This page is specific to

Microsoft Visual Studio 2010/.NET Framework 4

.NET Framework 4

**providers Element for sessionState (ASP.NET Settings Schema)**

Contains a collection of custom session-state store providers.

This element is new in the .NET Framework version 2.0.

[configuration Element (General Settings Schema)](http://msdn.microsoft.com/en-us/library/ms228147.aspx)  
[system.web Element (ASP.NET Settings Schema)](http://msdn.microsoft.com/en-us/library/dayb112d.aspx)  
[sessionState Element (ASP.NET Settings Schema)](http://msdn.microsoft.com/en-us/library/h6bb9cz9.aspx)  
[providers Element for sessionState (ASP.NET Settings Schema)](http://msdn.microsoft.com/en-us/library/ms164669.aspx)

<providers>

<add

/>

<remove />

<clear/>

</providers>

Description: http://i.msdn.microsoft.com/Global/Images/clear.gifAttributes and Elements

The following sections describe attributes, child elements, and parent elements.

**Attributes**

None.

**Child Elements**

|  |  |
| --- | --- |
| **Element** | **Description** |
| **Add** | Optional element.  Adds a provider to the collection of session-state store providers. |
| **clear** | Optional element.  Removes all references to inherited session-state store providers, allowing only the session-state store providers that are added by the current [add](http://msdn.microsoft.com/en-us/library/ms164670.aspx) element. |
| **Remove** | Optional element.  Removes a reference to an inherited session-state store provider from the collection. |

**Parent Elements**

|  |  |
| --- | --- |
| **Element** | **Description** |
| **configuration** | Specifies the required root element in every configuration file that is used by the common language runtime and the .NET Framework applications. |
| **system.web** | Specifies the root element for the ASP.NET configuration settings in a configuration file and contains configuration elements that configure ASP.NET Web applications and control how the applications behave. |
| **sessionState** | Configures session-state settings for the current application. |

Description: http://i.msdn.microsoft.com/Global/Images/clear.gifRemarks

The **providers** element contains a collection of custom session-state store providers. The custom session-state store provider must inherit from the [SessionStateStoreProviderBase](http://msdn.microsoft.com/en-us/library/system.web.sessionstate.sessionstatestoreproviderbase.aspx) class.

For information about accessing and modifying configuration values for the **sessionState** element in application code, see [ProviderSettingsCollection](http://msdn.microsoft.com/en-us/library/system.configuration.providersettingscollection.aspx) and [Providers](http://msdn.microsoft.com/en-us/library/system.web.configuration.sessionstatesection.providers.aspx).

**Default Configuration**

The following default **providers** element is not explicitly configured in the Machine.config file or in the root Web.config file. However, it is the default configuration that is returned by the application.

[Copy Code](javascript:CopyCode('ctl00_MTCS_main_ctl53_ctl00_ctl03_code');" \o "Copy Code)

<sessionState

<!-- Attribute settings. -->

>

<providers>

<clear />

</providers>

</sessionState>

Description: http://i.msdn.microsoft.com/Global/Images/clear.gifExample

The following code example shows how to configure the Web.config file for an ASP.NET application to use a custom session-state store provider. For information about implementing a session-state store provider, including a sample provider, see [Implementing a Session-State Store Provider](http://msdn.microsoft.com/en-us/library/ms178587.aspx).

[Copy Code](javascript:CopyCode('ctl00_MTCS_main_ctl54_ctl00_ctl01_code');" \o "Copy Code)

<configuration>

<connectionStrings>

<add name="OdbcSessionServices" connectionString="DSN=SessionState;" />

</connectionStrings>

<system.web>

<sessionState

cookieless="true"

regenerateExpiredSessionId="true"

mode="Custom"

customProvider="OdbcSessionProvider">

<providers>

<add name="OdbcSessionProvider"

type="Samples.AspNet.Session.OdbcSessionStateStore"

connectionStringName="OdbcSessionServices"

writeExceptionsToEventLog="false" />

</providers>

</sessionState>

</system.web>

</configuration>

Description: http://i.msdn.microsoft.com/Global/Images/clear.gifElement Information

|  |  |
| --- | --- |
| **Configuration section handler** | [SessionStateSection](http://msdn.microsoft.com/en-us/library/system.web.configuration.sessionstatesection.aspx) |
| **Configuration member** | [ProviderSettingsCollection](http://msdn.microsoft.com/en-us/library/system.configuration.providersettingscollection.aspx)  [Providers](http://msdn.microsoft.com/en-us/library/system.web.configuration.sessionstatesection.providers.aspx) |
| **Configurable locations** | Machine.config  Root-level Web.config  Application-level Web.config |
| **Requirements** | Microsoft Internet Information Services (IIS) version 5.0, 5.1, or 6.0  The .NET Framework version 2.0  Microsoft Visual Studio 2003 or Visual Studio 2005 |