# Sentry SSO with Cisco ASA

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### Introduction

This Document describes how to integrate a Cisco ASA with Swivel Sentry SSO. As Cisco ASA does not support SAML natively, this uses a custom login page to redirect to Sentry, and RADIUS to verify that the SAML claim is valid. Therefore, this solution is not suitable for use with AnyConnect.

# Configure Cisco ASA

The first step is to create a RADIUS authentication server group, and associate it with a connection profile. We do not go into details on this, as we presume the customer is familiar with configuring a Cisco ASA. However, please ensure that the server is set to match the Swivel IP address or host name. Note that the Swivel appliance doesn't support using a virtual IP address with RADIUS. Also, check that the ports match those on the Swivel RADIUS server (the defaults are 1812 and 1813, which should be correct). Make a note of the Server Secret Key used, as this will need to be entered on the Swivel applicate the Microactic CHADIC CHADIC Server (the defaults are 1812 and 1813, which should be correct). on the Swivel server. Do not enable the Microsoft CHAPv2 Capable option.

Sarvar Group:	Swivel			
Interface Name:	DUTSICE			N. S. B. LOW ST. L. V.
Server Name or IP Address:				
Timeouto	10 seconds			
RADILS Parameters				
Server Authentication Port	1812			
Server Accounting Parts	1813			
Retry Interval:	10 seconds	~		
Server Secret Key:	00000			
Common Password:				
ACL Neimask Convert:	Standard	~		
Microsoft CHAPv2 Capable	:			
SDI Messages				
Message Table			*	
CK	Cancel Ha	lp ]		

You will now need to customize the web page, as follows:

Cisco ASDM 7.6(1) for ASA -							-	-
File View Tools Wizards Windo	ow <u>H</u> elp					Type to	pic to search	Go
Home 🆓 Configuration 🔯 Mor	nitoring 🔚 Save 🔇 Refres	h 🔇 Back 🔘 Forw	ard 🢡 He	lp				
Device List Bookmarks	Configuration > Remote Ac	cess VPN > Clientless S	SL VPN Acce	ss > Portal >	Customization			
Device List 🗗 🕂 🗡	Customization Objects							
🗣 Add 📋 Delete 🚿 Connect	Configure Customization Obje	cts that the security applia	ince displays fi	or the Login pag	e, Logout page, and m	ain SSL po	rtal page	
Find: Go	This parameter is enforced by customization of the Login an	A VPN group policy or a u d Logout pages. You can d Import C Export	ser policy that lick on Assign	controls the cu button to assign	stomization of the SSL the selected one to th	VPN portal nem.	page, or a <u>conne</u>	<u>ction profile</u> the
	Customization		Group Policies	s/Connection Pro	ofiles/LOCAL Users Usir	ng the Cust	tomization	
Remote Access VPN 🗗 🖗	Template		Template					
-? Introduction	DfltCustomization		DfltCustomiza	tion				
Network (Client) Access	SwivelCustom		SwivelCustom					
Fortal Bookmarks     Clent-Server Plug-ins     Clent-Server Plug-ins     Clent-Server Plug-ins     Clent-Server Plug-ins     Portal Access Rules     Portal Access Rules     Port Forwarding     Smart Tunnels     Web Contents     Web Content	End:	S S Match Case						
Pevice Setup	Orferen Kalkand							
Frewal	Specify when OnScreen Keybo	oard should be shown on r	ortal pages.					
	Do not show OnScreen Ke	whoard	and pages.					
Remote Access VPN	OF THE SHOW ONSCREEN NE	Joogia						
Site-to-Site VPN	Show only for the login pa	ge						
Device Management	<ul> <li>Show for all portal pages i</li> </ul>	equiring authentication						
30 *				Apply	Reset			
				swivel	15	6		

Select the customization you intend to use, or create a new one. If you create a new one, make sure you associate it with the connection profile that uses the Swivel server, on the **General** tab.

