

Avaya Secure Router 2330 / 4134 Advanced gateway 2330 Avaya 9600 Series IP Phones

Engineering

> Secure Router IPsec Interoperability with Avaya 9600 IP Phones Technical Configuration Guide

Avaya Data Solutions Document Date: March 2011 Document Number: NN48500-620 Document Version: 1.0



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Abstract

This document provides information on how to configure the Avaya Secure Router to interoperate with the IPsec client on Avaya's 9600 Series IP Phones. This enables the Avaya 9600 IP Phones to terminate a secure connection to the Secure Router via IPsec Virtual Private Network (VPN) technology.

Revision Control

Νο	Date	Version	Revised By	Remarks
1	March 2011	1.0	D. Passamonte	Initial Draft



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Conventions

This section describes the text, image, and command conventions used in this document.

Symbols



Tip – Highlights a configuration or technical tip.



Note – Highlights important information to the reader.



Warning – Highlights important information about an action that may result in equipment damage, configuration or data loss.

Text

Bold text indicates emphasis.

Italic text in a Courier New font indicates text the user must enter or select in a menu item, button or command:

ERS5520-48T# show running-config

Output examples from Avaya devices are displayed in a Lucida Console font:

```
ERS5520-48T# show sys-info
```

Operation Mode:	Switch		
MAC Address:	00-12-83-93-в0-00		
POE Module FW:	6370.4		
Reset Count:	83		
Last Reset Type:	Management Factory Reset		
Power Status:	Primary Power		
Autotopology:	Enabled		
Pluggable Port 45:	None		
Pluggable Port 46:	None		
Pluggable Port 47:	None		
Pluggable Port 48:	None		
Base Unit Selection:	Non-base unit using rear-panel switch		
sysDescr:	Ethernet Routing Switch 5520-48T-PWR		
	HW:02 FW:6.0.0.10 SW:v6.2.0.009		
	Mfg Date:12042004 HW Dev:H/W rev.02		

1. Introduction

This technical configuration guide describes the steps required to configure the Avaya Secure Router in a way that will interoperate with the Avaya 9600 IPsec client. This solution provides customers with the ability to deploy Avaya 9600 IP Phones securely, using IPsec Virtual Private Network technology.

This document applies to the following Avaya Secure Router and Avaya Advanced Gateway platforms:

Platform	Version	Tunnel Support
Secure Router 4134 with VPN Encryption Module	v10.3	Up to 1000 Tunnels
Secure Router 2330 with VPN Encryption Module (SCIM)	v10.3	Up to 100 Tunnels
Advanced Gateway with Secure Router Upgrade License and VPN Encryption Module (SCIM)	v10.3	Up to 100 Tunnels

Table 1.0 – Applicable Secure Router Platforms

1.1 Hardware

The following hardware and software revisions were used to validate the configuration outlined in this technical configuration guide:

- Secure Router 4134 version 10.3
- Avaya 9600 version 6.0
- Avaya S8730 Media Server version 5.2.1
- Avaya G650 Media Gateway version 6.0



1.2 Network Topology

The following network topology was used to validate the configuration outlined in this technical configuration guide:



Figure 2.2 – Network Topology



1.3 Test Performed

This test was performed using the native IPsec client of the 9600 IP phone. The Secure Router 4134 was configured for a "contivity-iras" to provide an interoperable solution. The following functionality was tested:

Test Case	Description	Result
Successful IPsec connection using PSK	This test case demonstrated the ability of the remote 9600 to create an IPsec connection to the Secure Router using pre- shared keys, ESP and receive IP address during MODE- CONFIG.	Passed
Remote 9600 ability to make a phone call	This test case demonstrated the ability of the remote 9600 to successfully make a phone call to the 9600 on the Intranet.	Passed
Remote 9600 ability to receive a phone call	This test case demonstrated the ability of the remote 9600 to successfully receive a phone call to the 9600 on the Intranet.	Passed
Verify two way speech path	This test case demonstrated the ability for a two way conversation between the remote and local phones. Voice traffic was successfully sent and received by both phones as well as evidenced by conversations between two individuals over the phones used in this test.	Passed
Successful rekey on hook	This test case demonstrated the ability of the remote 9600 and the Secure Router 4134 to successfully rekey phase 2 of the IPsec Security Association while the 9600 phones were 'on hook'.	Passed
Phone maintained registration to the call server with no on hook for 24 hours	This test case demonstrated the ability of the remote 9600 to successfully maintain an IPsec connection while 'on-hook' for a prolonged period. The 9600 phone maintained registration to the call server throughout the period of the test.	Passed

