



# RSA SecurID Ready Implementation Guide

Last Modified: 1/27/03

## 1. Partner Information

Partner Name	Microsoft Corporation
Web Site	<a href="http://www.microsoft.com/">http://www.microsoft.com/</a>
Product Name	Internet Security and Acceleration (ISA) Server
Version & Platform	2000
Product Description	Microsoft® Internet Security and Acceleration (ISA) Server 2000 is an extensible enterprise firewall and Web cache server that integrates with the Microsoft Windows® 2000 operating system for policy-based security as well as accelerating and managing internetworking. Sophisticated management tools simplify policy definition, traffic routing, server publishing, and monitoring. ISA Server builds on Windows 2000 security, directory, virtual private networking (VPN), and bandwidth control. Whether deployed as separate firewall and cache servers or in integrated mode, ISA Server can be used to enhance network security, enforce consistent Internet usage policy, accelerate Internet access, and maximize employee productivity for organizations of all sizes.
Product Category	VPN

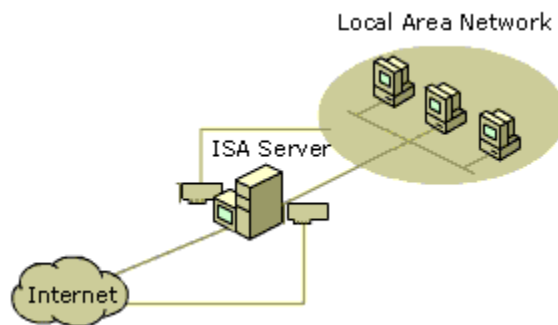


## 2. Contact Information

	Sales	Support
Phone	(781) 487.6400	(800) 936.4900
Web	<a href="http://www.microsoft.com/worldwide/">www.microsoft.com/worldwide/</a>	<a href="http://support.microsoft.com/">support.microsoft.com/</a>

### 3. Solution Summary

Feature	Details
Authentication Methods Supported	Native RSA SecurID
RSA ACE/Agent Library Version	N/A, EAP module only
RSA ACE 5 Locking	Yes
Replica RSA ACE/Server Support	Full Replica Support
Secondary RADIUS/TACACS+ Server Support	No
Location of Node Secret on Client	In Registry
RSA ACE/Server Agent Host Type	Net OS
RSA SecurID User Specification	Designated users
RSA SecurID Protection of Administrators	No



### 4. Product Requirements

- Hardware requirements**

Component Name:	
CPU make/speed required	300 MHz or higher Pentium II-compatible processor
Memory	256 MB of RAM
HD space	20 MB of available hard-disk space formatted with the NTFS file system
Other	A Windows 2000-compatible network adapter for communicating with the internal network

- Software requirements**

Component Name:	
Operating System	Version (Patch-level)
Windows 2000 Server	Service Pack 3 or later
Windows 2000 Advanced Server	Service Pack 3 or later
Windows 2000 Datacenter Server	Service Pack 3 or later
ISA Server 2000	Service Pack 1 and Feature Pack 1

## 5. RSA ACE/Server configuration

Perform the following steps to set up the ISA Server as an Agent Host within the RSA ACE/Server's database.

- On the RSA ACE/Server computer, click **Start**, click **Programs**, click **RSA ACE/Server**, and then click **Database Administration - Host Mode**.
- On the **Agent Host** menu, click **Add Agent Host...**

The screenshot shows the 'Add Agent Host' dialog box. The 'Name' field contains 'ISAServer'. The 'Network address' field contains '10.100.50.20'. The 'Site' field is empty, with a 'Select' button to its right. The 'Agent type' dropdown menu is open, showing three options: 'Single-Transaction Comm Server', 'Net OS Agent' (which is selected), and 'NetSP Agent'. Under 'Encryption Type', the 'DES' radio button is selected. The following checkboxes are checked: 'Open to All Locally Known Users' and 'Requires Name Lock'. The 'Requires Name Lock' checkbox is highlighted with a dashed border. At the bottom of the dialog, there are buttons for 'Group Activations...', 'Secondary Nodes...', 'Edit Agent Host Extension Data...', 'Assign Acting Servers...', 'User Activations...', 'Delete Agent Host', and 'Assign/Change Encryption Key...'. At the very bottom are 'OK', 'Cancel', and 'Help' buttons.

