

SWF to PNG (vb in ASP.NET using ByteScout SWF To Video SDK)

Tutorial: how to do SWF to PNG (vb in ASP.NET)

The sample source codes on this page will demonstrate you how to make SWF to PNG (vb in ASP.NET). SWF to PNG (vb in ASP.NET) can be implemented with ByteScout SWF To Video SDK. ByteScout SWF To Video SDK is the specialized software development kit for programmers who need to add SWF (Flash Macromedia) to video conversion into their app. Supports WMV and AVI video output with sound as can take input flash movies with variables, actionscripts, dynamic files as input. You can control output video size, framerate, video and audio quality.

You will save a lot of time on writing and testing code as you may just take the code below and use it in your application. In order to implement this functionality, you should copy and paste code below into your app using code editor. Then compile and run your application. Enhanced documentation and tutorials are available along with installed ByteScout SWF To Video SDK if you'd like to dive deeper into the topic and the details of the API.

On our website you may get trial version of ByteScout SWF To Video SDK for free. Source code samples are included to help you with your ASP.NET application.

FOR MORE INFORMATION AND FREE TRIAL:

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Source Code Files:

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="S
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xl

<html xmlns="http://www.w3.org/1999/xhtml" >
<head runat="server">
    <title>Untitled Page</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>

            </div>
        </form>
</body>
</html>
```

Default.aspx.designer.vb

```
'-----
' <auto-generated>
'   This code was generated by a tool.
'   Runtime Version:2.0.50727.4927
'
'   Changes to this file may cause incorrect behavior and will be lost if
'   the code is regenerated.
' </auto-generated>
'-----

''' <summary>
'''   _Default class.
''' </summary>
''' <remarks>
'''   Auto-generated class.
''' </remarks>
Public Partial Class _Default

    ''' <summary>
    '''   form1 control.
    ''' </summary>
    ''' <remarks>
    '''   Auto-generated field.
    '''   To modify move field declaration from designer file to code-behind file.
    ''' </remarks>
```

```
Protected form1 As Global.System.Web.UI.HtmlControls.HtmlForm
End Class
```

Default.aspx.vb

```
' x64 IMPORTANT NOTE: set CPU to x86 to build in x86 mode.
Imports System.IO

Imports BytescoutSWFToVideo

Public Partial Class _Default
    Inherits System.Web.UI.Page

    ' IF YOU SEE TEMPORARY FOLDER ACCESS ERRORS:

    ' Temporary folder access is required for web application when you use ByteScout SWFToVideo
    ' If you are getting errors related to the access to temporary folder like "Access to the path is denied"
    ' SOLUTION:
    ' If your IIS Application Pool has "Load User Profile" option enabled the IIS process runs under the Local System
    ' If you are running Web Application under an impersonated account or IIS_IUSRS group you need to grant permissions
    ' In this case
    ' - check the User or User Group your web application is running under
    ' - then add permissions for this User or User Group to read and write into that temporary folder
    ' - restart your web application and try again

    Protected Sub Page_Load(sender As Object, e As EventArgs)
        Dim inputSwfFile As String = Server.MapPath("Shapes.swf")

        ' Create an instance of SWFToVideo ActiveX object
        Dim converter As New SWFToVideo()

        ' Set debug log
        converter.SetLogFile("log.txt");

        ' Register SWFToVideo
        converter.RegistrationName = "demo"
        converter.RegistrationKey = "demo"

        ' Enable transparency - set BEFORE calling input SWF filename
        converter.RGBAMode = True

        ' Set input SWF file
        converter.InputSWFFileName = inputSwfFile

        ' you may calculate output video duration using information about the source SWF file
        ' WARNING #1: this method to calculate the output video duration is not working
```

```

' and interactive scripts as in these movies it is not possible to calculate the
' WARNING #2: you should set the input swf or flv filename (or url) before this

' So the movie duration is calculated as the following:
' as swf frame count (number of frames in the swf) / movieFPS (frames per second)
' and then multiplied by 1000 (as we are setting the .ConversionTimeout in milliseconds)
' as the following (uncomment if you want to set the length of the output video)
' or as the following source code (uncomment to enable):

' converter.ConversionTimeout = 1000 * (converter.FrameCount / converter.MovieFPS)

' Select the frame to extract (20th)
converter.StartFrame = 20
converter.StopFrame = 20

' Run conversion.
' Empty parameter means conversion to binary stream instead of file.
converter.ConvertToPNG("")

' release resources
System.Runtime.InteropServices.Marshal.ReleaseComObject(converter)
converter = Nothing

' Display the extracted image:

Response.Clear()
' Add content type header
Response.ContentType = "image/png"
' Set the content disposition
Response.AddHeader("Content-Disposition", "inline;filename=result.png")

' Write the image bytes into the Response output stream
Response.BinaryWrite(DirectCast(converter.BinaryImage, Byte()))

