# ContextConfig C# Library

This C# library allows you to set configuration values dependent upon which web server environment the code is currently running. Environments are defined using the hostname (url) from which the page is operating using a basic XML config file. Multiple hostnames can be set for each environment. You can also add an optional "catch-all" wildcard domain indicating which environment should be assumed if the current domain doesn't match any that have been predefined.

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### **Getting Started**

The only files needed to use this library in your .Net website are the compiled .dlls and an XML configuration file.

\*Note\* There is a dependency on the "System.Configuration" namespace. A copy of this .dll has been included in case you need it.

- 1. Copy the files from the desired Version folder in the "Release" folder to your site.
- 2. The XML config file can either be located in a root-level folder named "config" or it can be placed at the website root.
- 3. Customize the provided .config file as described below.
- 4. Reference "HLF.ContextConfig" in your code where you want to utilize configuration values.

# Configuration

The example .config file should give you a good idea about how to add you own data, but here is a brief explanation of the different parts.

```
<ContextConfig version="1.1" OverrideConfigurationManager="true">
```

The "version" attribute isn't really used by the code right now, so you can set this to whatever data you'd like or just use it for your own reference (for instance, updating it whenever you update the data in the config file).

The "OverrideConfigurationManager" option specifies whether or not you want to utilize ContextConfig data to override values specified in the web.config (if the appkeys match) when using the ConfigurationManager.AppSettings["key"] command. (See the "Override Configuration Manager" Mode section, below, for more information.)

```
<!-- Add a line for each domain you plan on having-->
<Domains>
<Domain url="mysite.local" environment="local" sitename="MySite"/>
<Domain url="localhost:52426" environment="local" sitename="MySite"/>
<Domain url="mysite.dev " environment="dev" sitename="MySite"/>
<Domain url="mysite-stage.com" environment="staging" sitename="MySite"/>
<Domain url="mysite.com" environment="live" sitename="MySite"/>
<Domain url="*" environment="live" sitename="MySite"/><!-- handles any additional domains, delete if you'd prefer that an error be raised -->
</Domains>
```

Define all your domains with their hostnames and a string labelling the environment they belong to. You can use any text to represent the different environments – just be sure you have matching <Environment> elements defined. You can have multiple domains with the same environment defined. You can even use Visual Studio "localhost:port" format.

You can also include a wildcard domain ("\*") which will match any other domains which haven't been specifically defined. If you exclude the wildcard, and a non-defined domain is used to lookup a config value, an exception will be thrown – which might be the desired behavior to alert you to a non-configured domain.

There is an optional attribute, "sitename", which you can use as well. Site names do not need to be unique or match up with environments in any way. It's more of an additional marker for your own use in code.

```
<Environments>
   <!-- The "default" Environment holds default values, to be used if there isn't a specific value specified for an
environment -->
    <Environment name="default">
     <Confias>
      <add key="MyAppKey" value="Default Value"/>
      <add key="LiveOnlyAppKey" value="Default for all env other than live"/>
     </Configs>
    </Environment>
    <Environment name="local">
     <Configs>
      <add key="MyAppKey" value="Value for Local"/>
     </Confias>
    </Environment>
    <Environment name="dev">
     <Configs>
      <add key="MyAppKey" value="Value for Dev"/>
     </Confias>
    </Environment>
    <Environment name="staging">
      <add key="MyAppKey" value="Value for Staging"/>
     </Configs>
    </Environment>
    <Environment name="live">
     <Configs>
      <add key="MyAppKey" value="Value for Live"/>
      <add key="LiveOnlyAppKey" value="Live-specific Value"/>
     </Configs>
    </Environment>
  </Environments>
```

Each Environment should be configured with a name which matches those used by the Domains defined above. In addition, if you create an Environment with the name "default", those values will be used in the event of an individual environment not having a value defined for a given key. If, when looking up a config value, the key cannot be matched, either for the environment explicitly or via a default value, an exception will be thrown.

# Code Usage

There are two ways to access the configuration data – the simplest is using the functions library in the 'ContextConfig' static class, which will handle lookup values and automatically take into consideration defaults and wildcards while doing so. There are also some useful helpers – to check whether data has been configured, etc.

