External Authentication with Juniper SSL VPN

Authenticating Users Using SecurAccess Server by SecurEnvoy

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Juniper® SSL VPN Access Service Integration Guide

This document describes how to integrate a Juniper® SSL VPN Access Service (Juniper SA) with SecurEnvoy two-factor Authentication solution called 'SecurAccess'.

Juniper SA provides Secure Remote Access and Firewalling to the internal corporate network.

SecurAccess provides two-factor, strong authentication for remote Access solutions (such as Juniper), 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 one time passcode)

SecurAccess is designed as an easy to deploy and use technology. It integrates directly into any LDAP server 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 in real time.

SecurEnvoy Security Server can be configured in such a way that it can use the existing LDAP password. Utilising the LDAP password as the PIN, allows the User to enter their UserID, Domain 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. It provides a seemless login into the Windows Server environment by entering three pieces of information. SecurEnvoy utilises a web GUI for configuration, as does the Juniper SA. All notes within this integration guide refer to this type of approach.

The equipment used for the integration process is listed below:

Juniper® SSL VPN Secure Access Service
Juniper® SSL VPN Secure Access Service Release 8.0R1 (build 27973)

SecurEnvoy

Windows 2012 R2 Server
IIS installed with SSL certificate (required for management and remote administration)
Active Directory installed or connection to Active Directory via LDAP protocol.

SecurAccess software release v7.3.501

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1.0 Prerequisites

It is assumed that the Juniper SA has been installed and is authenticating users with a username and password.

Securenvoy Security Server has been installed with the Radius service and has a suitable account that has read and write privileges to the Active Directory. If firewalls are between the SecurEnvoy Security server, Active Directory servers, and the Routing and Remote Access server(s), additional open ports will be required.

NOTE: *Add radius profiles for each Juniper SA that requires Two-Factor Authentication.*

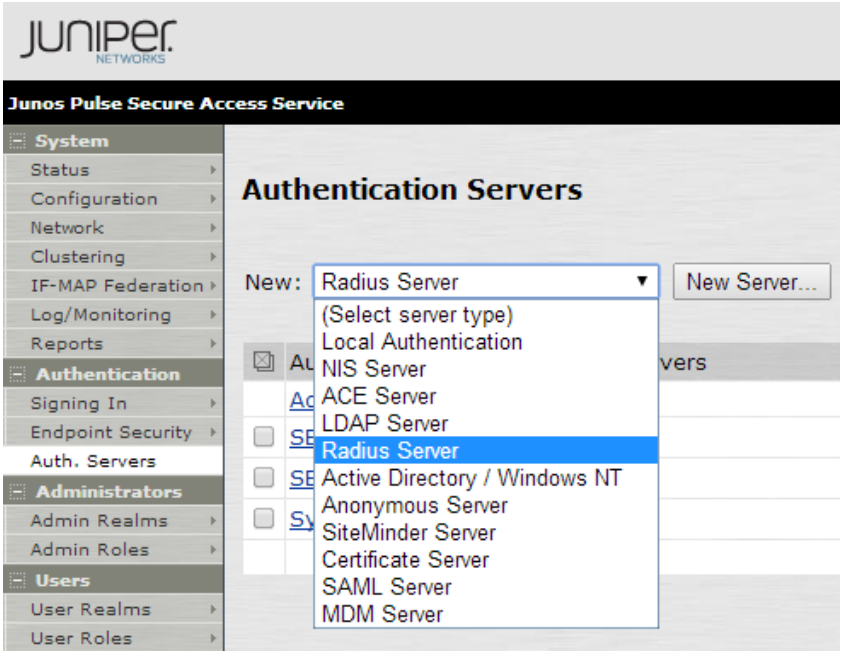
The following table shows what token types are supported.