Table 1.3 – Test Performed



2. Configuration

2.1 Avaya 9600 Series IP Phone

The following highlights the network settings defined on the Avaya 9600 Series IP Phone to establish a secure IPsec VPN tunnel to the Secure Router 4134:

Prompt	Value
VPN	Enabled
VPN Vendor	Nortel
Gateway Address	10.0.0.1
External Phone IP Address	0.0.0.0
External Router	192.168.1.1
External Subnet Mask	255.255.255.0
Encapsulation	Disabled
Auth Type	Local Credentials
VPN User Type	Any
VPN User	voip
Password Type	Save in Flash
User Password	voip
IKE ID Type	KEY_ID
IKE Xchg Mode	Aggressive
IKE DH Group	2
IKS Auth Algorithm	3DES
IKE Encryption Algorithm	SHA-1
IKE Config Mode	Enabled
IPsec PFS DH Group	NO PFS
IPsec Encryption Algorithm	3DES
IPsec Authentication Algorithm	SHA-1
Protected n/w	0.0.0/0



IKE over TCP

Never

2.2 Secure Router 4134

The following highlights the Interface, IPsec and Firewall configuration defined on the Secure Router 4134 to support IPsec VPN tunnels from Avaya 9600 Series IP Phones:



Note – Interface, IPsec and firewall configurations are commented for additional clarity. The startup configuration used for this test is provided in the appendix.

1 Interface Configuration:

```
interface ethernet 0/1
  ip address 10.0.0.1 255.0.0.0
    ip rip send version 2
   ip rip receive version 2
  aaa
   exit aaa
## Public Interface
crypto untrusted
  qos
   chassis
      exit chassis
    exit qos
  exit ethernet
interface ethernet 0/2
  ip address 47.17.25.117 255.255.255.0
## proxy arp required so SR arps on behalf of IPsec RAS clients
  ip proxy arp
  aaa
    exit aaa
## Private Interface
  crypto trusted
  qos
   chassis
     exit chassis
   exit qos
  exit Ethernet
```



IPsec Configuration:

2

```
crypto
 dynamic
   exit dynamic
## contivity-iras used for interoperability with 9600
 contivity-iras
   ike policy cont1
## local-address is the public interface (WAN) of the Secure Router
        local-address 10.0.0.1
## remote-id username test strings must be quoted, followed by password
        remote-id user-name "voip" voip
        proposal 1
          dh-group group2
          encryption-algorithm 3des-cbc
          exit proposal
        client configuration
            address-pool 1 47.17.25.120 47.17.25.125
## private-side address is the LAN interface of the router. Crypto TRUSTED.
            private-side-address 47.17.25.117
            keepalive
              exit keepalive
            split-tunnel
              mode enabled
              network 47.17.25.0 24
              exit split-tunnel
            nat-keepalive 40
            exit configuration
        exit policy
    ipsec policy cont1
       proposal 1
          lifetime seconds 3600
         exit proposal
        exit policy
   exit contivity-iras
 no keepalive mode periodic
 pmtu
```

```
exit pmtu
```



```
qos
   chassis
     exit chassis
   exit gos
 exit crypto
   Firewall Configuration:
3
firewall internet
 interface ethernet0/1
 policy 100 in permit service ike self
   exit policy
 policy 101 in permit protocol udp port 4500 4500 self
   exit policy
## Allow encapsulated packets for ipsec policy processing.
 policy 102 in permit address 47.17.25.120 47.17.25.125 47.17.25.117 32 self
   exit policy
## Permit USDP for ESP traffic (IPsec)
 policy 103 in permit protocol tcp port any 17 self
   exit policy
## Added for ping testing during setup, an be left out, but SR will not reply to ping.
 policy 104 in permit protocol icmp self
   exit policy
 exit firewall
firewall corp
 interface ethernet0/2 ethernet6/2
 policy 10 in permit
   exit policy
## Allow encapsulated packets for ipsec policy processing.
 policy 100 in permit address 47.17.25.120 47.17.25.125 47.17.25.0 24
   exit policy
 policy 1024 out permit
   exit policy
 exit firewall
```



