



Juniper Networks Secure Access

Quick Start Guide

Juniper Networks, Inc.

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Quick Start

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Introduction

Thank you for choosing the Juniper Networks Instant Virtual Extranet (IVE) appliance. You can install the IVE and start configuring your system using the following easy steps:

- “Step 1: Installing the hardware” on page 2
- “Step 2: Performing basic setup” on page 9
- “Step 3: Licensing and configuring your IVE” on page 12



NOTE: After installing and setting up your IVE, refer to the Initial Configuration task guide in the administrator Web console to install the most current IVE OS service package, license your IVE appliance, and create a test user to verify user accessibility. To test initial set-up and continue configuring your IVE, refer to the “Getting started” section of the *Juniper Networks Secure Access Administration Guide* for your IVE.

We recommend that you install the IVE appliance on your LAN to ensure that it can communicate with the appropriate resources, like authentication servers, DNS servers, internal Web servers via HTTP/HTTPS, external Web sites via HTTP/HTTPS (optional), Windows file servers (optional), NFS file servers (optional), and client/server applications (optional).



NOTE: If you decide to install your IVE appliance in your DMZ, ensure that the IVE appliance can connect to these internal resources.

Step 1: Installing the hardware

IVE appliances feature a variety of hardware designs. The hardware installation procedure for your IVE depends upon the specific model of IVE you purchase. The following sections cover hardware installation procedures for the various IVE systems available from Juniper Networks:

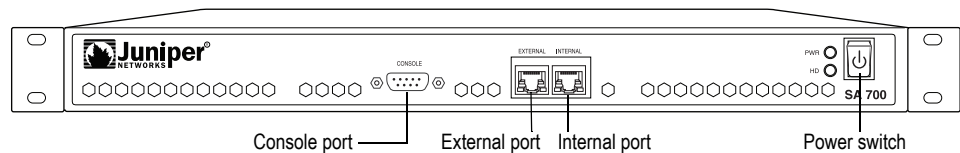
- “Secure Access 700” on page 2
- “Secure Access 2000 and Secure Access 4000” on page 3
- “Secure Access 6000” on page 4
- “Secure Access 4000 FIPS and Secure Access 6000 FIPS” on page 6



NOTE: For Secure Access and Secure Access FIPS safety information, refer to the *Juniper Networks Security Products Safety Guide* available on the Juniper Networks Support site.

Secure Access 700

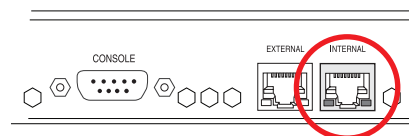
Figure 1: Secure Access 700



The Secure Access 700 ships with mounting ears and rubber feet. Use the mounting ears to rack mount the appliance or attach the rubber feet to place the appliance on a flat surface. Next, connect included cables and power on the IVE following these steps:

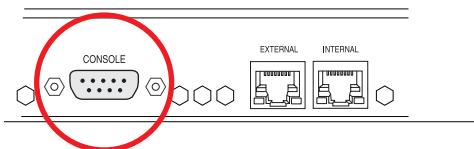
1. On the rear panel, plug the power cord into the AC receptacle.
2. On the front panel:
 - a. Plug the Ethernet cable into the “INTERNAL” port. Once you apply power to the IVE, the internal port uses two LEDs to indicate the connection status, which is described in Table 1 on page 8.

Figure 2: The internal port is located on the front panel



- b. Plug the serial cable into the console port.

Figure 3: The console port is located on the front panel



- c. Push the power switch in the right corner. The green LED next to the power switch turns on.

Hardware installation is complete after you rack-mount the appliance or place the appliance on a suitable flat surface, connect the power, network, and serial cables, and turn on the power. The next step is to connect to the appliance’s serial console as described in “Step 2: Performing basic setup” on page 9.