Token Type Supported	
Real Time SMS or Email	✓
Preload SMS or Email	✓
Soft Token Code	✓
Soft Token Next Code	✓
Voice Call	✗
One Swipe	✗

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1.1 Configuration of Juniper® SA

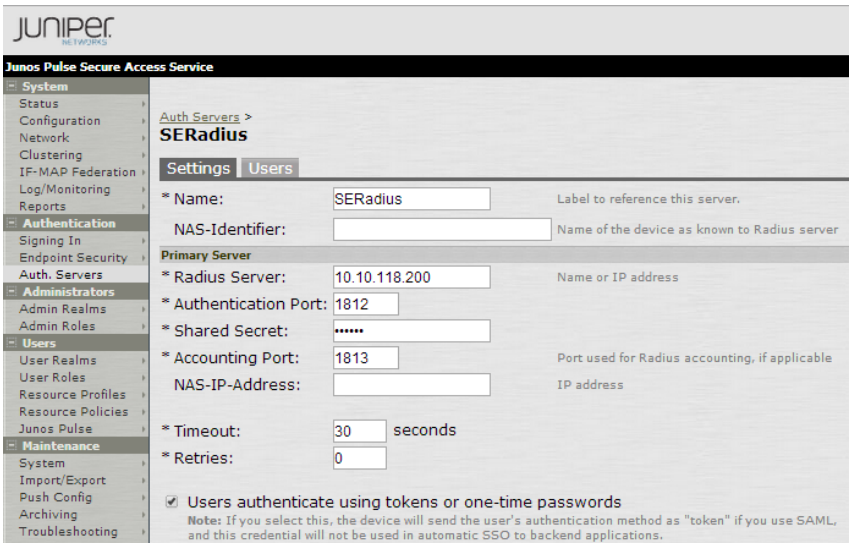
Launch the Junos Pulse Secure Access Service, select Auth Servers from Authentication, Navigate to "Authentication" "Auth. Servers" select new "Radius Server" and press "New Server"



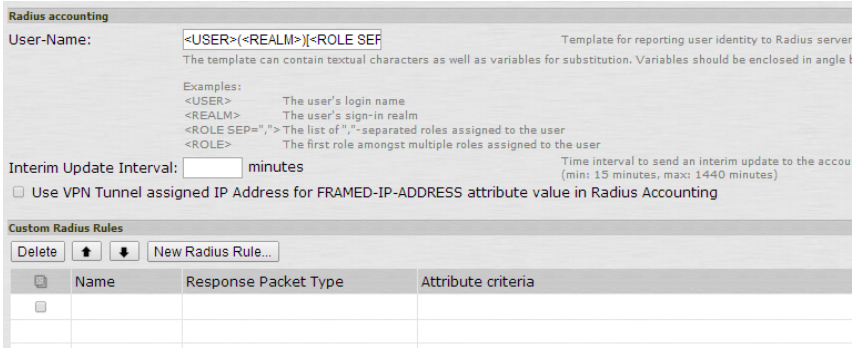
Populate information for the new Radius server (SecurEnvoy)
Enter Name, IP address, authentication port and shared secret.

SecurEnvoy recommends to set the timeout settings to at least 10 seconds or greater with a retry of 0.

If redundancy is required, enter details for a second SecurEnvoy Radius server.



Scroll to bottom and select "New Radius Rule" button



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Select Radius Attribute "Reply-Message(18)"
Select Operand "matches the expression"
Set Value to "Enter Your 6 Digit Passcode"

