

External authentication with Barracuda SSL VPN Authenticating Users Using SecurAccess Server by SecurEnvoy

Contact informatio	n	
SecurEnvoy	www.securenvoy.com	0845 2600010
	1210 Parkview	
	Arlington Business Park	
	Theale	
	Reading	
	RG7 4TY	
Phil Underwood	Punderwood@securenvoy.com	



Barracuda SSI VPN (Radius) Integration Guide

This document describes how to integrate a Barracuda SSL VPN appliance with SecurEnvoy two-factor Authentication solution called 'SecurAccess'.

The Barracuda SSL VPN appliance provides - Secure Remote Access to the internal corporate network.

SecurAccess provides two-factor, strong authentication for remote Access solutions (such as Barracuda SSL VPN appliance), without the complication of deploying hardware tokens or smartcards.

Two-Factor authentication is provided by the use of your PIN and your Phone to receive the onetime passcode. This can be either via SMS, email or using a SecurEnvoy Soft Token installed upon the phone.

SecurAccess is designed as an easy to deploy and use technology. It integrates directly into Microsoft's Active Directory and negates the need for additional User Security databases. SecurAccess consists of two core elements: a Radius Server and Authentication server. The Authentication server is directly integrated with LDAP or Active Directory in real time.

SecurEnvoy Security Server can be configured in such a way that it can use the existing Microsoft password. Utilising the Windows password as the PIN, allows the User to enter their UserID, Windows password and One Time Passcode received upon their mobile phone. This authentication request is passed via the Radius protocol to the SecurEnvoy Radius server where it carries out a Two-Factor authentication. SecurEnvoy utilises a web GUI for configuration. All notes within this integration guide refer to this type of approach.

The equipment used for the integration process is listed below:

Barracuda

Barracuda SSL VPN appliance

SecurEnvoy

Windows 2008 server R2 64bit IIS installed with SSL certificate (required for remote administration) Active Directory installed or connection to Active Directory via LDAP protocol.

SecurAccess software release v5.4.503



Index

1.0	Pre Reguisites	. 3
2.0	Configuration of Barracuda SSL VPN	4
3.0	Configuration of Real time SMS passcodes	. 8
4.0	Configuration of SecurEnvoy	. 8

1.0 Pre Requisites

It is assumed that the Barracuda SSL VPN appliance is setup and operational. An existing Domain user can authenticate using a Domain password and access applications, your users can access through SSL VPN using Domain accounts.

Securenvoy Security Server has a suitable account created that has read and write privileges to the Active Directory, if firewalls are between the SecurEnvoy Security server, Active Directory servers, and the Barracuda SSL VPN appliance, additional open ports will be required.

NOTE: SecurEnvoy requires LDAP connectivity either over port 389 or 636 to the Active Directory servers and port 1645 or 1812 for RADIUS communication from the Barracuda SSL VPN appliance®.

NOTE: Add radius profiles for each Barracuda SSL VPN appliance® that requires Two-Factor Authentication.



2.0 Configuration of Barracuda SSL VPN

Configuring Barracuda SSL VPN to authenticate to SecurEnvoy RADIUS server There are 3 steps involved, Configuring the RADIUS server settings, setting up a RADIUS authentication scheme, testing logon via RADIUS.

- 1. Log onto the SSL VPN and navigate to Advanced>Configuration.
- 2. In the RADIUS section, enter the correct values for the SecurEnvoy server.

