

System.Configuration reading and writing custom section

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Hi Everyone,

I really hope someone can help me.

I've been using the microsoft enterprise library since version 1 and I'm now in the process of moving my project to VS 2005 and the latest enterprise library.

In my project I use the configuration block from enterprise library. So now I want to move to the configuration class that is in .NET 2.0

I don't know how to read and write my config data with the config structure that I'm using.

Below is my config structure and class information that works when I'm using the configuration block of enterprise library.

What do I need to change to be able to do this with the configuration class in .NET 2.0.

Currently the configuration data is in a seperate file but I dont care if it needs to be in the app.config file. Either way will work for me.

I would really appreciate the help.

Here is my galactrixConfiguration.config file:

```
<?xml version="1.0" encoding="utf-8"?>
<galactrixConfiguration>
<xmlSerializerSection type="Unison.Galactrix.Configuration.Settings,
Unison.Galactrix.Configuration, Version=1.5.0.3, Culture=neutral,
PublicKeyToken=null">
<Settings xmlns:xsd="http://www.w3.org/2001/XMLSchema
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<Reporter>
<SystemId>0</SystemId>
<ContentType />
<Debug>true</Debug>
<Schedule>60</Schedule>
```

System.Configuration reading and writing custom section

```
<ReportsPath>D:\Projects\Galatrix\GalatrixSln\Reporter\bin\Debug\temp</ReportsPath>
</Reporter>
<Global>
<MsdeCap>64</MsdeCap>
<License>D:\Projects\Galatrix\GalatrixSln\gx_with_sms_with_hum.lic</License>
<ReportsPath>D:\Source\D-Code\Galatrix\v100\Reports</ReportsPath>
</Global>
<Mail>
<SMTPAddress></SMTPAddress>
<SMTPPassword></SMTPPassword>
<SMTPPort>25</SMTPPort>
<SMTPSender>Galatrix System</SMTPSender>
<SMTPServer></SMTPServer>
<SMTPUser></SMTPUser>
</Mail>
<File>
<FaxServerAccountLog>C:\Galatrix\UniFax\Log</FaxServerAccountLog>
<Messages>\\servkomone\msgs</Messages>
<SysMsg>c:\Galatrix\SYSMMSG.raw</SysMsg>
</File>
<UmsLine>
<ConfigId>0</ConfigId>
</UmsLine>
<Web>
<CommandTimeout>240</CommandTimeout>
<TempDirectory>TempDir</TempDirectory>
</Web>
<Logger>
<RecordDirectory>C:\Galatrix\rec</RecordDirectory>
<PlayDirectory>C:\Galatrix\play</PlayDirectory>
<ExtractDirectory>C:\Galatrix\extract</ExtractDirectory>
</Logger>
</Settings>
</xmlSerializerSection>
</galatrixConfiguration>
```

This is what my main class looks like:

```
#region ... Using ...
```

```
using System;
```

```
using System.ComponentModel;
```

```
using System.Configuration;
```

```
using System.IO;
```

```
using System.Text;
```

```
using System.Web;
```

```
using System.Windows.Forms;
```

```
using Nini.Config;
```

```
#endregion
```

System.Configuration reading and writing custom section

```
namespace Unison.Galatrix.Configuration
{
  /// <summary>
  /// Summary description for GalatrixSettings.
  /// </summary>
  [Serializable]
  public class Settings
  {
    public const string SectionName = "galatrixConfiguration";
    //public const string ConfigurationNamespace =
    "http://www.microsoft.com/practices/enterpriselibrary/08-31-2004/data;

    #region ... Private Properties ...

    private GlobalSettings global;
    private ReporterSettings reporter;
    private MailSettings mail;
    private FileSettings file;
    private WebSettings web;
    private LoggerSettings logger;
    private UmsLineSettings umsLine;

    #endregion

    #region ... Constructor ...

    public Settings()
    {
      reporter = new ReporterSettings();
      mail = new MailSettings();
      global = new GlobalSettings();
      file = new FileSettings();
      web = new WebSettings();
      logger = new LoggerSettings();
      umsLine = new UmsLineSettings();
    }

    #endregion

    #region ... Public Properties ...

    [Category("General")]
    public ReporterSettings Reporter
    {
      get { return reporter; }
      set { reporter = value; }
    }

    [Category("General")]
    public GlobalSettings Global
```

System.Configuration reading and writing custom section

```
{  
get { return global; }  
set { global = value; }  
}  
  
[Category("General")]  
public MailSettings Mail  
{  
get { return mail; }  
set { mail = value; }  
}  
  
[Category("General")]  
public FileSettings File  
{  
get { return file; }  
set { file = value; }  
}  
  
[Category("General")]  
public UmsLineSettings UmsLine  
{  
get { return umsLine; }  
set { umsLine = value; }  
}  
  
[Category("General")]  
public WebSettings Web  
{  
get { return web; }  
set { web = value; }  
}  
  
[Category("General")]  
public LoggerSettings Logger  
{  
get { return logger; }  
set { logger = value; }  
}  
  
#endregion  
{  
}
```

For each of these properties in my Settings class I have a class for that property like:

#region ... Using ...

using System;
using System.ComponentModel;

```
#endregion  
  
namespace Unison.Galatrix.Configuration  
{  
/// <summary>  
/// Summary description for MailSettings.  
/// </summary>  
[Serializable, TypeConverter(typeof(ExpandableObjectConverter))]  
public class MailSettings  
{  
#region ... Constructor ...  
  
public MailSettings()  
{  
    sMTPPort = 25;  
}  
  
#endregion  
  
#region ... Private Properties ...  
  
private string sMTPServer;  
private int sMTPPort;  
private string sMTPSender;  
private string sMTPUser;  
private string sMTPPassword;  
private string sMTPAddress;  
  
#endregion  
  
#region ... Public Properties ...  
  
public string SMTPAddress  
{  
    get { return sMTPAddress; }  
    set { sMTPAddress = value; }  
}  
  
public string SMTPPassword  
{  
    get { return sMTPPassword; }  
    set { sMTPPassword = value; }  
}  
  
public int SMTPPort  
{  
    get { return sMTPPort; }  
    set { sMTPPort = value; }  
}
```

System.Configuration reading and writing custom section

```
public string SMTPSender  
↓  
get { return sSMTPSender; }  
set { sSMTPSender = value; }  
↓
```

```
public string SMTPServer  
↓  
get { return sSMTPServer; }  
set { sSMTPServer = value; }  
↓
```

```
public string SMTPUser  
↓  
get { return sSMTPUser; }  
set { sSMTPUser = value; }  
↓
```

```
#endregion  
↓  
↓
```

Regards,
Martin Venter

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