

Haihaisoft DRM-X 4.0 Customize Login Page Integration (ASP.net C# Guide)



Haihaisoft Limited

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Overview

After custom login page integration, your users just need to register and login on your own website. It will open your website's DRM window when the user opens your protected content.

For the integration, you need to create a new custom login page or modify your existed login page. It requires some code work. But don't worry, very simple.

All that you need to do is to call the **getLicenseRemoteToTableWithVersion** function. You can get the details about DRM-X 4.0 XML Web Service interface by the link below:

<http://4.drm-x.com/haihaisoftLicenseservice.asmx>

What necessary before integration?

1. DRM-X 4.0 Account

You need to have a DRM-X 4.0 Premier, Business or Enterprise before you can integrate with your platform. DRM-X 4.0 personal account users can manage its users on 4.drm-x.com instead.

Click the link below to see the DRM-X Account Comparison.

<http://www.drm-x.com/Fees-Compare-4.0.aspx>

2. User database, login page and register page.

You should setup a database that can store your users' information if you want to integrate with DRM-X 4.0 platform. You also need to create user custom login page for your users to login.

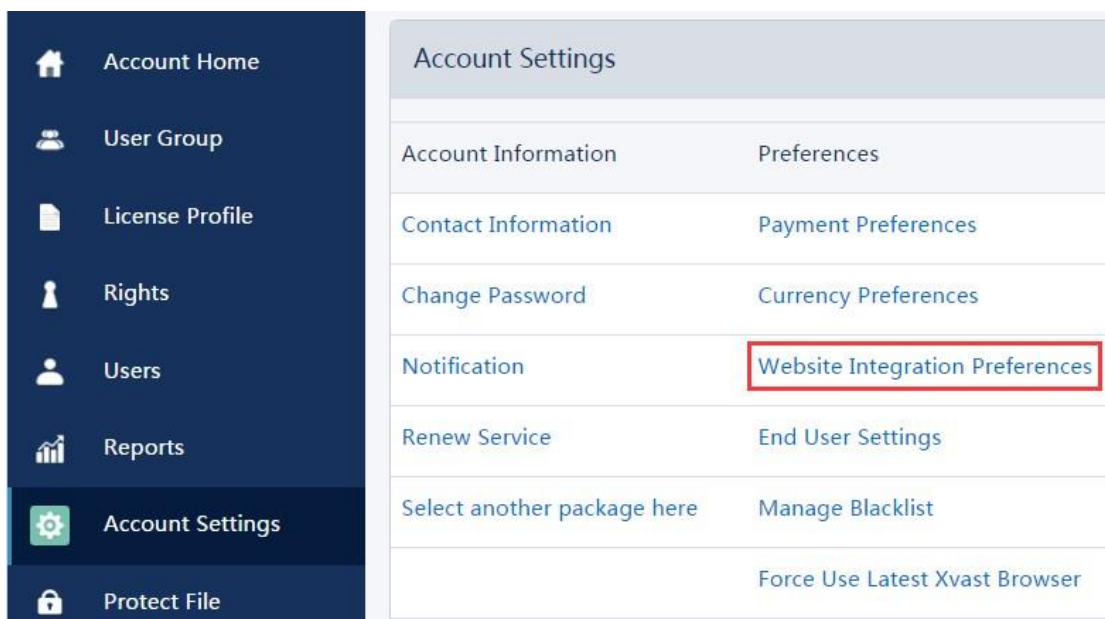
Parameter Introduction

The parameter in **blue color** is required field. You can set the others into 'N/A' (means empty) or enter the correct value.

- **AdminEmail**: your login Email of DRM-X Account.
- **WebServiceAuthStr**: the Web Service Authenticate String for DRM-X web service. The value you set here must be the same with the one on your DRM-X account.

Steps to setup:

1. Login your DRM-X account.
2. Click the **Account Settings** in the left panel and choose the **Website Integration Preferences**, as shown in the screenshot below:



3. Select **Custom login page integration** and, enter the **Web Service Authenticate String**. As shown in the screenshot

below:

Profile - Website Integration Preferences

Integration Method: [Integration Help](#)

Synchronize user integration
 Custom login page integration

Note: Synchronize user integration is synchronize your website users to DRM-X.com your user. We protect the password with strong encryption. It's secure and easy. (Recommend for most users)
 Custom login page integration is when user acquiring license, it will pop up your website DRM login window to acquire license. It requires you create a new DRM login page. It requires more code work. (Not Recommend, only for advanced users)

Please set a Web Service Authentication String for DRM-X web service (DRM-X need you provide this string to access DRM-X web service.)

