

Diplodock Password Generator 2009 Developer Quick Guide

Part I – Assembly

Diplodock Password Generation Engine is a Microsoft .NET Framework 2.0 assembly contained within file Engine.dll. It is strongly named and signed. Engine.xml is an additional file that contains descriptions of public classes, properties, methods, enums, and events contained in Engine.dll.

To use this assembly, your computer needs to have Microsoft .NET Framework 2.0 installed.

Part II – Getting Started

To be able to use Diplodock Password Generation Engine in your application, you need to add reference to Engine.dll file.

Once you have added a reference to your project, you need to instantiate the Engine class as follows:

```
'Create an instance of Password Generation Engine
Dim MyEngine As New Engine
```

The next step is to configure various aspects of password generation. Note this is entirely optional step, and you can skip it.

Part III – Generating Passwords

Prior to calling generation methods you are only required to instantiate Engine class. Like noted above, an optional step is to configure various classes that will be used in generation process.

```
'Create an instance of Password Generation Engine
Dim MyEngine As New Engine
'Configure some options
MyEngine.AdvancedModeOptions.GroupOrder = "(lu)ns"
'Now we are ready to generate passwords. In the example below we are
generating passwords in Advanced Generation Mode.
'Generate passwords on the same thread (synchronously). This is a
blocking call!
Dim pwArray As String() = MyEngine.GenerateAdvanced(1000)
'Generate passwords on a different thread (asynchronously). This is a
non-blocking call!
Dim MyCallBack As New AsyncGenerationFinishedCallBack(AddressOf
GenerationFinished) 'Define a delegate sub that will be called once generation
is completed. In this case you are expected to have a sub called
GenerationFinished(ByRef Passwords As String()) somewhere in your code!
MyEngine.GenerateAdvancedAsync(1000, MyCallBack,
Threading.ThreadPriority.AboveNormal) 'Generate passwords asynchronously
```

In this case, you just redefined Engine.AdvancedModeOptions.GroupOrder property, and all other properties were not modified. For the properties that were not modified, default values will be used by Password Generation Engine.