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## 1 McAfee IPsec

## 2 Overview

Swivel can provide strong and two factor authentication to the McAfee IPsec solution.

## 3 Demos

TURing	SMS	Mobile App.
McAfee IPsec & Swivel TURing	McAfee IPsec & Swivel SMS	McAfee IPsec & Swivel Mobile App.

# **4 Stonesoft Integration**

## **5 Introduction**

This document describes steps to configure a Stonesoft Firewall SSL VPN with Swivel as the authentication server.

Swivel integration is made using RADIUS authentication protocol with an option to configure the login page. Depending on your needs, you can modify the default customization object or create a new customization object. There are many ways to configure it to work with Swivel.

To use the Single Channel Image such as the TURing Image and PINpad, the Swivel server must be made accessible. **The client requests the images from the Swivel server, and is usually configured using a NAT** (Network Address Translation), often with a proxy server. The Swivel appliance is configured with a proxy port to allow an additional layer of protection.

# **6 Prerequisites**

Stonesoft Firewall

Swivel 3.x

Modified login page for TURing

Modified login page for PINpad

## 7 Baseline

Stonesoft 4.9.9|1050

Swivel 3.9

## **8 Architecture**

Stonesoft makes authentication requests against the Swivel server by RADIUS.

The client makes TURing requests against the Swivel server using HTTP/HTTPS

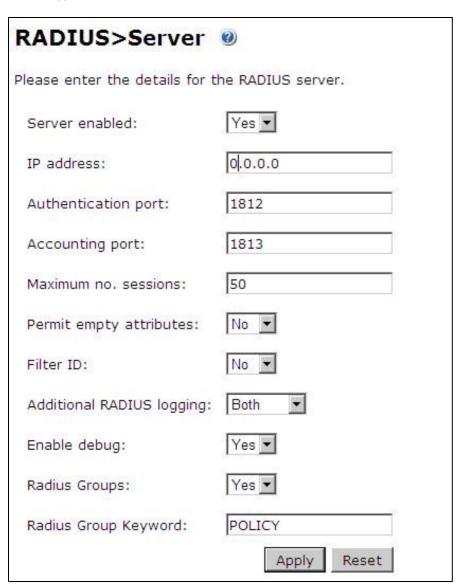
## 9 Swivel Configuration

#### 9.1 Configuring the RADIUS server

Configure the RADIUS settings using the RADIUS configuration page in the Swivel Administration console by selecting RADIUS Server. To turn on RADIUS authentication set **Server Enabled** to YES. The Host or IP address is the interface which will accept RADIUS requests, leave this blank (or use 0.0.0.0) to allow RADIUS requests on any interface.

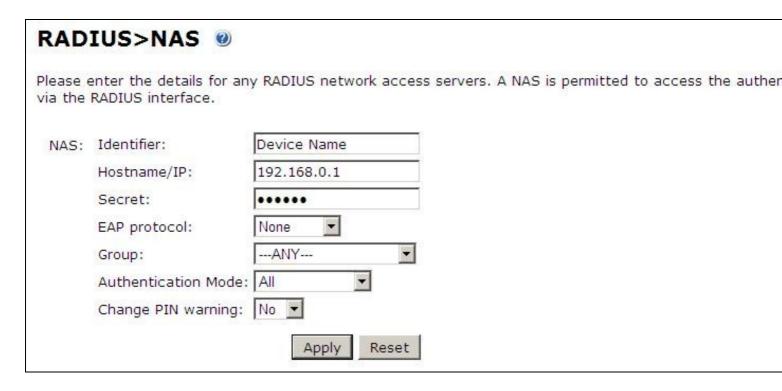
For troubleshooting RADIUS debug can be enabled together with the debug log option, see Debug how to guide

Note: for appliances, the Swivel VIP should not be used as the server IP address, see VIP on PINsafe Appliances



#### 9.2 Setting up the RADIUS NAS

Set up the NAS using the Network Access Servers page in the Swivel Administration console. Enter a name for the VPN server. The IP address has been set to the IP of the VPN appliance, and the secret ?secret? assigned that will be used on both the Swivel server and VPN RADIUS configuration.



You can specify an EAP protocol if required, others CHAP, PAP and MSCHAP are supported. All users will be able to authenticate via this NAS unless authentication is restricted to a specific repository group.