123qwe

Please enter License URL(Must begin with http:// or https://) (License URL is the url used by pop window when acquiring license)

Submit Cancel

4. Click the **Submit** button below and you will get the message shown on the picture below:

You have updated Website Integration Preferences successfully.

Profile - Website Integration Preferences

Integration Method: [Integration Help](#)

Synchronize user integration
 Custom login page integration

- **GroupID:** the ID of your Group created in your DRM-X account. You can find GroupID value in Users Group of DRM-X Account.



Group ID	Group Name
10933	Basic Group(A sample group)

Note: in the code you just need to enter one Group ID, and the users signed up on your website will be added into group directly. You can manually change the group they belong to in your DRM-X account if you want.

- **UserLoginName**: the username or unique UserID in your user database.
- **UserFullName**: the Full Name of User. This parameter is option. You can leave this UserFullName parameter to blank, or just set it value to N/A.
- **ProfileID**: the ID of the profile you create on DRM-X. DRM-X provides this parameter.
- **ClientInfo**: the basic client information of your users. DRM-X provides this parameter.
- **RightsID**: the ID of rights that you created in your DRM-X Accounts. DRM-X provides this parameter.
- **IP**: address of your user which acquire license. You can provide this Parameter, or input N/A.
- **Platform**: the operating system of end user, DRM-X will return value: Windows 2000, Windows Server 2003, Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10 or Mac.
- **ContentType**: the type of protected content, DRM-X 4.0 will return Audio/Video or PDF.

- **yourproductid:** the ProductID in your system, please set it in License Profile.
- **Version:** Xvast browser version, DRM-X 4.0 provides this parameter.

Download Sample Pages

You can download the sample pages by clicking the link below:

https://www.drm-x.com/download/DRM-X_4.0_Integration/DRM-X_4.0_Custom_Login_Page_Integration_C.zip

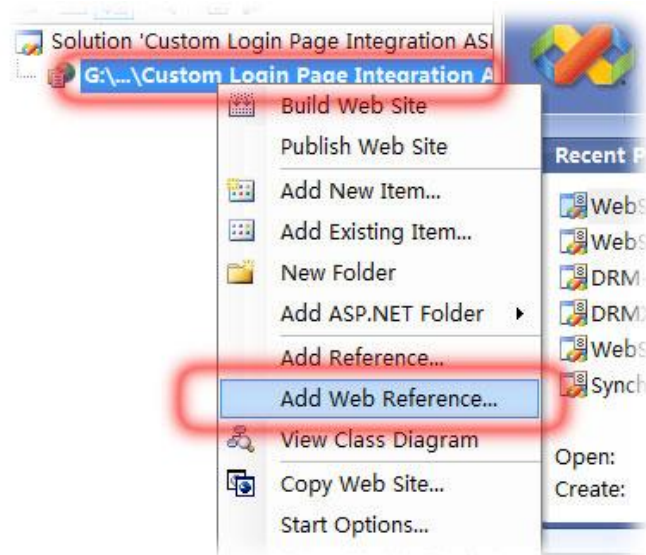
Step by Step Introduction

Step1. Add Web References

In Visual Studio.net, please Add Web References in Solution Explorer.

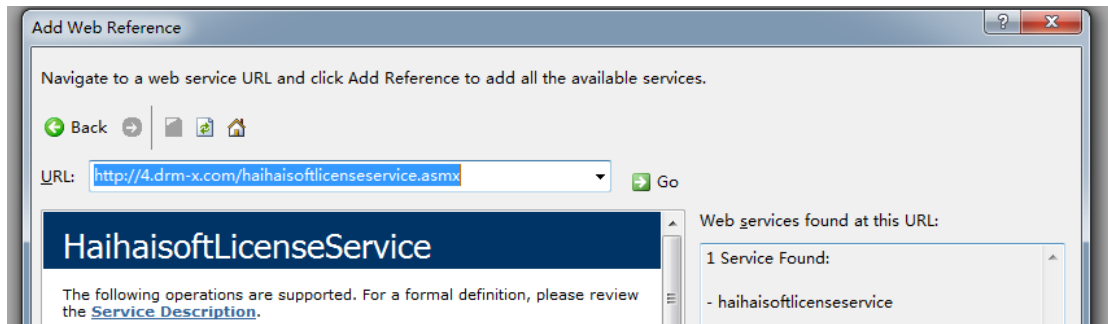
Steps to setup:

