



Topaz Systems, Inc. SigID Verification Demo (ASP)

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For use with TF-LBK(460-462)-HSB

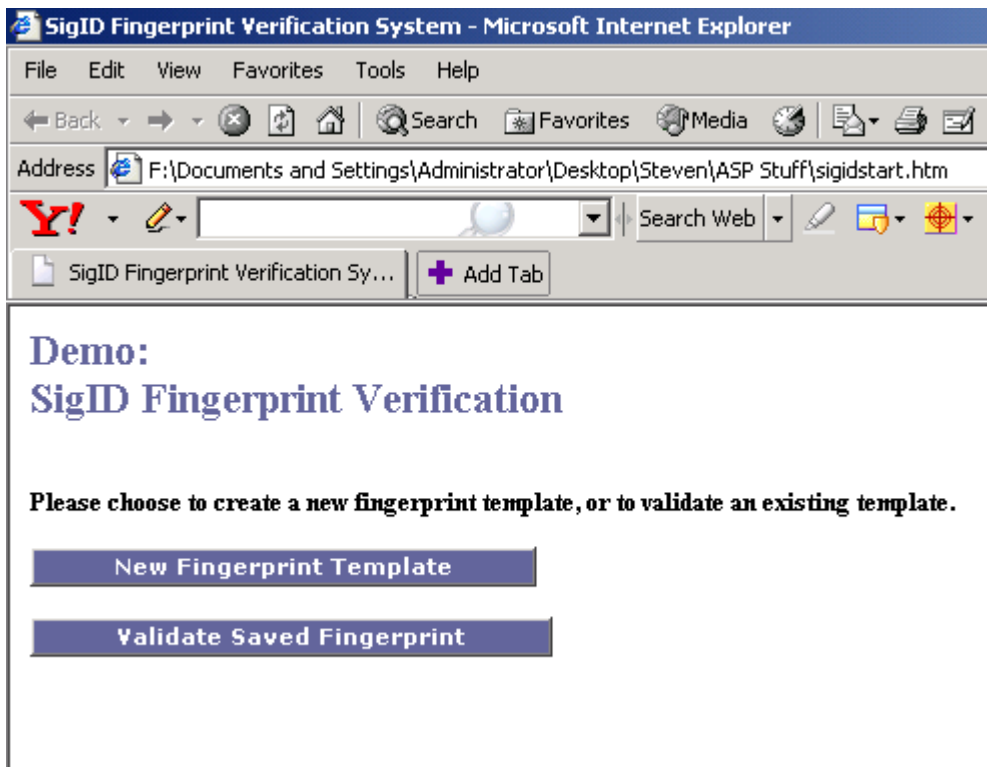
Welcome to the Topaz SigID Verification System Demo. This demonstration captures a fingerprint in a database, and verifies your fingerprint upon request. This is a demo only and should be used as a blueprint for creating your ID verification applications.



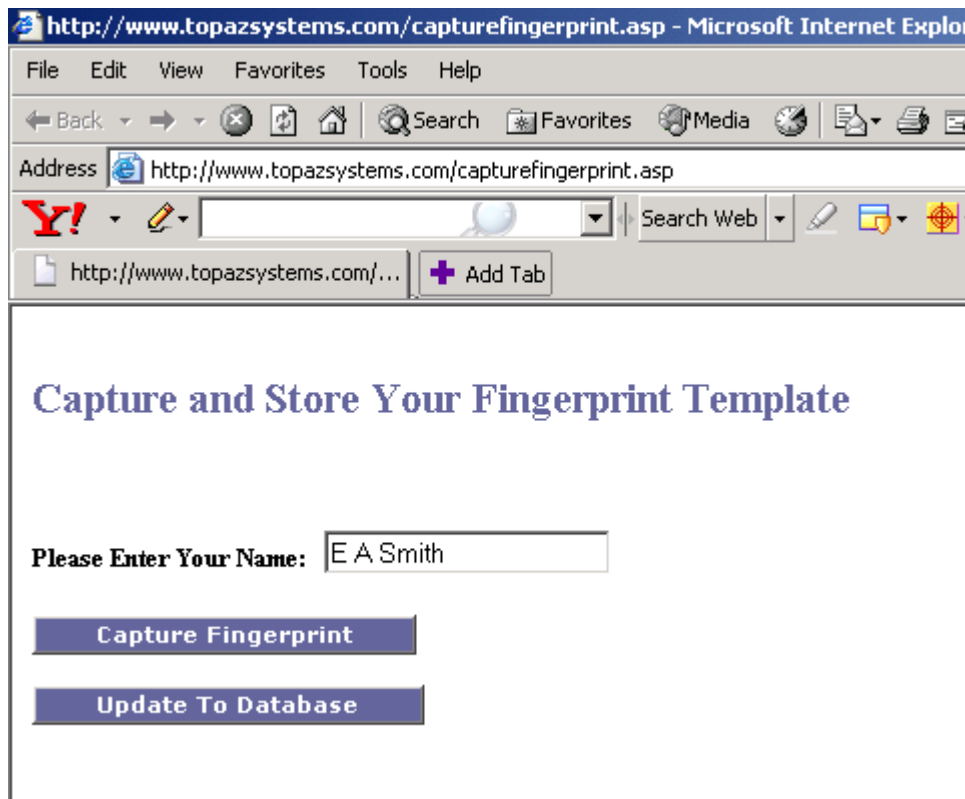
To download the demo go to:

http://www.topazsystems.com/software/download/web/sigid_asp_demo.zip

Begin by opening "sigidstart.htm" It will be located in the .zip file you downloaded from topazsystems.com. You will see the screen below.

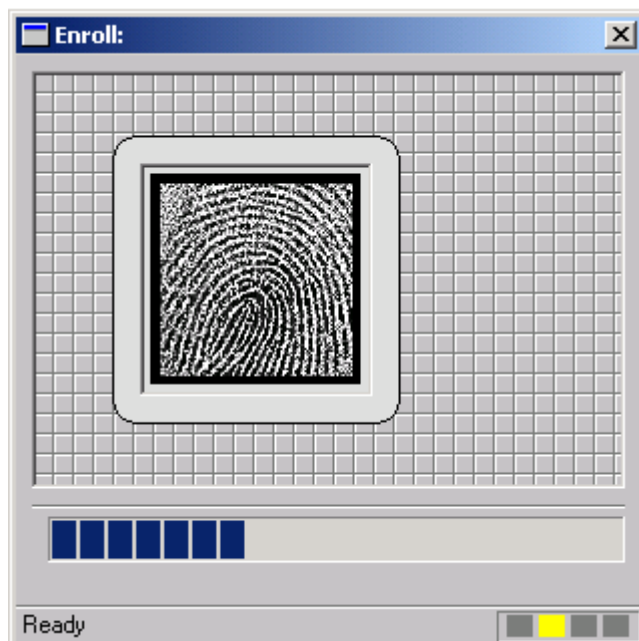


To create a new entry in the database, press “New Fingerprint Template” (shown above). This will bring up another page (shown below). Please enter your name and press “Capture Fingerprint.”

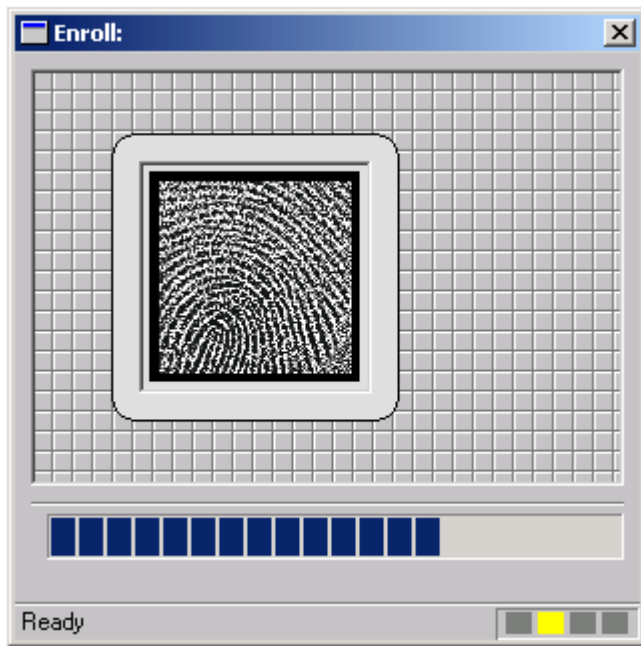


A fingerprint ID interface will appear. Place your finger against the pad to capture your fingerprint. To get an accurate scan of your finger, the procedure needs to be repeated three times. Please Note: it is important that the swirl of your finger is fairly centered on the ID capture device. Also be sure to use the same finger every scan.

