



# RSA SecurID Ready Implementation Guide

Last Modified: September 30, 2005

## Partner Information

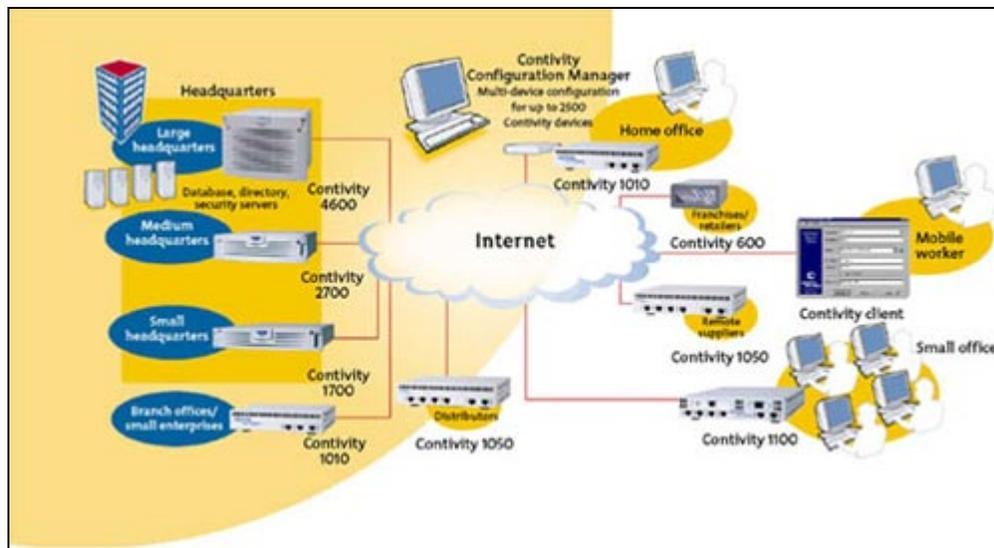
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Product Information	
Partner Name	Nortel Networks
Web Site	<a href="http://www.nortelnetworks.com">www.nortelnetworks.com</a>
Product Name	Nortel VPN Router
Version & Platform	1050, 1740, 2700, 5000 Series
Product Description	Each Nortel VPN Router is a single hardware device that provides routing, firewall, bandwidth management, encryption, authentication, and data integrity for secure tunneling across managed IP networks and the Internet. With Contivity VPN Switches, you can connect remote users, branch offices, suppliers, and customers with the cost and performance advantages of shared IP networks and the security and control you would expect from private networks.
Product Category	Virtual Private Networking



## Solution Summary

Partner Integration Overview	
Authentication Methods Supported	RADIUS
List Library Version Used	N/A
RSA Authentication Manager Name Locking	No
RSA Authentication Manager Replica Support	No
Secondary RADIUS Server Support	Yes (3)
Location of Node Secret on Agent	'None stored'
RSA Authentication Agent Host Type	Communication Server
RSA SecurID User Specification	Designated users
RSA SecurID Protection of Administrative Users	No
RSA Software Token API Integration	Yes
Use of Cached Domain Credentials	No



## Product Requirements

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Partner Product Requirements: Nortel VPN Router	
Firmware Version	V05_05.202

Partner Product Requirements: Nortel VPN Client	
Operating System	Required Patches
Windows XP	
Windows 2000	
Windows 98	
Windows ME	

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 **Note:** Nortel VPN Client Version 4.86 is the last release that provides support for the Windows NT operating system.

**Version 4.91 will be the last release that provides support for Windows 98 and Windows ME operating systems.**

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## Agent Host Configuration

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To facilitate communication between the Nortel VPN Router 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 Nortel VPN Router 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
- RADIUS Secret (When using RADIUS Authentication Protocol)

When adding the Agent Host Record, you should configure the Nortel VPN Router as Communication Server. This setting is used by the RSA Authentication Manager to determine how communication with the Nortel VPN Router will occur.



