



RSA SecurID Ready Implementation Guide

Last Modified: January 9, 2008

Partner Information

Product Information	
Partner Name	Cisco Systems, Inc.
Web Site	www.cisco.com
Product Name	Cisco Secure Access Control System (ACS)
Version & Platform	V4.1(4) for Windows
Product Description	<p>Cisco Secure Access Control Server (ACS) for Windows provides a centralized identity networking solution and simplified user management experience across all Cisco devices and security management applications. Cisco Secure ACS helps to ensure enforcement of assigned policies by allowing network administrators to control:</p> <p>Cisco Secure ACS is a main pillar of Cisco trust and identity networking security solutions. It extends access security by combining authentication, user and administrator access, and policy control from a centralized identity networking framework, allowing greater flexibility and mobility, increased security, and user productivity gains. With Cisco Secure ACS, you can manage and administer user access for Cisco IOS® routers, VPNs, firewalls, dialup and DSL connections, cable access solutions, storage, content, voice over IP (VoIP), Cisco wireless solutions, and Cisco Catalyst® switches using IEEE 802.1x access control.</p>
Product Category	RADIUS Servers



Solution Summary

Partner Integration Overview	
Authentication Methods Supported	Native RSA SecurID Authentication
List Library Version Used	Version #5.0.3
RSA Authentication Manager Name Locking	Yes
RSA Authentication Manager Replica Support	Full Replica Support
Secondary RADIUS Server Support	No
Location of Node Secret on Agent	In Registry
RSA Authentication Agent Host Type	Net OS
RSA SecurID User Specification	Designated Users, All Users, RSA SecurID as Default
RSA SecurID Protection of Administrative Users	No
RSA Software Token and RSA SecurID 800 Automation	No
Use of Cached Domain Credentials	No

Product Requirements

Partner Product Requirements: Cisco Secure ACS	
CPU	x86 550MHz or faster
Memory	256MB
Storage	250MB of Hard Disk space. More disk space required for configurations also running a Database.

Operating System	
Platform	Required Patches
Microsoft Windows 2000 Server	Service Pack 4 or greater
Microsoft Windows 2000 Advanced Server	Service Pack 4 or greater
Microsoft Windows 2003 Server	All Service Levels Supported
Microsoft Windows 2003 Enterprise Server	All Service Levels Supported

Additional Software Requirements	
Application	Additional Patches
Microsoft Internet Explorer 6.0	Service Pack 2 Sun Java Plug-in 1.4.2-04 or Microsoft Java Virtual Machine
Netscape Communicator 7.1	Sun Java Plug-in 1.4.2-04

Note: There was an issue with NEW-PIN mode with Cisco ACS 4.0 that was corrected with a fix from Cisco. Please contact Cisco to get this patch

[ACS-4.0.1-RSA-SW-CSCsc12614-CSCsd41866.zip](#)

Note: Both Java and JavaScript must be enabled in the browsers used to administer Cisco Secure ACS

Agent Host Configuration

To facilitate communication between the Cisco Secure ACS and the RSA Authentication Manager / RSA SecurID Appliance, an Agent Host record must be added to the RSA Authentication Manager database. The Agent Host record identifies the Cisco Secure ACS within its database and contains information about communication and encryption.

To create the Agent Host record, you will need the following information.

- Hostname
- IP Addresses for all network interfaces

When adding the Agent Host Record, you should configure the Cisco Secure ACS as Net OS. This setting is used by the RSA Authentication Manager to determine how communication with the Cisco Secure ACS will occur.



Note: Hostnames within the RSA Authentication Manager / RSA SecurID Appliance must resolve to valid IP addresses on the local network.

Please refer to the appropriate RSA Security documentation for additional information about Creating, Modifying and Managing Agent Host records.

Partner Authentication Agent Configuration

Before You Begin

This section provides instructions for integrating the partners' product with RSA SecurID Authentication. This document is not intended to suggest optimum installations or configurations.

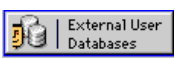
It is assumed that the reader has both working knowledge of all products involved, and the ability to perform the tasks outlined in this section. Administrators should have access to the product documentation for all products in order to install the required components.

