



How-To Guide

SigPlus VBScript Demo

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Overview

Welcome to the Topaz SigPlus VBScript Demo. This demo can be used to better understand how SigPlus functions in a VBScript environment.

Shown below is how the “Demo.htm” looks if opened within a web browser and a brief description of its functionality. This should be the first page opened for the purposes of this demo.

Demo
Sign & Submit

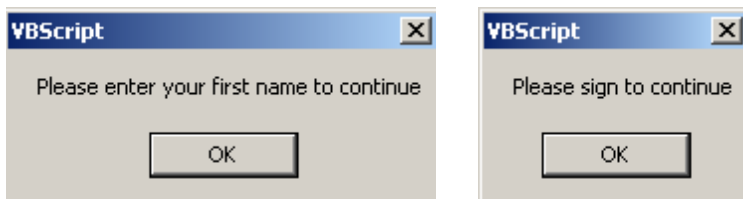
Please provide your first name below and press the SIGN button to sign. When submitted, your first name and the disclaimer information will be used to encrypt the e-signature. You will need to provide your first name again on the next page to retrieve the signature.

The following is nonsense disclaimer information:

Please enter your first name here:

There is a simple disclaimer that can be found in the “Form” section and can be edited according to need. There is the field for the user’s first name that is also defined in the “Form” section, three signature capture buttons, and the signature window. To sign, enter a name into the appropriate field and sign on the Topaz signature capture tablet. The signature will appear in real time as the user is signing.

If the first name is not entered, or a signature is not captured, an error message will be generated when the user clicks the “Submit”.



Once the signature is successfully captured and the “Submit” button is clicked, the next page that will be opened is “Demo2.htm”. This page contains the code and functionality from SigPlus that verifies the signatures and documents validity. Again, to examine and edit the code for “Demo2.htm”, choose to open the file in a text editor, such as Notepad.

The disclaimer information is passed through to “Demo2.htm” and displayed in the appropriate field.

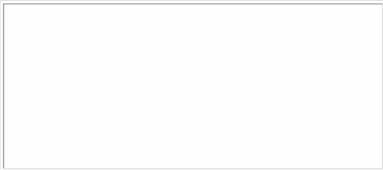
Demo
Verify Document and Display e-Signature

This current 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.

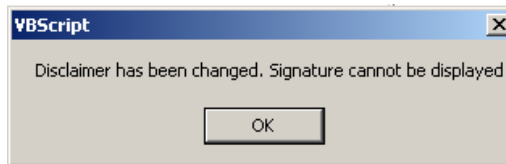
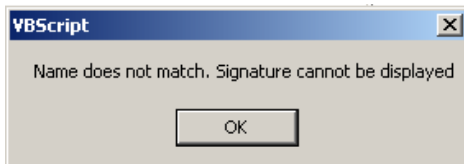
Disclaimer information from the previous page:

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:



If this text is changed, then the signature will not be displayed. To display the signature, not only does the disclaimer information need to match, but also the first name must match the one entered on the first page as well. If these do not match, an error window will be generated.



To display the signature, enter the first name and click on the “Display” button. This will then display the signature as shown below.

Demo
Verify Document and Display e-Signature


This current 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:

EA



Using the easy to use code from these pages, all the benefits of encrypted, digital signatures can be implemented into a wide array of html and VB based applications.

The Code

Demo.htm

Below is the section of code which checks to ensure the user has entered his name (txtValue), and his signature (SigPlus1.NumberofTabletPoints). If there is a lack of data, the user will be prompted to enter it before continuing. Otherwise, the signature is cryptographically bound to the disclaimer and name values (using AutoKey). Then, the ASCII hex representation of the signature, the SigString, is retrieved from SigPlus, and is copied into the SigData hidden file. When the page is submitted, the signature will be sent to the server using this hidden SigData field. Finally, the form is submitted to Demo2 for further use.

```

Sub SetSig
  If document.SigForm.txtValue.value="" Then
    MsgBox "Please enter your first name to continue"
    Exit Sub
  Else
    If SigPlus1.NumberOfTabletPoints=0 Then
      MsgBox "Please sign to continue"
      Exit Sub
    Else
      SigPlus1.TabletState=0
      SigPlus1.AutoKeyStart
      SigPlus1.AutoKeyData=document.SigForm.txtValue.value
      SigPlus1.AutoKeyData=document.SigForm.Disclaimer.value
      SigPlus1.AutoKeyFinish
      SigPlus1.EncryptionMode=1
      SigPlus1.SigCompressionMode=2
      document.SigForm.SigData.value=SigPlus1.SigString
      document.SigForm.submit
    End If
  End If
End Sub

```

Below is the code for the “Clear” button. When “Clear” is clicked, the tablet data is reset.

```

Sub OnClear
  SigPlus1.ClearTablet
End Sub

```

Below is the code for the “Cancel” button. When “Cancel” is clicked, the tablet is turned off.

```

Sub OnCancel
  SigPlus1.TabletState = 0
End Sub

```

Below is the code for the “Sign” button. When sign is clicked the tablet is turned on to accept signature data.

```
Sub OnSign
    SigPlus1.TabletState = 1
end Sub
```