Response.End()
End Sub
End Class

```

README-FIRST-ASP-NET.txt

To use SWF To Video SDK on Web Server you may need to do the following adjustments to the configuration.

Confirmed: SDK works on virtual Windows 2003, 2008, 2012 servers with these adjustments:

- 1) Windows Server 2003 or later:
If you are using WMV format then install Windows Media Player from "Desktop Experience"

- 2) Update flash player for Internet Explorer to the latest version. To update do the following:
- run Internet Explorer
 - open adobe.com
 - click on Update Flash Player
 - follow the instruction and install the latest flash player plugin for Internet Explorer

NOTE: on x64 Windows you should run Internet Explorer for x86 (not x64 version)

- 3) To convert interactive flash movies you should enable "allow interact with desktop"

IMPORTANT: this may cause security breaches so please be careful!

Recommended way:

- create new IIS user
- use it to run web application to convert swf to video only
- set it to x86 mode only
- set it to "allow desktop interaction"

- 4) For Windows 2008, 2012 or later:

If you are on Windows Server 2008 or higher and you have set "allow desktop interaction"

Windows Server 2008, 2012 no longer allows interactive services, by default, which makes it difficult to run interactive services. See <http://social.technet.microsoft.com/Forums/en-US/winserver8gen/thread/6fb5693a-a256-41f1-b161-000000000000>

if you must run an application that installs an interactive service on Windows Server 2008 or later, you must enable the "NoInteractiveServices" registry value in "HKLM\SYSTEM\CurrentControlSet\Control\Windows"

After doing so and rebooting, the Interactive Services Detection Service will start.

- 5) for x64 windows: you should set IIS to run your web application in x86 mode

- 6) for x64 Windows: you should compile your ASP.NET web application for x86 platform instead of x64

POSSIBLE ISSUES:

- 1) Flash movie with dynamic XML data shows "Can not load XML data".

Solution: To check this issue try to run Internet Explorer on the server machine and open the flash movie

- 2) if you suspect the issue is caused by flash movie not properly running you may need to debug the flash movie

Solution: You should download "Windows Flash Player 11.7 ActiveX control content debugger" from <http://www.adobe.com/support/flashplayer/downloads.html>

Install, follow the instruction and try to open that flash movie in Internet Explorer or Firefox

- 3) If your flash movie is designed to run on machines with sound card then you may expect a sound error

Solution: if you are able to recompile flash movie then add the additional check for sound card

- 4) If your XML or external is loaded from different domain/subdomain then data can be loaded but not displayed

Solution: make and upload cross-domain policy domain XML file to the domain(s) with the external XML file

See http://kb2.adobe.com/cps/142/tn_14213.html

<http://www.adobe.com/devnet/adobe-media-server/articles/cross-domain-xml-for-streaming.html>

http://www.adobe.com/devnet/articles/crossdomain_policy_file_spec.html

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Updated June 11, 2013

README-FIRST.txt

Interact with desktop permission may be required to run Screen Capturing SDK or SWF To

You may set this "Allow to interact with desktop" checkbox for the user that is used to
For IIS asp.net apps this user name is typically IIS_... user name

Important note for Windows Server 2008 or later

Newest Windows has disabled interactive services

New Windows versions are no longer allowing to run interactive services by default to

If you must run a Screen Capturing SDK or SWF To Video SDK from an interactive service

HKLM\SYSTEM\CurrentControlSet\Control\Windows
NoInteractiveServices

Then reboot so Windows will pick the new value from the registry and the Interactive S

To make this change manually please do the following

Start the registry editor (regedit.exe) in As Administrator mode

Locate the following Registry key: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Windows
double-click the NoInteractiveServices entry on the right side and change its value from
Then click OK and close the registry editor

Restart the computer

Web.config

```
<?xml version="1.0"?>

<configuration>

  <appSettings/>
  <connectionStrings/>

  <system.web>
    <!--
      Set compilation debug="true" to insert debugging
      symbols into the compiled page. Because this
      affects performance, set this value to true only
      during development.
    -->
    <compilation debug="true" />
    <!--
      The <authentication> section enables configuration
```

of the security authentication mode used by ASP.NET to identify an incoming user.

-->

```
<authentication mode="Windows" />
```

<!--

The <customErrors> section enables configuration of what to do if/when an unhandled error occurs during the execution of a request. Specifically, it enables developers to configure html error pages to be displayed in place of a error stack trace.

```
<customErrors mode="RemoteOnly" defaultRedirect="GenericErrorPage.htm">
```

```
  <error statusCode="403" redirect="NoAccess.htm" />
```

```
  <error statusCode="404" redirect="FileNotFound.htm" />
```

```
</customErrors>
```

-->

```
</system.web>
```

```
</configuration>
```

VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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