

Custom Enterprise Library

1 Create Projects

Every application block needs two projects:

1. Design-time Configuration
 - The design-time configuration of any application block is always located in the application block's **Configuration.Design** project.
2. Run-time Configuration
 - The run-time configuration of any application block is located in the application block's project.

The Following references needs to be created according to project:

1. Design-time Project

Add the following references:

 - Microsoft.Practices.EnterpriseLibrary.Common.dll
 - Microsoft.Practices.EnterpriseLibrary.Configuration
 - Microsoft.Practices.EnterpriseLibrary.Configuration.Design
2. Run-time Project

Add the following references:

 - Microsoft.Practices.EnterpriseLibrary.Common.dll
 - Microsoft.Practices.EnterpriseLibrary.Configuration

1. **Configuration Design Manager**

- Configuration design manager provides the entry point to an application block's design-time configuration capabilities.
- Each application block must provide a configuration design manager by creating a class that implements the IConfigurationDesignManager interface.
- The Configuration Console discovers configuration design managers by examining the assembly attributes.
- The Configuration manager must create the commands and register the nodes.
- The configuration manager also provides the functionality for loading and saving of the Design-time configuration.

2 Reference Configuration Block

Factory

Configuration View

3 Create Run-Time

Configuration Class

Provider

Configuration Design Manager

Application Block

4 Create Design-Time

Configuration Node

1. **Configuration Node**

- Configuration Node inherits from the ConfigurationNode class.
- A configuration node allows one or more configuration settings to be displayed, modified, and validated at design time.
- The Configuration Application Block renames any node that supplies a name already used by a sibling node.
- When a configuration node is added the OnSited event is raised.
- In the OnSited method, the configuration node initializes its name by setting the value of the Site.
- Every configuration node has an associated context menu.
- Developers can add custom menu items to this submenu by overriding the OnAddMenuItems method and creating a menu item that executes the AddChildNodeCommand command. Menu items can be created either explicitly or dynamically.

1. **Configuration class** is used by the Design-Time and Run-Time component.
 - This class contains all the configuration items you want to store.
2. **Configuration view** derives from the abstract base class called ConfigurationView.
 - This class exposes the runtime configuration settings required by the application block's providers.
 - The Configuration Application Block passes this object to the Initialize method of each provider when it is created by its factory.
3. **Provider** implement the IConfigurationProvider interface.
 - The Configuration Application Block also includes the abstract base class ConfigurationProvider, which implements part of the IConfigurationProvider interface.
 - Providers must implement an Initialize method on the IConfigurationProvider interface.

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