- In **Name**, type the name of the ISA Server computer.
- In **Network address**, type the IP address of the ISA Server computer.
- Under **Secondary Nodes**, define all hostname/IP addresses that resolve to the ISA Server machine.

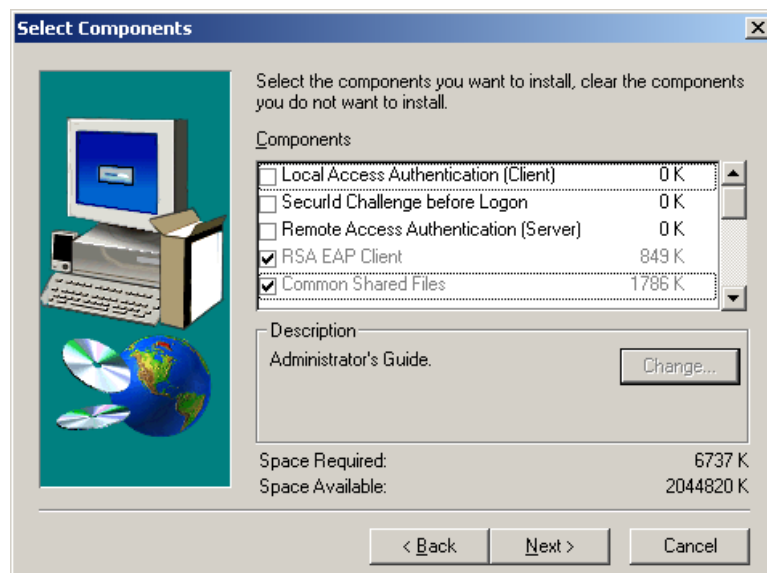
**Note:** It is important that all hostname and IP addresses resolve to each other. Please reference the RSA ACE/Server documentation for detailed info on this and other configuration parameters within this screen. Subsequently, you can also select the 'Help' button at the bottom of the screen.

## 6. Partner RSA ACE/Agent configuration

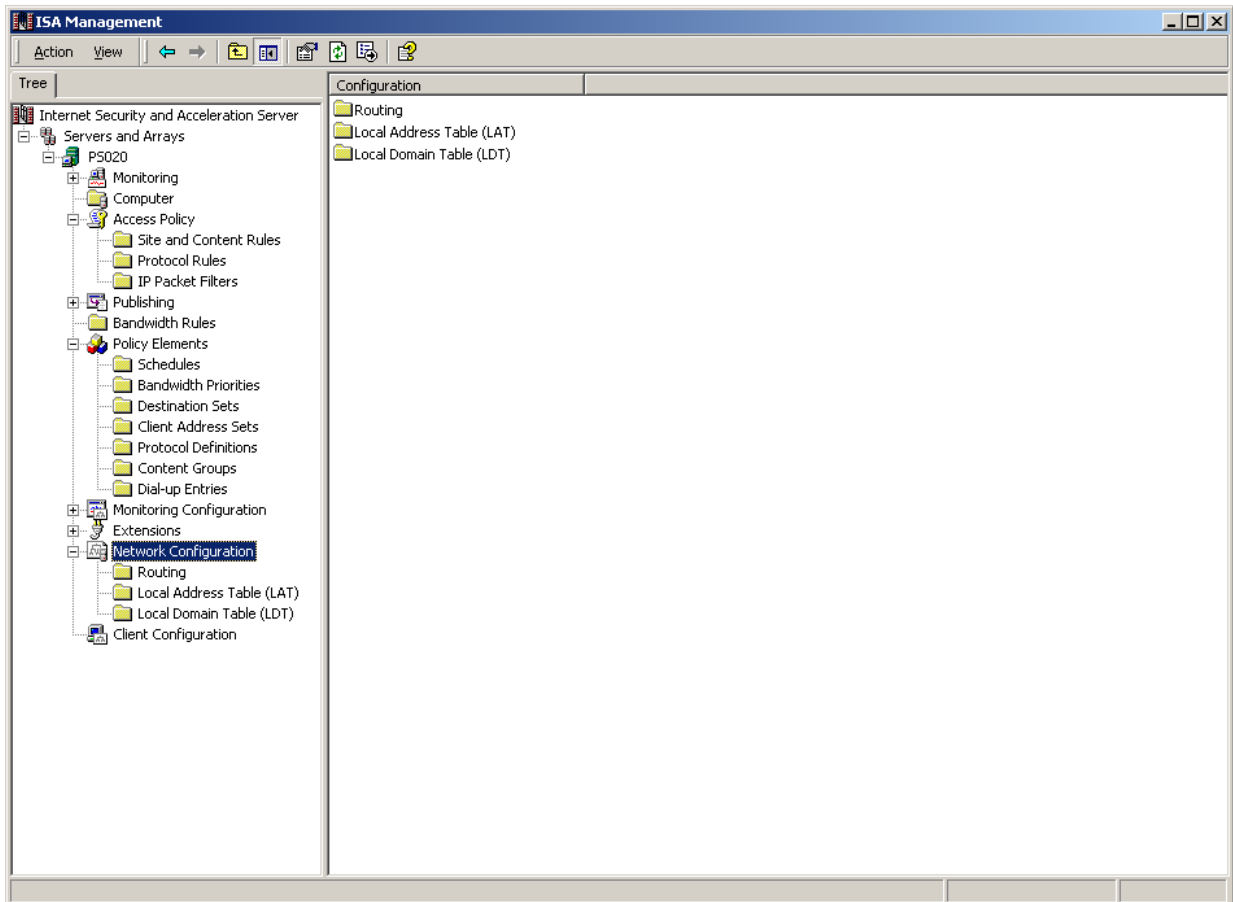
This section provides instructions for integrating the partners' product with RSA SecurID. This document is not intended to suggest optimum installations or configurations. It is assumed that the reader has both working knowledge of the two products to perform the tasks outlined in this section and access to the documentation for both in order to install the required software components. All products/components need to be installed and working prior to this integration. Perform the necessary tests to confirm that this is true before proceeding.