#### 9.3 Enabling Session creation with username

The Swivel server can be configured to return an image containing a TURing image by presenting the username via the XML API or the SCImage servlet.

Go to the ?Single Channel? Admin page and set ?Allow Session creation with Username:? to YES.

To test your configuration you can use the following URL using a valid Swivel username:

**Appliance** 

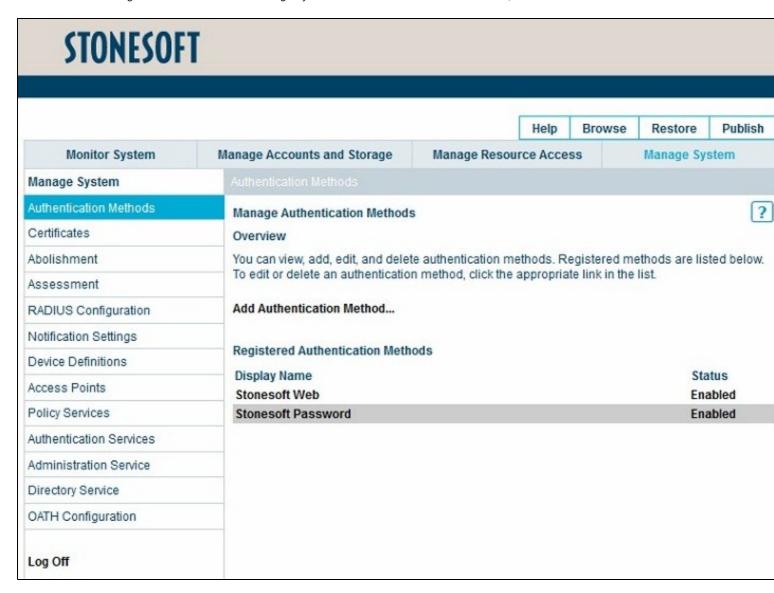
https://Swivel\_server\_IP:8443/proxy/SCImage?username=testuser

For a software only install see Software Only Installation

## **10 Stonesoft Configuration**

#### 10.1 Create a Radius Authentication Method

On the Stonesoft management console select the Manage System tab and then Authentication Methods, select Add Authentication Methods...



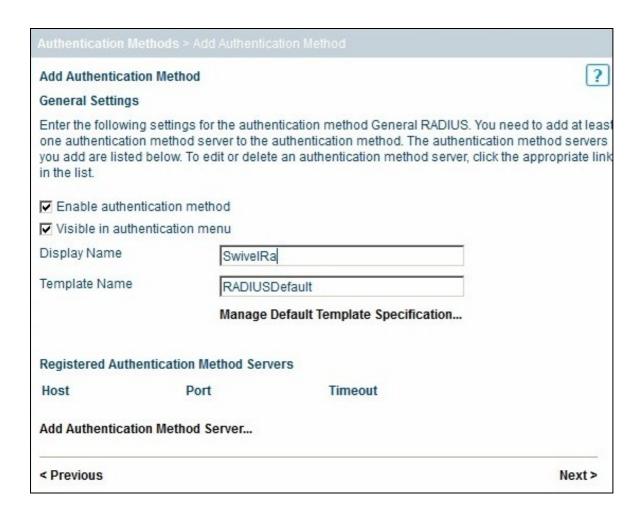
Select the General RADIUS authentication method

C Stonesoft Web C Stonesoft Challenge C Stonesoft Synchronized C Stonesoft Mobile Text C Stonesoft Password C Stonesoft OATH General RADIUS C SecurID C SafeWord O LDAP C Active Directory C IBM Tivoli O IBM RACE Novell eDirectory C Windows Integrated Login O NTLM C Basic C User Certificate C Extended User Bind C Form-Based Authentication O E-ID C E-ID Signer C Confidence Online C Custom-defined C Copy of Stonesoft Web •

Ensure the following are checked:

- Enable authentication methodVisible in authentication menu

Enter a Display Name, then click on Next.



