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Cisco Adaptive Security Appliance (ASA) Web VPN Portal Customization: Solution Brief

Author: Ashur Kanoon

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For further information, questions and comments please contact ccbu-pricing@cisco.com

Guide

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Purpose

This Solution Brief was created with the following goals in mind:

- To provide a thorough understanding of the Cisco Adaptive Security Appliance (ASA) WebVPN Portal and associated pages
- · To provide information on basic and full customization of the WebVPN Portal and associated pages
- To provide tips and guidance on creating a custom WebVPN Cisco Adaptive Security Appliance (ASA) WebVPN Portal
- To provide an example of a fully customized Portal

The scope of this Solution Brief is full customization. However, we will briefly mention how to customize the default Cisco WebVPN Portal.

Full portal customization was provided by Cisco as a way for customers to take full advantage of the benefits and features of the Cisco Adaptive Security Appliance (ASA), while still presenting an interface Cisco Adaptive Security Appliance (ASA) WebVPN Portal which would resemble a customer Intranet website.

Understanding the Parts of the Cisco Adaptive Security Appliance (ASA) WebVPN Portal The following three pages can be customized:

- 1. Logon Page
- 2. Portal Page
- 3. Logout Page

These are listed in the usual order they will be seen by the end user. It is important to note that some of the objects which will be customized for the Logon Page will also be displayed in the Logout Page. This will be detailed later in the document.

Please also note that the Portal Page can be customized using the default Cisco WebVPN Portal, or an administrator can create a completely custom HTML page. We will detail both of these methods in this Solution Brief.

Below, we will show the default Cisco WebVPN Portal, and highlight and note each section as it relates to the Customization Objects listed in Configuration \rightarrow Remote Access VPN \rightarrow Clientless SSL VPN Access \rightarrow Portal \rightarrow Customization.

Figure I. Eail Customization Object	Edit Customization Obje	ect
-------------------------------------	-------------------------	-----

Logon Page	Customization Object Name: AshCustom		
Language	Connection Profiles		
Logon Form Logon Form Fields Order Informational Panel	Use this customization object in existing SSL VPN connection profiles. (The table is in-line editable.)		
Copyright Panel	Connection Profile	Use	
-Portal Page	DefaultRAGroup		
Toolbar	DefaultWEBVPNGroup		
Custom Panes Home Page -Logout Page External Portal Page Customization Objects	Group Policies Use this customization object in existing SSL (The table is in-line editable.)	VPN group policies.	
	Group Policy	Use	
	FullAccess		

Figure 2. The Logon Page

SSL VPN Service +	
e Sass505-akanoon https://asa5505-akanoon/+CSCOE+/logon.html	_ ⊂ ⊂ . Google
CISCO Title Panel	
Informational Panel	
Informational panel. Informational panel. Informational panel. Informational panel Informational panel.	Logon Form Login Please enter your username and password. USERNAME: PASSWORD: Login
Copyrightl panel. Copyrightl panel. Copyrightl panel. Copyrightl panel. Copyrightl panel.	Copyright Panel

Figure 3. The Portal Page

Sasa5505-akanoon https://a	sa5505-akanoon/+CSCOE+/portal.html	☆ マ C Google	P 🚖 📴 🦗
cisco	Title Panel		
SSL VPN Service	http:// 🗸	Browse Toolbar	Logou
🕖 Home	Custom F	ane	
Web Applications	Web Bookmarks		
Browse Networks	webServer - SmartTunnel		
MnyConnect	File Bookmarks		
Application Access	myCIFS Talaat and COU healmaster		
SSH/Telnet			
Terminal Services(RDP)			
1 Terminal Services(For Vista)	Infinitial Server's Bookmarks Immar		_
VNC VNC	공 WebServer 1 공 WebServer 2		
	VNC Bookmarks		
Navigation Panel (Applications)	a wanc	Home Page	

Figure 4. The Logout Page

ISCO	Title Panel (same as Login Page)	
	Logout Page Object Soodbye. Morowr own secunty, please: • Clear the browser's cache • Delete any downloaded files • Close the browser's window Logon	

Basic Customization of the Default Cisco Adaptive Security Appliance (ASA) WebVPN Portal The basic customization of the default WebVPN Portal is beyond the scope of this document. This customization is documented at:

http://www.cisco.com/en/US/docs/security/asa/asa84/asdm64/configuration_guide/vpn_clientless_ssl.html#wp2207 465

Basic customization includes changing the logo, fonts, and text/background colors. You can also choose which panels are to be displayed.

Full Customization of the Cisco Adaptive Security Appliance (ASA) WebVPN Portal

The process and behavior of full customization for the Logon and Logout Pages and the Portal Page differ slightly. We pair the Logon and Logout Pages because the Logout Page uses many of the customizations from the Logon screen.

The custom pages (html and graphics) used in this method are directly uploaded to the ASA. An external webserver is not used.