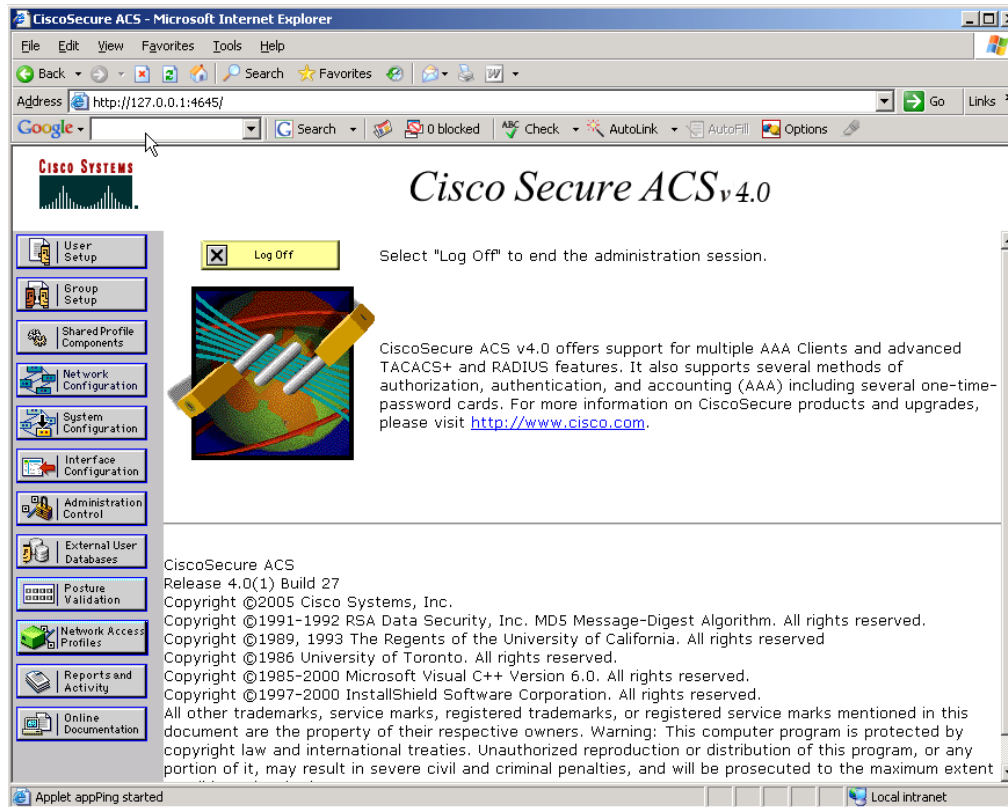
All vendor products/components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

Documenting the Solution

Activating RSA SecurID authentication:

Cisco Secure ACS supports RSA SecurID authentication of users. To configure Cisco Secure ACS 4.0(1) to authenticate users with RSA Authentication Manager 6.1, follow these steps:

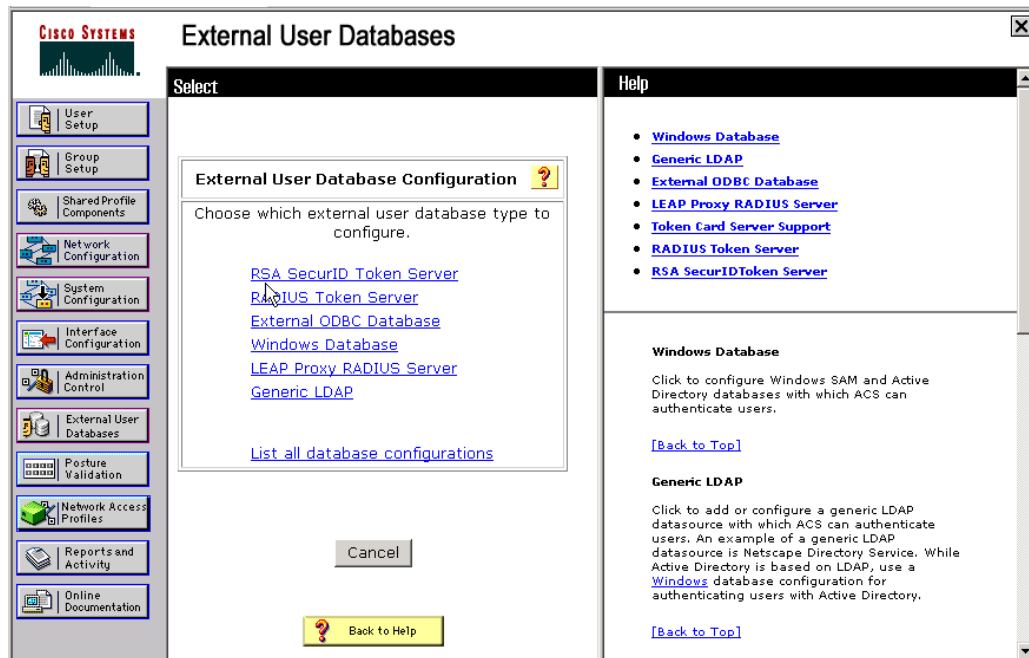
1. Install the **RSA Local Authentication Agent 6.1** for Windows on the same system as the Cisco Secure ACS server. Verify connectivity by running the **Test Authentication** function of the Authentication Agent.
2. In the **navigation bar**, click .