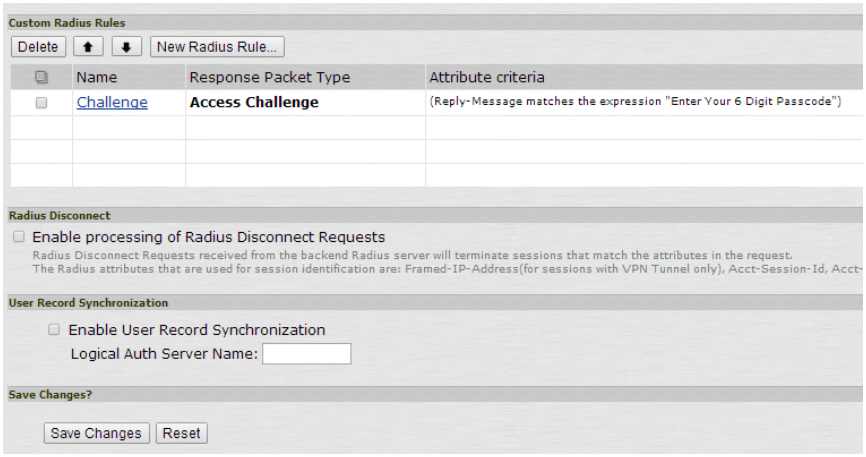
Press the "ADD" button to add this rule

Select Show GENERIC LOGIC Page

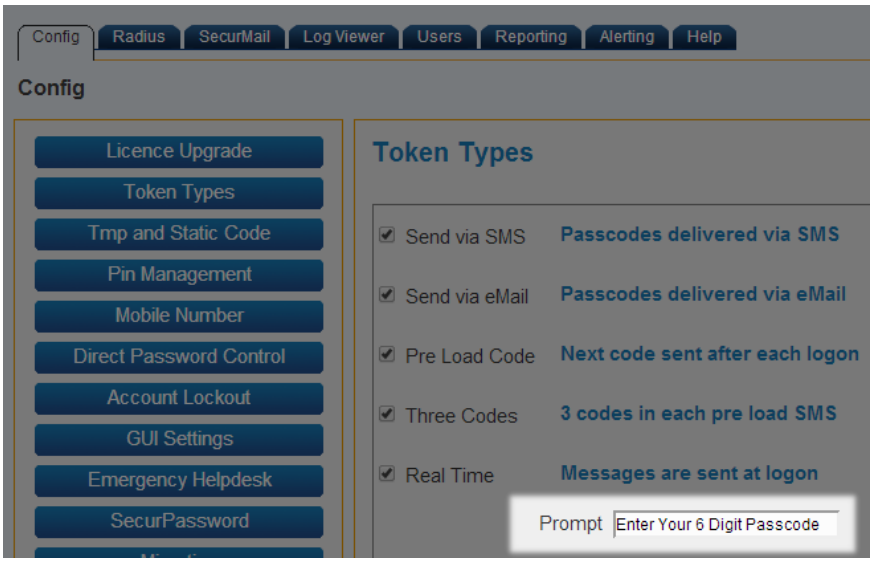


Press "Save Changes"

Press "Close"



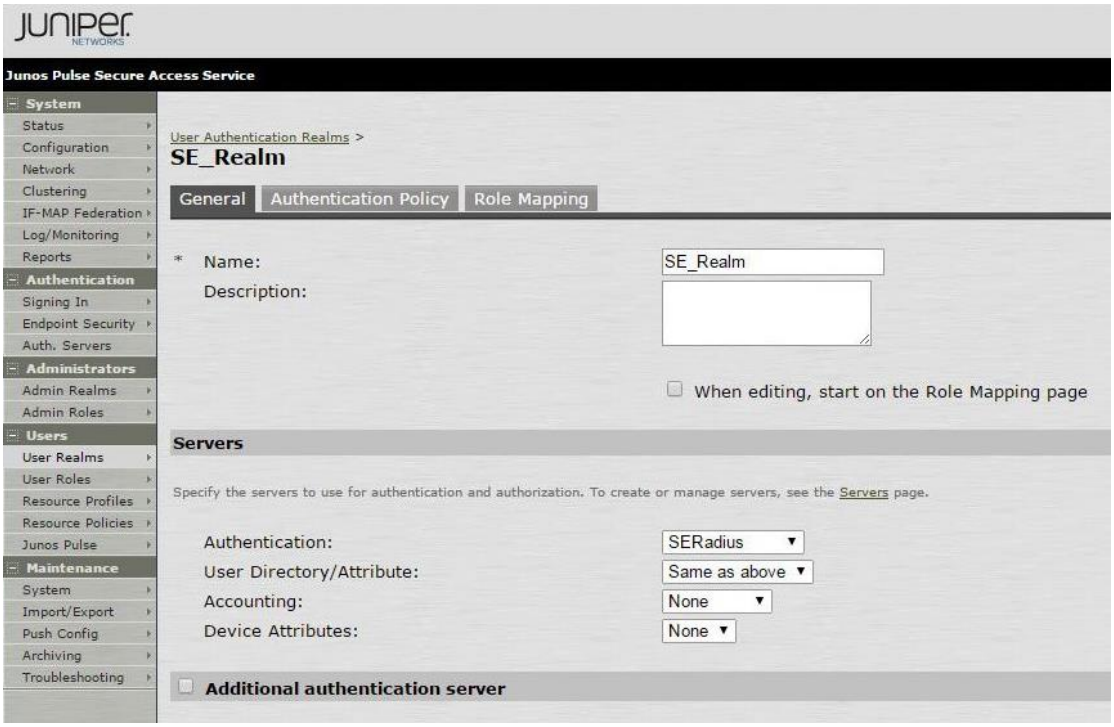
Note this value MUST match the setting in the SecurEnvoy GUI Config setting "Token Types" Prompt:



Click "Save changes" to submit all configuration parameters

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Navigate to "Users", "User Realms" and select the "New user realm" populate with a name and description (optional).