### Server configuration:

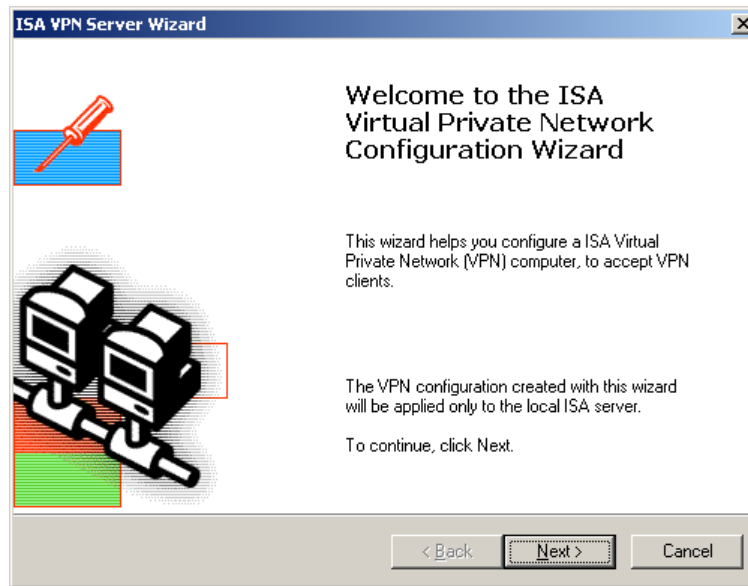
1. **Install RSA EAP Client.** During the install procedure for RSA ACE/Agent 5.5 for Windows, you have the option to choose the components you want. Check the box to the left of 'RSA EAP Client'. ('Common Shared Files' are selected by default) The install process will also prompt you for the location of the sdconf.rec file located on the RSA ACE/Server (acedata) and will copy it locally (winnt\system32).



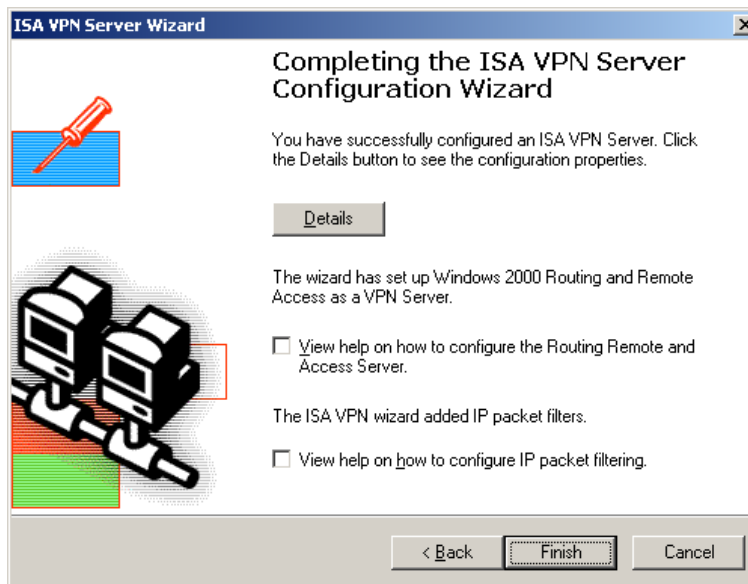
2. **Configure ISA VPN Server.** From the ISA Management MMC, right click Network Configuration > Allow VPN client connections.