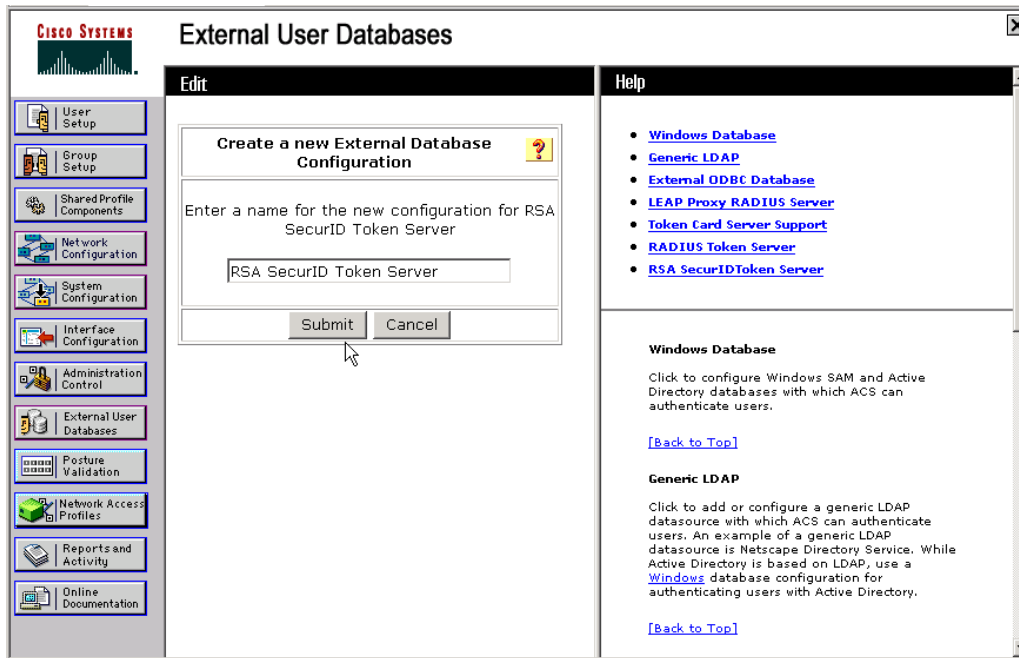
3. Click **Database Configuration**.