You can also access all the configuration data directly if you want to create your own logic and flow. Use the 'ConfigSettings' class which has properties and elements representing configured domains, environments, and key/value pairs. (See the *API Reference* section for all the details.)

#### "Override Configuration Manager" Mode

When enabled, any calls to ConfigurationManager.AppSettings["key"] will utilize ContextConfig data as follows:

- 1. If there is a value specified for the key for the current environment, it will be used.
- 2. If there is no matching value for this environment, but there is a default value, the specified default value will be used.
- 3. If there is no record of the key in the ContextConfig.config file, it will use the value specified in the web.config <appSettings> section.
- 4. If there is no matching key in the web.config, an empty string will be returned, as usual.

To enable "Override Configuration Manager" mode, a call needs to be made at application start to "ContextConfigOverride.ActivateOverride()."

An HttpModule class has been included, so the call can be made in a web application by simply registering the HttpModule in the application's web.config and setting the ContextConfig.config "OverrideConfigurationManager" attribute to "true".

#### Web.config example:

```
<configuration>
 <!-- For IIS6/Classic -->
 <system.web>
  <httpModules>
    <add name="ContextConfigOverrideModule" type="HLF.ContextConfig.ContextConfigOverrideModule,
HLF.ContextConfig" />
  </httpModules>
 </system.web>
 <!-- For IIS7+/Integrated -->
 <system.webServer>
  <modules>
    <add name="ContextConfigOverrideModule" type="HLF.ContextConfig.ContextConfigOverrideModule,"
HLF.ContextConfig" />
  </modules>
 </system.webServer>
</configuration>
Alternately, a call in the Global.asax "Application_Start()" section can be used:
public class Global: System.Web.HttpApplication
     protected void Application_Start(object sender, EventArgs e)
        //Uses ContextConfig value
       HLF.ContextConfig.ContextConfigOverride.ActivateOverride();
       //Uses provided value
       HLF.ContextConfig.ContextConfigOverride.ActivateOverride(true);
     }
}
```

If you make the call to ActivateOverride() with no parameters provided, the value from the ContextConfig.config "OverrideConfigurationManager" attribute will be used (true=enable, false=disable). Otherwise, you can provide a value of true or false directly, and the config value will be ignored.

#### Examples

If you are using the "Override Configuration Manager" Mode described above, you can just use the standard "ConfigurationManager.AppSettings["key"]" code to get your config values, and when present, the ContextConfig values will be used. If you don't want to override default ConfigurationManager functionality, and/or would like to utilize some of the additional functionality included in the ContextConfig class, these examples, which have been taken from the "TestSite" project included with the source code, will be helpful.

First, reference the namespace with a using statement:

using HLF.ContextConfig;

```
Examples of Lookup Functions
string CurrentDomainHost= ContextConfig.CurrentDomain;
bool CurrentDomainIsConfiged = ContextConfig.DomainIsConfigured();
bool SpecifiedDomainIsConfiged = ContextConfig.DomainIsConfigured("xyz.com");
bool SpecifiedDomainIsConfigedExplicity = ContextConfig.DomainIsConfigured("xyz.com", false);
string CurrentEnvironment = ContextConfig.DomainEnvironmentName();
string SpecifiedDomainEnvironment = ContextConfig.DomainEnvironmentName("xyz.com");
string CurrentDomainSiteName = ContextConfig.DomainSiteName();
string SpecifiedDomainSiteName = ContextConfig.DomainSiteName("xyz.com");
bool CurrentEnvIsConfiged = ContextConfig.EnvironmentIsConfigured();
bool SpecifiedEnvIsConfiged = ContextConfig.EnvironmentIsConfigured("testing");
bool SpecifiedEnvIsConfigedExplicity = ContextConfig.EnvironmentIsConfigured("testing", false);
string GetValueForSpecifiedKeyForCurrentEnv = ContextConfig.GetValue("MyAppKey");
string GetValueForSpecifiedKeyForSpecifiedEnv= ContextConfig.GetValue("LiveOnlyAppKey", "live");
string GetValueForSpecifiedKeyForSpecifiedEnvDefault =
ContextConfig.GetValue("LiveOnlyAppKey","dev");
try
{
    string ValueForNonExistentKey = ContextConfig.GetValue("KeyThatDoesntExist"); //Here we throw
an error
catch (Exception Ex)
    Response.Write(string.Format("ERROR: {0} : {1}", Ex.GetType().ToString(), Ex.Message));
}
Examples of Raw Data Functions
string Version = ConfigSettings.Settings.Version;
int DomainsCount = ConfigSettings.Settings.Domains.Count;
int d = 0:
foreach (DomainElement Domain in ConfigSettings.Settings.Domains)
    Response.Write(string.Format("Domain \{0\} : \{1\} = \{2\} (\{3\}) <br/>", d, Domain.Url,
Domain.Environment, Domain.SiteName));
    d++;
int EnvironmentsCount = ConfigSettings.Settings.Environments.Count;
int e = 0;
```

