

## Juniper Networks Release Notes

Product: ISG 2000 with ScreenOS 5.0.0-IDP1

Version: FCS

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## 1. Version Summary

This is the initial release of Juniper Networks' ISG 2000 with ScreenOS 5.0.0-IDP1. The Juniper Networks Integrated Security Gateway (ISG) Series delivers unmatched firewall, VPN, and IDP performance through the combination of a fourth generation security ASIC, the GigaScreen3, high speed microprocessors and pluggable security modules each with their own processing and memory.

The Juniper Networks ISG 2000 and ISG 1000—with integrated, best-in-class Intrusion Detection and Prevention (IDP) running on the security modules—stops worms, Trojans, Spyware, malware and other emerging attacks from penetrating and proliferating across the network.

ScreenOS 5.0.0-IDP1 is the latest software version based on the ScreenOS 5.0.0 firmware branch for the ISG 2000 security system.

Note that you must install and use the appropriate version of NetScreen-Security Manager 2004 FP3-IDPr1 to configure and manage the ISG 2000 and the ISG 2000 security modules.

## 2. New Features

The following is a partial list of new features and enhancements in this release:

- **Integrated Intrusion Detection and Prevention (IDP) Mechanisms.** IDP extends Firewall/VPN functionality to protect the network against application level threats such as those proliferated by worms, Trojans, hackers, and spyware. The security modules for the ISG 2000 support multiple intrusion detection mechanisms including stateful signatures, protocol anomaly detection, and backdoor. IDP's traffic anomaly, SYN protector, and IP spoof are pre-existing ScreenOS features.
- **Support for all IDP Protocols And Contexts.** The security modules for the ISG 2000 provide extensive coverage of known and unknown threats by decoding 60+ protocols and searching within 500+ service fields, with pre-defined attack objects, as well as customizable ones.
- **Comprehensive Usability, Manageability and Reporting Using NetScreen-Security Manager.** Management of the ISG 2000 and security modules using NetScreen-Security Manager provides you access to easy to use monitoring and analysis tools including the Log Viewer, Log Investigator, log suppression, dynamic groups, auto reports, custom reports, scalability for large number of devices, HA for Device Server, and packet captures.

- **Zone-based and Other Virtualization Features for IP Policies.** Use NetScreen-Security Manager to define intrusion detection and prevention policies not only by IP addresses but by zones, and to contain policies and enforcement. VLAN-tags, overlapping IP addresses in route mode are also supported.
- **VPN Aggression to Intrusion Prevention Services.** You can further extend policy- and route-based VPNs to IP policies enabling you to inspect de-tunneled traffic at the network and application level.
- **Role-based Administration for Firewall and IP Rulebases.** You also have the ability to separate and filter between FW/VPN and IP rulebases (tab navigation) as an option.

### 3. Changes to Default Behavior

None.

## 4. Upgrade and Migration Notes

### 4.1 Upgrade Instructions

To upgrade the firmware from ScreenOS 5.0.0 r9.2 to ScreenOS 5.0.0-IDP1:

1. Upgrade the NetScreen-Security Manager management system and UI from NetScreen-Security Manager 2004 FP3r2 to NetScreen-Security Manager 2004 FP3-IDPr1.
2. Launch the NetScreen-Security Manager UI, and use the Firmware Manager to load nsISG2000.5.0.0wn1.2 and nsISG2000.5.0.0-IDP1.r1.4.
3. Use the **Change Device Firmware** directive to upgrade the firmware version to nsISG2000.5.0.0wn1.2.
4. For NSRP cluster members, adjust the OS version on the device. A window appears indicating "No adjustment is necessary. Click Finish." Click **Cancel**.
5. Use the **Change Device Firmware** directive to upgrade the firmware version to nsISG2000.5.0.0-IDP1.r1.4.
6. From the Device Manager, select the device and adjust the OS version.
7. Upgrade the IDP attack database.
8. Import the device.

To upgrade the firmware from nsISG2000.5.0.0-IDP1.b1.4 to nsISG2000.5.0.0-IDP1.r1.4.