- a. From the initial 'ISA VPN Server Wizard' window, click 'Next'.

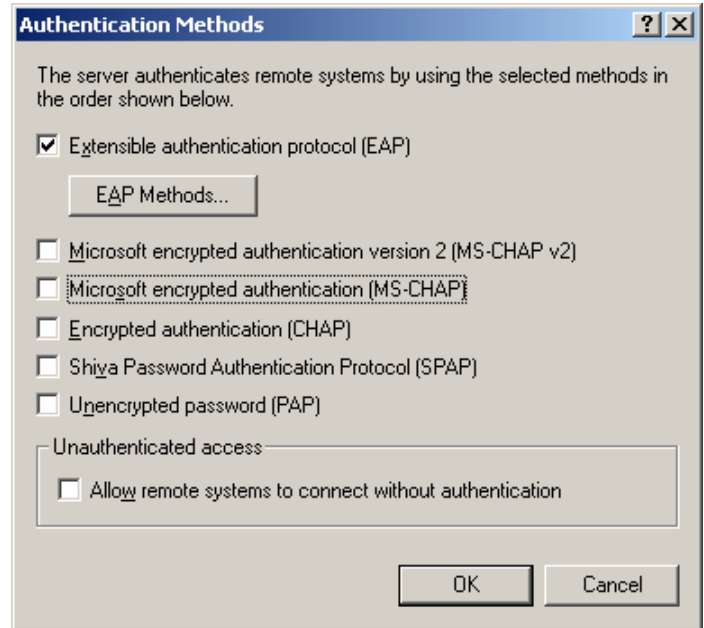
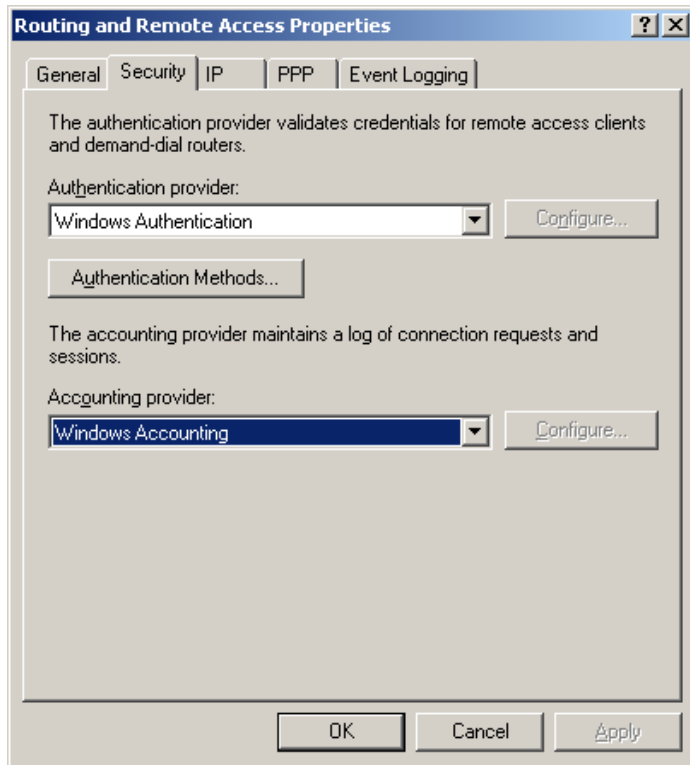


- b. Then click 'Finish'.

