArrayType(Int32)	Returns a OpcDataTypeInfo object representing an array of the current type, with the specified number of dimensions.
ToString	Returns a String representing the Name or the UnderlyingType of the current OpcDataTypeInfo .

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