

External Authentication with Citrix Access Gateway Authenticating Users Using SecurAccess Server by SecurEnvoy

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Citrix Access Gateway Integration Guide

This document describes how to integrate a Citrix Access Gateway with SecurEnvoy two-factor Authentication solution called 'SecurAccess'.

Citrix Access Gateway provides - Secure Remote Access to the internal corporate network.

SecurAccess provides two-factor, strong authentication for remote Access solutions (such as Citrix), 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 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, as does the Citrix Access Gateway. All notes within this integration guide refer to this type of approach.

The equipment used for the integration process is listed below:

Citrix

Citrix Access Gateway v4.2.2 Build 80.3

SecurEnvoy

Windows 2003 server SP1

IIS installed with SSL certificate (required for remote administration)

Active Directory installed or connection to Active Directory via LDAP protocol.

SecurAccess software release v3.01.0200

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1.0 Pre Requisites

It is assumed that the Citrix Access Gateway has been installed and is authenticating 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 Citrix Access Gateway appliance(s), additional open ports will be required.

NOTE: *Add radius profiles for each Citrix Access Gateway that requires Two-Factor Authentication.*

1.1 Configuration of Citrix Access Gateway

To enable a Two-Factor logon to the Citrix Access Gateway appliance, login to the administration interface. Select authentication and delete the existing "Default" profile.

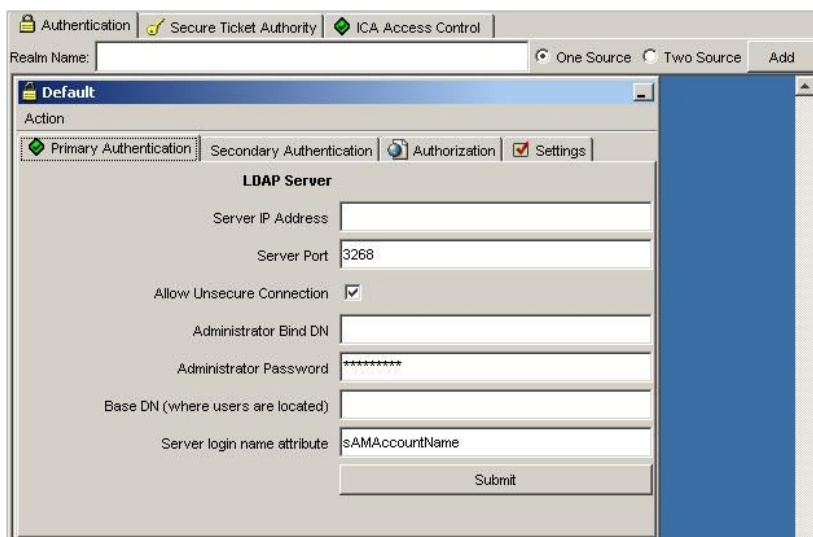
Create a new profile named "Default" and select it to be a "two source" click "add".

Select the Authentication drop down menu for the primary authentication, select LDAP. Select the Authentication drop down menu for the secondary authentication, select Radius. Click OK when complete.

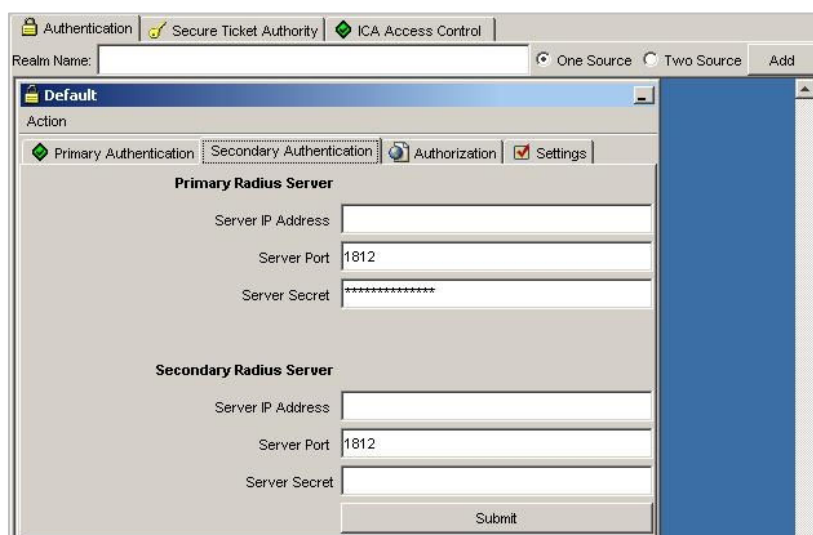
Populate information for primary authentication to designate what IP address, port etc is to be used for LDAP authentication. Populate information for secondary authentication to designate what IP address, port and pre shared key is to be used for SecurEnvoy Radius authentication.

The SecurEnvoy Radius server is using UDP port 1812. (This is the default). Finally enter details for Authorisation.