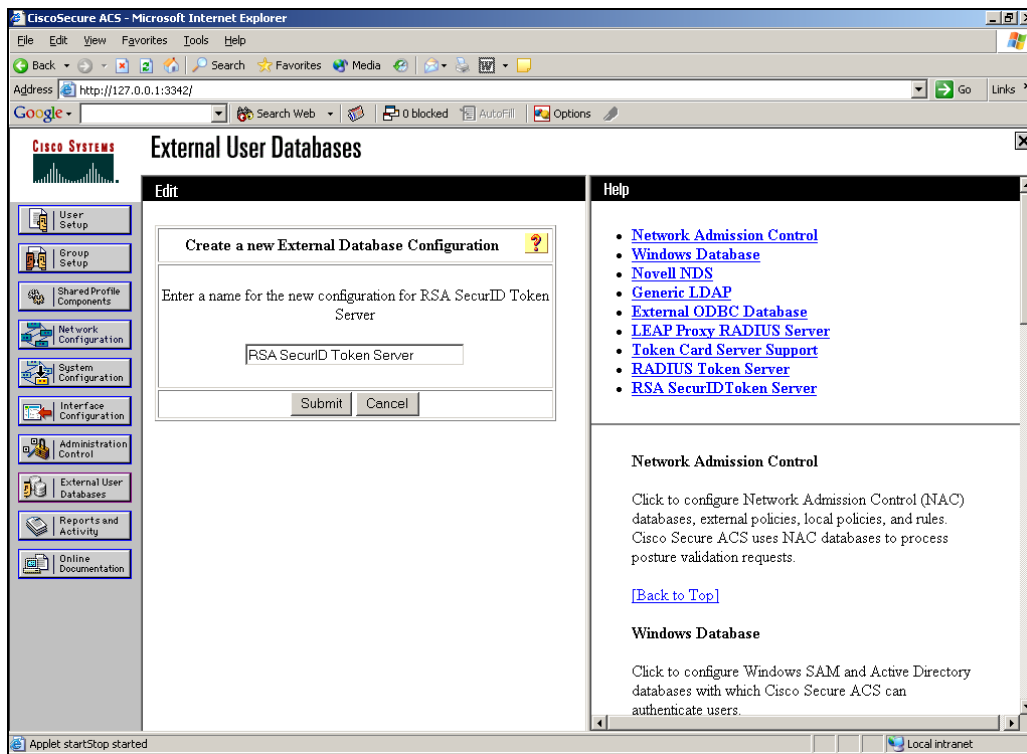
4. Click **RSA SecurID Token Server**.



