



Juniper Networks

Intrusion Detection and Prevention

Release Notes

Release 4.2r1

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NOTE: IDP Release 4.2r1 supports only the IDP 8200 platform.

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1 Version Summary

Juniper Networks Intrusion Detection and Prevention (IDP) sensors detect intrusions and prevent attacks on your network.

Juniper Networks NetScreen-Security Manager (NSM) is a comprehensive security management solution designed to manage device, network, and security configuration for integrated firewall, intrusion detection and prevention, and virtual private network (VPN) appliances, sensors, and systems.

Refer to the *NetScreen-Security Manager Administrator's Guide* and the *IDP Concepts and Examples Guide* for more information about NSM and IDP.

2 New Features and Enhancements

IDP 8200 Appliance

This section briefly describes the new IDP 8200 appliance on which the IDP 4.2r1 sensor software is installed. See the *Installation Guide* for the IDP 8200 for more a detailed description of the appliance hardware and IDP system installation.

The IDP 8200 is optimal for large central sites or high-traffic areas. It features:

- 10 Gbps maximum throughput
- 5,000,000 maximum sessions
- Any combination of four modular I/O cards:
 - Four-port gigabit Ethernet (copper) with bypass
 - Four-port gigabit Ethernet (fiber SFP non-bypass)
 - Four-port gigabit Ethernet (fiber SX with bypass)
 - Two-port 10-gigabit Ethernet (SR-bypass)
- One RJ-45 Ethernet management port (10/100/1000 Mbps)
- One console serial port
- One USB port
- Hot-swappable redundant power supplies

For IDP 8200 appliances running software version 4.2r1, you must download and install an updated network driver patch to support the following I/O modules.

IDP-1GE-4SX-BYP	4-port 1 GigE SX fiber interface card with bypass
IDP-10GE-2SR-BYP	2-port 10 GigE SR interface card with bypass
IDP-10GE-2XFP	2-port 10 GigE XFP interface card (non-bypass)

For details, see “Installing IDP 8200 I/O Modules,” on the Juniper Networks IDP 4.2 technical documentation Web site.

New Features for IDP 4.2r1

On-box reporting—IDP release 4.2r1 provides on-box web-based reports with details top attacks, destinations, and sources. These reports are accessible from the ACM home page or through an HTTPS connection to the IDP appliance. Application volume tracking (AVT) reports are not supported in release 4.2r1.

You can access the IDP Reporter user interface with the following browsers:

- Internet Explorer 6.x, 7.x
- Mozilla Firefox 2.x

NOTE: IDP Reporter does not support Mozilla Firefox 3.x.

Compatibility

Schema Update

You can use NetScreen-Security Manager (NSM) 2007.3 (versions 2007.3r1 and 2007.3r2) with the Forward Support Update software to manage the new IDP 8200 platform. To do this, install a schema upgrade on the NSM management server and user interface. The upgrade is available at <http://www.juniper.net/customers/support/>. Refer to the *NSM Forward Support for IDP 4.2r1 Notes* for installation instructions and the features and platforms supported with this schema upgrade.

Attack Object/Detector Update

You must update your Attack objects and the Detector to the latest version before you install a Security Policy. Detector Updates commonly include support for new protocols, anomalies, contexts, and false positive fixes. It is extremely important that you complete the Detector update and Attack update process immediately after installing your IDP system.

To update the detector engine, run the NSM GUI client and select **Devices > Load IDP Detector Engine**.

3 Changes to Default Behavior

The following features will not be supported in IDP 4.2r1:

- Backdoor protection
- Honeypot
- SSL decryption
- GRE, GTP, IP-IP

- All Profiling features including AVT and OSFP
- Other deployment modes (bridge, router, proxy ARP)
- High Availability
- External Bypass unit
- Packet capture (packet logging)

For more information, refer to the *IDP Installation Guide* and the *IDP Configuration and Examples Guide*.

4 System Requirements

IDP sensors have two onboard, Web-based configuration tools called the Appliance Configuration Manager (ACM) and QuickStart. These tools are supported on the following browsers:

- Internet Explorer 6.0 SP2
- Firefox 1.5 or 2.0
- Netscape 7.2 or 8.1.2

5 Known Issues

This section describes known issues at the time of this release.

- **278471**—"scio ccap all" is not supported (as the profiler feature is currently not supported).
- **278695**—Interface hardware speed/duplex settings are not retained on the sensor after reboot.