Secure Access 2000 and Secure Access 4000

Figure 4: Secure Access 2000

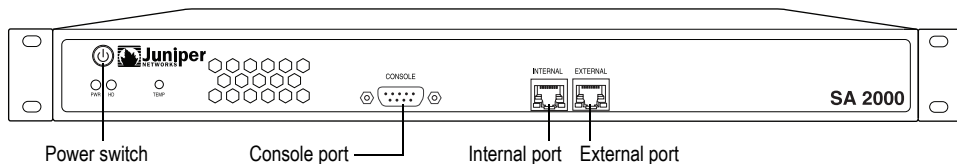
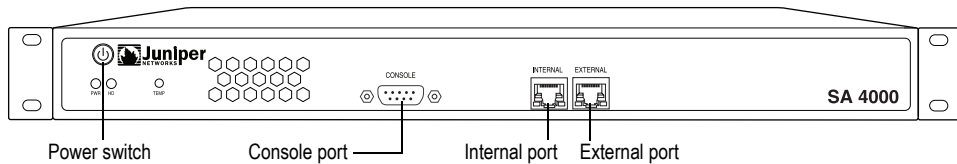


Figure 5: Secure Access 4000



The Secure Access 2000 and Secure Access 4000 appliances ship with mounting brackets attached to the front of the chassis. Rack mount, connect included cables, and power on the IVE following these steps:

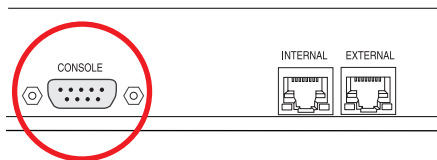
1. Using the attached mounting brackets, mount the IVE appliance in your server rack.
2. On the rear panel, plug the power cord into the AC receptacle.
3. On the front panel:
 - a. Plug the Ethernet cable into the “INTERNAL” port. Once you apply power to the IVE, the internal port uses two LEDs to indicate the LAN connection status, which is described in Table 1 on page 8.

Figure 6: The internal port is located on the front panel



- b. Plug the serial cable into the console port.

Figure 7: The console port is located on the front panel

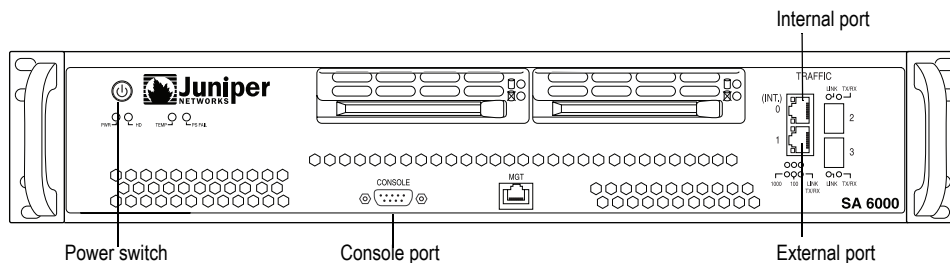


- c. Push the power switch in the left corner. The green LED below the power switch turns on. The IVE hard disk light turns on whenever the appliance reads data from or writes data to the IVE hard disk.

Hardware installation is complete after you rack-mount the appliance, connect the power, network, and serial cables, and turn on the power. The next step is to connect to the appliance’s serial console as described in “Step 2: Performing basic setup” on page 9.

Secure Access 6000

Figure 8: Secure Access 6000



The Secure Access 6000 ships with mounting brackets attached to the front of the chassis. Rack mount, connect included cables, and power on the IVE following these steps:

1. Using the attached mounting brackets, mount the IVE appliance in your server rack.

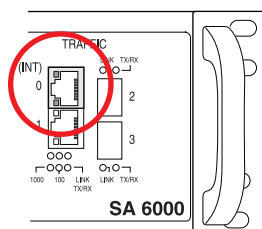
2. On the rear panel, plug the power cord into the AC receptacle. If your Secure Access 6000 contains two power supplies, plug a power cord into each of the AC receptacles.



NOTE: Although your Secure Access 6000 can operate normally on only one power supply, to take advantage of the power redundancy feature available on the Secure Access 6000, you must connect power to both of the power supplies.