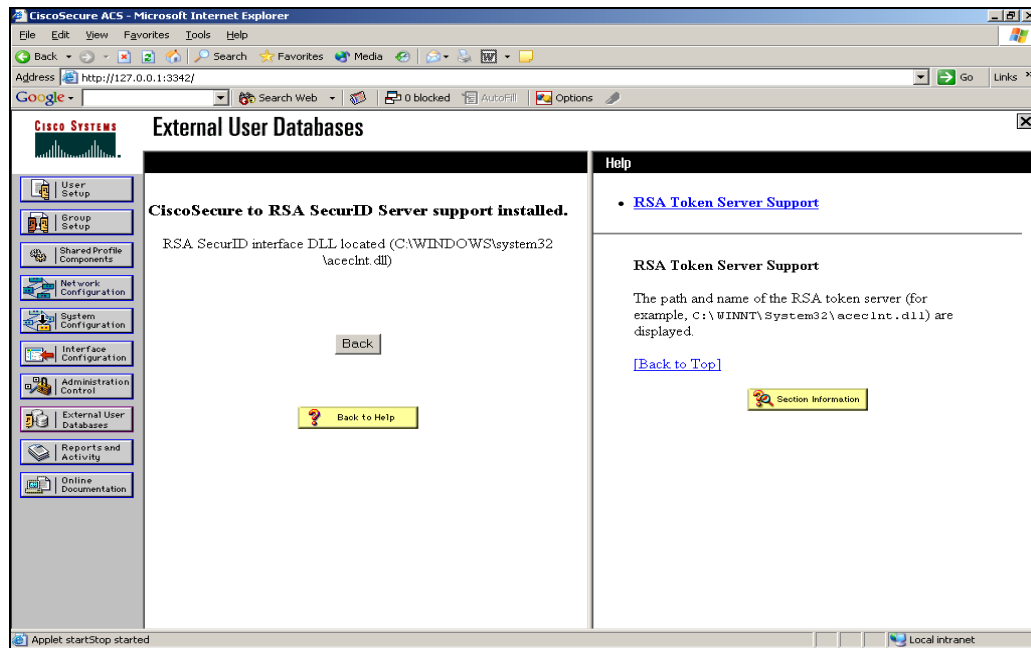
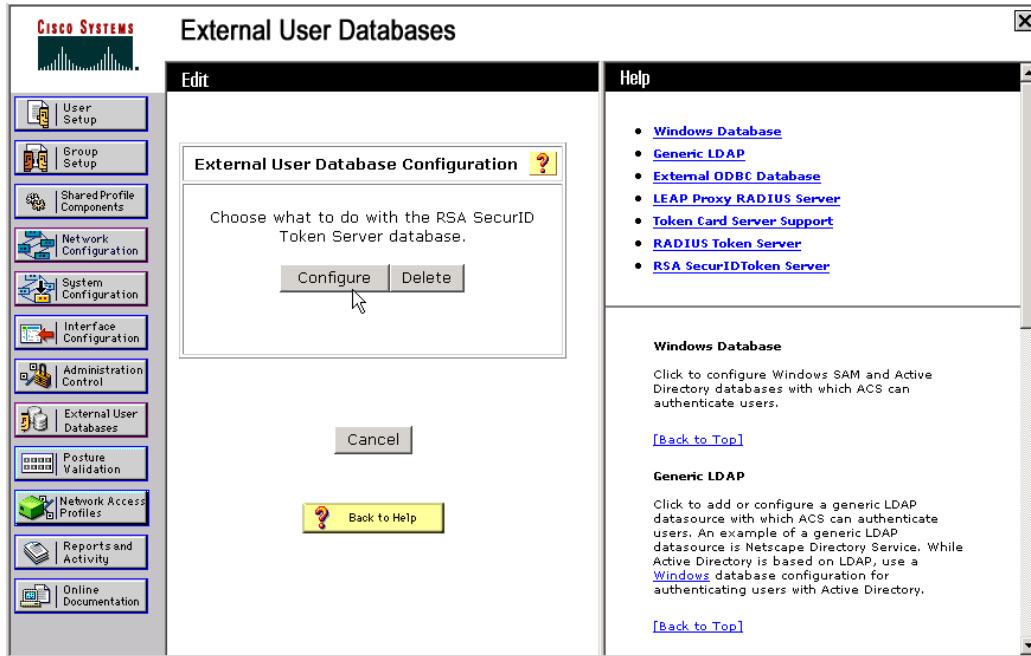
5. Click **Create New Configuration**.



6. Enter a name, then click **Submit**.



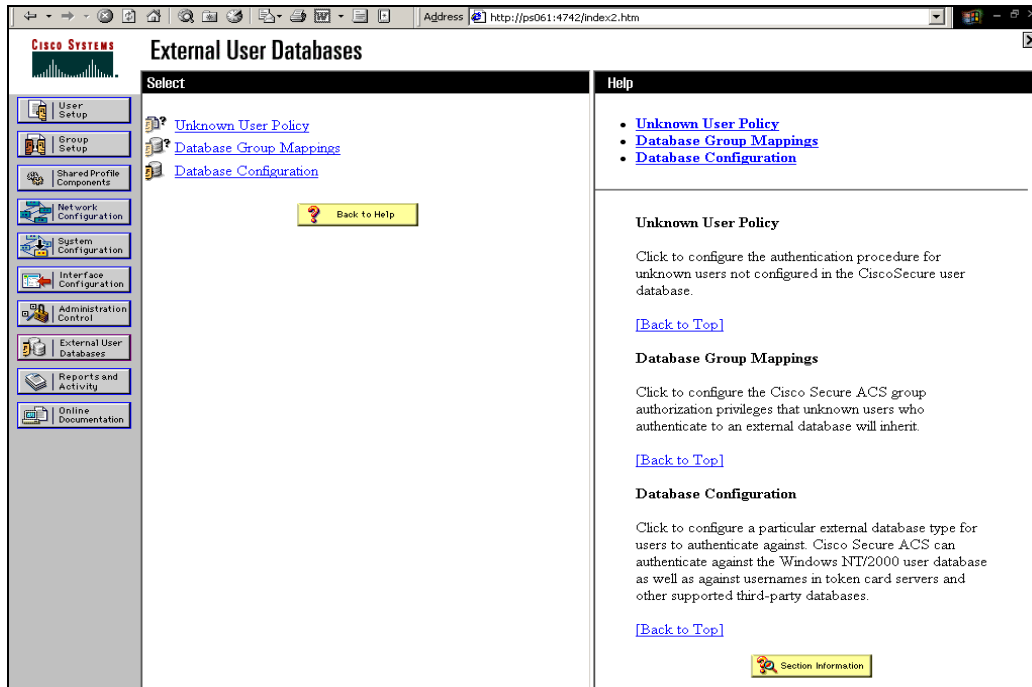
7. Click **Configure**.