The section below creates the placement of what will be the signature window on the web page. The code in between the <Object> tags is the part of code that will instantiate the SigPlus object and the signature window size. The second part of code to be concerned with is the section that builds the form. This code is between the <FORM> tags. Here the user will find much of the text that appears on the page, this can easily be changed to best fit the needs of the user.

```
<TITLE>Sign& Submit</TITLE>
</HEAD>
<BODY>
<FORM ACTION="Demo2.htm" METHOD=GET NAME="SigForm">

<DIV STYLE="position:absolute; top:60px; left:10px;">
<br><br><b>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.</b><br><br>

<br>The following is nonsense disclaimer information:
<INPUT TYPE=TEXT SIZE=117 NAME=Disclaimer VALUE="Signing to this form is for example purposes
only and authorizes no agreement whatsoever between signer and Company"
onChange="this.value='Signing to this form is for example purposes only and authorizes no agreement
whatsoever between signer and Company'" readonly><br><br>

    <br>Please enter your first name here:<br>
<INPUT TYPE="text" NAME="txtValue"><br><br><br><br><br><br>

<input id="SignBtn" name="SignBtn" type="button" value="Sign" language="VBScript" onclick="OnSign"
style="BACKGROUND-COLOR: #666699; COLOR: white; FONT: bold 8pt verdana"
onmouseout="window.event.srcElement.style.background = '#666699'"
onmouseover="window.event.srcElement.style.background = '#AFAFAF'">&nbsp;&nbsp;&nbsp;<input
id="button1" name="ClearBtn" type="button" value="Clear" language="VBScript" onclick="OnClear"
style="BACKGROUND-COLOR: #666699; COLOR: white; FONT: bold 8pt verdana"
onmouseout="window.event.srcElement.style.background = '#666699'"
onmouseover="window.event.srcElement.style.background = '#AFAFAF'"><br><br>
<INPUT TYPE=HIDDEN NAME="SigData">
<INPUT TYPE=BUTTON VALUE=" Submit " onClick="SetSig" style="BACKGROUND-COLOR:
#666699; COLOR: white; FONT: bold 8pt verdana"
onmouseout="window.event.srcElement.style.background = '#666699'"
onmouseover="window.event.srcElement.style.background = '#AFAFAF'">&nbsp;&nbsp;&nbsp;
</DIV>

</FORM>
<DIV STYLE="position:absolute; top:220px; left:250px;">
<table border=1 cellpadding="0">
    <tr><td>
```

```

<OBJECT classid=clsid:69A40DA3-4D42-11D0-86B0-0000C025864A height=75
id=SigPlus1 name=SigPlus1
style="HEIGHT: 180px; WIDTH: 320px; LEFT: 0px; TOP: 0px; VIEWASTEXT>
    <PARAM NAME="_Version" VALUE="131095">
    <PARAM NAME="_ExtentX" VALUE="4842">
    <PARAM NAME="_ExtentY" VALUE="1323">
    <PARAM NAME="_StockProps" VALUE="0">
</OBJECT>
</td></tr>
</table>
</DIV>

<DIV STYLE="position:absolute; top:10px; left:10px;">
<a>
    <FONT COLOR=#666699'><h2>Demo<br>Sign & Submit</h2></FONT>
</a>
</DIV>
</BODY>
</HTML>

```

Demo2.htm

The code for Demo2.htm can be broken up into three distinct parts. This section again contains the fields, buttons and the requisite coding needed as well as the hidden fields that are contained in the first Demo page.

In Demo2.htm, the only button included is the 'Done' button. The 'Done' button will load the signature if the first name matches and the disclaimer information are all matching to the Demo.htm page. The form also includes the fields to enter the users name that is needed to load the signature. The code can be seen below. This code first sets SigPlus up to properly return the cryptographically bound signature (again, using the AutoKey functionality), then returns the SigString to the new SigPlus object (this is the value from the previous page's SigData hidden field). When successfully returned, the signature is automatically rendered on the page:

```

<HTML>
<HEAD>
<DIV STYLE="position:absolute; top:295px; left:390px;">
<table border=1 cellpadding="0" height="150" width="300">
<tr><td>
    <OBJECT classid=clsid:69A40DA3-4D42-11D0-86B0-0000C025864A height=75
    id=SigPlus1 name=SigPlus1
    style="HEIGHT: 125px; WIDTH: 325px; LEFT: 0px; TOP: 0px;
    VIEWASTEXT>
        <PARAM NAME="_Version" VALUE="131095">
        <PARAM NAME="_ExtentX" VALUE="4842">
        <PARAM NAME="_ExtentY" VALUE="1323">
        <PARAM NAME="_StockProps" VALUE="0">
    </OBJECT>
</td>
</tr>
</table>
</DIV>
<SCRIPT LANGUAGE="VBScript"><!--

```


The second part of code to examine is the VB commands. In this section, there are two functions that will grab the data passed through the GET method and redistribute the data for use on this page. Additionally, this section also contains the code to load the signature into the signature box and specify its display characteristics. A sample of this code can be seen below. It is important to note that this section must be contained within the proper tags to function properly. Of course, this is not necessary when parsing the data on the server, where the developer can simply obtain the values from the fields using the form data gathering means they wish. Rather, this is used in the demo because no server is actually used in the process of this demo.

```
<SCRIPT LANGUAGE="JavaScript"><!--

//These Javascript 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;

//--></SCRIPT>

<TITLE>Verify Document and Display e-Signature</TITLE>
```


The last section of code for Demo2.htm deals with the appearance and construction of the web page itself. This code is found between the <Body> tags.

```
<DIV STYLE="position:absolute; top:130px; left:10px;">
<b><nobr>This current page has received the disclaimer and signature information. <br>You must
supply your first name information again in order to decrypt and redisplay the signature. <br>Likewise, if
you change the disclaimer information, you will need to restore it to its prior state before you can view
the signature.</nobr></b>
</DIV>

</HEAD>
<BODY>

<DIV STYLE="position:absolute; top:30px; left:10px;">
<a>
  <h2><FONT COLOR='#666699'>Demo<br>Verify Document and Display e-
  Signature</FONT></h2>
</a>
</DIV>

</BODY>
</HTML>
```