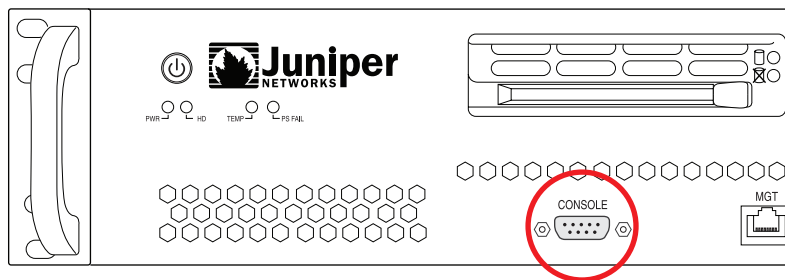
3. On the front panel:
 - a. Plug the Ethernet cable into the “INT” (for internal) port. Once you apply power to the IVE, the internal port uses two LEDs to indicate the LAN connection status, which is described in Table 1 on page 8.

Figure 9: The internal port is located on the front panel



- b. Plug the serial cable into the console port.

Figure 10: The console port is located on the front panel



- c. Push the power switch in the left corner. The green LED below the power switch turns on. The IVE hard disk light turns on whenever the appliance reads data from or writes data to an IVE hard disk.



NOTE: For more information on SA 6000 hardware components, refer to the “Secure Access 6000” chapter in the *Juniper Networks Secure Access Administration Guide*.

Hardware installation is complete after you rack-mount the appliance, connect the power, network, and serial cables, and turn on the power. The next step is to connect to the appliance’s serial console as described in “Step 2: Performing basic setup” on page 9.

Secure Access 4000 FIPS and Secure Access 6000 FIPS

Figure 11: Secure Access 4000 FIPS

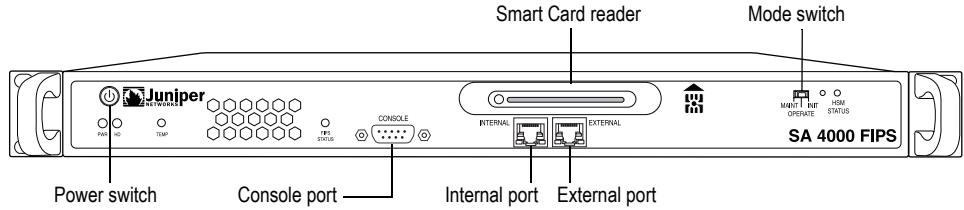
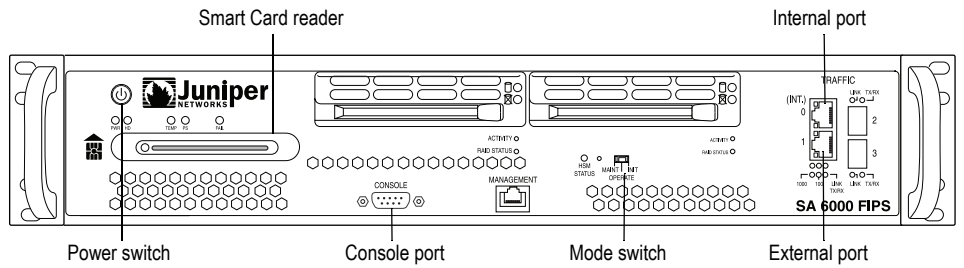


Figure 12: Secure Access 6000 FIPS

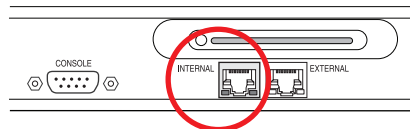


The Secure Access 4000 FIPS and Secure Access 6000 FIPS appliances ship with mounting brackets attached to the front of the chassis. Rack mount, connect included cables, and power on the IVE according to the steps outlined in the following sections.

