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PASSPORT Host Integration Objects® Working with the sample applications



working with the supplied hio applications

The supplied applications are intended to quickly demonstrate the power and features of Rocket's PASSPORT Host Integration Objects[®] software (HIO). The sample applications are written in a variety of programming languages and the source code is made available for developers.

Each application can has been configured to work with Zephyr's sample CICS based application, but they can be simply modified to to work with a customer's own host based applications. Table

passport hio-sample applications

There are a number of sample applications supplied with PASSPORT Host Integration Objects (HIO) that demonstrate how to use the various features of PASSPORT HIO.

Most of these applications are configured by default to access the Zephyr z/OS mainframe host and assume that a connection can be established to this host. The configuration file has the .ZCC file extension and may be edited with NOTEPAD.EXE or any text editor. The IPHostName= parameter may be modified to point to any mainframe system you have access to. For all other sample applications, the IPHostName= parameter in the .ZCC file is empty and will need to be populated with the IP address of the mainframe system you want to connect to.

For the VBScript sample, note that some of the functions refer to specific fields or areas of the host screens. These functions may need to be modified if connecting to a different host. For the WAHIO sample, changes will need to be made to the source and the application will need to be recompiled.

All sample programs, except the Terminal Control sample programs, are written using a model 2 screen size. This provides an 80 column by 24 row screen display. In order to use these sample programs with larger screen sizes, you must modify the source code to add this capability, and then rebuild the application.

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c# asp .net server (wahio)



This server based sample program demonstrates how to use PASSPORT Host Integration Objects in C# ASP.NET. This is a web application that connects to Rocket's IBM z/OS sample CICS application and allows you to search for information within the database.

After the user types text to search for and clicks the "Submit" button, a host session is created at the server, then information is retrieved from the host and sent back to the client in an HTML table if information is found. When the HTML form is submitted to the server, this ASP.NET application will take the following steps to search:

- 1. Launch a TN3270E session connecting to the Zephyr mainframe CICS region.
- 2. Wait for the main sign-on screen to be displayed.
- 3. Send username (CICSU) and password (CICSU) and <ENTER>
- 4. Wait for the next screen.



- 5. Send CICS transaction amnu <ENTER>
- 6. Wait for the next screen
- 7. Depending if the user specified a file number, the application will either

Send AINQ and the file number<ENTER>
 Or Send ABRW<ENTER>

- 8. Wait for the next screen.
- 9. Screen scraping of the host screen(s).
- 10. Disconnect and close the session.
- 11. Send back the results in a HTML table format

requirements

The sample application requires the following in order to run:

- Windows Server 2003 or later with .NET Framework and ASP.NET installed (Can also work from Windows 7 or XP desktop)
- * Internet Information Services (IIS) installed, configured and running properly

how to install iis and asp.net on windows server 2008

IIS and ASP.NET are not enabled by default when you install Windows Server 2008. Follow the steps below to enable these:

- 1. Click Start->Administrative Tools and open Server Manager.
- 2 In the right pane of Server Manager, expand the Roles Summary section and then click Add Roles.
- 3. In the Add Roles Wizard, select the Web Server (IIS) check box and then click Next.
- 4. In the Role Services step of the Wizard, select the Application Development role service, and then select the ASP.NET check box.
- 5. Complete the wizard to install the software.



how to install the sample application

- 1. Open IIS Manager from the Server Manager or click Start > Administrative Tools > Internet Information Services (IIS) Manager.
- 2. On the Connections pane, expand the server node, right-click Default Web Site and then click Add Application.
- In the Add Application dialog, set Alias to "WAHIO". Navigate to the physical path of the WAHIO directory (PASSPORT Host Integration Objects\DotNetServers\CSServer\ by default). Select an application pool for the application and then click OK.
- 4. If you are using the 64-bit version of Windows Server, you will need to enable a 32-bit Application Pool in IIS. On the Connections pane, click "Application Pools". Right-click your application pool and select "Advanced Settings...". Change "Enable 32-bit Application" to True.

how to run the sample application

Open a browser window and navigate to http://<servername>/wahio/default.aspx. Note that the .ZCC configuration file can be edited to connect to a different host but you may have to make some changes to the WAHIO source code and recompile it in order to make it work

vb .net client





to run the sample application:

- 1. Open the PASSPORT Host Integration Objects (default is C:\Program Files\PASSPORT Host Integration Objects\)
- 2. Open the sub folder: DotNetClients\VBClient\bin
- 3. Double-click on VBClient.exe

OR:

- 1. Click on Start->All Programs->PASSPORT Host Integration Objects
- 2. Click on Sample Program VB. Net Client

to open the project in visual studio:

Open the project file VBClient.vbproj in Visual Studio. The default directory that this project is installed into is:

C:\Program Files\PASSPORT Host Integration Objects\DotNetCLients\VBClient\

what this sample program does:

This sample application demonstrates how to use (1) the HIO object, and (2) the HIO object in conjunction with the Terminal Control object.

When the sample application is started, there is a single menu command: Session. Use the Session->Open HIO Client to start a host session using just the HIO object. Use the Session->Open Terminal Control Client to start a host session using an HIO object, and also use the Terminal Control object to display the session screen.

The configuration file used to define the host connection is LOCIS.ZCC and this file is located in the \bin sub folder. This file is text file that can be edited with NOTEPAD.EXE. The host IP address specified in this configuration file is our demo mainframe. If the computer you are using to run this sample application does not have access to the Internet, the sample application will fail. You may edit this file and change the IPHostName= parameter to point to a mainframe system you have access to.

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vbscript-html page

ØPASSPORT Host Integration Objects - Microsoft Internet Explorer provided by Zephyr									
GO - [🙋 C:\Program Files\PASSPORT Host Integration Objects\VBScriptSample\VBScript Sample.htm 🛛 🖅 🗶 📴 Bing	- 9							
🚖 Favorites	🏉 PASSPORT Host Integration Objects 🔄 👘 🔹 🖻 👘 🖉 Page 🔹 Safety 🗸 Tools	; • 🔞 • »							
		^							
PASSPORT Host Integration Objects									
Sample Web Application									
mainframe	Inis sample web application uses VBScript to test the properties and methods of each object. The application connects to the Zephyr mainframe and assumes that a connection can be established to this host. If, for some reason, a connection cannot be made to								
this host, the LOCIS.ZCC file may be edited to connect to a different host. Note that some of the functions below refer to									
host.	host.								
Session	Passions Object								
A collection object consisting of sessions.									
Durantia									
Count Returns the number of items in the collection of objects Read-only									
Item	Returns an element in the collection.	Returns an element in the collection.							
SessionLi	imit Returns the number of licensed sessions. Read-only.	Returns the number of licensed sessions. Read-only.							
Version	Returns the version of PASSPORT Host Intergration Objects. Read-only.	Returns the version of PASSPORT Host Intergration Objects. Read-only.							
ExpireDate	te Returns the expiration date of the software. Read-only	Returns the expiration date of the software. Read-only							
Methods									
AddSessio	Adds a session to the Sessions collection.								
OnonSoco	cion Doturns an ovisting cossion and adds it to the Sossions collection	~							

This client based sample web application uses VBScript to test the properties and methods of each object. The application connects to our demo mainframe and assumes that a connection can be established to this host. If, for some reason, a connection cannot be made to this host, the LOCIS.ZCC file may be edited to connect to a different host. Note that some of the functions refer to specific fields or areas of the LOCIS screens. These functions may also need to be modified if connecting to a different host.

to run the sample program

- 1. Open the C:\Program Files\PASSPORT Host Integration Objects\VBScriptSample\ folder.
- 2. Double-click on the "VBScript Sample.htm" file

OR:

- 1. Click on Start->All Programs->PASSPORT Host Integration Objects
- 2. Click on Sample Program VBScript



hvisual basic



This client based sample program is a Visual Basic program that references the PASSPORT HIO Type Library. It has Menus as follows and uses the events OnSessionChanged, OnScreenChanged and OnOIAChanged.d or disconnected:

File	Sessions	Sessions	Screen	Fields	Field	Help
Exit	New Session	Connect	OIA	Count	GetString	About
	Open Session	Disconnect	GetString	ltem	PutString	
	Close Session	IsConnected	PutString	Refresh		
	Update License	Configuration Resource	Get Rows/Columns	FindByPosit	ion	
		Session Name	GetCursor	FindByStrin	g	
		Session Type	PutCursor	Enum		
			FindString			
			GetData			
			SendKeys			
			SendAid			
			WaitforStr			
			WaitforNoX			

to run the sample program:

- 1. Open the C:\Program Files\PASSPORT Host Integration Objects\VBSample folder.
- 2. Double-click on VBHIOTest.exe

OR:



- 1. Click on Start->All Programs->PASSPORT Host Integration Objects
- 2. Click on Sample Program Visual Basic.

to view the source file

- 1. Click on Microsoft Visual Basic 6.0. New Project Dialog appears.
- 2. Click on Standard Exe and Existing projects. Browse for the VBHIOTest Program.
- 3. Click On VBHIOTest.vbp and click Open.

visual c



:This client based sample program demonstrates how to use PASSPORT Host Integration Objects in Visual C++. This sample is a minimized version of terminal emulator with following functionality:

- ✤ Connecting
- ✤ Disconnecting
- Inputting data
- Moving Cursor
- Submitting ENTER to interact with the host



to run the sample program:

1. Open the C:\Program Files\PASSPORT Host Integration Objects\VCSample folder.ple folder.

2. Double-click on vchio.exe

OR:

- 1. Click on Start->All Programs->PASSPORT Host Integration Objects.
- 2. Click on Sample Program Visual C++.

After the program is opened, click File->Open to open one .ZCC file with all the host information, it will start connecting to the host and host screen will be automatically updated through event handling. You can navigate host screens by typing data and hitting ENTER key.

.ZCC File Format

terminal control - html page





This sample HTML page shows how to create four Terminal Control objects and connect them to the same PASSPORT HIO session object. This HTML page displays four views of the same session. The session connects to the demo mainframe system. The configuration file used for the HIO session object is Locis.zcc. This file and the sample HTML page passterm.htm are located in the folder C:\Program Files\PASSPORT Host Integration Objects\TermControlSample\. The document that stores the keyboard and screen display attribute information for the terminal object is passterm.zws and is stored in the C:\Program Files\PASSPORT Host Integration Objects\ folder.

to display the sample html page:

- 1. Open the C:\Program Files\PASSPORT Host Integration Objects\TermControlSample\ folder.
- 2. Double-click on passterm.htm
- OR
- 1. Click on Start->All Programs->PASSPORT Host Integration Objects
- 2. Click on Terminal Control Sample HTML Page.+

to view the source file:

- 1. View the passterm.htm file in Internet Explorer
- 2. Use the View->Source menu command to look at the actual HTML code



terminal control - visual basic



This client based sample program is a Visual Basic program that shows how to use the PASSPORT terminal object in conjunction with a PASSPORT HIO session object. The sample program connects to the host mainframe system. The configuration file used for the HIO session object is LOCIS.zcc. This file and the executable file TermClient.exe are located in the C:\Program Files\PASSPORT Host Integration Objects\TermControlSample\ folder. The document that stores the keyboard and screen display attribute information for the terminal object is passterm.zws and is stored in the C:\Program Files\PASSPORT Host Integration Objects\ folder.

to run the sample program:

1. Open the C:\Program Files\PASSPORT Host Integration Objects\TermControlSampl\ folder.

- 2. Double-click on TermClient.exe
- OR
- 1. Click on Start->All Programs->PASSPORT Host Integration Objects

to view the source file:

1. Click on Microsoft Visual Basic New Project Dialog appears.

- 2. Click on Standard Exe and Existing projects. Browse for the TermControlSample folder.
- 3, Click on Project1.vbp and click Open.



hints and tips: how to hide browser toolbars

For your custom AutoHTML application, you may wish to present the application inside the browser window with all toolbars disabled. Below is sample JavaScript code to accomplish this:

```
<html>
<head>
<!-- saved from url=(0014)about:internet -->
<meta http-equiv="Content-Type"content="text/html;charset=iso-8859-1">
<script language="JavaScript">
<!---
function LaunchNoToolbar()
         {
          window.open ('https://dr.zephyrcorp.com/autohtml/', '_blank', config='toolbar=no')
config='toolbar=no')
        }
-->
</script>
</head> <body>
        <a href="javascript:LaunchNoToolbar()">Launch HIOAutoHTML</a>
</body>
</html>
```







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