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

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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 Nortel VPN Router 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.

## Nortel VPN Router Configuration

### Enabling Support for RSA SecurID Authentication

1. Using your Internet Browser, connect and login to your Nortel Contivity Switch Administration Console.
2. Enable RSA SecurID authentication via RADIUS (Services > IPsec > RADIUS Authentication).

RADIUS Authentication	
AXENT Technologies Defender	<input type="checkbox"/>
RSA SecurID	<input checked="" type="checkbox"/>
User Name and Password	<input type="checkbox"/>

### VPN Router Supported Authentication Types

1. The Nortel VPN Router supports RSA ACE/Server authentication of users via Radius only. This is configured in the (Servers > Radius Auth) page of the CES Web management interface.
2. Check the box at the top of the screen that says 'Enable Access to RADIUS Authentication'.
3. Under the 'Server-Supported Authentication Options' section, click the checkbox to enable support for Response Only authentication. This configuration is used for RSA SecurID Authentication.

Server-Supported Authentication Options		
Enabled	Type	Description
<input type="checkbox"/>	CHALLENGE	Challenge/Response Token Cards
<input checked="" type="checkbox"/>	RESPONSE	Response Only Token Cards
<input type="checkbox"/>	MS-CHAP-V2	MSCHAPV2 - Microsoft encrypted CHAP. Version 2
<input type="checkbox"/>	MS-CHAP	MSCHAP - Microsoft encrypted CHAP. Version 1 <input type="checkbox"/> RFC-2548 ( Microsoft Vendor-specific RADIUS Attributes ) compliant
<input checked="" type="checkbox"/>	CHAP	CHAP - Challenge Handshake Authentication Protocol.
<input checked="" type="checkbox"/>	PAP	PAP - Password Authentication Protocol.

- In the 'RADIUS Servers' section, fill out the info required. The Secret information for these servers should match the encryption key assigned in the Agent Host configuration.

RADIUS Servers									
Enabled	Server	Host Name or IP Address	Interface	Status	Port	Secret	Confirm Secret	Reply Source Port (optional)	Suppress Service Type
<input checked="" type="checkbox"/>	Primary	<input type="text" value="10.100.50.37"/>	<input checked="" type="radio"/> Private (10.100.51.31) <input type="radio"/> Public <input type="text" value="192.168.78.19"/>	Configured	<input type="text" value="1645"/>	<input type="password"/>	<input type="password"/>	<input type="text"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Alternate 1	<input type="text" value="10.100.50.36"/>	<input checked="" type="radio"/> Private (10.100.51.31) <input type="radio"/> Public <input type="text" value="192.168.78.19"/>	Configured	<input type="text" value="1645"/>	<input type="password"/>	<input type="password"/>	<input type="text"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Alternate 2	<input type="text" value="10.100.50.35"/>	<input checked="" type="radio"/> Private (10.100.51.31) <input type="radio"/> Public <input type="text" value="192.168.78.19"/>	Configured	<input type="text" value="1645"/>	<input type="password"/>	<input type="password"/>	<input type="text"/>	<input type="checkbox"/>
		<b>Response Timeout Interval</b>	<input type="text" value="3"/> (seconds)						
		<b>Maximum Transmit Attempts</b>	<input type="text" value="3"/>						

## RADIUS Group Configuration

Any user seeking RADIUS authentication must belong to a group specified by a group ID and password, configured in the Profiles > Groups > Edit > IPsec > Authentication > Configure page. This is a two-step process where (1) the Switch authenticates the remote user with RSA SecurID tokens, and (2) the client uses the Group ID and Group Password to authenticate the Switch's identity.

- Click to enable the RSA SecurID token security authentication.
- Enter the Group ID and Password, which provide access to the switch.

**\* Radius and LDAP Proxy Authentication**

Group ID and Password  
 Note: Required for all groups using RADIUS or LDAP Proxy authentication.