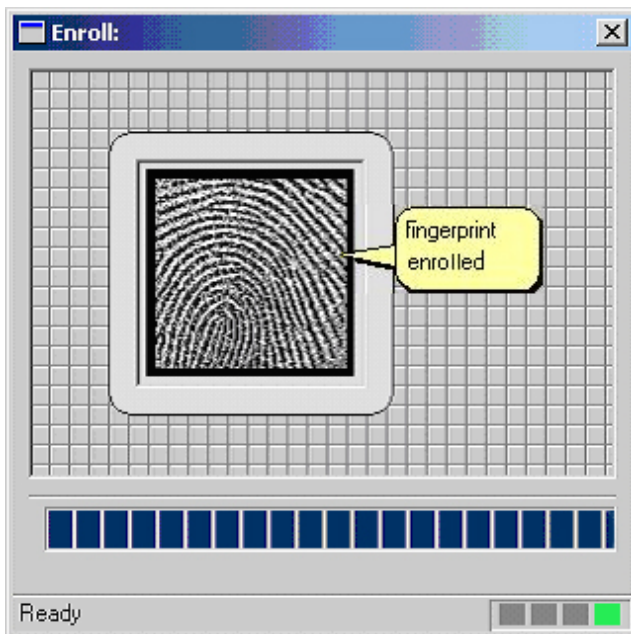
First Time:



Second Time:

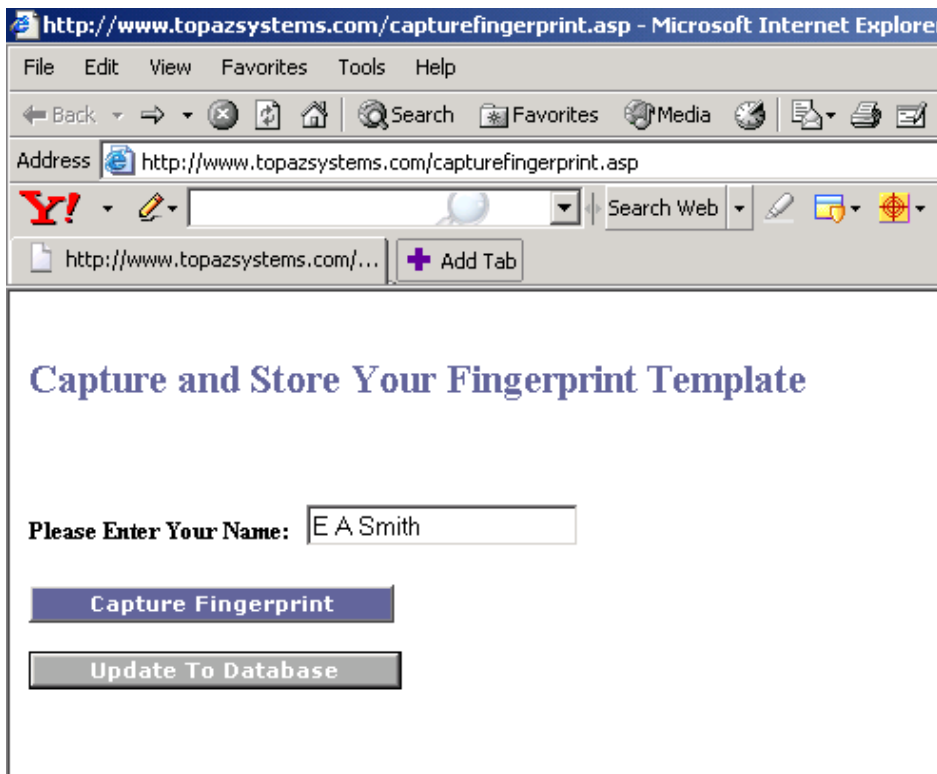


Final Time:



When the program has sufficient data to create an entry, you will see the screen above. If not, you will receive an error and be prompted to try again.