#### **Use Cases**

The obvious use for ContextConfig is to manage variables which differ depending on what environment the site is running on. For instance, api keys for 3<sup>rd</sup> party services which have "dev" and "production" versions available. It can also be used in your own code logic to test for the environment and perform different operations – for instance, logging additional debug data, or skipping or requiring authentication based on the current environment.

Another possible use case would be to manage multiple websites inside one code base (as is common in Umbraco CMS sites). Rather than using the common paradigm of "dev/staging/live" environments, you could define, for instance, "US/UK/CANADA" "environments", etc. Since the quantity of environments is not limited, you could even use a combination such as "US-dev/US-live/UK-dev/UK-live". Just make sure that each variant you want to use is defined as a separate environment.

#### **API** Reference

\*Note\* In the interest of brevity, I have left out of this reference many of the inherited elements from the System.Configuration class.

#### HLF.ContextConfig Namespace

This namespace contains both the "raw" access to the configuration data elements, as well as the static functions which can easily be used to intelligently grab config values for use in code.

Assembly: HLF.ContextConfig (in HLF.ContextConfig.dll) Version: 1.0.0.0 (1.0.0.0)

ContextConfig has been compiled against ASP.Net v. 4.5

#### Classes

| Class            | Description  |
|------------------|--|
| ♦ ConfigSettings | The 'ConfigSettings' class give you direct access to all the configured data using collections and dot(.) notation.  |
|                  | *Note: you will need to explicitly declare objects of the element types in order to use their properties.  example: foreach (DomainElement Domain in Configsettings.Settings.Domains) {     string EnvironmentName = Domain.Environment; } |

| <b>₽</b> \$  | ContextConfig                | The 'ContextConfig' static class includes useful functions to test and return data about domains, environments, and configured key/value pairs.  |
|--------------|------------------------------|--|
| <b>₽</b> \$  | ContextConfigOverride        | Handles overriding standard<br>'ConfigurationManager.AppSettings["key"]' operations  |
| <b>₹</b> \$  | ContextConfigOverrideModule  | HttpModule to run 'ContextConfigOverride.ActivateOverride()' Register in Web.config file: <add name="ContextConfigOverrideModule" type="HLF.ContextConfig.ContextConfigOverrideModule, HLF.ContextConfig"></add> IIS6 or Classic Mode - place in <system.web><httpmodules> section IIS7+ or Integrated Mode - place in <system.webserver><modules> section</modules></system.webserver></httpmodules></system.web> |
| <b>P</b> \$  | DomainElement                | Represents a Domain from the config file   |
| <b>₽</b> \$  | DomainElementCollection      | Represents all the Domains defined in the config file  |
| <b>4</b> 3   | EnvironmentElement           | Represents a defined Environment from the config file  |
| <b>₽</b> \$  | EnvironmentElementCollection | Represents all the Environments defined in the config file   |
| <b>₽</b> \$  | KeyValueElement              | Represents a Key/Value pair defined for an environment in the config file  |
| <b>P</b> (\$ | KeyValueElementCollection    | Represents all the Key/Value pair elements defined in the config file  |

# ContextConfig Class

The 'ContextConfig' static class includes useful functions to test and return data about domains, environments, and configured key/value pairs.