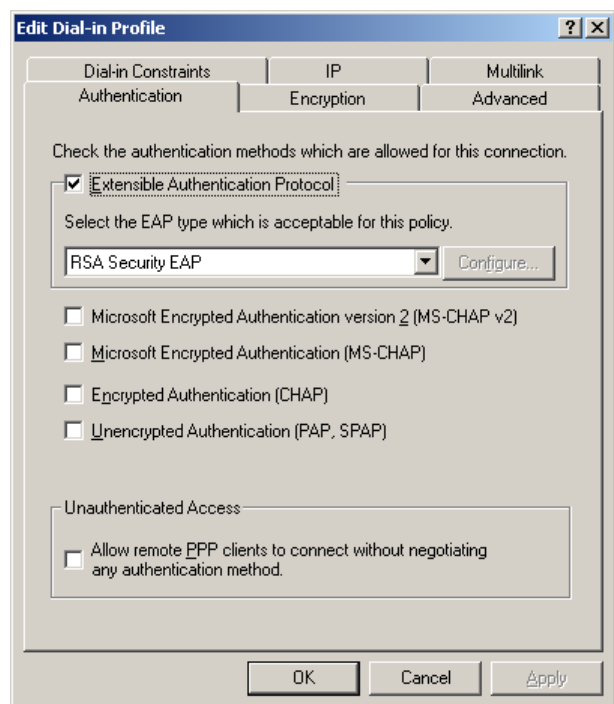
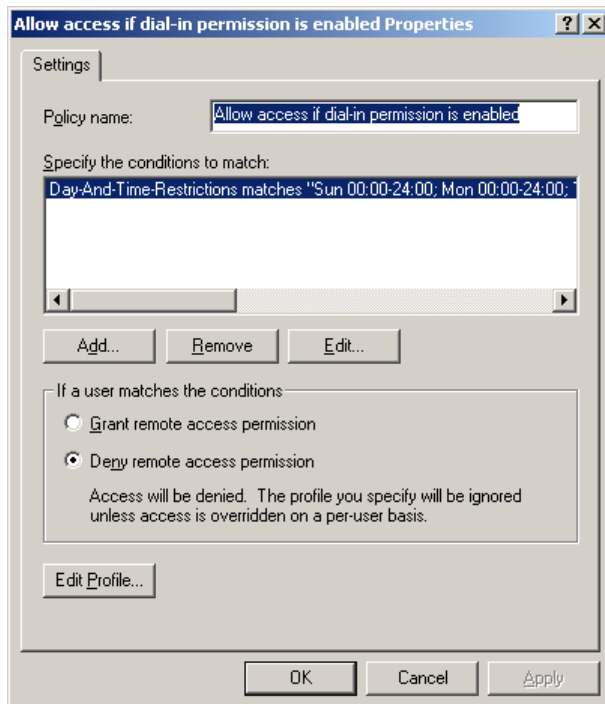


3. **Configure the Routing and Remote Access service to use EAP.**

- a. Right-click the RRAS server <servername> and pick **Properties**, and choose the **Security** tab. Under **Authentication methods**, check the **Extensible authentication protocol** box.



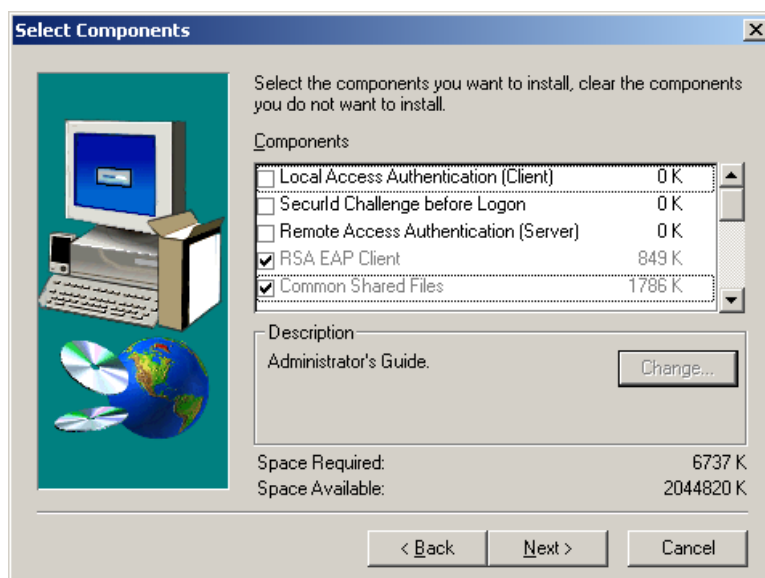
- b. Then, also in the RRAS window, click on **Remote Access Policies**, right-click the **Allow access if dial-in permission is enabled** entry, and click **properties**. Check the **Extensible Authentication Protocol** box, and choose **RSA Security EAP** in the drop-down menu. Click **Ok**.