Group ID

Group Password

Group Confirm Password

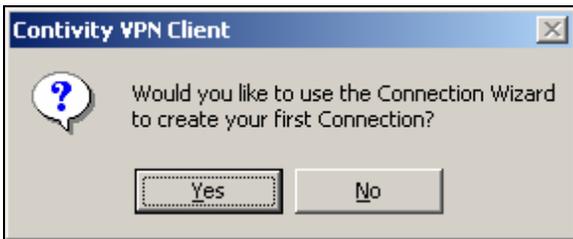
Authentication Type (select one)

User Name and Password (Radius and Ldap Proxy)  
 AXENT (Radius only)  
 RSA SecurID (Radius only)

## IPSec Client configuration

Upon first run of the Contivity VPN Client, you will be prompted to create a connection profile via the Connection Wizard.

Use the screenshots below as a guide to setting up your connection for RSA SecurID authentication. For a detailed explanation of each configuration parameter, please reference the manuals from Nortel that comes with the client software.



Connection Wizard



Connection Profile name and description



Authentication type



Token card type

**Token Group Information**

Enter your User ID for the Token Card:

The Contivity VPN Client also requires a Token Group ID and a Token Group Password to identify the Contivity VPN group you are associated to on the remote network.

Enter your Token Group ID:  
SecurID

Enter your Token Group Password:

<Back Next> Cancel

User ID for RSA SecurID Authentication

**Destination**

What is the Host Name or IP Address of the Contivity VPN Switch at the remote network?

10.100.51.19

<Back Next> Cancel

Name/IP Address of switch

**Dial-up Connection**

Would you like to automatically dial a Dialup Connection before establishing your Contivity VPN Connection?

No, I do not want to dial first!

Yes, I want to make a Dial-up connection first.

<Back Next> Cancel

Do you need to initiate a dial up connection first or are you already connected to the internet/network?

**Connection Profile Complete**

Your Connection Profile is complete!

To test your new connection, enter your Password and click Connect after Exiting the Wizard.

To Exit the Wizard, click Finish.

<Back Finish> Cancel

Setup complete!

**Contivity VPN Client**

File Edit Options Help

Connection: MyExtranetConnection

Description: Connect to Contivity VPN

Dial-up: (None)

User Name: \_\_\_\_\_

BIN: \_\_\_\_\_ Token: \_\_\_\_\_

Save PIN

Destination: 10.100.51.19

Connect Close Save

Login screen

# Certification Checklist

Date Tested: September 30, 2005

Certification Environment		
Product Name	Version Information	Operating System
RSA Authentication Manager	6.1	Windows 2003 Server (SP1)
RSA Software Token	3.0.5	Windows XP Professional (SP2)
RSA Authentication Utility	1.0 Build 25	Windows XP Professional (SP2)
Nortel VPN Router	1050	Firmware V05_05.202