# Inheritance Hierarchy

System.Object

HLF.ContextConfig.ContextConfig

#### Methods

|           | Name                                   | Description   |
|-----------|--|---|
| <b>=♦</b> | AllEnvironmentConfigs(Boolean)         | Get all the KeyValue elements for the current Environment  Parameters  • IncludeDefaults (Optional true) (Type: System.Boolean)  : Include all 'default' KeyValue configs for keys not  specifically defined for the environment.  Return Value  Type: List <keyvalueelement></keyvalueelement> |
| S         | AllEnvironmentConfigs(String, Boolean) | Get all the KeyValue elements for the current Environment  Parameters  • EnvironmentName (Type: System.String): Environment to get values from  • IncludeDefaults (Optional true) (Type: System.Boolean)  |

|                 |  | : Include all 'default' KeyValue configs for keys not specifically defined for the environment.  Return Value  Type: List (KeyValue Flement)  |
|-----------------|--|---|
| ≡ŵ<br>S         | DomainEnvironmentName()                | Type: List <keyvalueelement>  Get the Environment name for the current domain  Return Value  Type: String</keyvalueelement>   |
| ≡ŵ<br>S         | DomainEnvironmentName(String)          | Get the Environment name for the provided domain url  Parameters  • DomainUrl (Type: System.String): Url to lookup  Return Value  Type: String  |
| S               | DomainIsConfigured(Boolean)            | Check whether the current domain exists in the Domains list  *Parameters  *AcceptWildcard (Optional true) (Type: System.Boolean)  : If there is a wildcard (*) domain specified, return  true? (Choose false to explicitly search for this url)  *Return Value*  Type: Boolean                                      |
| ≡ <b>Q</b><br>S | DomainIsConfigured(String,<br>Boolean) | Check whether the URL exists in the Domains list  Parameters  • DomainUrl (Type: System.String): Url to lookup  • AcceptWildcard (Optional true) (Type: System.Boolean)  : If there is a wildcard (*) domain specified, return  true? (Choose false to explicitly search for this url)  Return Value  Type: Boolean |
| ≡ŵ<br>S         | DomainSiteName()                       | Get the Site Name for the current domain  *Return Value  Type: String   |
| S               | DomainSiteName(String)                 | Get the Site Name for the provided domain url  Parameters  • DomainUrl (Type: System.String): Url to lookup  Return Value  Type: String   |
| S               | EnvironmentIsConfigured(Boolean)       | Check whether the current environment exists in the Environments list  Parameters  • AcceptDefault (Optional true) (Type: System.Boolean):  If there is a "default" domain specified, return true?  (Choose false to explicitly search for this environment)  Return Value  Type: Boolean                           |

| ≡ <b>⋄</b><br>S | EnvironmentIsConfigured(String, Boolean) | Check whether the current environment exists in the Environments list  *Parameters  • EnvironmentName(Type: System.String): Name to lookup  • AcceptDefault (Optional true) (Type: System.Boolean): If there is a "default" domain specified, return true? (Choose false to explicitly search for this environment)  *Return Value*  Type: Boolean |
|-----------------|--|--|
| ≡ <b>◊</b><br>S | GetValue(String)                         | Get the value for a given key on the current domain  Parameters  • ConfigKey (Type: System.String): Key name  Return Value  Type: String   |
| ≡ <b>◊</b><br>S | GetValue(String, String)                 | Get the value when providing a key and environment name  Parameters  • ConfigKey (Type: System.String): Key name  • EnvironmentName (Type: System.String): Environment name  Return Value  Type: String  |

#### Fields

|    | Name          | Description               |
|----|---------------|---------------------------|
| øs | CurrentDomain | Current active domain url |
|    |               | Type: String              |

# ConfigSettings Class

The 'ConfigSettings' class give you direct access to all the configured data using collections and dot(.) notation.

\*Note: you will need to explicitly declare objects of the element types in order to use their properties.

#### example:

```
foreach (DomainElement Domain in ConfigSettings.Settings.Domains)
{
    string EnvironmentName = Domain.Environment;
}
```

Inheritance Hierarchy

System.Object

<u>System.Configuration.ConfigurationElement</u> <u>System.Configuration.ConfigurationSection</u>

# HLF.ContextConfig.ConfigSettings

#### Constructors

|    | Name           | Description   |
|----|----------------|---|
| =6 | ConfigSettings | Initializes a new instance of the <b>ConfigSettings</b> class |

#### Fields

|            | Name     | Description                       |
|------------|----------|-----------------------------------|
| <b>₽ S</b> | Settings | Represents all the ConfigSettings |