Once you have captured your fingerprint you will be returned to the screen below. Click “Update Database” to save your ID to file.








http://www.topazsystems.com/capturefingerprint.asp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

← Back → → × ↻ Home Search Favorites Media ↻ ↻ ↻ ↻

Address  http://www.topazsystems.com/capturefingerprint.asp

Y!  Search Web   

http://www.topazsystems.com/...  Add Tab

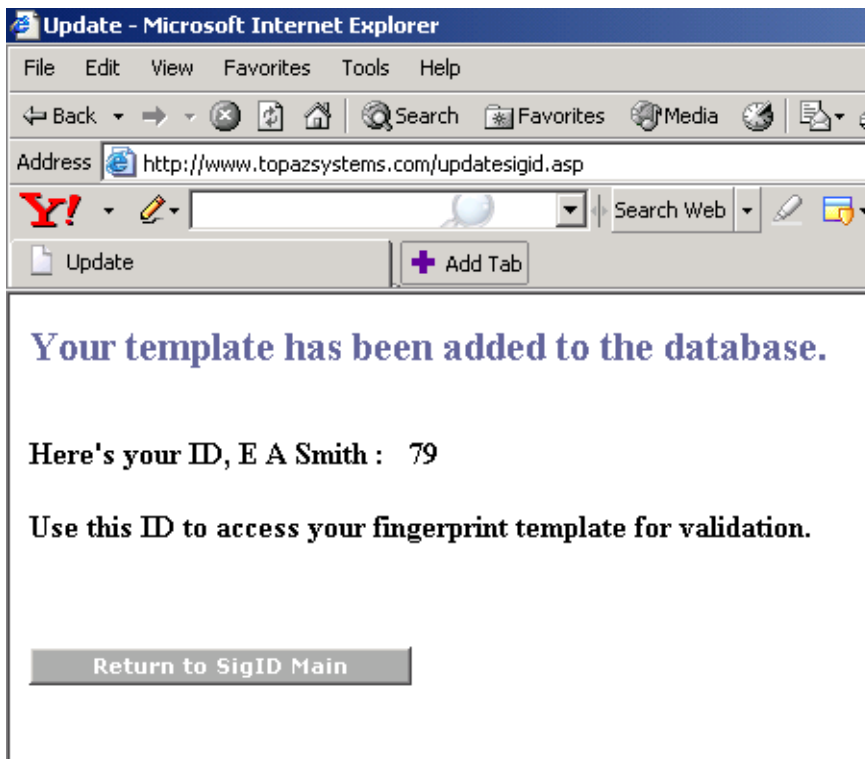
Capture and Store Your Fingerprint Template

Please Enter Your Name:

Capture Fingerprint

Update To Database


You will then receive a number to correspond to your identity. In order to verify your identity you will need to either memorize or write your assigned number down. Once you know your number, click “Return to SigID Main” to validate your identity.








Update - Microsoft Internet Explorer

File Edit View Favorites Tools Help

← Back → → × ↻ Home Search Favorites Media ↻ ↻ ↻ ↻

Address  http://www.topazsystems.com/updatesigid.asp

Y!  Search Web   

Update  Add Tab

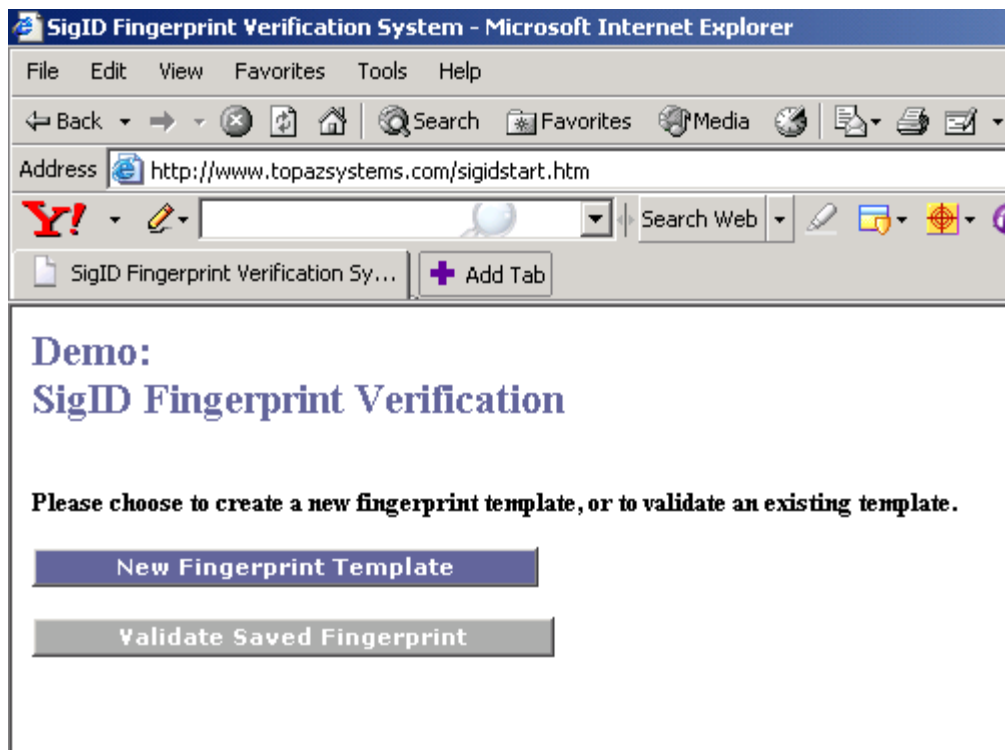
Your template has been added to the database.

