

# OpcDataObject Members

**Namespace:** Opc.UaFx

**Assemblies:** Opc.UaFx.Advanced.dll, Opc.UaFx.Advanced.dll

The [OpcDataObject](#) type exposes the following members.

## Constructors

### OpcDataObject(OpcDataTypeInfo)

Initializes a new instance of the [OpcDataObject](#) class using the type information of the `dataType` specified.

**C#**

```
public OpcDataObject(OpcDataTypeInfo dataType)
```

#### Parameters

`dataType` [OpcDataTypeInfo](#)

The [OpcDataTypeInfo](#) of the structured data type to represent.

#### Exceptions

[ArgumentException](#)

The `dataType` is not a structured data type (see [IsStruct](#)).

[ArgumentNullException](#)

The `dataType` is a null reference (Nothing in Visual Basic).

## Properties

### Item[String]

Gets the field associated with the specified `name`.

**C#**

```
public OpcDataField this[string name] { get; }
```

#### Property Value

[OpcDataField](#)

An instance of the [OpcDataField](#) representing the field with the specified name, if existent; otherwise a null reference (Nothing in Visual Basic).

# Methods

## GetField(String)

Searches for the field with the specified **name**.

**C#**

```
public OpcDataField GetField(string name)
```

### Parameters

**name** String

The String containing the name of the data field to get.

### Returns

OpcDataField

An instance of the OpcDataField representing the field with the specified name, if found; otherwise a null reference (Nothing in Visual Basic).

### Remarks

The **name** specified is compared using Ordinal.

## GetFields()

Returns all the fields of the current OpcDataObject.

**C#**

```
public OpcDataField[] GetFields()
```

### Returns

OpcDataField[]

An array of OpcDataField objects representing all the fields defined for the current OpcDataObject or an empty array of type OpcDataField if no fields are defined for the current OpcDataObject.

## GetTypeInfo()

Gets the OpcDataTypeInfo of the current structured data type instance represented.

**C#**

```
public OpcDataTypeInfo GetTypeInfo()
```

## Returns

### OpcDataTypeInfo

The [OpcDataTypeInfo](#) of the current structured data type instance.

## HasField(String)

Determines whether the current [OpcDataObject](#) provides a [OpcDataField](#) with the [Name](#) equals to the [name](#) specified.

### C#

```
public bool HasField(string name)
```

## Parameters

[name](#) [String](#)

The [String](#) containing the name of the data field to test.

## Returns

[Boolean](#)

The value true if there exists a [OpcDataField](#) with the [name](#) specified; otherwise the value false.

## Remarks

The [name](#) specified is compared using [Ordinal](#).

## TryGetField(String, out OpcDataField)

Searches for the field associated with the [name](#) specified.

### C#

```
public bool TryGetField(string name, out OpcDataField field)
```

## Parameters

[name](#) [String](#)

The [String](#) containing the name of the data field to get.

[field](#) [OpcDataField](#)

The [OpcDataField](#) representing the field with the specified name, if found; otherwise a null reference (Nothing in Visual Basic).

## Returns

## Boolean

The value true if there exists a `OpcDataField` with the `name` specified (and `field` is set to that field); otherwise the value false.

## Remarks

The `name` specified is compared using `Ordinal`.

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