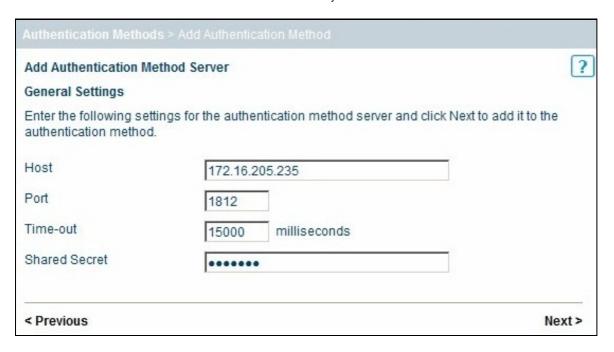
Enter the following information and when complete click Next:

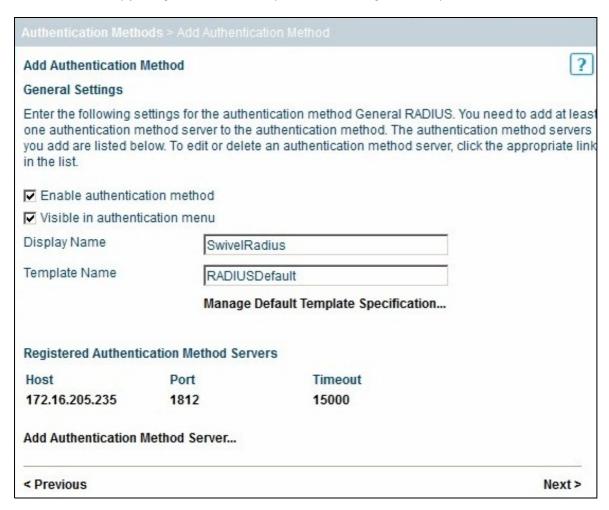
Host: Hostname/IP address of the Swivel server

Port: RADIUS authentication port, 1812 is the default for Swivel

Time-out: default 15000 milliseconds

Shared Secret: The shared secret entered on the Swivel NAS entry for the Stonesoft server



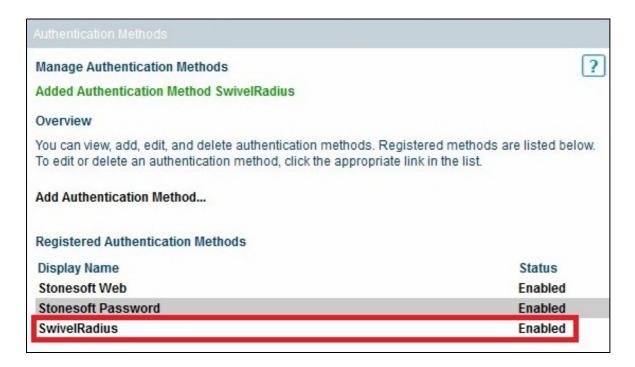


On the Extended Properties page click on Add Extended Property then select *Allow user not listed in any User Storage* and set it to *true*The *Reveal RADIUS reject reason* can be used for troubleshooting if set to true.



possibly not use: Stonesoft Authentication Method RADIUS Extended Properties.jpg

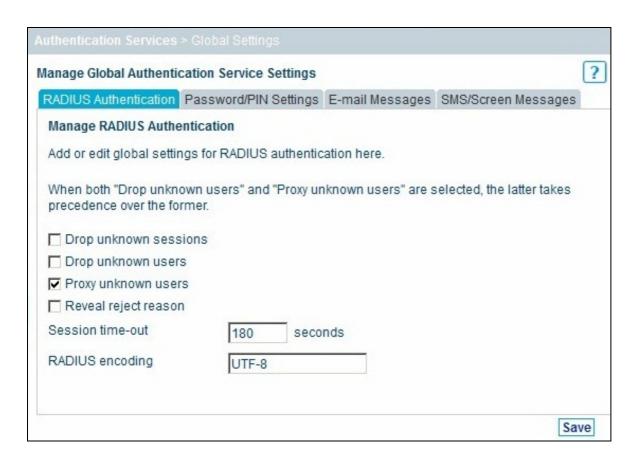
The configured RADIUS authentication method will appear under the list of Registered Authentication Methods.