3. Appendix

3.1 Secure Router 4134 Configuration

The following provides the startup configuration from the Secure Router 4134 used in this technical configuration guide:

```
Secure Router 4134 Startup Configuration:
system logging
  console
    priority crit
    exit console
  syslog
    module alarms local0 none
    module dos local0 none
    module forwarding local0 none
    module voip-ssm-cdr local0 none
    module voip-cdr local0 none
    exit syslog
  exit logging
hostname plm_4134-1
log utc
event
  exit event
usb
  exit usb
terminal
  exit terminal
qos
  module
    exit module
  chassis
    exit chassis
  exit qos
module t1 1/1
  alarms
    thresholds
      exit thresholds
    exit alarms
  linemode
    exit linemode
  exit t1
module t1 1/2
```



```
alarms
    thresholds
      exit thresholds
    exit alarms
  linemode
    exit linemode
  exit t1
module hssi 5/1
  clock_source internal
  clock_rate 52000000
  crc 16
  mode dce
  data_mode normal
  exit hssi
aaa
  tacacs
    exit tacacs
  radius
   primary_server
      exit primary_server
    secondary_server
      exit secondary_server
    exit radius
  exit aaa
vlan database
  exit database
vlan classification
  exit classification
bridge
mstp
   exit mstp
 exit bridge
lacp
  exit lacp
interface loopback routerid
  ip address 100.0.0.100 255.0.0.0
  exit loopback
interface ethernet 0/1
  ip address 10.0.0.1 255.0.0.0
   ip rip send version 2
   ip rip receive version 2
  aaa
    exit aaa
  crypto untrusted
```



qos chassis exit chassis exit qos exit ethernet interface ethernet 0/2 ip address 47.17.25.117 255.255.255.0 ip proxy_arp aaa exit aaa crypto trusted qos chassis exit chassis exit qos exit ethernet interface ethernet 0/3 aaa exit aaa qos chassis exit chassis exit qos exit ethernet interface ethernet 6/1 ip address 30.1.3.1 255.255.255.0 aaa exit aaa qos module exit module exit qos exit ethernet interface ethernet 6/2 ip address 31.1.2.1 255.255.255.0 aaa exit aaa crypto trusted qos module exit module exit qos exit ethernet interface ethernet 6/3



```
aaa
    exit aaa
  switchport
  qos
   module
      exit module
   exit qos
  exit ethernet
interface ethernet 6/4
  aaa
    exit aaa
  switchport
  qos
   module
      exit module
   exit qos
  exit ethernet
interface ethernet 6/5
  aaa
    exit aaa
  switchport
  qos
   module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/6
  aaa
    exit aaa
  switchport
  qos
   module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/7
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
   exit qos
  exit ethernet
```



```
interface ethernet 6/8
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/9
  aaa
    exit aaa
  switchport
  qos
   module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/10
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/11
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/12
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
```



```
exit ethernet
interface ethernet 6/13
  aaa
    exit aaa
  switchport
  qos
   module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/14
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/15
  aaa
    exit aaa
  switchport
  qos
   module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/16
  aaa
    exit aaa
  switchport
  qos
   module
      exit module
    exit qos
  exit ethernet
interface ethernet 6/17
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
```



exit qos exit ethernet interface ethernet 6/18 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 6/19 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 6/20 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 6/21 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 6/22 aaa exit aaa switchport qos module



```
avaya.com
```

exit module exit qos exit ethernet interface ethernet 6/23 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 6/24 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 7/1aaa exit aaa switchport qos module ingress-buffer-limit 170 egress-buffer-limit 176 xon-limit 150 xoff-limit 167 queue 1 queue-limit 16 exit queue queue 2 queue-limit 16 exit queue queue 3 queue-limit 16 exit queue queue 4 queue-limit 16 exit queue queue 5