On the custom Logon Page, when we replace the default pre-defined Logon Page with a custom page, all of the "Logon custom object" settings will not be applicable, and will be ignored and not displayed. Only the custom HTML file will be displayed. The custom Logon Page should at minimum have the code to display the Logon form:

```
<body onload="csco ShowLoginForm('lform');csco ShowLanguageSelector('selector')">
<div id="selector" style="width:
300px"></div>
<div id=lform >

Loading...
</div>
<+r>
```

When creating a custom Portal Page, we technically mean a custom Home Page. In the custom Portal Page, we can still show all the other panels, along with a custom Home Page, without the custom panes. Custom panes are not applicable, and are ignored and not displayed, whenever a custom Home Page is used.

The custom Home Page should at minimum have hyperlink graphics and text with mangled links, also known as bookmarks. Creating this custom Home Page will be the main focus of the remainder of the document.

The recommended approach for creating the custom Home Page is to first create the bookmarks, using the default Portal Page. This will automatically create mangled links, which we can then retrieve and use in our Custom Page. To retrieve the links, right-click on the area containing the links and view the source. This will obtain the bits of HTML code we need, which look like:

```
<a href="javascript:
parent.doURL('6666753A2F2F3139322E3136382E312E35312F253353706670625F66666622533513
1',[{ 'l' : '4753BCE5C12C2DA5C96B663BB8547DC2', 'n' : 4}],'get',false,'no',
false)">mySSH</a>
```

The above code is the mangled link generated by the ASA in the default Portal. In the actual Portal, all we see is the "mySSH" link. Instead of the text "mySSH" we can have a graphic representation, using some the following bit of code:

```
<a href="javascript:
parent.doURL('6666753A2F2F3139322E3136382E312E35312F253353706670625F6666622533513
1',[{ 'l' : '4753BCE5C12C2DA5C96B663BB8547DC2', 'n' : 4}],'get',false,'no',
false)"><img src=/+CSCOE+/ssh.png width="125" border=0></a>
```

In the above sample code, we replace the text "mySSH" with the HTML tag "img src" which is used to display an image on a web page.

Uploading the Graphics and HTML to the ASA

To upload graphics and HTML files to the ASA, go to Configuration \rightarrow Remote Access VPN \rightarrow Clientless SSL VPN Access \rightarrow Portal \rightarrow Web Contents in Cisco Adaptive Security Device Manager (ASDM).

Figure 5. Web Contents

File View Tools Wigards Window Hep Image: State Configuration	the second se	
Interest Access VPN Image: Configuration Provides and Provided Pr	Look For:	Go
evertee List 	elp	CISCO
A Add Delete & Connect d: 0 120107.237.204 13721.69.42.197 13721.69.42.197 13721.69.42.197 13721.69.42.197 13721.69.42.197 14250024/Jayconect.png 14250024/Jayconect.	cess > Portal > Web Contents	
Concerner of the server Plug-ins Instruction for offices Provide Server Plug-ins Concention Profiles Provide Server Plug-ins Concention Profiles Profiles Provide Server Plug-ins Concention Profiles Provide Server Plug-ins Provide Server Plug-ins Concention Profiles Provide Server Plug-ins Provide Server Plug-ins Provide Server Plug-ins Provide Server Plug-ins Provide Server Plug-ins Provide Server Plug-ins Provide Server Plug-ins	camples of Web contents include images and HTML content for constructing a custom home page	for clientless users.
I 12: 10: 237.204 I 17: 10: 42: 147 I 16: 10: 10: 147 <t< td=""><td></td><td></td></t<>		
	File Tune	
P2:168.1.2 P3:22.06.1.2 P4:2502:F4/aryconnett.spg P4:2502:F4/aryconnett.spg P4:2502:F4/aryconnett.spg P4:2502:F4/aryconnett.spg P4:2502:F4/aryconnett.spg P4:2502:F4/aryconnett.spg P4:2502:F4/aryconnett.spg P4:2502:F4/aryconnet.spg P4:2502:F4/ary	The Type	
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Process VPN Process	image/prig	
Bite Access VPN I Direction of Clambo Interview (Clambo Bitework (Clambo Access Bitework (Clambo Access Connection rolfies Sonart Long Directions Sol, VPI Access Interview (Clambo Directions Sol VPI Access Interview (Clambo Source Direction Plans Interview (Clambo Directionsol Constantion Interview (Clambo	image/png	
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Conscience Profiles Fordal Conscience Provides Conscience Pro	text/ntmi	
Forwal Forwal Forwal Forwal Forwal Forwards Clent-Server Play-Inc Clent-Server Play-Inc Clent-Server Play-Inc Clent-Server Play-Inc Clent-Server Play-Inc Forwarding	image/png	
Electronic Access VPN Po	image/png	
Control Server Playaber Cutorization Cutoriz	image/png	
Cuctowneation Performation	image/png	
Freeval Perves Pe	image/png	
Portal Access Rules Portal Rules Portal Access Rules Portal Rules Portarules Portal Rules Portal Rules	image/gif	
Port Forwarding Source Tournels Michanned Exp VPN Remote AAALocal Users Source Desitop Manager Cortificate Management Lanausee Localization Prevual Remote Access VPN SRe-to-Site VPN IP5 End:	text/x-html-include	
Device Management	Analy Decet	
».	mppny Keset	

In the screenshot above, note that the file name starts with either /+CSCOU+/ or /+CSCOE+/.