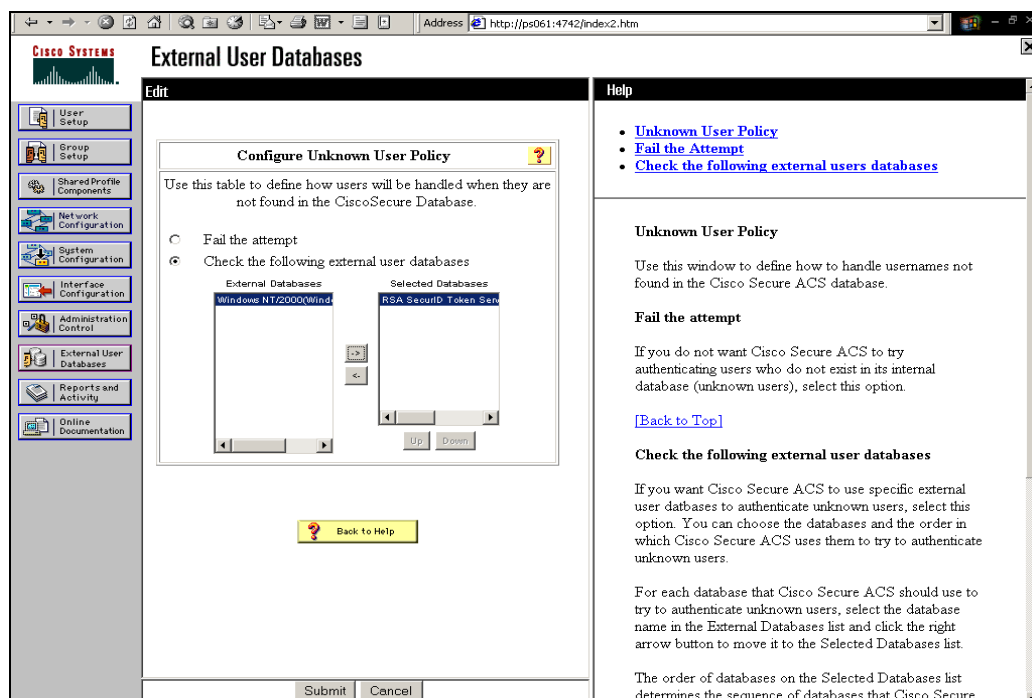
Note: Cisco Secure ACS displays the name of the token server and the path to the authenticator DLL. This information confirms that Cisco Secure ACS can contact the RSA Authentication Agent. You can add the RSA SecurID external user database to your Unknown User Policy or assign specific user accounts to use this database for authentication.

Adding/Configuring RSA SecurID Authentication to your Unknown User Policy:

1. Click  External User Databases.

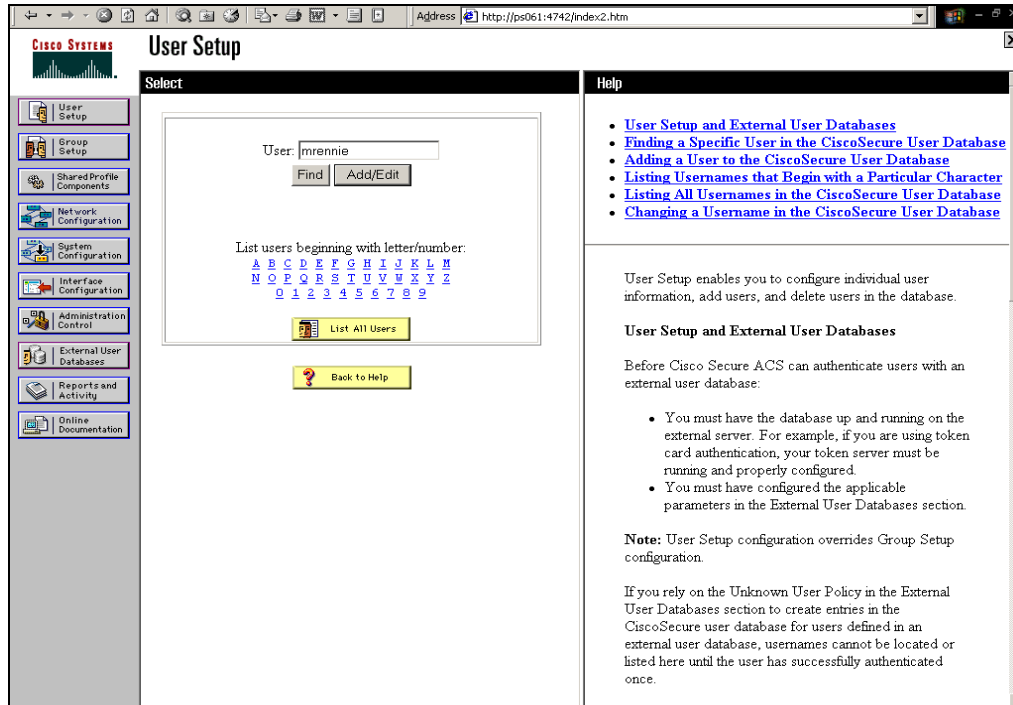


2. Click **Unknown User Policy**. Select **Check the following external user databases**, highlight **RSA SecurID Token Server** and move it to the **Selected Databases** box. Click **Submit**.

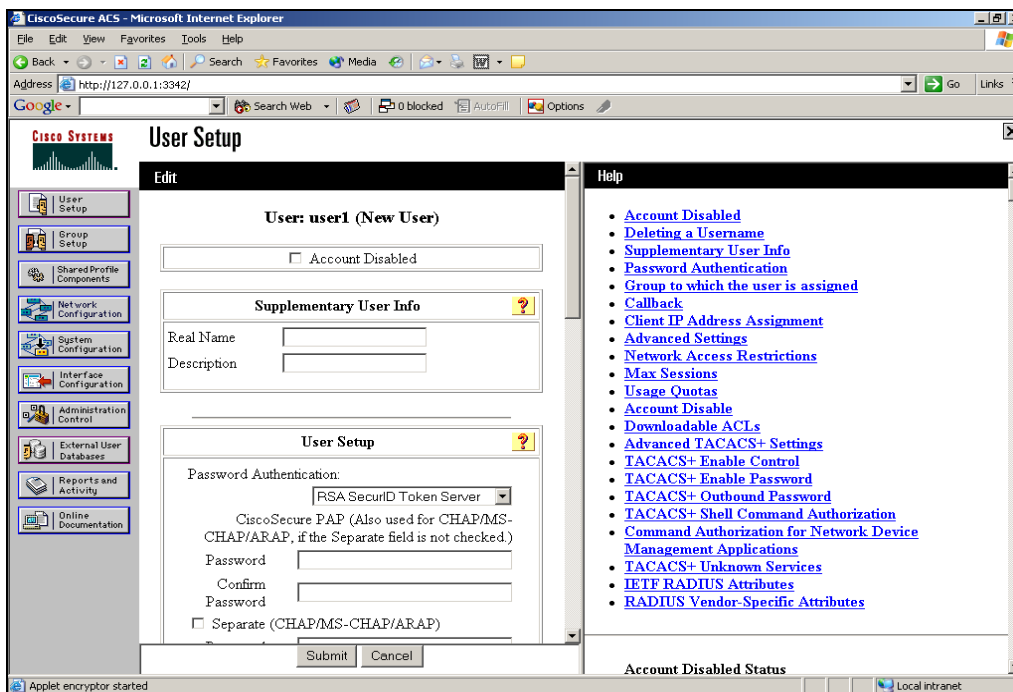


Adding/Configuring RSA SecurID Authentication for specific user accounts:

1. Click  from the main ACS Admin GUI. Type in the **user** name and click **Add**.



2. Under User Setup > **Password Authentication**, choose **RSA SecurID Token Server**. Click **Submit**.



Certification Checklist

Date Tested: January 9, 2008

Certification Environment		
Product Name	Version Information	Operating System
RSA Authentication Manager	6.1.2	Windows 2003
RSA Authentication Agent	6.1	Windows 2003
Cisco Secure ACS	4.1(4) Build 13	Windows 2003

Mandatory Functionality			
RSA Native Protocol		RADIUS Protocol	
New PIN Mode			
Force Authentication After New PIN	<input checked="" type="checkbox"/>	Force Authentication After New PIN	<input type="checkbox"/> N/A
System Generated PIN	<input checked="" type="checkbox"/>	System Generated PIN	<input type="checkbox"/> N/A
User Defined (4-8 Alphanumeric)	<input checked="" type="checkbox"/>	User Defined (4-8 Alphanumeric)	<input type="checkbox"/> N/A
User Defined (5-7 Numeric)	<input checked="" type="checkbox"/>	User Defined (5-7 Numeric)	<input type="checkbox"/> N/A
User Selectable	<input checked="" type="checkbox"/>	User Selectable	<input type="checkbox"/> N/A
Deny 4 and 8 Digit PIN	<input checked="" type="checkbox"/>	Deny 4 and 8 Digit PIN	<input type="checkbox"/> N/A
Deny Alphanumeric PIN	<input checked="" type="checkbox"/>	Deny Alphanumeric PIN	<input type="checkbox"/> N/A
PASSCODE			
16 Digit PASSCODE	<input checked="" type="checkbox"/>	16 Digit PASSCODE	<input type="checkbox"/> N/A
4 Digit Password	<input checked="" type="checkbox"/>	4 Digit Password	<input type="checkbox"/> N/A
Next Tokencode Mode			
Next Tokencode Mode	<input checked="" type="checkbox"/>	Next Tokencode Mode	<input type="checkbox"/> N/A
Load Balancing / Reliability Testing			
Failover (3-10 Replicas)	<input checked="" type="checkbox"/>	Failover	<input type="checkbox"/> N/A
Name Locking Enabled	<input checked="" type="checkbox"/>	Name Locking Enabled	<input type="checkbox"/>
No RSA Authentication Manager	<input checked="" type="checkbox"/>	No RSA Authentication Manager	<input type="checkbox"/> N/A
Additional Functionality			
RSA Software Token API Functionality			
System Generated PIN	<input type="checkbox"/> N/A	System Generated PIN	<input type="checkbox"/> N/A
User Defined (8 Digit Numeric)	<input type="checkbox"/> N/A	User Defined (8 Digit Numeric)	<input type="checkbox"/> N/A
User Selectable	<input type="checkbox"/> N/A	User Selectable	<input type="checkbox"/> N/A
Next Tokencode Mode	<input type="checkbox"/> N/A	Next Tokencode Mode	<input type="checkbox"/> N/A
RSA SecurID 800 Token Automation			
System Generated PIN	<input type="checkbox"/> N/A	System Generated PIN	<input type="checkbox"/> N/A
User Defined (8 Digit Numeric)	<input type="checkbox"/> N/A	User Defined (8 Digit Numeric)	<input type="checkbox"/> N/A
User Selectable	<input type="checkbox"/> N/A	User Selectable	<input type="checkbox"/> N/A
Next Tokencode Mode	<input type="checkbox"/> N/A	Next Tokencode Mode	<input type="checkbox"/> N/A
Domain Credential Functionality			
Determine Cached Credential State	<input type="checkbox"/> N/A	Determine Cached Credential State	<input type="checkbox"/>
Set Domain Credential	<input type="checkbox"/> N/A	Set Domain Credential	<input type="checkbox"/>
Retrieve Domain Credential	<input type="checkbox"/> N/A	Retrieve Domain Credential	<input type="checkbox"/>

PAR/CMY

✓ = Pass ✗ = Fail N/A = Non-Available Function

Known Issues

1. Force Authentication after New PIN in **System Generated Mode** does not occur. Force Authentication after New PIN in **User Defined Mode** functions as designed.