

StringArray Method Call

Tue, Mar 31, 2020 [Complex Method Calls](#)

StringArray Method Call

Table of Contents

- [StringArray Method Call](#)
 - [Code Example](#)
 - [Code example Operation](#)
 - [Explanation Code example Operation](#)
 - [Code example Form](#)
 - [Explanation Code example Form](#)
 - [Example of the result](#)

A StringArray Method Call is a Complex Method Call that returns a StringArray.

- See [Methods](#) for **explanations** of the basics and for Code **examples** and for the **declaration** of Method Calls.
See [How to use Method Calls](#) for general information on using Method Calls.
- Go to the complete list of all [Complex Method Calls](#)

Code Example

The example exists of an Operation and a Form. In the operation the Entity Collection(s) and Dataview(s) are defined. The definitions of Lists and Method Call(s) for composing the data, based on input from the user, are also defined in the Forms.

Code example Operation

```
protected override IForm CreateStartupForm() { return new StringArrayMethodCallDemoFrm(this); }
public IEntityCollection<StringArrayMethodCallDemoEntity> StringArray { get { return Property()
```

```

=> new VolatileTable("string array").Select<StringArrayMethodCallDemoEntity>().All()); }}public IDataView<StringArrayMethodCallDemoEntity> StringArrayView{ get { return Property(() => StringArray.ToView()); }}

```

Explanation Code example Operation

1. **Lines 1-4:** Definition of the Form (see code of the Form below).
2. **Lines 6-9:** Definition of a Volatile Table. We fill this in the Form (below).
3. **Lines 11-14:** Definition of the View, which is used to display the data in the Form.
4. **Lines 8 and 11:** The necessary StringArrayMethodCallDemoEntity is defined elsewhere. Type 'Volatile Table' in the Search box to read more about the working of the Volatile Table.
5. This StringArrayMethodCallDemoEntity is also used in the Form below, on line 14.

Note: In this example, a Volatile Table is used. It is also possible to make a StringArray based on a Database Table.

Code example Form

```

public StringArrayMethodCallDemoFrm(StringArrayMethodCallDemoOp
operation) : base(operation){}protected override IUElement Crea
teGui(){ return new VBox { new HBox {
new GroupBox("example",2, alignV:AlignV.Top) {
new DataGrid<StringArrayMethodCallDemoEntity>(Operation.S
tringArrayView, showColumnHeaders:false) {
e => e.Description } }
}, new HBox(alignH:AlignH.Fill) { new Butt
on(GetStringArray()), EmptySpace.FillH, new
Button(Close()) } };}private StringArray ComposeStringAr

```

```

ray(){    return Method<StringArray>(() => new Body    {
new Return(new StringArray("hello world","pizza","potato","apple
","pear"))    });}private IMethodCall GetStringArray(){    return
Method(() =>    {        var newArrayItem = Operation.StringArray
.CreateItemReference();        return new Body        {
Operation.StringArray.DeleteAll(),        ComposeStringArray(
).Foreach(arrayItem => new Body        {            newArr
arrayItem.Assign(Operation.StringArray.New()),            newArr
arrayItem.Description.Assign(arrayItem)        })        };    })
.SetWorkDescription("get string array")    .SetImage(WikiImages
.Directory)    .Call();}

```

Warning:

All Method Calls and Complex Method Calls **need** a new Return(). They are like C# functions that need a return type.

The exception is an IMethodCall. In C# this is like a void method.

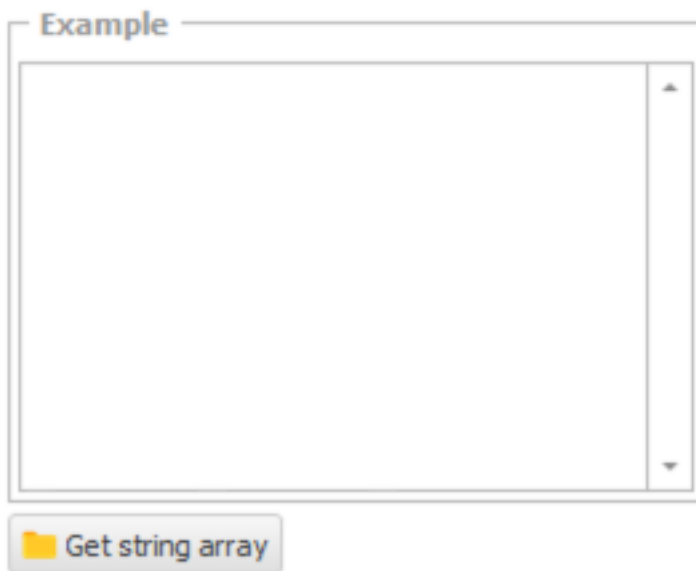
Explanation Code example Form

- **Lines 6-28:** The definition of the form.
- **Line 14:** The View, based on the Entity (see explanation 3 and 4 of the Operation), are passed to a DataGrid.
- **Lines 30-36:** This is a private property of the type StringArray. In it, the array is composed and returned (line 34). This StringArray was defined in the Operation as a Volatile Table.
- **Lines 38-57:** This MethodCall, named GetStringArray(), starts a new instance of StringArray on **line 42**.
- **Line 45:** any previous data is deleted.
- **Line 49:** Then a new list is created by looping through the StringArray (line 46) and assigning the values (line 49).

Example of the result

A form like the one defined above, could look like this.

When starting the application:



After clicking the button:



Online URL:

<https://wiki-ai-framework.abstract-it.nl/article/stringarray-method-call-438.html>

```
SyntaxHighlighter.config.stripBrs=true; SyntaxHighlighter.all();
```