Select Authentication Services then Add Authentication Service

Monitor System	Manage Accounts and Storage	Manage Resource Access	Manage System
Manage System	Authentication Services		
Authentication Methods	Manage Authentication Service	s	
Certificates	Overview		
Abolishment		te Authentication Services, as well as ma	anage global RADIU
Assessment	authentication and password/PI	N settings.	
RADIUS Configuration		es are listed below. To edit or delete an	
Notification Settings	Service Settings.	st. To manage global settings, click Mana	age Global Authentio
Device Definitions	Add Authentication Service		
Access Points	Aud Audientication Service		
Policy Services	Registered Authentication Serv	ices	
Authentication Services	Service ID	Display Name	Internal Hos
Administration Service	4	<b>Authentication Service</b>	127.0.0.1
Directory Service		the or constitution	
OATH Configuration	Manage Global Authentication S	service Settings	
Log Off			

On the RADIUS Authentication tab, ensure that *Proxy unknown users* is checked.



When the configuration is complete then select publish

			Help	Browse	Restore	Pu
Monitor System	Manage Accounts and Storage	age Manage Resource Access		ss	s Manage System	
	Publish Version					
	Configuration Published					
og Off	When the configuration has been published successfully, it is distributed to all servers in the Stonesoft network. For detailed information, please view the system log.					
	Published content - All files synch	nronized.				
	Access Points					
	Display Name	Host			Status	
	Access Point	127.0.0.1			Successfu	ıl publ
	Policy Services					
	Display Name	Host			Status	
	Policy Service	127.0.0.1			Successfu	ıl publ
	Authentication Services					
	Display Name	Host			Status	
	Authentication Se	127.0.0.1			Successfu	ıl pubi

### 10.2 Optional: Create a Secondary Authentication Server

These modifications are used only if some of the single channel features are required. The prerequisites section contains login pages for TURing and PINpad.

### 10.3 Login Page Customisation

The login page, GenericForm.html can be modified to allow a variety of different login methods.

To select a different login page browse to the files in:

/opt/portwise/administration-service/files/access-point/built-in-files/wwwroot/wa/authmech/base

select browse to select the source file, then click on Upload

	Name	Size	Тур
	[]		
	Applet.html	1.93 KB	.htm
	Dialog.html	1.97 KB	.htm
	Dialog.pda.html	1.10 KB	
	Dialog.wml	541 bytes	
	GenericForm.html	2.92 KB	
	GenericForm.pda.html	2.09 KB	.htm
	GenericForm.wml	1.34 KB	.wm
	SelfServiceForm.html	5.80 KB	.htm
	SelfServiceFormPIN.html	5.55 KB	.htm
	SelfServiceUserChallenge.html	3.05 KB	.htm
	setFocus.js	733 bytes	.js
	setFocus.pda.js	660 bytes	.js
	Web.jar	30.95 KB	.jar
	Web.js	5.45 KB	.js
	WebActiveX.cab	216.27 KB	.cab
	WebSkin.zip	14.13 KB	.zip
Selec		14.13 KB	2

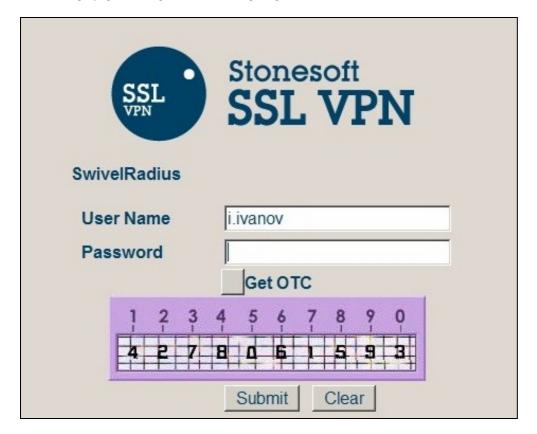
## 11 Testing

Browse to the login page and view the login page for the required configuration.

Stonesoft login page with Dual Channel using SMS, Mobile Client



Stonesoft login page with Single Channel TURing image





# 12 Additional Configuration Options

## 12.1 Two Stage Authentication

Swivel can be configured under the RADIUS/NAS settings to use Two Stage Authentication, whereby a password is entered and if correct the user is then prompted for a One Time Code, either from a graphical TURing image, mobile phone client or a Challenge and Response SMS sent to the user.

# 13 Troubleshooting

Check the Swivel logs for Turing images and RADIUS requests.

Image from PINsafe server absent

# 14 Known Issues and Limitations

None

## 15 Additional Information

For assistance in the Swivel installation and configuration please firstly contact your reseller and then email Swivel Secure support at support@swivelsecure.com