

Topaz Systems, Inc.  
SigPlus.NET HTML Demo HowTo

Topaz Systems, Inc.  
650 Cochran Street, Unit 6  
Simi Valley, CA, 93065  
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[www.topazsystems.com](http://www.topazsystems.com)  
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The Topaz SigPlus.NET html demo provides a simple, easy to use example of how SigPlus.NET can be integrated into a web application for .NET developers. This document is meant to provide a basic explanation of the necessary steps to ensure full functionality of the demo.

To begin, the user will need to have the Microsoft .NET Framework Version 1.1 Redistributable Package. This can be downloaded by clicking on the link below.

<http://www.microsoft.com/downloads/details.aspx?FamilyId=262D25E3-F589-4842-8157-034D1E7CF3A3&displaylang=en>

Once the .NET Framework Version 1.1 is downloaded and installed, the next step is to download SigPlus.NET. SigPlus.Net can be downloaded by clicking on the link below.

<http://www.topazsystems.com/Software/sigplusnet.exe>

For additional SigPlus.NET resources click on the link below.

<http://www.topazsystems.com/Software/download/developers.htm>

Now that SigPlus.NET has been successfully downloaded and installed, the developer can use the .NET HTML Demo. Start by going to:

<http://www.topazsystems.com/Software/sigplusnet.htm>

This will open the first page of the .NET HTML Demo in a web browser. The first page of the demo is where the user creates a record of their signature by inputting their first name and signature that is tied to the disclaimer information.

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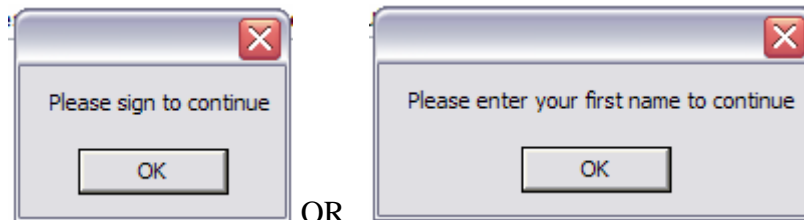
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**Please provide your first name below and press the SIGN button to sign. When submitted, your first name and the disclaimer information will be used to encrypt the e-signature. You will need to provide your first name again on the next page to retrieve the signature.**

The following is nonsense disclaimer information:  
Signing to this form is for example purposes only and authorizes no agreement whatsoever between signer and Company

Please enter your first name here:

This is how the page should appear. To see the demo in action it is vary easy. The user simply enters their first name into the appropriate box and then clicks 'Sign'. After clicking 'Sign' the user can sign on their Topaz signature capture tablet. The signature will appear in real-time in the signature box as the user is signing. If, when finished, the user is not satisfied with their signature they can click the 'Clear' button and that will clear the signature box. If the user hits clear they will not have to click the 'Sign' button again to resign. If the user tries to submit a record without signing or entering their first name an error message will be generated.



When the record is complete with a satisfactory signature and the users first name, when they click 'Submit' it will take them to the second page of the .NET HTML demo. This page allows the user to view their signature as long as the name and the disclaimer information the signature is tied to match from the first page. The second page should look something like this:

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**Demo**  
**Verify Document and Display SigPlusNET e-Signature**

**This SigPlusNET page has received the disclaimer and signature information.**  
**You must supply your first name information again in order to decrypt and redisplay the signature.**  
**Likewise, if you change the disclaimer information, you will need to restore it to its prior state before you can view the signature**

**Disclaimer information from the previous page:**

Signing to this form is for example purposes only and authorizes no agreement whatsoever between signer and Company

Please re-enter your first name to display signature:



To retrieve the signature, simply enter the first name that was used and make sure the disclaimer information is the same and click the 'Display' button. This will load the signature into the signature box.

**Demo**  
**Verify Document and Display SigPlusNET e-Signature**

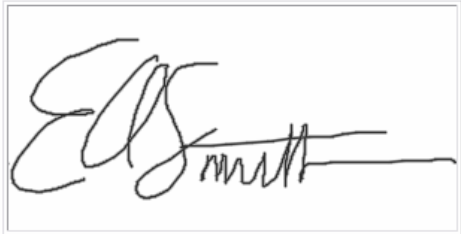
**This SigPlusNET page has received the disclaimer and signature information.**  
**You must supply your first name information again in order to decrypt and redisplay the signature.**  
**Likewise, if you change the disclaimer information, you will need to restore it to its prior state before you can view t**

**Disclaimer information from the previous page:**

Signing to this form is for example purposes only and authorizes no agreement whatsoever between signer and Company

Please re-enter your first name to display signature:

EA

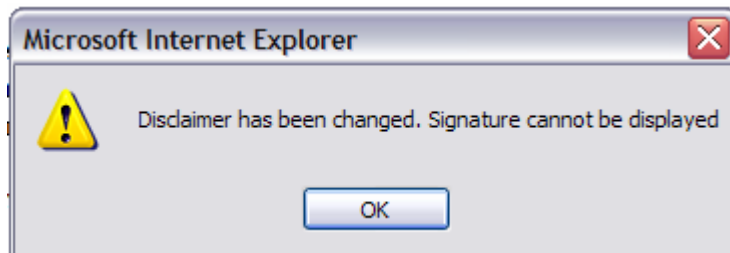


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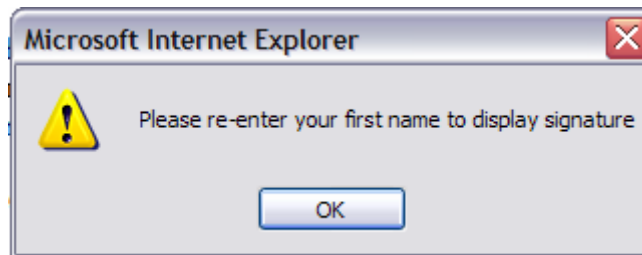
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If the disclaimer information has been changed, when the user attempts to retrieve their signature an error message will be generated.



If the name entered has no record of it, another error message will be generated.



Below is a few samples and a brief explanation of some important pieces of code that allows the .NET HTML Demo to function.

Here is some code from the first page of the demo, to see the code simply open the page in a simple text editor such as Notepad, or choose to 'View Source' from the web page itself.

This section of code utilizes VB Script and is responsible for opening the tablet and enabling it for signature capture, ensuring the autokey and encryption process is correct, and controlling the submit function. For more information on SigPlus and its commands click [here](#).

```
<SCRIPT LANGUAGE=vbscript>
<!--
Sub opensigPlus
SigPlusNET1.SetTabletState 1
end Sub

Sub onClear
SigPlusNET1.ClearTablet
end Sub

Sub onDone
If document.SigForm.txtValue.value="" Then
MsgBox "Please enter your first name to continue"
Exit Sub
End If

If SigPlusNET1.NumberOfTabletPoints = 0 Then
MsgBox "Please sign to continue"
Exit Sub
End If

SigPlusNET1.SetTabletState 0
SigPlusNET1.AutoKeyStart
SigPlusNET1.SetAutoKeyData document.SigForm.txtValue.value
SigPlusNET1.SetAutoKeyData document.SigForm.Disclaimer.value
SigPlusNET1.AutoKeyFinish
SigPlusNET1.SetEncryptionMode 1
SigPlusNET1.SetSigCompressionMode 2
document.SigForm.SigData.value=SigPlusNET1.GetSigString
document.SigForm.submit
end Sub
-->
</SCRIPT>
```



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```
<SCRIPT LANGUAGE="JavaScript"><!--  
//These first two functions grab the data passed via the GET method, and redistribute  
//the data for use on this page  
function replace(string,text,by) {  
    // Replaces text with by in string  
    var i = string.indexOf(text), newstr = '';  
    if ((!i) || (i == -1))  
        return string;  
    newstr += string.substring(0,i) + by;  
    if (i+text.length < string.length)  
        newstr += replace(string.substring(i+text.length,string.length),text,by);  
    return newstr;  
}  
  
function getParm(string,parm) {  
    // returns value of parm from string  
    var startPos = string.indexOf(parm + "=");  
    if (startPos > -1) {  
        startPos = startPos + parm.length + 1;  
        var endPos = string.indexOf("&",startPos);  
        if (endPos == -1)  
            endPos = string.length;  
        return unescape(string.substring(startPos,endPos));  
    }  
    return '';  
}  
  
var passed = replace(location.search.substring(1),"+","");  
document.formname.sigData.value = getParm(passed,'sigData');  
document.formname.txtValue.value = getParm(passed,'txtValue');  
document.formname.Disclaimer.value = getParm(passed,'Disclaimer');  
strDisclaimer = document.formname.Disclaimer.value;  
  
function LoadSig() {  
    if(document.formname.txtValue2.value==""){  
        sigPlusNET1.clearTablet();  
        alert("Please re-enter your first name to display signature")  
    }  
    else  
    {  
        sigPlusNET1.setJustifyX(10);  
        sigPlusNET1.setJustifyY(10);  
        sigPlusNET1.autoKeyStart();  
        sigPlusNET1.setAutoKeyData(document.formname.txtValue2.value);  
        sigPlusNET1.setAutoKeyData(document.formname.Disclaimer.value);  
        strDisclaimer2=document.formname.Disclaimer.value;  
        sigPlusNET1.autoKeyFinish();  
        sigPlusNET1.setEncryptionMode(1);  
        sigPlusNET1.setSigCompressionMode(2);  
        sigPlusNET1.setDisplayPenwidth(10);  
    }  
}
```

This section of code is the Javascript section that will load the signature and check the validity of the users name and the disclaimer information. For more information regarding the methods and properties used in this section of code click [here](#).