Barracuda SSL VPN: Advanced System Configuration	n - Mozilla Firefox				
<u>File Edit View History Bookmarks Tools Help</u>	Eile Edit View Higtory Bookmarks Iools Help				
🔇 🚬 🕈 C 🗶 🏠 🔄 1014.0.39 https://10.14.0.39/showAdvancedSystemConfiguration.do 🖄 🔹 🚼 📩 firefox self signed exception 🔎 🤱					
🖉 Most Visited 🗋 Getting Started 🔜 Latest Headlin	nes				
RADIUS			Save Changes ?		
RADIUS Server	10.14.0.37				
Authentication Port	1812		This is the port number stipulated for the RADIUS authentication process. It MUST be a valid integer port between 0 and 65535. Default (1812).		
Backup RADIUS Servers	Hostname Add >> << Remove	Hostnames	Host names of backup RADIUS Servers.		
Accounting Port	1813	Ţ	This is the port number stipulated for the RADIUS accounting process. It MUST be a valid integer port between 0 and 65535. Default (1813).		
Shared Secret	•••••		The RADIUS shared secret which has been set up on the RADIUS server.		
Authentication Method	PAP		If your server does not use a specific authentication method, this value is ignored. The only methods that are currently supported in this configuration are PAP, CHAP, MSCHAP and MSCHAPV2		
Time Out	30		The timeout for a RADIUS message.		
Authentication Retries	2		The number of retries for a RADIUS message.		
RADIUS Attributes	Attribute Add >>	Attributes User-Name = %USEF ^ User-Password = %P	The RADIUS attributes required to execute the request.		
Username Case	● As Entered ● Force Upper Case ● Force Lower Case	×	Setting that defines what case the username is sent to the RADIUS server. Options are to leave as entered, force to upper case or force to lower case.		
Password Prompt Text	RADIUS Password		Customize the RADIUS password prompt text.		
Reject Challenge	● Yes ● No		Reject a challenge-response request from the RADIUS server. Default (true)		
Challenge image URL			A URL for generated challenge images. Leave blank to disable.		
a find ratio					
Done	revious 🖌 Highlight <u>a</u> ll 🔲 Mat <u>c</u> h case		AES-128 128-bit 🔒 🍫		

Required settings:

RADIUS Server: the hostname or IP address of the SecurEnvoy server.

Authentication Port: normally 1812 unless this has been changed in the SecurEnvoy server. Shared secret.

Authentication Method: PAP Save these settings.



3. Navigate to Access Control>Authentication Schemes.

Create a new Authentication Scheme, give it a meaningful name (e.g RADIUS or SecurEnvoy).

Choose the RADIUS module as a minimum (you may also choose other modules if you require multi factor authentication).

Set which Policies in SSL VPN will have permission to log on using the RADIUS scheme.

Click Add





larracuda SSL VPN: Authentication Schemes - Mozilla Firefox	
Edit View Higtory Bookmarks Iools Help	
C X 🏠 🛃 https://10.14.0.39/showAuthenticationSchemes.do	😭 👻 🚼 🔹 firefox self signed exceptior 🔎
Aost Visited 📄 Getting Started <u>a</u> Latest Headlines	
Barracuda SSL VPN: Authentication S 🔶	
	Default ssladmin
ARRACUDA A	Manage Account
	Logoff
DASIC RESOURCES ACCESS CONTROL ADVANCED	A second Disklar NAC
Accounts Groups Policies User Databases	Access Rights NAC
Authentication Scheme SecurEnvoy saved.	
Create Scheme	?
• Name	
Available modules	Selected modules
Client Certificate	
IP Authentication	
Password	-
Available Policies	Selected Policies
Everyone Add >>	A
<< Remove	
	· ·
Add	
Authentication Schemes	?
Apply Filter Reset	
Name	Actions
Password	Edit Copy Delete More
WebDAV	Edit Copy Delete More
	Edit Copy Delete More
Serial #BAR-VS-193827 Errowara 1 7 7 008 2010-06-14 02:57	Protected By CRARRACUDA
VPN 1.7.2 Model: V00	Copyright 2010 Barracuda Networks, Inc.
PROJECT TOP	
nd: radius 🔶 Next 👕 Previous 🖌 Highlight all 🔲 Match case	
	AES-128 128-bit 🔒 🕻

If you wish the RADIUS scheme to be the default option, increase its priority using More...>Increase Priority.

4. Test logon.

On the SSL VPN login page, you enter your username and click Login

You will see 'There are other methods of authentication available'. Click on click here and then choose the RADIUS authentication scheme



Most Visited 🚺 Getting Started 🔒 Latest	Headlines
	*
SSE VPW VX	
	Login
	Select Authentication Scheme
	Authentication Scheme: Password Pessword
	on Campseudinoy
	Protocol Dr. Descont
	Production by Construction
	Capyroph 2021 Bernands Intervents Inc.