# Properties

| Name                           | Description  |
|--------------------------------|--|
| Domains                        | <pre><contextconfig> <domains> collection Property Value Type: DomainElementCollection</domains></contextconfig></pre>   |
| Environments                   | <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre>ContextConfig&gt; <environments> collection </environments></pre> <pre>Property Value </pre> Type: EnvironmentElementCollection |
| Override Configuration Manager | <contextconfig> 'OverrideConfigurationManager' attribute  Property Value  Type: String-TODO</contextconfig>  |
| Version                        | <contextconfig> 'version' attribute  Property Value  Type: String</contextconfig>  |

#### DomainElementCollection Class

Represents all the Domains defined in the config file

Inheritance Hierarchy

System.Object

System.Configuration.ConfigurationElement

 $\underline{System.Configuration.ConfigurationElementCollection}$ 

HLF. Context Config. Domain Element Collection

#### Constructors

|          | Name                    | Description  |
|----------|-------------------------|--|
| <b>≡</b> | DomainElementCollection | Initializes a new instance of the <b>DomainElementCollection</b> class |

# Properties

| Name           | Description   |
|----------------|---|
| CollectionType | Gets the type of the ConfigurationElementCollection. (Overrides   |
|                | ConfigurationElementCollection.CollectionType.)                   |
|                | Return Value  |
|                | Type: ConfigurationElementCollectionType                          |
|                | The <u>ConfigurationElementCollectionType</u> of this collection. |
| Item(Int32)    | Parameters  |
|                | Index (Type: System.Int32)  |
|                | Property Value  |
|                | Type: DomainElement   |
| Item(String)   | Parameters  |
|                | url (Type: <u>System.String</u> )                                 |
|                | Property Value  |
|                | Type: DomainElement   |

### DomainElement Class

Represents a Domain from the config file

Inheritance Hierarchy

System.Object

System.Configuration.ConfigurationElement

HLF.ContextConfig.DomainElement

#### Constructors

|   |   | Name          | Description  |
|---|---|---------------|--|
| - | • | DomainElement | Initializes a new instance of the <b>DomainElement</b> class |

# Properties

| Name        | Description                               |
|-------------|---|
| Environment | <domain> 'environment' attribute</domain> |
|             | Property Value                            |
|             | Type: <u>String</u>                       |
| SiteName    | <domain> 'sitename' attribute</domain>    |
|             | Property Value                            |
|             | Type: <u>String</u>                       |
| Url         | <domain> 'url' attribute</domain>         |
|             | Property Value                            |
|             | Type: String                              |

#### EnvironmentElementCollection Class

Represents all the Environments defined in the config file

Inheritance Hierarchy

System.Object

System.Configuration.ConfigurationElement

System.Configuration.ConfigurationElementCollection

HLF. Context Config. Environment Element Collection

#### Constructors

| Name            | Description                  |   |
|-----------------|------------------------------|---|
| EnvironmentElem | nentCollection Initializes a | new instance of the <b>EnvironmentElementCollection</b> class |

#### **Properties**

| Name           | Description   |  |
|----------------|---|--|
| CollectionType | Gets the type of the ConfigurationElementCollection. (Overrides   |  |
|                | ConfigurationElementCollection.CollectionType.)                   |  |
|                | Return Value  |  |
|                | Type: ConfigurationElementCollectionType                          |  |
|                | The <u>ConfigurationElementCollectionType</u> of this collection. |  |
| Item(Int32)    | Parameters  |  |
|                | <ul> <li>Index (Type: <u>System.Int32</u>)</li> </ul>             |  |
|                | Property Value  |  |
|                | Type: EnvironmentElement  |  |
| Item(String)   | Parameters  |  |
|                | <ul> <li>name (Type: <u>System.String</u>)</li> </ul>             |  |
|                | Property Value  |  |
|                | Type: EnvironmentElement  |  |

#### **EnvironmentElement Class**

Represents a defined Environment from the config file

Inheritance Hierarchy

System.Object

System.Configuration.ConfigurationElement

HLF.ContextConfig.EnvironmentElement

#### Constructors

|          | Name               | Description   |
|----------|--------------------|---|
| <b>=</b> | EnvironmentElement | Initializes a new instance of the <b>EnvironmentElement</b> class |

