

How-To Guide

SigPlus JavaScript Demo

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Overview

This document is meant to be a basic how-to on how to implement SigPlus electronic signature capture software into an HTML application featuring JavaScript. The "DemoJavascript" pages (<u>www.topazsystems.com/Software/download/web/html_javascript_demo.zip</u>) are a demo, and though combined, they offer a certain level of functionality. It is meant to provide a framework for developers to implement SigPlus into their own custom web applications.

Begin by opening the "DemoJavascript" with a text editor, such as Notepad. Opening the file in Notepad will make the code visible and allow for easy copying and editing.

Within the "DemoJavascript" code, there are three necessary parts to ensure successful signature capture, storage, and transfer.

The first part of the code to be concerned with is the part of code that instantiates SigPlus. This section is contained within the <Object> tags as shown below.

-	DemoJavascript - Notepad
1000	File Edit Format View Help
1000	<pre><input name="SigData" type="HIDDEN"/> <input "="" onclick="SetSig()" onmouseout="window.event.srcElement.style.backgroun onmouseover=" style="BACKGROUN FONT: bold 8pt verdana" type="BUTTON" value=" Submit " window.event.srcelement.style.background="#AFAFAF"/> </pre>
ľ	
	<pre><div style="position:absolute; top:220px; left:250px;"> < <object classid="clsid:69A40DA3-4D42-11D0-86B0-0000C025864A" height="75</td"></object></div></pre>

The beginning of this section 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.



Also, in this section there are the necessary buttons, such as sign, clear, and submit. These buttons are between the <INPUT> tags and are tied to SigPlus methods that dictate their actions. The buttons included are:

- 1. Sign Button:
 - a. SignBtn" name="SignBtn" type="button" value="Sign" language="VBScript" onclick="OnSign
- 2. Clear Button: a. "ClearBtn" type="button" value="Clear" language="VBScript" onclick="OnClear"
- 3. Submit Button:
 - a. INPUT TYPE=BUTTON VALUE=" Submit " onClick="SetSig()

Additionally, there is another very important piece of code contained in this section. It is essentially a hidden text box that stores the signature data.

<INPUT TYPE=HIDDEN NAME="SigData">

🕞 DemoJavascript - Notepad
File Edit Format View Help
 <body></body>
<form action="DemoJavascript2.htm" method="GET" name="SigForm"></form>
<pre><div style="position:absolute; top:60px; left:10px;"> > > > > ><</div></pre>
<pre> The following is nonsense disclaimer information: <input <br="" name="Disclaimer" onchange="this.value='Signing to this form is
for example purposes only and authorizes no agreement whatsoever between signer and Company';" size="117" type="TEXT" value="Signing to this form is for example purposes only and
authorizes no agreement whatsoever between signer and Company"/>readonly> </pre>
 dr>Please enter your first name here: <input name="txtValue" type="text"/> > >
<pre><input id="SignBtn" language="VBScript" name="SignBtn" onclick="OnSign" onmouseout="window.event.srcElement.style.background = '#666699'" onmouseover="window.event.srcElement.style.background = '#AFAFAF'" style="BACKGROUND-COLOR: #666699; COLOR: white; FONT: bold &pt verdana" type="button" value="Sign"/> <input id="button1" language="VBScript" name="ClearBtn" onclick="OnClear" onmouseout="window.event.srcElement.style.background = '#AFAFAF'" style="BACKGROUND-COLOR: #666699; COLOR: white; FONT: bold &pt verdana" type="button" value="Clear"/> <input id="button1" language="VBScript" name="ClearBtn" onclick="OnClear" onmouseout="window.event.srcElement.style.background = '#AFAFAF'" style="BACKGROUND-COLOR: #666699; COLOR: white; FONT: bold &pt verdana" type="button" value="Clear"/> #666699'" onmouseover="window.event.srcElement.style.background = '#AFAFAF'"> #666699; COLOR: white; FONT: bold &pt verdana" onmouseout="window.event.srcElement.style.background = '#AFAFAF'"> #000000000000000000000000000000000000</pre>



The last part of the code to be concerned with is the section that contains the commands connected to the actions of the buttons. These are Javascript methods and are named before they appear in the code pictured above. These methods are:

- 1. function OnClear() {
 - a. SigPlus1.ClearTablet(); -This method clears the tablet
- 2. function OnCancel() {
 - a. SigPlus1.TabletState = 0 –This method cancels the signing instance
- 3. function OnSign() {
 - a. SigPlus1.TabletState = 1 This method activates the tablet for signature capture

Additionally, there is a section of code that is responsible for making sure that the user inputs their first name in the appropriate field before signing. The code for this section can be found below.





Below is how the "DemoJavascript" looks if opened within a web browser and a brief description of its functionality.

2) Sign & Submit - Microsoft Internet Explorer	_ 7 🛛
File Edit View Favorites Tools Help	1
🔇 Back 🔹 🕥 - 💌 😰 🏠 🔎 Search 👷 Favorites 🤣 😥 - 🌄 🖏 🖉 - 🔜 🥞 📓 🥥 🕉	
Address 🕘 C: Documents and Settings (All Users) Documents (Demo Javascript. htm	🕶 🔁 Go
Links 🛅 Toshiba Access 🕘 Customize Links 🗿 Free Hotmai 🦅 My Yahool 🏾 🐢 RealPlayer 🗿 Windows 💖 Windows Marketplace 👸 Windows Media 🦅 Yahool	» 🐔 -
Demo:	~
Sign & Submit	
Sign & Sublint	
Please provide your first name below and press the SIGN button to sign. When submitted, your first name and the disclaimer information	n 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:	
Sign Clear	
Submit	
	~
🗟 Done 🤤 😨	Computer

This is how the form and the page look. 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, the three buttons discussed earlier, and the signature window. To sign, simply 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'.