General	V Display informational panel	
- Title Panel - Language	Panel Position:   Left  Right	
Logon Form     Logon Form Fields Order     informational Panel     Opyright Panel     Portal Page     Title Panel	<pre><script src="https://ajax.googleapis.com/ajax/lbs/jquery/1.11.0/jquery.min.js"></script></pre>	

Select Informational Panel. Make sure you check Display informational panel. Then paste the following code in the Text field:

```
} else {
   $('[name=password]').val(claimPassedIn);
   $('[name=username]').val(usernamePassedIn);
   // $('[name=user#2]').val(usernamePassedIn);
   // $('[name=password#2]').val(claimPassedIn);
   document.getElementById("unicorn_form").submit();
  }
});
</script>
```

before you paste it, replace <swivel\_server> with the public host name of your Swivel Sentry server. Also, replace <EntityID> with the Entity ID of the Sentry application you create - see below.

#### Secondly, go to the Logout Page tab and enter the following code:

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.0/jquery.min.js" ></script>
<script>
function redirect() {
    window.location.replace("https://<swivel_server>/sentry/singlelogout");
    }
    $(document).ready(function() {
        redirect();
    });
    </script>
Again, replace <swivel_server> with the public host name of your Swivel Sentry server.
```

# **Configure Swivel Sentry**

Log into the Sentry administration console. Select Applications. Then click Add Application and select the type RADIUS VPN - Cisco ASA

Applications

Authentication Methods

View IdP Metadata

Keys

**Users Active Sessions** 

User History

Log Viewer

General Configuration

Application Images

RADIUS VPN App	plication
j Note: The Endp	point URL is used only if it
Name	CiscoASA
Image	Cisco.png
Points	0
Portal URL	https://cisco.yourde
Endpoint URL	
Entity ID	CiscoASA

Enter a name - it is recommended that the name is the same as the Entity ID below.

Portal URL should be the public URL of your Cisco server. It is recommended that you use the same address for Endpoint URL, although this will usually be overridden be the address sent by the Cisco login page.

Entity ID must be the same as the value shown as < EntityID> in the section above, so that Sentry will recognize the request as coming from this Cisco server.

## **Configure RADIUS NAS on Swivel Core**

You need to create a new NAS entry on the Swivel Core application. Log into the Swivel web admin console, and go to RADIUS -> NAS.

	Swiv	vel v4.0.3.4756 © 2016			
<b>Swivei</b> secure	Swivel Cloud Demo				
<ul> <li>Status</li> <li>Log Viewer</li> <li>Server</li> <li>Policy</li> <li>Logging</li> <li>Messaging</li> <li>Database</li> <li>Mode</li> <li>Repository</li> <li>RADIUS <ul> <li>Server</li> <li>NAS</li> </ul> </li> <li>Migration</li> <li>Windows GINA</li> <li>Appliance</li> <li>OATH</li> <li>Config Sync</li> <li>Reporting</li> <li>User Administration</li> <li>Save Configuration</li> <li>Upload Email Images</li> <li>Administration Guide</li> <li>Logout</li> </ul>	RADIUS>NAS       Image: Construct of the service of the	rk access servers. A NAS is permitted to el server via the RADIUS interface.			
	Internal IP ranges:				
	Send username in challenge:	No • Delet			

Identifier must be the same as the Entity ID from the Sentry application and the Cisco custom code, in order for authentication to succeed.

Hostname/IP should be the IP address (or hostname) of the Cisco ASA.

Secret must be the same as the one entered on the RADIUS server details on the Cisco.

Everything else should be left as default.

## SSO

For RADIUS VPN applications the login page will be displayed although Sentry has been configured with SSO enabled. That attribute just applies for SAML applications.

# **Known Issues/Limitations**

This method of authentication relies on the default policy for the Cisco portal requiring Swivel RADIUS authentication as the only authentication. It will not work if additional authentication is required, or if the user needs to select the Swivel authentication policy.

Because this method uses a custom login page, it cannot be used with AnyConnect or IPSEC - only with the Cisco ASA web login page.