Here's your ID, E A Smith : 79

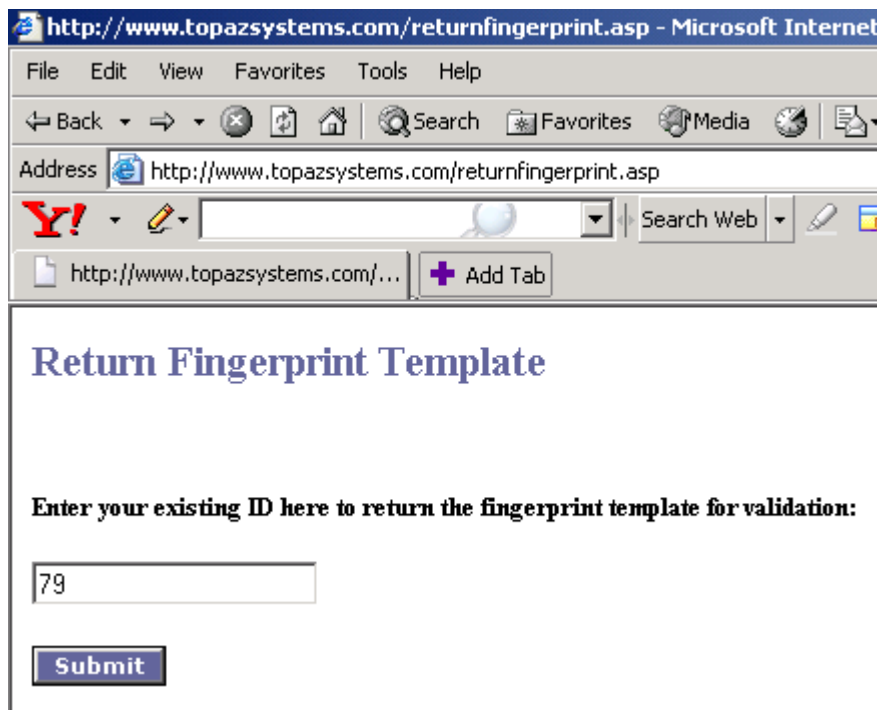
Use this ID to access your fingerprint template for validation.

Return to SigID Main

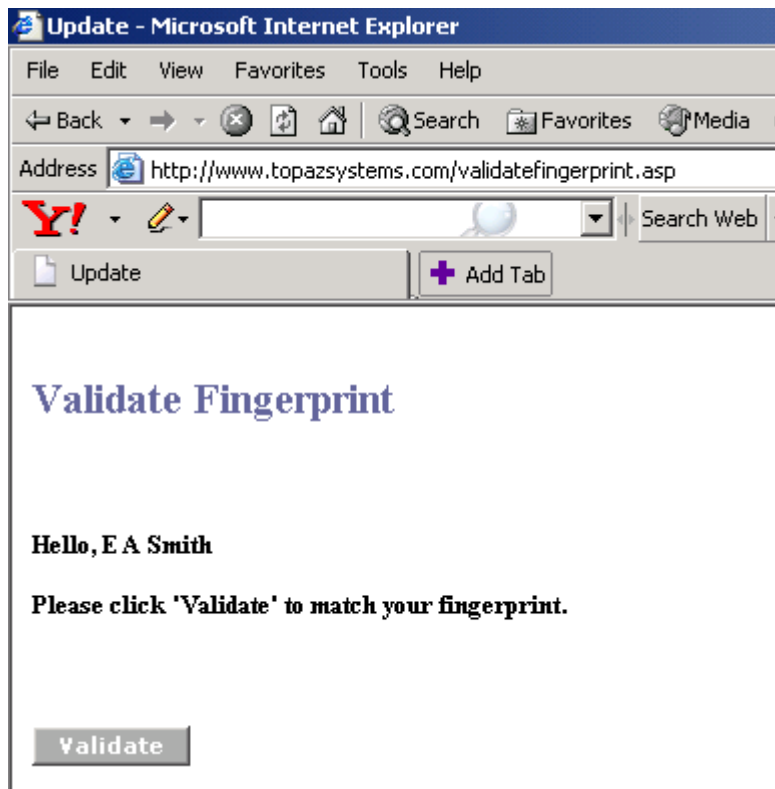
This will navigate you back to the main menu. You have already created a template, so now we want to instead validate the ID you just saved. Click on “Validate Saved Fingerprint.”