Í	Microsoft Internet Explorer		1	Microso	ft Internet Explorer
	1	Please enter your first name to continue			Please sign to continue
		ОК			ОК

Once the signature is successfully captured and the "Submit" button is clicked, the next page that will be opened is DemoJavascript2 (DJ2). This page contains the code and functionality from SigPlus that verifies the signatures and documents validity. Again, to examine and edit the code for DJ2, choose to open the file in a text editor, such as Notepad. The code for DJ2 can be broken up into three distinct parts. Much like the DemoJavascript page, there is a section of code that builds the form. This section contains the fields, buttons and the requisite coding needed, as well as the hidden fields that are contained in the first "DemoJavascript" page.

In JD2, the only button included is the "Done" button. The code for this button is as follows: input id="DoneBtn" name="DoneBtn" type="button" value="Display" onclick="LoadSig()"

The "Done" button will load the signature if the first name matches and the disclaimer information are all matching to the "DemoJavascript" page.

The form also includes the fields to enter the user's name that are needed to load the signature. The code can be seen below:





The second part of code to examine is the Javascript 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. This section also contains the code to load the signature into the signature box and specify its display characteristics. A sample of this code is seen below. It is important to note that this section must be contained within the proper tags to function properly.

📕 Demo	Javascript2 - Notepad
File Edit	Format View Help
//These	F LANGUAGE="JavaScript"> <br e first two functions grab the data passed via the GET method, and redistribute data for use on this page
// var if nev if	<pre>on replace(string,text,by) { Replaces text with by in string i = string.indexof(text), newstr = ''; ((!i) (i == -1)) return string; wstr += string.substring(0,i) + by; (i+text.length < string.length) newstr += replace(string.substring(i+text.length,string.length),text,by); turn newstr;</pre>
// vai if	<pre>on getParm(string,parm) { returns value of parm from string startPos = string.indexof(parm + "="); (startPos > -1) { startPos = startPos + parm.length + 1; var endPos = string.indexof("&",startPos); if (endPos == -1) endPos = string.length; return unescape(string.substring(startPos,endPos)); turn ''; </pre>
}	<pre>ssed = replace(location.search.substring(1), "+", " ");</pre>
10	
docume	nt formname SigNata value - getDarm(nassed 'SigNata').

The last section of code for DJ2 deals with the appearance and construction of the web page itself. This code is found between the <Body> tags.

```
def view in the set of the
```



Here is how the web page looks when opened after submitting a signature:

🕘 Verify Document and Display e-Signature - Microsoft Internet Explorer		_ 7
File Edit View Favorites Tools Help		1
🔇 Back 🔻 🕥 🔹 😰 🐔 🔎 Search 👷 Favorites 🚱 🗞 😓 😒 👻 🖓 🐼 🐢	3	
Address 🖉 file:///C:/Documents%20and%20Settings/Daniel/Desktop/DemoJavascript2.htm?Disclaimer=Signing+to+this+form+is+for+ex	ample +purposes +only +and +authorizes +no +agre	eemen 🕶 🛃 Go
Links 🛅 Toshiba Access 👸 Customize Links 👸 Free Hotmail 🦙 My Yahoo! 🔷 RealPlayer 👸 Windows 🐒 Windows Marketpl	ace 💰 Windows <mark>Media 🐄</mark> Yahoo!	» 📆 -
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 Disclaimer information from the previous page: Signing to this form is for example purposes only and authorizes no agreement whatsoever between signer and C Please re-enter your first name to display signature: Display		
Done	👰 My Ci	omputer

The disclaimer information is passed through to DJ2 and displayed in the appropriate field. 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.

Microsoft Internet Explorer	Microsoft Internet Explorer	X
Name does not match. Signature cannot be displayed	Disclaimer has been changed. Signature cannot	be displayed
ОК	OK	



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

Verify Document and Display e-Signature - Microsoft Internet Explorer	_ B <mark>X</mark>
File Edit View Favorites Tools Help	
🔇 Back 🔹 🕥 🔹 📓 🏠 🔎 Search 🡷 Favorites 🚱 🔗 + 嫨 🔯 🔹 🛄 🧐 🧏	
Address 🔄 file:///C:/Documents%20and%20Settings/Daniel/Desktop/DemoJavascript2.htm?Disclaimer=Signing+to+this+form+is+for+example+purposes+or	nly +and +authorizes +no +agreemen 💌 🛃 Go
Links 🛅 Toshiba Access 👸 Customize Links 🍓 Free Hotmail 🦙 My Yahoo! 🤷 RealPlayer 🍓 Windows 🐒 Windows Marketplace 🍓 Windows I	Media 🐄 Yahoo! 👋 📆 🔹
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 to 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 Display	he signature.
	9
🙆 Done	😼 My Computer

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 Java-based applications.