

Syspace Membership Provider Reporter

What is the Syspace Membership Provider Reporter?

Membership Provider Reporter listens to login events and collects information about login attempts on a website that is using an ASP.NET Membership Provider to handle its login functionality. The information collected is sent, by using Syspace Web Detector Reporter, to the Syspace Web Detector. The Web Detector provides Syspace with login attempt information.

Membership Provider Reporter listens to login events by using [ASP.NET Health Monitoring](#). When a login attempt is made in Membership Provider, events are raised and with Health Monitoring we can choose to listen and react on specified events, such as login events. The specification on which events we want to listen and react on are coded in the projects web.config file.

When a login attempt is detected it will be displayed in the Syspace Access Log which can be found under Settings -> Access Log in Syspace.

To prevent other websites running on the same server from sending login reports a *Reporting Token* is used in Membership Provider Reporter. A reporting token is basically a password-like feature that is set in Syspace settings and that value needs to correspond with the reporting token sent by Membership Provider Reporter. Unless they match the login report is ignored in Syspace.

How to install and configure Syspace Membership Provider Reporter

The easiest way to install Membership Provider Reporter is to download it as a NuGet Package in Visual Studio's NuGet Package Manager. To do this follow these steps.

1. Right click the project/website that you wish to install Membership Provider Reporter in Visual Studio
2. Select the online tab in the NuGet Package Manager
3. Search for "Syspace Membership Provider Reporter"
4. Once you have found this package click Install
 - If you are using Visual Studio 2012 or later you may need to update to the latest version of NuGet. [Click here for latest version of NuGet](#)

As mentioned in *What is Syspace Membership Provider Reporter* code is required to be added to the projects web.config. If you install Membership Provider Reporter with Visual Studio's NuGet Package Manager the required code will be added automatically without altering any already existing code in the projects web.config. You will however be required to configure the Reporting Token value sent by Membership Provider Reporter. To do this follow the steps below

1. Open the web.config in the project that you installed Membership Provider Reporter on
2. In the `<appSettings>` element find this code:`<add key="SyspaceMembershipReportingToken" value="ENTER_YOUR_REPORTING_TOKEN"/>`
3. In value enter your current Reporting Token configured in Syspace settings

If you need to add the required code in the web.config manually follow the instruction below.

1. Open your web.config found in the website/project that you wish to install Membership Provider Reporter to
2. In the `<configuration>` element add the following code:

```
<appSettings>
```

```
<add key="SyspaceMembershipReportingToken" value="ENTER_YOUR_REPORTING_TOKEN"/>
</appSettings>
```

3. In the `<system.web>` element add the following code:

```
<healthMonitoring>
  <eventMappings>
    <add name="Failed Authentications"
type="System.Web.Management.WebFailureAuditEvent"/>
    <add name="Successful Authentications"
type="System.Web.Management.WebSuccessAuditEvent"/>
  </eventMappings>
  <providers>
    <add name="WebEvent"
type="Syspace.Membership.Reporter.SyspaceReportWebEventProvider"/>
  </providers>
  <rules>
    <add name="Failed Logins" eventName="Failed Authentications"
provider="WebEvent"/>
    <add name="Successful Logins" eventName="Successful Authentications"
provider="WebEvent"/>
  </rules>
</healthMonitoring>
```

How to use the Syspace Membership Provider Reporter

Since Membership Provider Reporter relies on event listeners to collect the relevant login data, unlike the Web Detector Reporter, no coding is required. After a successful installation of Membership Provider Reporter and configuration of the Reporting Token, Membership Provider Reporter is ready for use.

Using Membership Provider Reporter in custom Membership providers

If you are using a custom built Membership Provider and the Membership Provider Reporter is not sending any reports you might be missing the code that raises the failed/successful authentication events. Normally these events are raised when `ValidateUser` method (contained in `System.Web.Security.Membership` class) has determined if the login was successful or not. In order to raise these events manually you can implement an override of `ValidateUser` in your custom membership provider class and raise the events there. You will not be able to raise the already existing web authentication events because of their protection level so you need to create custom events for this purpose. See [this link](#) for more information about implementing and raising custom health monitoring events.

Because this method of implementing the Membership Provider Reporter is quite circumstantial using the Web Detector Reporter instead might be an easier alternative.