1. Upgrade the NetScreen-Security Manager management system and UI from NetScreen-Security Manager 2004 FP3r2 to NetScreen-Security Manager 2004 FP3-IDPr1.
2. Launch the NetScreen-Security Manager UI, and use the Firmware Manager to load nsISG2000.5.0.0-IDP1.r1.4.
3. Use the **Change Device Firmware** directive to upgrade the firmware version to nsISG2000.5.0.0-IDP1.r1.4.
4. From the Device Manager, select the device and adjust the OS version.
5. Upgrade the IDP attack database.
6. Import the device.

## 4.2 Migration and Policy Creation Issues

Please note that when selecting attack objects by category, some attacks are specifically designed as outbound traffic attacks. These are referred to as Server to Client attacks, or S2C attacks. Using these attacks for inbound traffic is not recommended.

## 5. Addressed Issues

The following are addressed issues in this release:

- **46013** – When you generated a UDP attack, the wrong source address appeared after the NAT IP address. TCP and ICMP attacks displayed the IP address before the NAT IP address.
- **45950** – Importing and updating device configurations using NetScreen-Security Manager timed out and failed when you ran the device in an NSRP cluster setup.
- **45719** – The device dropped rexec packets if a bidirectional policy was not available.
- **44970** – Packet dropped on VPN server (gateway) with loopback.
- **44199** – NFS session-timeout value in Vsys did not take the proper value from root.
- **43026** – Device updates through NetScreen-Security Manager with change in service time failed.

## 6. Known Issues

This section describes known issues with this release.

- [Section 6.1 “Limitations of Features”](#) identifies features that are not fully functional at the present time, and are not supported for this release.
- [Section 6.2 “Compatibility Issues”](#) describes known compatibility issues with other products, including but not limited to specific Juniper Networks’ appliances, versions of ScreenOS, Internet browsers, and other vendor devices. Whenever possible, information is provided for ways to avoid the issue, minimize its impact, or in some manner work around it.
- [Section 6.3 “Known Issues”](#) describes deviations from intended product behavior in ScreenOS as identified by Juniper Test Technologies through their verification procedures. Whenever possible, information is provided to assist the customer in avoiding or otherwise working around the issue.

## 6.1 Limitations of Features

The following limitations are present at the time of this release.

**ScreenOS 5.0.0-IDP1 is not supported on mainline ScreenOS firmware versions.** If you upgrade to ScreenOS 5.1, you will not be able to access the security module functionality. Security module functionality will be integrated into the mainline ScreenOS firmware in an upcoming release.

**Enterprise Security Profiler functionality is currently not available.** This functionality will be available in a later release. Other standalone-IDP features including Honeypot are planned to be made available later in 2005.

**Sniffer mode not supported.** The ISG 2000 is always deployed inline. You can not deploy the ISG 2000 with an external TAP or SPAN port on a switch. The Tap mode option is however, available supporting passive, inline detection of application layer threats. Sniffer mode for the TAP/SPAN port is currently available on standalone IDP devices only.

**IDP Manager does not support management of the ISG 2000 or the ISG 2000 security modules.** You must install NetScreen-Security Manager FP3-IDPr1 to manage the ISG 2000 and security modules.

## 6.2 Compatibility Issues

None.

## 6.3 Known Issues

The following is a known deficiency at the time of this release. Whenever possible, a work-around is suggested following the description of the problem. Workaround information starts with “W/A:”

- **48468** – Servers do not receive a reset packet with NAT enabled. This occurs in the case where the server is in route mode and the client is in NAT mode.
- **45733** – IP action “close” sends an incorrect seq # in the RST packet. This prevents you from closing the connection on the host.
- **42416** – If you have chosen the IP action timeout as never, then it can not be cleared.

W/A: You need to configure IP action with a timeout value other than never. If you have configured IP action timeout as never, then you will need to reboot the system to clear the IP action table.

- **42341** – When firewall authentication is enabled, and you are using Linux as a host, the FTP client login does not prompt you to add a password.

## 7. Getting Help

For more assistance with Juniper Networks products, visit:

[www.juniper.net/support](http://www.juniper.net/support)

Juniper Networks occasionally provides maintenance releases (updates and upgrades) for ScreenOS firmware. To have access to these releases, you must register your NetScreen device with Juniper Networks at the above web address.

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