

After checking for the above components, run the TopazRecordDemo. You will see the window below. The records you see are from the access .mdb file you downloaded in the TopazRecordDemo kit (SignMeUpNE.mdb). To add an entry, push “Add”, and make sure you fill in all of the required fields. When you have completely filled out the form add your signature, and push “Update” to add your file to the database. When you are ready to create a Crystal Report, choose a signed record and push “Create Crystal Report.”

The screenshot shows a window titled "Roster" with a close button in the top right corner. On the left, there is a vertical list of labels with corresponding text input fields:

First:	E
Initial:	A
Last:	Smith
Address:	1234 Drive
City:	Townsville
State:	CA
Zip:	98765
Date:	11/5/2000
DOB:	1/1/1953
HIC:	123456789
PID:	307
Sex:	M

To the right of these fields is a large white area containing a handwritten signature "EA Smith". Below this area are two buttons: "Clear Signature" and "Create Crystal Report". At the bottom of the window, there is a row of buttons: "Add", "Update", "Delete", "Refresh", and "Close". In the bottom left corner, there are navigation arrows and the text "Record: 1". In the bottom right corner, there are more navigation arrows.

Below is the Crystal Report created using the information above.

The screenshot shows a window titled "Signature Report Demo" with standard window controls in the top right. Below the title bar is a toolbar with icons for close, print, zoom (set to 50%), and navigation. Below the toolbar is a "Preview" tab. The main content area shows a preview of a Crystal Report. On the left side of the report, there is a list of fields and their values:

7/31/2006
PID: 307
First: E
Initial: A
Last: Smith
City: Townsville
State: CA
Zip: 98765
HIC: 123456789

To the right of this list is a large white area containing the same handwritten signature "EA Smith" as seen in the previous screenshot.

This application is quite simple. When the Crystal report is created, a BMP image of the signature is created then stored in the C:\SignatureFolder directory. This BMP is named by another field of the database, the PID field (this is an autonumber). This way, the image file name will match the PID field, and the record's signature image file can be matched to the particular record. The signature BMP is then brought into the Crystal Report for viewing the record. When the Crystal Report is closed, the BMP in the SignatureFolder is destroyed, to clean up. The signature image is meant only for viewing in the Crystal Report, while the actual biometric signature remains saved in your Access database.

Below we will explore the code that controls the process.

The Code

```
1. Private Sub cmdCrystalReport_Click()
    Dim TextSize As String
    Dim strPath As String

    SigPlus1.TabletState = 0 'Make sure the tablet is off
    cmdClear.Enabled = False

    With SigPlus1
        .ImageFileFormat = 1 'Sets the image type to be saved-JPG,BMP,TIF etc. (1 is a BMP)
        .ImageXSize = 1500 'Sets the X resolution (in pixels)
        .ImageYSize = 500 'Sets the Y resolution (in pixels)
        .ImagePenWidth = 14 'Sets the width of ink for image
        .ImageTimeStamp = False 'Set this to TRUE if you want automatic time/date stamping

        If .ImageTimeStamp = True Then 'If you want the time/date stamp, then do this routine
            TextSize = Int(.TabletLogicalYSize * 14) / 100 * 0.9 'Gets a good size for the text, if displaying
            time/Date stamp
            .ImageTimeStampSize = TextSize 'Sets the size of the Text
            .AutoTimeStamp 'Performs time/Date stamping
        End If

    End With

    SigPlus1.JustifyMode = 5 'This will zoom the signature to fit the control...otherwise, you may leave it
    to be the size it was when signed

    strPath = "C:\SignatureFolder\Signature" & datPrimaryRS.Recordset.Fields(10).Value & ".bmp"
    'Builds the the full path, as well as file extension, naming the file by the PID field (primary key) of the
    db
    SigPlus1.WriteImageFile (strPath) 'Writes the image; be sure to pass it the full path, as well as file
    extension
    strPath = ""

    TopazRecords.Hide
    CrystalReportForm.Show
End Sub
```

The above code is run when you push the “Create Crystal Report” button and is used to write the selected image to a Crystal Report. First it turns the tablet off and does not clear the image. It then sets the appropriate dimensions using SigPlus and also allows for a time and date stamp to be affixed to the signature. Next it creates a filename for the Bitmap, writes the desired signature to that location, hides the Record menu, and brings up the Crystal Report.

```

2. Dim Report As New CrystalReport1
   Private Sub Form_Load()
     Screen.MousePointer = vbHourglass
     CRViewer1.ReportSource = Report
     CRViewer1.ViewReport
     Screen.MousePointer = vbDefault

     End Sub

```

The above code loads the Crystal Report application and changes the cursor temporarily to an hourglass while it is loading.

```

3. Private Sub Section10_Format(ByVal pFormattingInfo As Object)
   If Field1.Value = TopazRecords.datPrimaryRS.Recordset.Fields(10).Value Then
     Dim bmpHold As StdPicture
     Dim strPicturePath As String

     strPicturePath = "C:\SignatureFolder\Signature" &
     TopazRecords.datPrimaryRS.Recordset.Fields(10).Value & ".bmp"

     Set bmpHold = LoadPicture(strPicturePath)

     Set Picture1.FormattedPicture = bmpHold 'Load the signature image into the image on the Crystal
     Report
     Set bmpHold = Nothing
   Else
     Section10.Suppress = True ' Otherwise, suppress the record and don't print it on the report
   End If
End Sub

```

The code above displays the desired entry in the Crystal Report. This is done by checking every PID number against the BMP filename saved in the SignatureFolder (see step 1). If the record matches the filename designated in step 1 above, the bitmap is displayed in the Crystal Report.

This demo is only designed to give VB developers an example of how Topaz signature capture technology can be used to capture signatures in Access and return them in a Crystal Report. It is not intended as an application, but rather help to those desiring to create their own application for Access and Crystal Reports using VB.

For more information regarding products and support:
 Email: support@topazsystems.com
 Phone: (805) 520-8286