

# Installing IDP 8200 I/O Modules

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Revision 00

This document provides instructions for installing IDP 8200 I/O modules.

Follow the workflow that applies to the stage of your deployment:

- “Steps to Deploy a New IDP 8200 with New I/O Modules” on page 1
- “Steps to Add or Replace I/O Modules in a Deployed IDP 8200” on page 3

## 1 Steps to Deploy a New IDP 8200 with New I/O Modules

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When your Juniper Networks shipment arrives, it includes an IDP 8200 chassis with 4 blank I/O module trays installed. Separately, your shipment might include one or more installable I/O module trays.

To install the I/O module hardware, follow these steps:

1. Install the IDP appliance in your equipment rack and connect the power supply, as described in Chapter 4 of the *Juniper Networks Intrusion Detection and Prevention Installation Guide*.



**CAUTION:** Carefully observe safety guidelines provided in the *Juniper Networks Intrusion Detection and Prevention Installation Guide*.

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2. Power off the device. Verify that the POWER LED is off.
3. Unscrew the I/O module blank tray and remove it from the chassis.

**Figure 1: Identifying the I/O Module Blank Tray**



4. Carefully replace the blank tray with the new I/O module tray.

**Figure 2: Replacing the Blank Tray with the I/O Module Tray**



5. Tighten the screws on each side of the faceplate.
6. Power on the device. Verify that the green POWER LED lights steadily.
7. Complete the initial appliance configuration and “Advanced ACM Configuration” workflow, as described in Chapter 5 of the *Juniper Networks Intrusion Detection and Prevention Installation Guide*.
8. 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)

I/O modules not listed do not require the updated network driver patch.

For detailed procedures, see “Downloading and Installing the Updated Network Driver Patch IDP 8200” on page 4.

9. Connect the forwarding interfaces to your network, as described in Chapter 5 of the *Juniper Networks Intrusion Detection and Prevention Installation Guide*.
10. Verify traffic flow, as described in Chapter 5 of the *Juniper Networks Intrusion Detection and Prevention Installation Guide*.
11. Add the sensor to NSM, as described in Chapter 6 of the *Juniper Networks Intrusion Detection and Prevention Installation Guide*.

## 2 Steps to Add or Replace I/O Modules in a Deployed IDP 8200

The steps provided in this section assume you have already installed IDP 8200 with one or more I/O modules and deployed the appliance to your network.

Follow these steps to add or replace I/O modules to an IDP 8200 you have already deployed:

1. 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)

I/O modules not listed do not require the updated network driver patch.

For detailed procedures, see “Downloading and Installing the Updated Network Driver Patch IDP 8200” on page 4.

2. Power off the device. Verify that the POWER LED is off.
3. Unscrew the blank or replaceable module tray and remove it from the chassis.

**Figure 3: Identifying the I/O Module Blank Tray**



4. Carefully replace the blank or replaceable module tray with the new I/O module tray.

**Figure 4: Replacing the Blank Tray with the I/O Module Tray**



5. Tighten the screws on each side of the faceplate.
6. Power on the device. Verify that the green POWER LED lights steadily.
7. Connect to the Appliance Configuration Manager (ACM) as described Chapter 4 of the *Juniper Networks Intrusion Detection and Prevention Installation Guide*.

8. Click the **Change Sensor Mode** link.
9. Complete the configuration for the new interfaces as described in the online help.
10. In NSM, use the Device Manager or Policy Manager to update the IDP policy and push it to the sensor. For details on using NSM, see the *Juniper Networks Netscreen-Security Manager Administrator's Guide* and the NSM online help.

### 3 Downloading and Installing the Updated Network Driver Patch IDP 8200

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)

I/O modules not listed do not require the updated network driver patch.



**NOTE:** You cannot install the updated network driver patch using NSM. You must be able to make an ssh connection to the IDP appliance and switch user to the superuser **root** to run the installation script.

To install the network driver patch, follow these steps:

1. If you have not done so already, go to the Juniper Networks Customer Support Center and download the updated network driver patch.
  - a. Go to <https://www.juniper.net/customers/csc/software/> and log in with your customer user name and password.
  - b. Navigate to **IDP > ScreenOS Software Downloads (including NSM/Global Pro, STRM, IDP and NetScreen-Remote) > 4.2.**
  - c. Download the patch for IDP 8200 I/O modules to your local host.
2. Open an ssh connection to the IDP appliance and log in as the user **admin**.
3. Switch to the superuser **root**. For example:

```
[admin@defaulthost]# su -
Password:
[root@defaulthost]#
```

4. Copy the file **Jnet\_Driver\_Patch\_1\_0.sh** from your local host to a temporary directory on the IDP appliance, such as **/tmp**.
5. Execute the patch file. For example:

```
[root@defaulthost tmp]# sh Jnet_Driver_Patch_1_0.sh
Checking file integrity.....ok
```

```

Checking current version on box.....ok
Extracting tarball.....ok
Copying bpctl2.....ok
Copying bpctl2.ko.....ok
Copying bypassStatus.....ok
Copying idp.sh.....ok
Copying jnet_igb.ko.....ok
Copying jnet_ixgbe.ko.....ok
Copying jnet.ko.....ok
Copying nicBypass.....ok
Copying sh.lib.....ok
Copying Interface.pm.....ok
Annotating VERSION file.....ok
Cleaning up.....ok
##### IMPORTANT INFORMATION #####
Patch was successfully installed. Please reboot the sensor before continuing
to use the device.
[root@defaulthost tmp]#

```

6. Type **reboot** and press Enter.

**NOTE:** You must reboot the appliance before you can use the I/O module interfaces. Rebooting the appliance disrupts network connections. If you have already deployed your IDP 8200 appliance to your network, choose an acceptable time to reboot.

**NOTE:** You can verify the patch has been installed by examining the IDP version file. Open `/usr/idp/device/doc/VERSION` in a text editor and verify the last line includes the string `4.2.112811.update`.

## 4 Getting Help

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

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