

Extend Expressions using the API

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To extend expressions functionality using the API, you must write a .NET class. For example, the class below enables access to the *AppSettings* section in the configuration file.

```
using System.Configuration;

namespace SequenceEx.ExpressionExtensions
{
    public class ConfigurationManagerExpressionExtension
    {
        private static ConfigurationManagerExpressionExtension instance = new ConfigurationManagerExpressionExtension();
        //Used by the expression language to access type members (not required)...
        public static ConfigurationManagerExpressionExtension Instance
        {
            get
            {
                return instance;
            }
        }

        public string GetAppSetting(string key)
        {
            return ConfigurationManager.AppSettings[key];
        }
    }
}
```

Next, register the class in the application's configuration file.

```
<sectionGroup name="sequence.engine" type="PNMsoft.Sequence.Configuration.WorkflowEngineConfigurationSectionGroup, PNMsoft.Sequence, Version=7.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1">
    ...
    <section name="expressions" type="PNMsoft.Sequence.Configuration.ExpressionsConfigurationSection, PNMsoft.Sequence, Version=7.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1"/>

    <sequence.engine>
    ...
    <expressions>
    <extensions>
    <add name="config" type="SequenceEx.ExpressionExtensions.ConfigurationManagerExpressionExtension, SequenceEx.ExpressionExtensions, Version=1.0.0.0, Culture=neutral, PublicKeyToken=3b0897bc897d702d" />
    extensions>
    expressions>
```

You can now use an expression, such as `#config.GetAppSetting(YourAppSettingsKey)`