Work around: In `/usr/idp/device/bin/user_funcs`, set the interface speed/duplex settings for each interface. For example:

```
user_start_begin ()
{
    # To change the duplex/speed of the onboard NIC like eth0 and eth1,
    # uncomment out the following two lines
    ethtool -s eth2 autoneg off
    ethtool -s eth2 speed 100 duplex full
```

- **279408**—UDP port scanning works if there is no response from the Victim PC. But if the response comes in the form of "UDP Port not reachable," the detection ignores the flow because the response packet is more than 20 bytes (default value).

Work around:

1. In NSM, in the device list, double click the name of the device to display the Device dialog box.

2. Select **Sensor Settings**.
3. Click the **Run-time Parameters** tab.
4. Under Traffic Signatures, increase the value for **Byte threshold for suspicious flows**.

- **286020**—In ACM, the default interface setting for all interfaces that support bypass is "NIC OFF"; but for 10 GigE with bypass, the default is "NIC Bypass."
- **286327**—When an appliance is loaded with 1 GigE IOC without bypass, the ACM page displays the NIC State-Bypass drop-down menu. (It should not list the NIC State-Bypass drop-down menu, as it does not support NIC Bypass).
- **287003**—External Bypass is not supported in 4.2r1, but ACM list this option.
- **287179**—The very first NIC Bypass/NIC OFF logs do not appear in NSM.
- **288030**—After a policy push, "Unknown application..." messages might appear in NSM job window (depending on the policy that is pushed).
- **288644**—Inconsistent "NIC OFF" logs (for non-sniffing IFs) when the device is in Sniffer mode.
- **288651**—"NIC OFF" log messages are displayed for interfaces that are not selected as forwarding interfaces.
- **288662**—Reboot in sniffer mode brings interfaces down and attack detection stops.

Work around: You must use ACM to reconfigure the device in Sniffer mode.

Note: IDP 8200 with either 10 GigE IOC or with 1 GigE fiber with bypass IOC does not encounter this problem after installing the updated network driver patch. For details, see "Installing IDP 8200 I/O Modules," on the Juniper Networks IDP 4.2 technical documentation Web site.

- **288663**—Link status (up/down) messages do not appear when the device comes up.
- **288824**—Under high traffic conditions, the following exception messages are displayed in the console:

```
ata1.00: exception Emask 0x2 SAct 0xfe SErr 0x400000 action 0x2 frozen
ata1.00: (spurious completions during NCQ issue=0x0 SAct=0xfe
FIS=005040a1:00000001)
ata1.00: cmd 61/30:08:8d:6e:16/00:00:00:00/40 tag 1 cdb 0x0 data
24576 out
res 50/00:38:a5:70:16/00:00:00:00/40 Emask 0x2 (HSM violation)
```

Work around: You can safely ignore these messages.

- **288997**—The IDP 8200 appliance combined with 10 GigE IOC does not support peer port modulation (PPM).

- **290280**—When the device is under high stress, SSH/Console access to IDP via the management interface might freeze when checking flow table entries via sctop or scio.
- **298918**—ACM does not reject poorly formed alias names. In particular, ACM does not reject constructions with incomplete double-quote strings. For example, “hello (missing end-quote). As a result, the alias name does not appear in NSM.

Work around: When using ACM, be careful to use complete double-quote constructions for alias names. For example, “hello”.

- **299413**—After installing I/O modules, if the number of interfaces is fewer than six, you might encounter ACM or console messages indicating “cannot find eth6 and eth7.” You can safely ignore these messages. To resolve them so the event is no longer reported:
 1. In NSM, edit the policy and verify that only the existing interfaces are set.
 2. Push a policy update to the sensor.

The policy update synchronizes the configuration with the new hardware.

- **299514**—The ACM online help for Choose Forwarding Interfaces options needs to be revised to remove internal comments to reviewers. Please disregard the two messages in red text beginning with “ < < REVIEWERS:”.
- **299531**—The ACM online help for Configure Network Interface Hardware options needs to be revised to list support for 10 GigE interfaces. You configure the 10 GigE interfaces as you would other network interfaces. As with other network interfaces, we recommend you specify auto negotiation for speed and duplex.

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 IDP firmware. To have access to these releases, you must register your IDP device with Juniper Networks at the above web address.

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