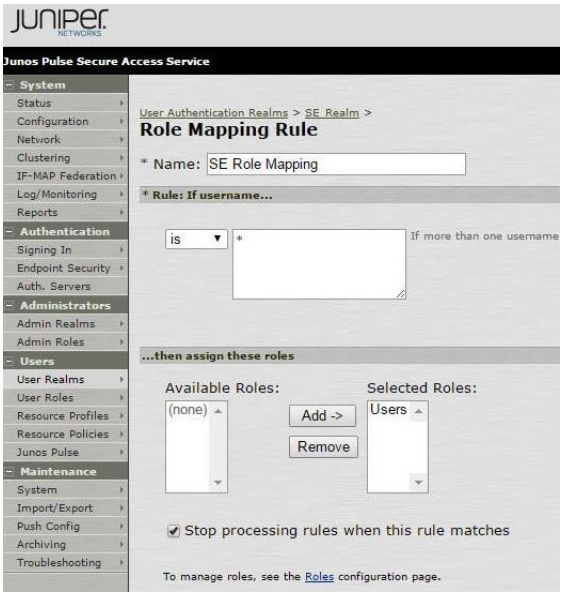
Ensure you have "SERadius" selected for Authentication.

Click "Save Changes"

Navigate to Role Mapping rule.

Make sure that rule is set for
(If username "is" *).

Save changes when complete



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Navigate to "Authentication" "Signing In" "Sign-in Pages

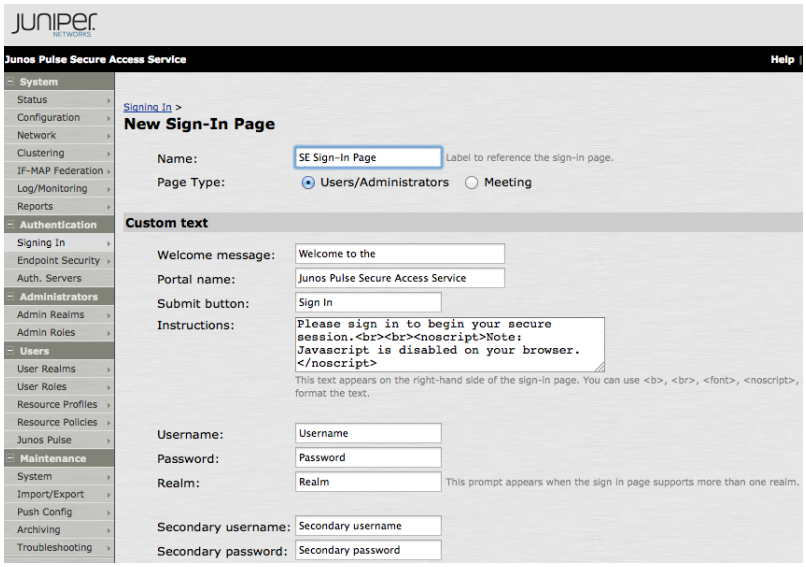
Select "New Page"



Then assign a name and keep default settings.

In this example sign in page is called "SE Sign-In Page".

Save changes when complete.