#### **Properties**

| Name    | Description  |  |
|---------|--|--|
| Configs | <environment> <configs> (key/values) collection  Property Value  Type: KeyValueElementCollection</configs></environment> |  |
| Name    | <environment> 'name' attribute  Property Value  Type: String</environment>   |  |

### KeyValueElementCollection Class

Represents all the Key/Value pair elements defined in the config file

Inheritance Hierarchy

System.Object

System.Configuration.ConfigurationElement

<u>System.Configuration.ConfigurationElementCollection</u>

HLF. Context Config. Key Value Element Collection

#### Constructors

|   | Name                      | Description  |
|---|---------------------------|--|
| = | KeyValueElementCollection | Initializes a new instance of the <b>KeyValueElementCollection</b> class |

#### **Properties**

| Name           | Description  |
|----------------|--|
| CollectionType | Gets the type of the ConfigurationElementCollection. (Overrides ConfigurationElementCollection.CollectionType.)  Return Value  Type: ConfigurationElementCollectionType The ConfigurationElementCollectionType of this collection. |
| Item(Int32)    | Parameters  • Index (Type: System.Int32)  Property Value  Type: EnvironmentElement   |
| Item(String)   | Parameters  • key (Type: System.String)  Property Value  Type: EnvironmentElement  |

# KeyValueElement Class

Represents a Key/Value pair defined for an environment in the config file

#### Inheritance Hierarchy

#### System.Object

System.Configuration.ConfigurationElement

HLF. Context Config. Key Value Element

#### Constructors

|          | Name            | Description  |
|----------|-----------------|--|
| <b>≡</b> | KeyValueElement | Initializes a new instance of the <b>KeyValueElement</b> class |

# **Properties**

| Name  | Description  |  |
|-------|--|--|
| Key   | <environment> <add> 'key' attribute  Property Value  Type: String</add></environment>  |  |
| Value | <environment> <add>'value' attribute  Property Value  Type: String</add></environment> |  |

# ContextConfigOverride Class

Handles overriding standard 'ConfigurationManager.AppSettings["key"]' operations

#### Inheritance Hierarchy

#### System.Object

HLF. Context Config. Context Config Override

#### Methods

|           | Name                      | Description   |
|-----------|---------------------------|---|
| <b>≡◊</b> | ActivateOverride()        | Re-initializes the ConfigurationManager to utilize ContextConfig values when calling 'ConfigurationManager.AppSettings["key"]'  |
|           |                           | A call to this should be placed somewhere before config values are called, for instance, in App Start. Or use the 'ContextConfigOverrideModule' HttpModule for default handling |
|           |                           | **Will activate the override based on the value in ContextConfig.config**   |
| <b>=◊</b> | ActivateOverride(Boolean) | Re-initializes the ConfigurationManager to utilize ContextConfig values when calling 'ConfigurationManager.AppSettings["key"]'  |
|           |                           | A call to this should be placed somewhere before config values are called, for instance, in App Start. Or use the   |
|           |                           | 'ContextConfigOverrideModule' HttpModule for default handling   |
|           |                           | Parameters  |
|           |                           | • DoOverride (Type: <u>System.Boolean</u> ) : Should the override be  |

|  | activated? (False=no code will run) |
|--|-------------------------------------|
|  |                                     |

#### ContextConfigOverrideModule Class

HttpModule to run 'ContextConfigOverride.ActivateOverride()'

Register in Web.config file:

<add name="ContextConfigOverrideModule" type="HLF.ContextConfig.ContextConfigOverrideModule, HLF.ContextConfig" />

For IIS6 or Classic Mode - place in <system.web><httpModules> section

For IIS7+ or Integrated Mode - place in <system.webServer><modules> section

#### Inheritance Hierarchy

#### System.Object

HLF. Context Config. Context Config Override Module

#### Methods

|    |    | Name           | Description  |
|----|----|----------------|--|
| =( | •  | <u>Dispose</u> | Releases all resources used by the ContextConfigOverrideModule |
| =  | Ŷ. | <u>Init</u>    | Runs 'ActivateOverride()' on App Start                         |

# Version History

#### Current

#### Version 1.1

Version 1.1 was released on July 16, 2014.

#### Changes in This Release

Added "Override Configuration Manager" functionality

#### **Previous**

#### Version 1.0

Version 1.0 was released on July 3, 2014.

#### Changes in This Release

• Initial Release