See diagrams below



The screenshot shows the 'Default' profile configuration page. The 'Primary Authentication' tab is selected, showing the 'LDAP Server' configuration. The 'Secondary Authentication' tab is also visible. The 'Settings' checkbox is checked. The 'Server IP Address' field is empty, 'Server Port' is 3268, 'Allow Unsecure Connection' is checked, 'Administrator Bind DN' is empty, 'Administrator Password' is masked with asterisks, 'Base DN (where users are located)' is empty, and 'Server login name attribute' is sAMAccountName. A 'Submit' button is at the bottom.



The screenshot shows the 'Default' profile configuration page. The 'Secondary Authentication' tab is selected, showing the 'Primary Radius Server' and 'Secondary Radius Server' configurations. The 'Settings' checkbox is checked. The 'Primary Radius Server' section has 'Server IP Address' empty, 'Server Port' 1812, and 'Server Secret' masked with asterisks. The 'Secondary Radius Server' section has 'Server IP Address' empty, 'Server Port' 1812, and 'Server Secret' empty. A 'Submit' button is at the bottom.

This is the only configuration required on the Citrix appliance.

NOTE:

The profile must be entered and saved as "Default" to Two-Factor Authenticate all users.

2.0 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.

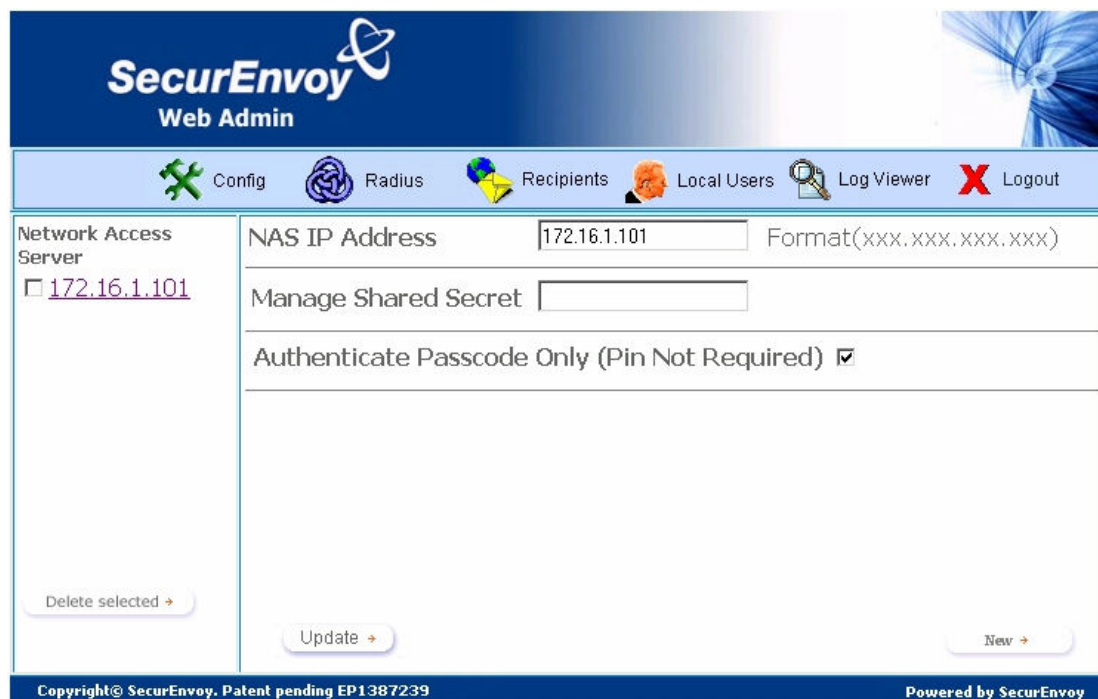
SecurEnvoy supplies the second factor of authentication, which is the dynamic one time passcode (OTP) which is sent to the user's mobile phone.

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

Click the "**Radius**" Button

Enter IP address and Shared secret for each Citrix Access Gateway that wishes to use **SecurEnvoy** Two-Factor authentication.

Make sure the "Authenticate Passcode Only (Pin not required) checkbox is ticked.



SecurEnvoy
Web Admin

Config Radius Recipients Local Users Log Viewer Logout

Network Access Server
 172.16.1.101

NAS IP Address Format(xxx.xxx.xxx.xxx)

Manage Shared Secret

Authenticate Passcode Only (Pin Not Required)

Delete selected → Update → New →

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

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

3.0 Test Logon

Browse to the web location of the Citrix Access Gateway

<https://remote.securenvoy.com>

Three input dialogue boxes will be displayed.

User will enter: UserID in the User name box

Domain password in password box

Passcode (via SMS) in Secondary box



The screenshot shows the Citrix Access Gateway login interface. At the top left, it says "Citrix® Access Gateway" and at the top right is the "CITRIX®" logo. Below the header is a "Log In" section with three input fields: "User Name:", "Password:", and "Secondary Password:". A "Login" button is located below the "Secondary Password" field.

Click logon to complete the process.

Once authenticated a new SMS passcode will be sent to the user's mobile phone, ready for the next authentication.