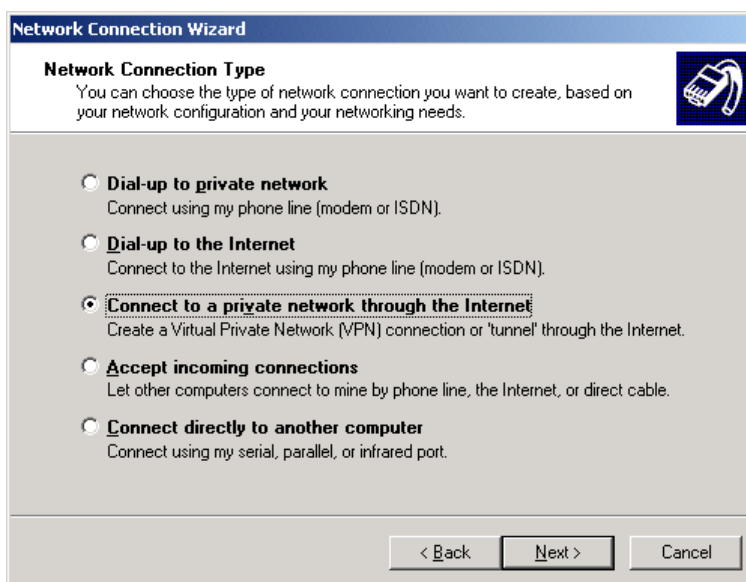


## Client configuration:

1. **Install RSA EAP Client.** During the install procedure for RSA ACE/Agent 5.5 for Windows, you have the option to choose the components you want. Check the box to the left of 'RSA EAP Client'. ('Common Shared Files' are selected by default) The install process will also prompt you for the location of the sdconf.rec file located on the RSA ACE/Server (ace\data) and will copy it locally (winnt\system32).



2. **Configure VPN connection.**
  - a. **Right-click** My Network Places, choose properties, and double-click on **Make New Connection**. Choose **Connect to a private network through the Internet**, and click **Next**. The next box offers the chance to set up the client to automatically dial the connection before establishing the VPN connection. Choose as appropriate.



- b. **Enter** the IP address of the VPN server. Click **Next**. Now, choose the availability of the VPN client (all users or only the current user)

**Network Connection Wizard**

**Destination Address**  
What is the name or address of the destination?

Type the host name or IP address of the computer or network to which you are connecting.

Host name or IP address (such as microsoft.com or 123.45.6.78):

192.168.78.30

< Back   Next >   Cancel

**Network Connection Wizard**

**Connection Availability**  
You may make the new connection available to all users, or just yourself.

You may make this connection available to all users, or keep it only for your own use. A connection stored in your profile will not be available unless you are logged on.

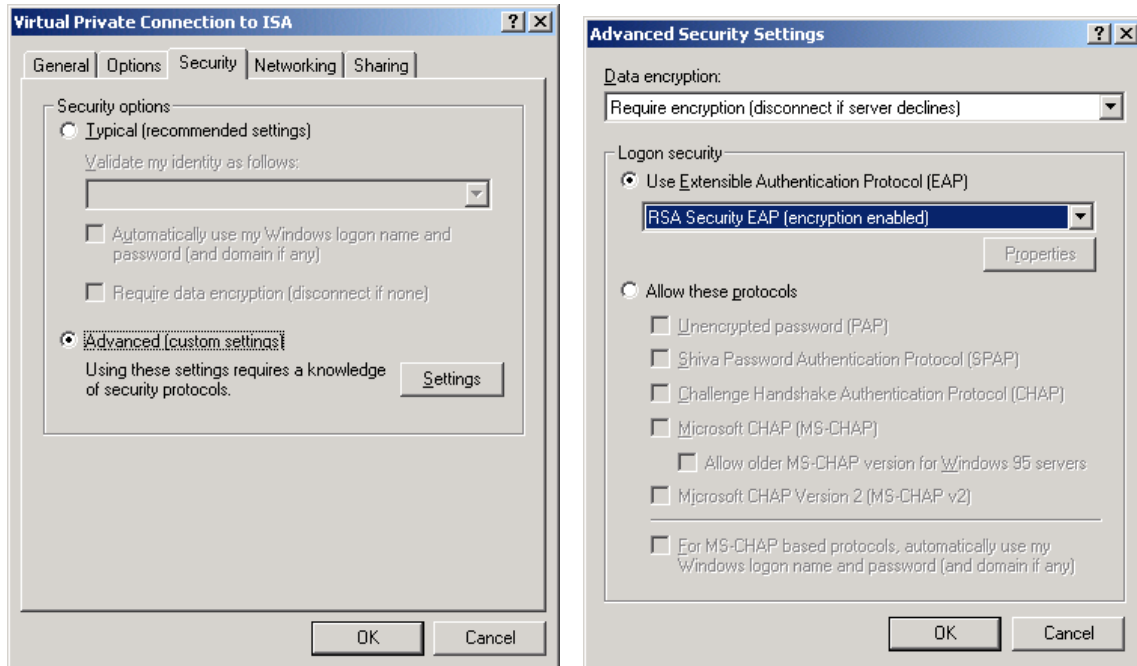
Create this connection:

For all users

Only for myself

< Back   Next >   Cancel

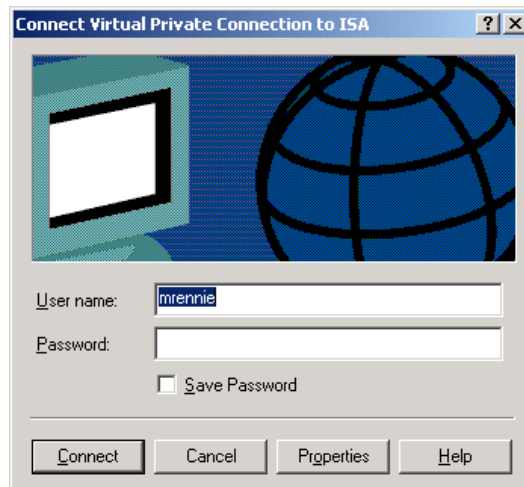
4. **Configure VPN Client to use EAP.** In the **Properties** screen of the VPN connection, choose **Advanced (custom settings)**. Then in the **Advanced Security Settings**, choose **Require encryption**, and **RSA Security EAP**. Now, simply double-click on the VPN connection to initiate the tunnel.



Note: VPN users need to be a member of the Dial-in users group

Sample authentication prompts:

- First prompt is from Windows. User name is the only info needed here.



- Second prompt is from the RSA ACE/Server. The username is taken from the previous prompt.



- Connection Complete!



## 7. Certification Checklist

Date Tested: 01/28/2003

Product	Tested Version
RSA ACE/Server	5.03
RSA ACE/Agent	5.5 (EAP Client Only)
ISA Server	2000 (SP1) & (FP1)

Test	ACE	RADIUS
<b>1<sup>st</sup> time auth. (node secret creation)</b>	Pass	N/A
<b>New PIN mode:</b>		
<b>System-generated</b>		
Non-PINPAD token	Pass	N/A
PINPAD token	Pass	N/A
<b>User-defined (4-8 alphanumeric)</b>		
Non-PINPAD token	Pass	N/A
Password	Pass	N/A
<b>User-defined (5-7 numeric)</b>		
Non-PINPAD token	Pass	N/A
PINPAD token	Pass	N/A
SoftID token	Pass	N/A
Deny 4 digit PIN	Pass	N/A
Deny Alphanumeric	Pass	N/A
<b>User-selectable</b>		
Non-PINPAD token	Pass	N/A
PINPAD token	Pass	N/A
<b>PASSCODE</b>		
16 Digit PASSCODE	Pass	N/A
4 Digit Password	Pass	N/A
<b>Next Tokencode mode</b>		
Non-PINPAD token	Pass	N/A
PINPAD token	Pass	N/A
<b>Failover</b>	Pass	N/A
<b>User Lock Test (RSA ACE Lock Function)</b>	Pass	N/A
<b>No RSA ACE/Server</b>	Pass	N/A

MPR

N/A (N/A=Non-available function)

## 8. Known Issues

- The VPN functionality of ISA Server with RSA SecurID documented in this Guide has been tested to work in tandem with the native RSA SecurID functionality implemented by Microsoft in Feature Pack 1 which allows for RSA SecurID protected of web servers via Web Publishing rules.