When importing, you have the option to require authentication or not. For the graphics/html files on the Logon/Logout Page, no authentication is required. The path for files which do not require authentication is /+CSCOU+/<filename>. For the graphics/html files on the Portal Page, authentication is required. The path for these files is /+CSCOE+/<filename>.

This table summarizes the upload and usage notes when using ASA as the web server:

	Logon Page	Portal Page
Authentication required?	No	Yes
Full Path	/+CSCOU+/ <filename></filename>	/+CSCOE+/ <filename></filename>
HTML File Type	.inc	.html

Example of a Fully Customized Cisco Adaptive Security Appliance (ASA) WebVPN Portal

SSL VPN Service	
Eile Edit View History Bookmarks Develop Window Help	
Image: Comparison of the style Image:	D- \$-
↔ 🕮 Apple Yahoo! Google Maps YouTube Wikipedia News (41) ▼ Popular ▼	
Custom Partal Example	

Figure 6. The Logon Page

The sample page above has the following elements:

- · Graphic which reads "Custom Portal Example"
- Graphic hyperlink for <u>Cisco AnyConnect Secure Mobility Client</u>
- Graphic hyperlink for Cisco
- Cisco code for the logon form

HTML code:

<html>

```
<body onload="csco_ShowLoginForm('lform');csco_ShowLanguageSelector('selector')">
<div align="center">
<img src=/+CSCOU+/banner_customPortal.png><br>

<<tr><<tr>><<tr>>><</d>

</a>

</a>

</a>

</a>

</a>

</a>

</a>

</a>

</a>
```

```
<div id="selector" style="width:
300px"></div>
```

Figure 7. The Portal Page



The sample page above has the following elements:

- Enabled toolbar panel
- Graphic which reads "Custom Portal Example"
- Graphic hyperlink for <u>Cisco AnyConnect Secure Mobility Client</u>
- Graphic hyperlink for <u>Cisco</u>
- Two links per bookmark; one for the graphic, the other for the text

HTML code:

```
<html>
<head><style>table {display:inline}</style></head>
<body>
<div style="text-align:center">
<img src=/+CSCOE+/banner customPortal.png><br>
<a href=http://www.cisco.com/go/anyconnect target=" blank"><img
src=/+CSCOE+/anyconnect.png width="150" height="150" border=0></a>
<a href=http://www.cisco.com target=" blank"><img src=/+CSCOE+/cisco.gif</pre>
width="150" border=0></a>
<hr width=50%>
<a href="javascript:
parent.doURL('6666753A2F2F3139322E3136382E312E35312F253353706670625F6666622533513
1',[{ 'l' : '4753BCE5C12C2DA5C96B663BB8547DC2', 'n' : 4}],'get',false,'no',
false)"><img src=/+CSCOE+/ssh.png width="125" border=0></a>
<br>
<center><a href="javascript:
parent.doURL('6666753A2F2F3139322E3136382E312E35312F253353706670625F66666622533513
1',[{ 'l' : '4753BCE5C12C2DA5C96B663BB8547DC2', 'n' : 4}],'get',false,'no',
false)">mySSh</a> <br>SSH Java plug-in
<a href="http://www.webex.com" target=" blank"><img src=/+CSCOE+/webex.gif</pre>
width="125" border=0></a>
<br>
<center><a href="http://www.webex.com" target=" blank">webex</a> <br>Direct
<<< snipped the other links out >>
<hr width=50%>
</div>
```

```
</body>
</html>
```

Figure 8. The Logout Page



The sample page above is automatically generated when we create the custom Logon Page. The text and the Logon button can be further customized in the Logout Page section on the "Edit Customization Object" page in ASDM.

Other Useful Things to Know

• Since HTTP and HTTPS cannot coexist in the same browser window or tab, direct (not mangled) hyperlinks to HTTP websites in the custom Home Page should be forced to open in a new browser window or tab. This can be done using the target="__blank" code in the "a href" HTML tag. Here is an example:

webex

• Forcing mangled hyperlinks to open in a new browser windows is also possible. A parameter which is used by the parent.doURL() function needs to be changed from false to true.

You will no longer see the following text:

```
<a href="javascript:
parent.doURL('756767633A2F2F7A6C63756261722E6F7265787279726C706279797274722E72716
8',[{ 'l' : 'BBFE958449D2E2E8A60228AE861969F7', 'n' : 4}],'get',false,'no',
false)">
```

Instead, you will have:

```
<a href="javascript:
parent.doURL('756767633A2F2F7A6C63756261722E6F7265787279726C706279797274722E72716
8',[{ 'l' : 'BBFE958449D2E2E8A60228AE861969F7', 'n' : 4}],'get',false,'no',
true)">
```



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