queue-limit 32 exit queue queue 6 queue-limit 32 exit queue queue 7 queue-limit 32 exit queue queue 8 queue-limit 32 exit queue exit module exit qos exit ethernet interface ethernet 7/2 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 7/3 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 7/4 aaa exit aaa switchport qos module exit module exit qos exit ethernet interface ethernet 7/5 aaa exit aaa



```
switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 7/6
  aaa
    exit aaa
  switchport
  qos
   module
      exit module
    exit qos
  exit ethernet
interface ethernet 7/7
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 7/8
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 7/9
  aaa
    exit aaa
  switchport
  qos
    module
      exit module
    exit qos
  exit ethernet
interface ethernet 7/10
  aaa
```



```
exit aaa
  switchport
  qos
    module
      ingress-buffer-limit 170
      egress-buffer-limit 176
      xon-limit 150
      xoff-limit 167
      queue 1
        queue-limit 16
        exit queue
      queue 2
        queue-limit 16
        exit queue
      queue 3
        queue-limit 16
        exit queue
      queue 4
        queue-limit 16
        exit queue
      queue 5
        queue-limit 32
        exit queue
      queue 6
        queue-limit 32
        exit queue
      queue 7
        queue-limit 32
        exit queue
      queue 8
        queue-limit 32
        exit queue
      exit module
    exit qos
  exit ethernet
interface bundle hssi_wan
  link hssi 5/1
  encapsulation ppp
  ip address 40.0.0.1 255.255.255.0
    ip rip send version 2
    ip rip receive version 2
  ррр рар
    exit pap
  ppp chap
```



```
exit chap
  ppp authentication-database local
  aaa
    exit aaa
  qos
    chassis
      exit chassis
    exit qos
  exit bundle
interface bundle t1_wan2
  ppp pap
    exit pap
  ppp chap
    exit chap
  aaa
    exit aaa
  qos
    chassis
      exit chassis
    exit qos
  exit bundle
interface bundle t1_wan
  link t1 1/1
  encapsulation ppp
  ip address 60.0.0.1 255.0.0.0
    ip rip send version 2
    ip rip receive version 2
  ррр рар
    exit pap
  ppp chap
    exit chap
  ppp authentication-database local
  aaa
    exit aaa
  qos
    chassis
      exit chassis
    exit qos
  exit bundle
interface console
  aaa
    exit aaa
  exit console
gvrp
```



exit gvrp

snmp-server chassis-id plm_4134-1 enable traps exit traps exit snmp-server rmon exit rmon poe portmode 6/1 1 poe portpower 6/1oam cfm enable ethtype 88e6 exit cfm exit oam ftp_server icmp_timestamp telnet_server telnet_banner exit telnet_banner sntp exit sntp reverse_telnet set_baud_rate 56000 exit reverse_telnet router-id 100.0.0.100 ip proxy-dns exit proxy-dns ip load-balancing per-flow ip icmp rate-limit 500 ip dhcps interface ethernet0/1 relay 11.1.1.254 11.1.1.0 enable exit dhcps ip route 0.0.0.0/0 47.17.25.1 ip route 14.0.0.0/8 hssi_wan ipv6 icmp rate-limit 500 ipv6 unicast-routing ipv6 load-balancing per-flow router ospf 1 log-adjacency-changes network 10.0.0.0 0.255.255.255 area 0.0.0.0



network 40.0.0.0 0.255.255.255 area 0.0.0.0 exit ospf router rip network t1_wan network ethernet0/1 neighbor 60.0.0.2 exit rip mpls tunnel-mode uniform firewall global algs dns exit dns exit algs max-connection-limit self 2048 bypass-trusted exit firewall firewall internet interface ethernet0/1 policy 100 in permit service ike self exit policy policy 101 in permit protocol udp port 4500 4500 self exit policy policy 102 in permit address 47.17.25.120 47.17.25.125 47.17.25.117 32 self exit policy policy 103 in permit protocol tcp port any 17 self exit policy policy 104 in permit protocol icmp self exit policy exit firewall firewall corp interface ethernet0/2 ethernet6/2 policy 10 in permit exit policy policy 100 in permit address 47.17.25.120 47.17.25.125 47.17.25.0 24 exit policy policy 1024 out permit exit policy exit firewall crypto dynamic exit dynamic contivity-iras ike policy cont1 local-address 10.0.0.1



remote-id user-name "voip" voip proposal 1 dh-group group2 encryption-algorithm 3des-cbc exit proposal client configuration address-pool 1 47.17.25.120 47.17.25.125 private-side-address 47.17.25.117 keepalive exit keepalive split-tunnel mode enabled network 47.17.25.0 24 exit split-tunnel nat-keepalive 40 exit configuration exit policy ipsec policy cont1 proposal 1 lifetime seconds 3600 exit proposal exit policy exit contivity-iras no keepalive mode periodic pmtu exit pmtu qos chassis exit chassis exit qos exit crypto voice class exit class voice service voip sip exit sip fax rate-management transferredTCF codec 1 g711ulaw 160 ssm registrar exit registrar dialplan exit dialplan digest-auth



exit digest-auth sip-server exit sip-server cac exit cac sessiontimer exit sessiontimer protocol-header exit protocol-header provisioning exit provisioning exit ssm exit voip voice call exit call voice dsp exit dsp sip-ua keepalive timer 60 exit sip-ua dst no enable exit dst



4. Reference Documentation

Publication Number	Description
16-602968	VPN Setup Guide for 9600 Series IP Telephones Release 3.1
NN47263	Security Configuration and Management – Avaya Secure Router 2330/4134

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