Click OK. (Note that you do not have to do this stage if you remove the default Password authentication from the Authentication Schemes page

Barracuda SSL VPNI Login - M	Aozila Firefox	
jile [dit Yiew Higtory Boo	kmerks Iools Help	
C × A	Carlos Https://10.14.0.39/default/showLogon.do	- 🚮 - firefox self signed excepti 🖉
Most Visited Getting Sta	ted 🍝 Latest Headlines	
Barracuda SSL VPN: Login		
SSI W	UA Pr	
	Login Welcome to Barracuda SSL VFR, a secure gateway to your network.	
	Password Login Cancel	
	Se Virtual Keyboard	
		Protected By
		Copyright 3233 Barrersola Halworks, Sm.
Find radius	A Net & Project & Highlight all I Match and	
one	A Ter a Douge & relatively Charlenge	AES-128 128-bit 🍐 💼

Now enter your SecurEnvoy passphrase (normally your AD password combined with your 6 digit passphrase). Click Login.

You should now be logged onto your SSL VPN:

Barracuda SSL VPN: My Favorites - 1	Mozilla Firefox	
File Edit View History Bookmarks	Tools Help	
	1014.0.30 https://10.14.0.30/chowEnvorites.do	🗠 z 🚺 z firefov celf rigned evcenti 🖉 <table-cell></table-cell>
	TOTANDS Intps//10.140.35/snowi avontes.do	
A Most Visited Getting Started	Latest Headlines	
🚽 Barracuda SSL VPN: My Favorite	s +	*
		chris
		Logoff
SSL VPW VX	MY ACCOUNT RESOURCES	
My Favorites	Attributes	
My Favorites		?
0		
My Computer		
Serial #BAR-VS-193827 Firmware 1.7.2.008 2010-06-14 02:57		Protected By ARRACUDA
VPN 1.7.2 Model: V80		Copyright 2010 Barracuda Networks, Inc.
X Find: radius	Next 🛧 Previous 🖉 Highlight all 🔲 Match case	
http://www.barracudapetworks.com/	Vigent Erevious Frighlight all Match case	AFS_128 128_bit 🗛 🍖
http://www.banacudanetworks.com/		AL3-120 120-010



3.0 Configuration of Real time SMS passcodes

NOTE: If you wish to use the Real Time SMS delivery of passwords, then there is one extra setting required. Log on to SSL VPN as ssladmin and navigate to Advanced>Configuration. In the RADIUS section, set Reject Challenge to No:

This setting is set to Yes by default as some RADIUS servers do not seem to adhere very well to the RADIUS RFC for the challenge part of the protocol.

4.0 Configuration of SecurEnvoy

To help facilitate an easy to use environment, SecurEnvoy can be set up to only authenticate the passcode component as both authentication servers that are required to authenticate a remote user.

SecurEnvoy supplies the second factor of authentication, which is the dynamic one time passcode (OTP) which is sent to the user's mobile phone, via SMS, email or generated by the Soft Token.

Launch the SecurEnvoy admin interface, by executing the Local Security Server Administration link on the SecurEnvoy Security Server.

- 1. Click the "Radius" Button
- 2. Enter IP address and Shared secret for each Barracuda SSL VPN appliance that wishes to use **SecurEnvoy** Two-Factor authentication.

TRAL ENDS IN 48 DAVS 35 SMS WED TEXTS LEFT SecurEnvoy Corig Radus Securital Log W	Security Server Admin	Liconses Used Access@Password14 of 100 Securitari 1 of 100 ICE:0 of 100 (30 days left) Log Out
Radius		License Expires 1st Jul 2011
Network Access Server #100.00.11 #100.10.21 #100.10.210 #127.00.1	NAS IP Address Formal xxx.xxx.xxx Shared Secret	coc or default for undefined IP's) = = I Access Challange All = Wx2006 com = Select All Change Group
	Leave group blank to authenticate Override customer name in SMS message with	Max 20
Delete Selected	Pass Back Data To Radius Client in Attrabute 25 No information is passed back Passimuti is passed back LDAP group members are passed back (Return disting Usin's Distinguished Name Upstate	guished names) New
2010 Copyright SecurEnvoy Ltd. All rights reserved	ter and the second s	rtegration Guides FAQ Version 5.4.503

- 3. Press Update
- 4. Now Logout