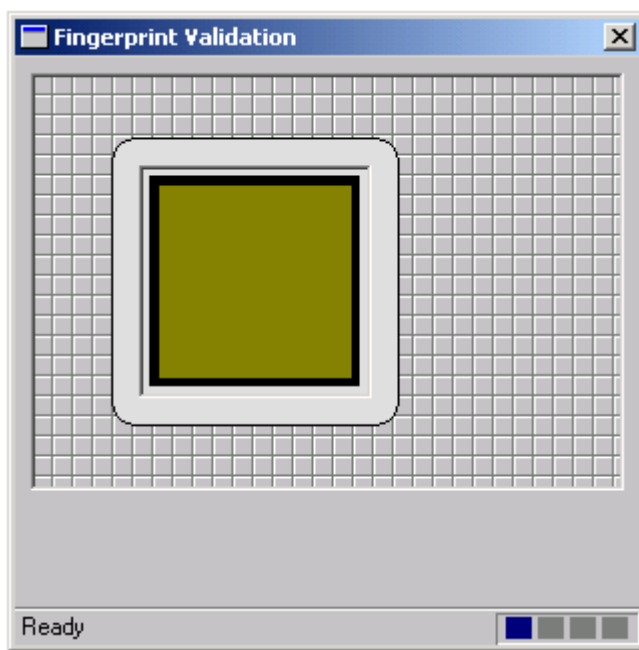
Type in the ID number you received after creating your fingerprint template in the box as shown below.



After you enter your identification number your name will be displayed, and you will be prompted to validate your fingerprint ID. Visually verify that the name is correct and click “Validate.”



You will see the screen below. Press the same finger you used to enroll against the ID scanner to validate your identity.




```

<input id="button1" name="RetrieveBtn" type="button" value="Validate Saved Fingerprint"
language="VBScript" onclick="OnRetrieve" 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>

</FORM>

```

Next we will explore the code that is part of “**capturefingerprint.asp**”.

The code below creates an instance of SigID.

```

<OBJECT classid=clsid:6D051D8F-39E4-4B0F-85A4-BDB67BBCEDA8 height=50
id=SigID1 name=SigID1
style="HEIGHT: 1px; LEFT: 0px; TOP: 0px; WIDTH: 1px" width=1
VIEWASTEXT>
<PARAM NAME="_Version" VALUE="131095">
<PARAM NAME="_ExtentX" VALUE="4842">
<PARAM NAME="_ExtentY" VALUE="1323">
<PARAM NAME="_StockProps" VALUE="0">
</OBJECT>

```

Sub OnCapture gets the fingerprint string and passes it to the variable strFinTemp. If strFinTemp contains no data, and therefore no fingerprint data, then the user is forced to enroll. Otherwise it sets the SigIDField field to equal the fingerprint string. When the form is submitted the fingerprint is sent along with the SigIDField.

```

Sub OnCapture
Dim strFinTemp
strFinTemp = SigID1.GetFingerprintString
MsgBox strFinTemp
If strFinTemp="" Then
MsgBox "User cancelled enrollment.", vbOKOnly + vbExclamation, "Enrollment
Cancelled"
Else
document.FORM1.SigIDField.value = strFinTemp
End If
end Sub

```

SubInitSigID is the initialize code that runs as soon as the page opens. The sensor is turned on, and based on the return value it either continues (intAns =0), or reports a functionality issue (intAns=1), or reports the tablet as unplugged (intAns = 2).

```

Sub InitSigID
Dim intAns
intAns = SigID1.SensorState(1)

If intAns = 0 Then
MsgBox "Initialization successful"
ElseIf intAns = 1 Then
MsgBox "Error initializing fingerprint device"
ElseIf intAns = 2 Then
MsgBox "Check to see if device is plugged in"
End If
end Sub

```


Finally we will view the ASP code for “**validatefingerprint.asp**”.