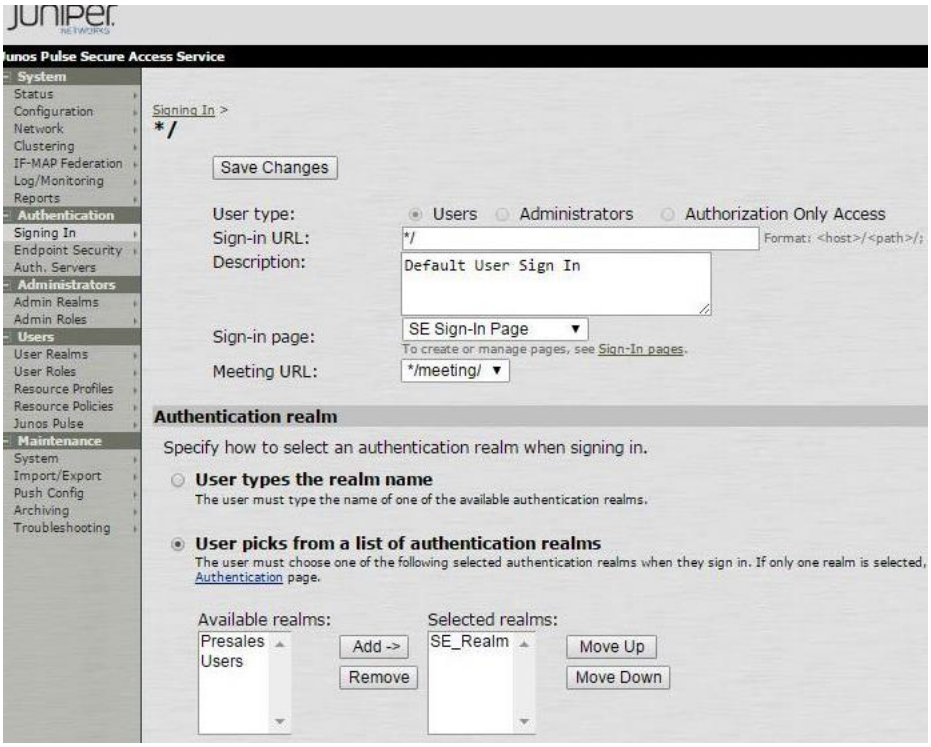
Select "Signing in – Sign-in policies"

Then select "New URL"

Set sign-in page to be "SE Sign-In Page"

Then select the SE_Realm in the Available realms list.

Save changes when complete.



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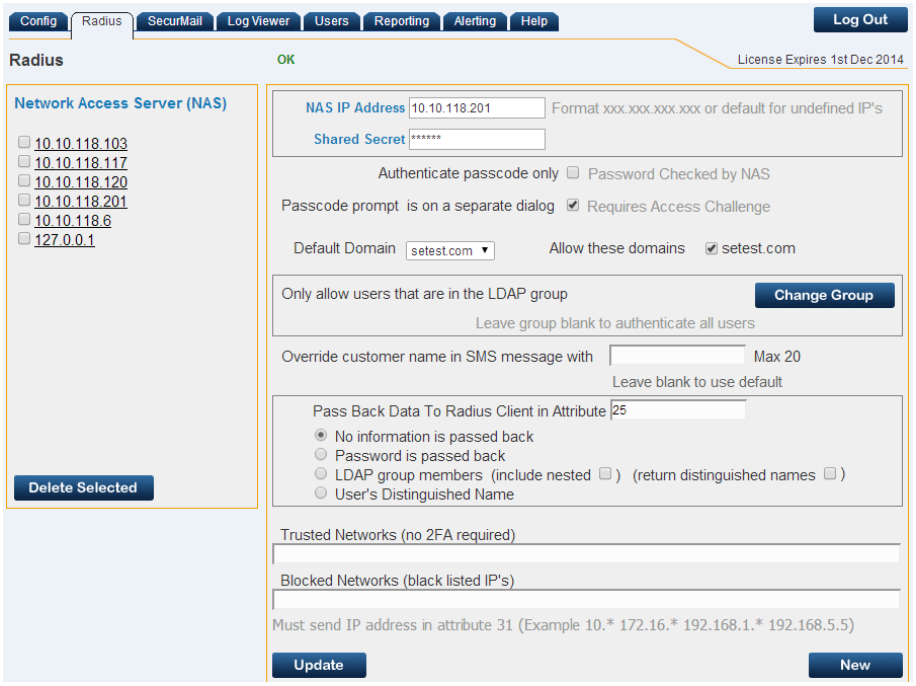
1.2 Configuration of SecurEnvoy

To help facilitate an easy to use environment, SecurEnvoy can be set up to use the existing Windows password as the PIN component. SecurEnvoy supplies the second factor of authentication, which is the dynamic one time passcode (OTP) which is sent or generated upon the user's mobile phone.

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

Click the **"Radius"** tab

Enter IP address and Shared secret for each Juniper SA appliance that wishes to use **SecurEnvoy** Two-Factor authentication.



Click checkbox "Passcode prompt is on a separate dialog".

Click **"Update"** to confirm settings.

Click **"Logout"** when finished. This will log out of the Administrative session.