1. Right click on the **Solution** and choose the **Add Web References** in the dropdown list, shown as the screenshot below:

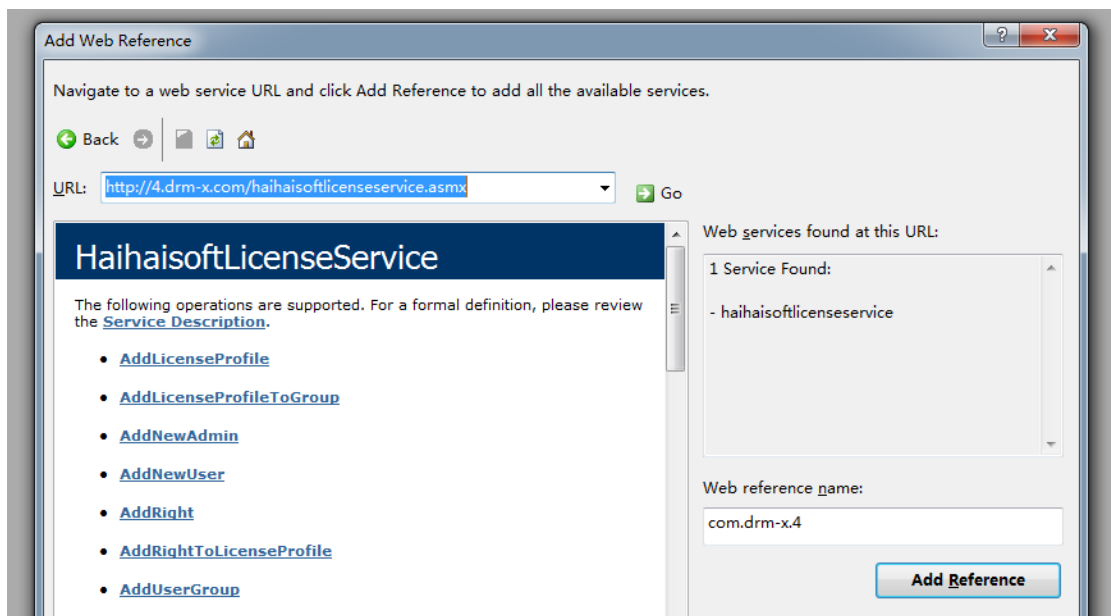


2. Input the URL of DRM-X XML Web Service:

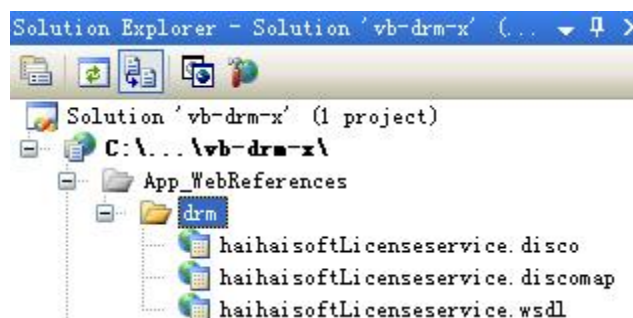
<http://4.drm-x.com/haihaisoftlicenseservice.asmx> and click the **Go** button at right. As shown below:



3. Rename the Web reference into **drm** and click the **Add References** button on the right.



4. Added successfully



Step2. create default.aspx or index.aspx

As usual, we use this page for storing the value of Profileid, clientinfo, Platform and ContentType which are passed from DRM-X when user open the protected files. In this tutorial, we use session to do the job. You can also use cookie instead. Below is the sample code:

```
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        Session["profileid"] = Request.Form["ProfileID"].ToString();
        Session["clientinfo"] = Request.Form["clientinfo"].ToString();
        Session["Platform "] = Request.Form["platform"].ToString();
        Session["ContentType "] = Request.Form["contenttype"].ToString();
        Session["Return_url"] = Request.Form["return_url"].ToString();

        Response.Redirect("login.aspx");
    }
}
```

Step3. Open your login.aspx

Sample code:

```
protected void Login2_Authenticate1(object sender, AuthenticateEventArgs e)
{
    if (Login2.UserName == "testuser" & Login2.Password == "test")
    {
        //Here is the sample code. In your code, you should read the username and
password from your database.
        //Authenticate Successfully!
        Response.Redirect("Licstore.aspx");
    }
    else
    {
        Response.Write("Password or Username is incorrect!");
    }
}
```

Step4. Create licstore.aspx

First, you should add the path or url of the encrypted file into the label 'title' in 'LicStore.aspx'.