Mandatory Functionality			
RSA Native Protocol		RADIUS Protocol	
<b>New PIN Mode</b>			
Force Authentication After New PIN	<input checked="" type="checkbox"/>	Force Authentication After New PIN	<input checked="" type="checkbox"/>
System Generated PIN	<input checked="" type="checkbox"/>	System Generated PIN	<input checked="" type="checkbox"/>
User Defined (4-8 Alphanumeric)	<input checked="" type="checkbox"/>	User Defined (4-8 Alphanumeric)	<input checked="" type="checkbox"/>
User Defined (5-7 Numeric)	<input checked="" type="checkbox"/>	User Defined (5-7 Numeric)	<input checked="" type="checkbox"/>
User Selectable	<input checked="" type="checkbox"/>	User Selectable	<input checked="" type="checkbox"/>
Deny 4 and 8 Digit PIN	<input checked="" type="checkbox"/>	Deny 4 and 8 Digit PIN	<input checked="" type="checkbox"/>
Deny Alphanumeric PIN	<input checked="" type="checkbox"/>	Deny Alphanumeric PIN	<input checked="" type="checkbox"/>
<b>PASSCODE</b>			
16 Digit PASSCODE	<input checked="" type="checkbox"/>	16 Digit PASSCODE	<input checked="" type="checkbox"/>
4 Digit Password	<input checked="" type="checkbox"/>	4 Digit Password	<input checked="" type="checkbox"/>
<b>Next Tokencode Mode</b>			
Next Tokencode Mode	<input checked="" type="checkbox"/>	Next Tokencode Mode	<input checked="" type="checkbox"/>
<b>Load Balancing / Reliability Testing</b>			
Failover (3-10 Replicas)	<input checked="" type="checkbox"/>	Failover	<input checked="" type="checkbox"/>
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 checked="" type="checkbox"/>
<b>Additional Functionality</b>			
<b>RSA Software Token API Functionality</b>			
System Generated PIN	<input checked="" type="checkbox"/>	System Generated PIN	<input checked="" type="checkbox"/>
User Defined (8 Digit Numeric)	<input checked="" type="checkbox"/>	User Defined (8 Digit Numeric)	<input checked="" type="checkbox"/>
User Selectable	<input checked="" type="checkbox"/>	User Selectable	<input checked="" type="checkbox"/>
Next Tokencode Mode	<input checked="" type="checkbox"/>	Next Tokencode Mode	<input checked="" type="checkbox"/>
<b>Domain Credential Functionality</b>			
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"/>

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

## Known Issues

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### ***RSA Software Token***

The Contivity VPN Client can be configured to detect the installation of the RSA Software Token through the presence of stauto32.dll. Users will then be prompted for their Pin only. The Tokencode displayed on the Software Token is automatically coupled with the Pin and passed along to the RSA ACE/Server.

This functionality is configured within the Contivity VPN Client under (Options > Authentication Options > Response Only Token > Options > Use Installed SoftID Software Token)



### **New Pin mode**

RSA SecurID Software Token integration with the Contivity VPN Client supports basic authentication functionality. When the user is in New Pin Mode, they need to enter '0000' in the PIN window to initiate the authentication process. Also, once the PIN is created, they will have to wait for the "Tokencode to change" before successfully logging in.

## Alphanumeric PINS

The Contivity VPN Client does not allow alphabetic characters to be entered in the Passcode field of the connection dialog box.

There is a workaround for instances where alphanumeric PINs are allowed for SecurID users, the Contivity VPN Client must be configured to display separate Tokencode and PIN fields.

This is achieved by clearing the Use Passcode Display checkbox in the Two-Factor Authentication Token Options dialog. The user can then enter an alphanumeric PIN in the separate PIN field.



Authentication Options



Response Only Token Options

## RSA Software Updates

### RSA Software Token 3.0.5

Certification Testing was completed with a point release build of the RSA Software Token Application. In order to ensure a successful integration, please verify that the build of the utility is correct prior to beginning the integration.

For the updated build of the RSA Security Software Token, please contact RSA Security Customer Support or login to RSA SecureCare Online for download instructions.

### RSA Authentication Utility 1.0 Build 25

Certification Testing was completed with a point release build of the RSA Authentication Utility. In order to ensure a successful integration, please verify that the build of the utility is correct prior to beginning the integration.

For the updated build of the RSA Authentication Utility, please contact RSA Security Customer Support or login to RSA SecureCare Online for download instructions.

## ***RSA Authentication Utility (SID800 Integration)***

### **Authentication fails if user enters 0000 as permanent SecurID PIN.**

A user may not be able to authenticate when completing the New PIN procedure if the user enters four zeros (0000) as the permanent PIN. You cannot use 0000 as a permanent PIN.

### **System-generated RSA SecurID SID800 PIN with VPN Client**

If your USB token is in New PIN mode during authentication to a VPN client, and the RSA Authentication Manager requires that you accept a system-generated SecurID PIN, a delay occurs once you accept the SecurID PIN. You then are prompted to enter the new SecurID PIN with the next Tokencode to complete authentication. This does not happen if the RSA Authentication Manager specifies a user-generated SecurID PIN.