



# Secure Router 1001,1001S, 1002, 1004, and 3120

Software Release 9.2.2

## **1. Release Summary**

Release Date: 24-April-2006

Purpose: Software maintenance release to address customer found software issues.

## **2. Important Notes before Upgrading to This Release**

None.

## **3. Platforms Supported**

Nortel Secure Router 3120  
Nortel Secure Router 1001  
Nortel Secure Router 1001S  
Nortel Secure Router 1002  
Nortel Secure Router 1004

## **4. Notes for Upgrade**

Please see the technical documentation for the Secure Router 1000 and 3120 version 9.2 available at: <http://www.nortel.com/support> (select Categories and then Routers & Routing Switches) for details on how to upgrade your Secure Router unit.

### **File Names for This Release**

<b>Description</b>	<b>Date</b>	<b>File Size</b>	<b>Version</b>	<b>File Name</b>
Secure Router 3120 Application Image	Apr 10, 2007 23:45	9,254,493	'r9.2.2'	H1000.Z
Secure Router 1002/1004	Apr 10, 2007 22:57	8,532,411	'r9.2.2'	T1000.Z
Secure Router 1001	Apr 10, 2007 23:04	9,655,616	'r9.2.2'	J1100.Z
Secure Router 1001S	Apr 10, 2007 23:06	10,109,502	'r9.2.2'	JP1010.Z

## **5. Version of Previous Release**

Software Version 9.2.0

## **6. Compatibility**

N/A

## **7. Changes in the 9.2.2 Release**

### **Top Command**

The top command replaces the pop command to exit to the top of the configuration tree. It now can be executed either interactively or thru a configuration file read locally or over the network.

### **Better handling TCP connection invalid ACKs with the Firewall**

Fixes a problem typically happens when accessing web pages through the firewall to some SSH servers. The web browser would freeze occasionally while accessing a secure page. The firewall in the default mode has been changed to send a reset for an invalid ACK to a TCP connection coming back to the firewall. A new command under firewall global section can set the firewall to ignore invalid ACKs by issuing a "no reset-invalid-acks" command. Also a show command states the current state of whether to reset invalid ACKs.

### **CLI commands**

```
configure
|-- firewall
|   |-- global
|   |-- reset-invalid-acks
```

```
show
|- firewall
|- reset-invalid-acks
```

## Sample Usage

host/configure/firewall global > ?

NAME

firewall -- Configure firewall related commands

SYNTAX

COMMANDS <cr>

DESCRIPTION

COMMANDS -- Any of the following commands can be used

algs -- enable/disable algs

bypass-trusted -- configure firewall to bypass processing of traffic from trusted to trusted interface

connection-reservation-- Configure connection reservation

dos-protect -- configure DOS protect checks

hairpinning-SelfIp-- Configure hairpinning support in NAT when NAT-IP is a self IP address

interface -- add/remove interfaces from a map

ip-reassembly -- configure ip reassembly related commands

logging -- configure logging related commands

max-connection-limit-- configure maximum connections that can originate from a map| self| int2self

nat-failover -- Configure a failover for NAT

object -- Configure ftp|http|smtp|rpc|nat|schedule|service|address objects

policy -- Configure a firewall policy for the map

port-trigger -- configure port-trigger records

proxy-nat -- configure proxy-nat related commands

**reset-invalid-acks-- enable/disable the sending of a RST when the firewall detects an invalid ACK packet**

stealth-mode -- enable/disable stealth-mode

timeout -- configure timeout value for protocol and services

url-key-filter -- add url keys to the list

host/configure/firewall global > reset-invalid-acks

host > show firewall ?