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="LicStore.aspx.cs"
Inherits="LicStore" %>
<html xmlns="http://www.w3.org/1999/xhtml" >
<head runat="server">

    <title><%=Session["Return_url"]%></title>
</head>
<body>
<%=License%>
    <form id="form1" runat="server">
        <div>
            <asp:Label runat="server" ID="txtMessage"></asp:Label>
            <asp:Label ID="Label1" runat="server"></asp:Label>
        </div>
    </form>

</body>
</html>
```

In licstore.aspx.cs, call the [getLicenseRemoteToTableWithVersion](#) function. And then add the code below on the page:

```
protected void Page_Load(object sender, EventArgs e)

{
    string AdminEmail = "julia.sui@haihaisoft.com";
    //AdminEmail is your login Email of DRM-X Account.
    string WebServiceAuthStr = "123456";
    //WebServiceAuthStr is the Web Service Authenticate String for DRM-X web
service.

    string ProfileID = (string)(Session["ProfileID"]);
    //DRM-X Provides the value.
```

```

string clientinfo = (string)(Session["clientinfo"]);
//DRM-X Provides the value.
string rightsID = "280";
//DRM-X Provides the value.
string UserLoginName = "testuser";
//UserLoginName is the username or unique UserID in your user database.
string UserFullName = "test";
//UserFullName is the Full Name of User. This parameter is option. You can
leave this UserFullName parameter to blank, or just set it value to N/A.
string GroupID = "110673";
//GroupID is the ID of your Group that you created in your DRM-X Accounts.
Your can find GroupID value in Users Group of DRM-X.
string Message = "";
//Message is the license information, like license rights information returned from
DRM-X web service.
string IP = "";
string Platform = (string)(Session["Platform"]);
//DRM-X Provides the value.
string ContentType = (string)(Session["ContentType"]);
//DRM-X Provides the value.
string Version = (string)(Session["version"]);

drm.HaihaisoftLicenseService DRMService = new drm.HaihaisoftLicenseService();
License = DRMService. getLicenseRemoteToTable (AdminEmail, WebServiceAuthStr,
ProfileID, clientinfo, rightsID, UserLoginName, UserFullName, GroupID, ref Message, IP,
Platform, ContentType, Version );

