



ISG with ScreenOS 5.0.0-IDP1

Release Notes

Release 5.0.0-IDP1 r10
12-12-05

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1 Version Summary

NOTE: This is the fourth revision of ScreenOS 5.0.0-IDP1. However, it is being released as “r10” to make it clear that it is in sync with ScreenOS 5.0.0r10.

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-IDP1r10 is the latest software version based on the ScreenOS 5.0.0 firmware branch for the ISG security system.

Juniper Networks recommends that customers administer ISG devices with the latest available version of NetScreen-Security Manager. ScreenOS 5.0.0-IDP1r10 requires NetScreen-Security Manager 2005.2 or later.

2 New Features

The following is a list of improvements in this maintenance release.

NOTE: These improvements are available only with the IDP license key.

- ISG 2000 sessions increased from 500K to 1M.
- ISG 1000 sessions increased from 250K to 500K.
- HTTP response traffic performance increased up to 10%.

The following is a partial list of new features and enhancements in the main 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 Series 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 Series 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 Series 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 Addressed Issues

This release contains all Addressed Issues included in ScreenOS 5.0.0r10. For more information see

www.juniper.net/techpubs/software/screenos5x/screenos5xmaintenance/rn_5.0.0_r10_RevC.pdf

The following ISG-IDP specific issues are also addressed in this release:

- **07714** – When the Telnet: Default Password Network Device attack was found, three log entries were generated. The third one showed the destination IP as 0.0.0.0.
- **07608/05474** – Unable to save 1000 Mb setting on GE copper interfaces.
- **07460/05833/07971** – Firewall crashed because the 'next' pointer in the call link list was handled incorrectly.
- **07416** – Sat buffer leaking and hw session link list were broken.
- **07060** – False positives for Major SMTP Buffer Overflow attack object.
- **06981** – IDP logs not seen when HW session link list was broken.
- **06809** – Name length error with 31-character address group names.

5 Known Issues

This section describes known issues with the current release.

Section 5.1 “Limitations of Features” identifies features that are not fully functional at the present time, and are not supported for this release.

Section 5.2 “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 5.3 “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.

5.1 Limitations of Features

This release contains the following feature limitations:

- **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.
- **Sniffer mode not supported.** The ISG Series is always deployed inline. You can not deploy the ISG Series 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 or the ISG security modules.** You must install NetScreen-Security Manager to manage the ISG and security modules.

5.2 Compatibility Issues

- None.

5.3 Known Issues

The following are known deficiencies 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:".

- **07730** – With high traffic volume, ISG with IDP SM stops traffic during NSM policy installation.

W/A: Contact JTAC for patch.

- **06996** – BGP "set network check" doesn't work for routes imported from other vr.

W/A: Contact JTAC for patch.

- **06005/07789** – NSM directives fail when there are around 1500 logs per second or 1500 HTTP connects per second.

W/A: Contact JTAC for workaround.

6 Getting Help

For more assistance with Juniper Networks products, visit:

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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