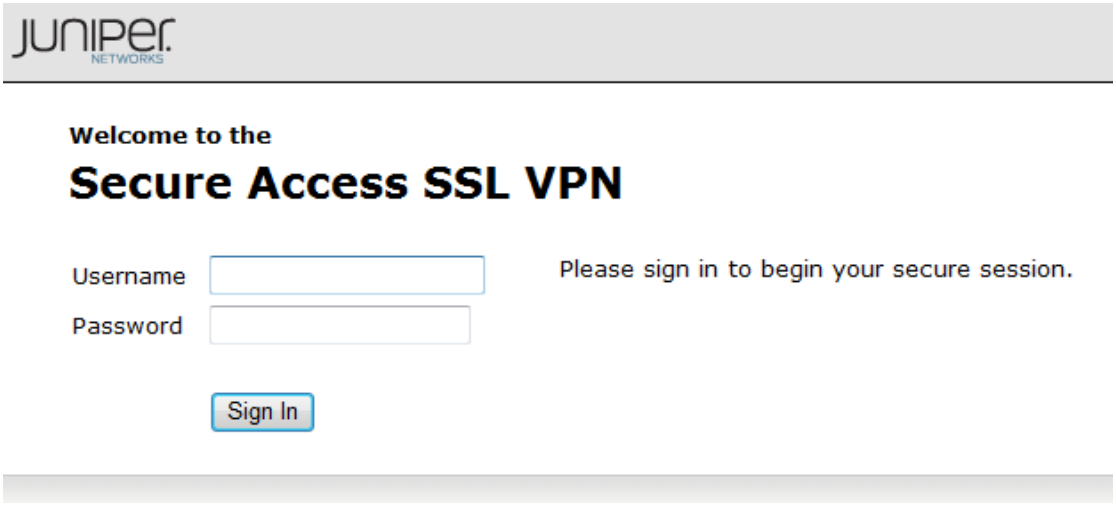
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2.0 Test Logon

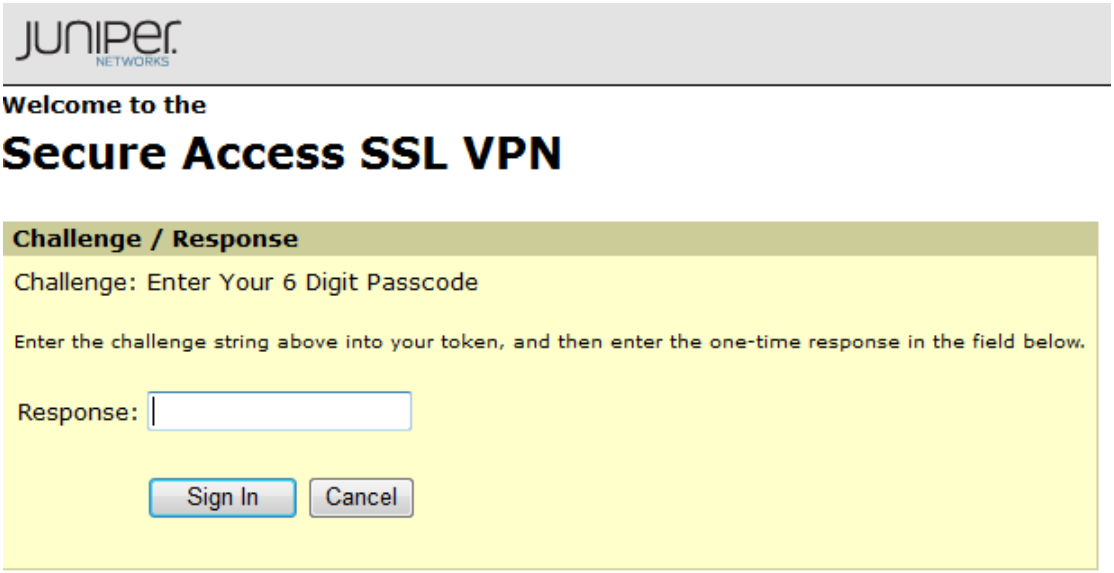
Browse to the web URL address of the Juniper® SSL appliance

Two input dialogue boxes will be displayed.

User will enter: UserID in the Username box
Microsoft AD Domain password in password box



Enter SMS /Email Passcode in the SecurEnvoy Passcode box (received via SMS /Email upon your mobile phone)
Or enter the passcode displayed upon the SecurEnvoy Soft Token application.



Click "Sign In to compete the process

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3.0 Notes

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