txtMessage.Text = Message;
Label1.Text = License;
}

```

In licstore.aspx:

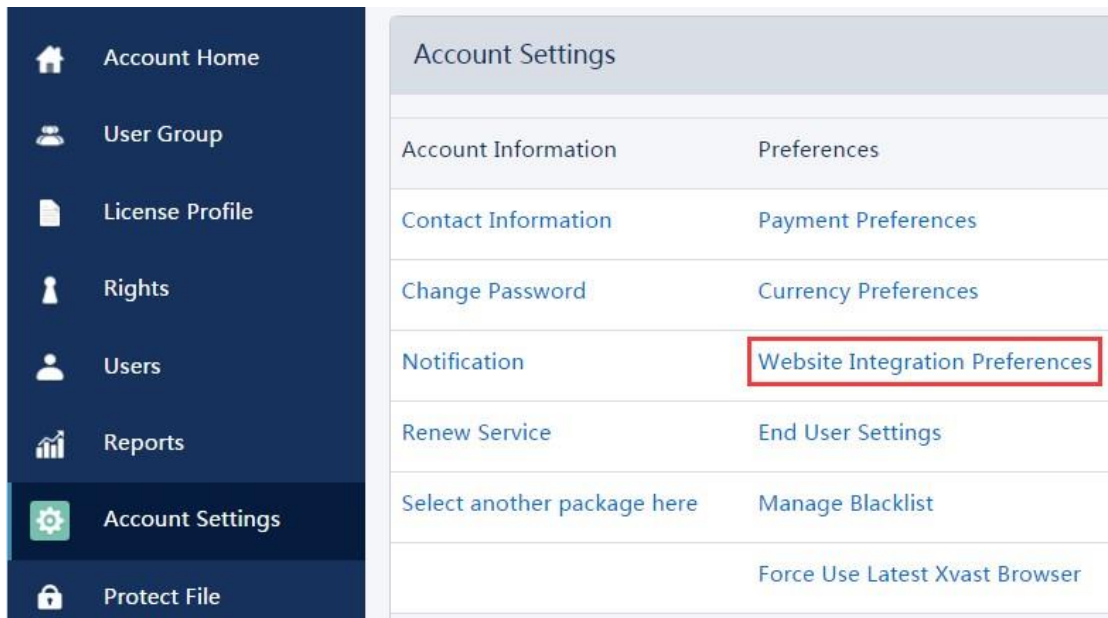
You should add `<% =license %>` into the `<body></body>`. And you must add `<% = Session["Return_url"] %>` into the `<title>` tag.

Step4. Set DRM-X Website Integration Parameters

So it will pop up the default.aspx when your users play your protected files. You can customize the page whatever you need.

Steps to setup:

1. Login your [DRM-X account](#).
2. Click the **Account Settings** in the left panel and choose the **Website Integration Preferences**, as shown in the screenshot below:



3. Select **Custom login page integration** and, enter the URL of your customized page. As shown in the screenshot below:

Profile - Website Integration Preferences

Integration Method: [Integration Help](#)

Synchronize user integration Custom login page integration

Note: Synchronize user integration is synchronize your website users to DRM-X.com your user. We protect the password with strong encryption. It's secure and easy. (Recommend for most users)
Custom login page integration is when user acquiring license, it will pop up your website DRM login window to acquire license. It requires you create a new DRM login page. It requires more code work. (Not Recommend, only for advanced users)

Please set a Web Service Authentication String for DRM-X web service (DRM-X need you provide this string to access DRM-X web service.)

123456

Please enter License URL(Must begin with http:// or https://) (License URL is the url used by pop window when acquiring license)

http://192.168.1.137/integration_4/index.php

4. Click the **Submit** button below and you will get the message shown on the picture below:

You have updated Website Integration Preferences successfully.

Profile - Website Integration Preferences

Integration Method: [Integration Help](#)

Synchronize user integration Custom login page integration

Step5: Integration Error Messages

When you integrate DRM-X 3.0 with your website, it may return some error messages. You should write code check the returned error messages and displays the error messages properly to end users. It will help you and your users identify the error easily. For example:

Exceed Bind Number, License Profile doesn't exists, User Group doesn't exists, License Rights doesn't exists and Rights Expired.

1. Content Provider has insufficient funds in DRM-X 3.0 platform.
Message = "Your remain fund is not enough to pay monthly fee. Please add fund to your DRM-X account. For more information, please visit: <http://www.drm-x.com>"
License Return "ERROR:ADMIN_NO_MONEY"
2. The Rights have expired, the expiration date is less than the current date.
Message = "ERROR:RIGHTS EXPIRED"
License Return "No License"
3. The Rights have not begin, the begin date is greater than the current date.
Message = "ERROR:RIGHTS EXPIRED"
License Return "No License"
4. Exceeded hardware combined number
Message = "Sorry, you can only acquire license in " & AllowBindNum & " computers. Please contact your content owner for details."
License Return "ERROR:EXCEED_BIND"
5. Common Returned Message
Message = "Webmaster doesn't have the User Group or you don't have permission to access this User Group. Please contact your webmaster for details."
Content provider doesn't have this user group, or you don't have permission to access to this User Group.

Message = "Webmaster doesn't have this Rights or you don't have permission to acquire this rights. Please contact your webmaster for details."
Content owner doesn't have this License Rights, or you don't have permission to acquire this Rights.

Message = "Webmaster hasn't encrypt this file or you don't have permission to acquire license. Please contact your webmaster for details."
Content owner hasn't encrypted this file (The License Profile does not exist), or you don't have permission to acquire this License Profile.

If Message return these information, License will return "".
6. Integration Login Error. Error message returned when you invoke DRM-X 3.0 Web Service.
Message Return ""
License Return "Your XML web service login info is not correct. Please check your AdminEmail and WebServiceAuthStr settings."
Integration Parameter AdminEmail and WebServiceAuthStr settings are wrong.

Step6. Open your contents protected by DRM-X

Congratulations! The integration has been done. When the users open your encrypted content, it will pop up the custom login page.

Related Tutorials

- [DRM-X 4.0 Synchronize User Integration \(ASP.net C# Guide\)](#)
- [DRM-X 4.0 Synchronize User Integration \(PHP Guide\)](#)
- [DRM-X 4.0 Customize Login Page Integration \(PHP Guide\)](#)
- [DRM-X 4.0 Synchronize User Integration \(ASP.net VB Guide\)](#)
- [DRM-X 4.0 Customize Login Page Integration \(ASP.net VB Guide\)](#)

Expert support from Haihaisoft

If you still have problems with the integration,

Please feel free to contact us:

<http://www.haihaisoft.com/Contact.aspx>



Haihaisoft Limited

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