NAME

firewall -- display firewall configuration

SYNTAX

COMMANDS <cr>

DESCRIPTION

COMMANDS -- Any of the following commands can be used

algs -- display firewall alg status

bypass-trusted -- display firewall status of trusted to trusted traffic

connection-reservation-- display connection-reservation information or statistics

connections -- display firewall connections

dos-protect -- display dos protect checks

hairpinning -- display hairpinning status

interface -- display firewall configuration on interface

ip-reassembly -- display ip reassembly information

logging -- display logging information

maps -- display maps

max-connection-limit-- connection limit to all| map| self| int2self

nat-failover -- NAT failover

nat-translations-- display nat translations

object -- display object configuration

policy -- display the policies

port-trigger -- display port-trigger records

proxy-nat -- display proxy-nat configuration

```

reset-invalid-acks-- display reset-invalid-acks configuration
statistics -- display the firewall statistics
stealth-mode -- display stealth-mode configuration for the maps
timeout -- display timeout information
url-key-filter -- display url key filter list
    
```

```

host > show firewall reset-invalid-acks
reset-invalid-acks is enabled
host/configure/firewall global >no reset-invalid-acks
host > show firewall reset-invalid-acks
reset-invalid-acks is disabled
    
```

### Problems Resolved in the 9.2.2 Release

CQ#		Subsystem	Severity	Priority	Description
-----	Q01597131	OSPF	Data Loss	P2	OSPF was generating a bad route for externals that were generated within OSPF area 0 if the Secure Router is an OSPF ABR router and also learned the route for the external from another OSPF area.
14456	Q01637510	PIM-SM	Hang	P1	When configuring static RP if a dynamic RP exists, it prompts to override which stops reading the system configuration.
-----	Q01612577	DHCP Relay	Hang	P1	When DHCP Relay could not find a route to the DHCP Server the router loses resources
-----	Q01593154	BGP	Broken Feature	P3	BGP default maximum prefix value for Secure Router 1001 was set incorrectly while attaching a neighbor to the BGP group.
-----	Q01612375	GRE Tunnel	Crash	P1	Receiving keep alives on a MLPPP GRE tunnel causes the router to crash
		VRRP	Broken Feature	P3	VRRP backup router was forwarding DHCP request to the DHCP Server
-----	Q01496227	PIM-SM	Crash	P1	Mis-configured Ethernet Routing Switch 8600 which caused routing loops resulting in a crash
14751	Q01525523	PIM-SM	Crash	P1	PIM multicast does not failover/fail back
14786	Q01545682	MLPPP	Data Loss	P2	A multi-link PPP bundle would on a rare occasion silently stop sending on one of the links. This would then reduce the outbound bandwidth of the bundle.
14787	Q01545765	Routing	Data Loss	P2	A routing loop would be generated very infrequently when an old route was not properly removed.
-----	Q01565619	Radius	Broken Feature	P3	The telnet login prompt would contain garbage characters if radius authentication was enabled.

#### Notes:

Counters were added to the Ethernet display to show the number of DHCP requests dropped due to being the VRRP Backup Router or having no route to the DHCP Server.

Banner.txt file is now supported on all platforms. The banner.txt file is displayed logging into the router through telnet or SSH.

## **8. Outstanding Issues**

Refer to the Secure Router 1000/3120 version 9.2.0 Release notes

## **9. Known Limitations**

Refer to the Secure Router 1000/3120 version 9.2.0 Release notes

## **10. Documentation Corrections**

The following issues were corrected in the previous Secure Router 1000/3120 version 9.2.0 released in February 2007, but were not marked in the v9.2.0 release notes as fixed. The fixes are also present in the v9.2.2 code.

<b>CQ#</b>	<b>Subsystem</b>	<b>Severity</b>	<b>Priority</b>	<b>Description</b>
14078	BGP	Crash	P2	BGP redistribute into OSPF causing the timer to be cancelled
13175	BGP	Data Loss	P3	Keep alive timer truncation problem causing the timer to be cancelled (infrequent random issue)

---

Copyright © 2006 Nortel Networks Limited - All Rights Reserved. Nortel, Nortel Networks, the Nortel logo, Globe mark, and Passport 8100/8300/8600 are trademarks of Nortel Networks Limited.

The information in this document is subject to change without notice. The statements, configurations, technical data, and recommendations in this document are believed to be accurate and reliable, but are presented without express or implied warranty. Users must take full responsibility for their applications of any products specified in this document. The information in this document is proprietary to Nortel.

To access more technical documentation, search our knowledge base, or open a service request online, please visit Nortel Technical Support on the web at: <http://www.nortel.com/support>