The code below creates an instance of SigID

```
<OBJECT classid=clsid:6D051D8F-39E4-4B0F-85A4-BDB67BBCEDA8 height=50
  id=SigID1 name=SigID1
  style="HEIGHT: 1px; LEFT: 0px; TOP: 0px; WIDTH: 1px" width=1
  VIEWASTEXT>
  <PARAM NAME="_Version" VALUE="131095">
  <PARAM NAME="_ExtentX" VALUE="4842">
  <PARAM NAME="_ExtentY" VALUE="1323">
  <PARAM NAME="_StockProps" VALUE="0">
</OBJECT>
```

The code below creates 3 variables, strName, strFingerprint, and valID. These are used to extract the auto-number, the name, and the fingerprint template from the database. The appropriate record is pulled based upon the ID number provided by the user on the previous page.

```
<%
Dim valID, strName, strFingerprint
valID = Request.Form("IDField")
'Response.Write valID

Dim cnSignature
Dim rsSignature
Set cnSignature = CreateObject( "ADODB.Connection" )
Set rsSignature = CreateObject( "ADODB.Recordset" )
With cnSignature
  .Provider = "Microsoft.Jet.OLEDB.4.0"
  .ConnectionString = "Data Source =" & Server.MapPath ("/websigid/sigid.mdb")
  .Open
End With
rsSignature.CursorType = 1
rsSignature.LockType = 3

rsSignature.Open "SELECT * FROM Contracts WHERE ID=" & valID, cnSignature, 1, 3
.....

          rsSignature.MoveFirst
strName = rsSignature( "NameField" )
strFingerprint = rsSignature( "FingerprintField" )
```

Three session variables are used to hold the ID, Name, and fingerprint template data.

```
Session("strNameS")=strName
Session("strFingerprintS")=strFingerprint
Session("strIDS")=strID
%>
<FONT COLOR=#666699><h2>Validate Fingerprint</h2></FONT><BR><BR>
<h4>Hello, <%=Session("strNameS")%>

<BR><BR>
Please click 'Validate' to match your fingerprint.</h4>
<BR><BR>
```

Below a few buttons are created to allow the user to perform the validation.

```
<FORM id=FORM1 name=FORM1>
<INPUT id=ValidateBtn name=ValidateBtn type=button value=Validate language
="VBScript" onclick=OnValidate style="BACKGROUND-COLOR: #666699; COLOR:
white; FONT: bold 8pt verdana" onmouseout="window.event.srcElement.style.background =
'#666699'" onmouseover="window.event.srcElement.style.background = '#AFAFAF'">
</FORM>
```

When you click “Validate” first the software checks to ensure the ID device is plugged in to your computer.

```
Sub OnValidate

Dim intAns
intAns = SigID1.SensorState(1)
If intAns = 0 Then
    MsgBox "Initialization successful"
ElseIf intAns = 1 Then
    MsgBox "Error initializing fingerprint device"
ElseIf intAns = 2 Then
    MsgBox "Check to see if device is plugged in"
End If
```

Then to validate the ID, the current fingerprint string in the Text box is compared to the saved fingerprint identity using SigID1.ValidateFingerprintString. If the SigID1 function ValidateFingerprintString , which is set to equal intVal, equals 0, then the fingerprint does not match the one stored to record. If it equals 1, then it does match the fingerprint record.

```
.....
'Validate a captured SigIDString (ASCII hex string) of fingerprint
.....
Dim intVal
intVal = SigID1.ValidateFingerprintString("<%=Session( "strFingerprintS" )%>")
'this example validates a new fingerprint against the
'current fingerprint string in the Text box

If intVal = 0 Then
    MsgBox "This is not your fingerprint"
ElseIf intVal = 1 Then
    MsgBox "This is your fingerprint"
End If
end Sub
/-->
```

For more information regarding products and support
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