Secure Access 4000 FIPS

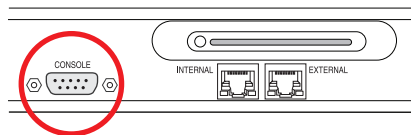
1. Using the attached mounting brackets, mount the Secure Access 4000 FIPS appliance in your server rack.
2. On the rear panel, plug the power cord into the AC receptacle.
3. On the front panel:
 - a. Plug the Ethernet cable into the “INTERNAL” port. Once you apply power to the IVE, the internal port uses two LEDs to indicate the LAN connection status, which is described in Table 1 on page 8.

Figure 13: The internal port is located on the front panel



- b. Plug the serial cable into the console port.

Figure 14: The console port is located on the front panel



- c. Push the power switch in the right corner. The green LED below the power switch turns on. The hard disk light turns on whenever the appliance reads data from or writes data to the hard disk.

Hardware installation is complete after you rack-mount the appliance, connect the power, network, and serial cables, and turn on the power. The next step is to connect to the appliance’s serial console as described in “Step 2: Performing basic setup” on page 9.

Secure Access 6000 FIPS

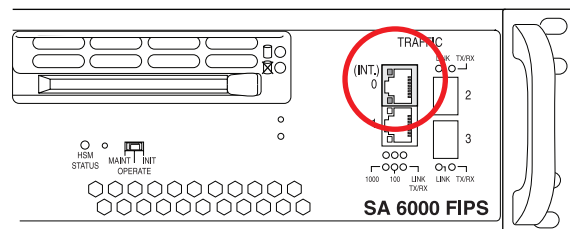
1. Using the attached mounting brackets, mount the Secure Access 6000 FIPS appliance in your server rack.
2. On the rear panel, connect a power cord to each of the AC power supplies.



NOTE: Although your Secure Access 6000 FIPS appliance can operate normally on only one power supply, to take advantage of the power redundancy feature available on the Secure Access 6000 FIPS appliance, you must connect power to both of the power supplies.

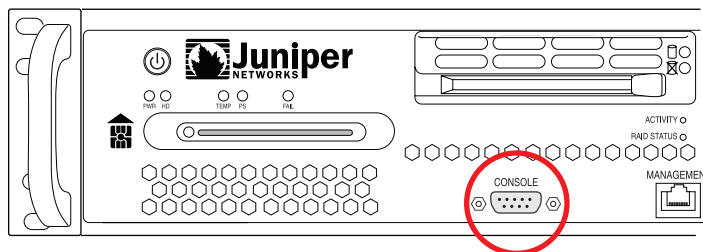
3. On the front panel:
 - a. Plug the Ethernet cable into the “INT” (for internal) port. Once you apply power to the IVE, the internal port uses two LEDs to indicate the LAN connection status, which is described in Table 1 on page 8.

Figure 15: The internal port is located on the front panel



- b. Plug the serial cable into the console port.

Figure 16: The console port is located on the front panel



- c. Push the power switch in the left corner. The green LED below the power switch turns on. The IVE hard disk light turns on whenever the appliance reads data from or writes data to one of the hard disks.

Hardware installation is complete after you rack-mount the appliance, connect the power and network cables, and turn on the power. The next step is to connect to the appliance’s serial console as described in “Step 2: Performing basic setup” on page 9.

LED and Module Status light behavior

Table 1: Internal port LEDs

LAN Status	LED 1	LED2
10 Mbps connection	Off	N/A
100 Mbps connection	Green	N/A
1000 Mbps connection	Orange	N/A
Data is being transferred	Orange, Green, or Off	Blinking
No connection	Off	Off

Table 2: Secure Access FIPS — Hardware Security Module Status light

LAN Status	LED 1	Description
Pre-initialization state	Single, short flashes	The module is ready for initialization.
Operational state	Mainly on but regularly blinks off	The mode switch is set to O (operational). Set to I to start initialization.
Pre-maintenance state	Single, long flashes	The mode switch is set to M (maintenance). Set to I to start initialization.

Step 2: Performing basic setup

When you boot an unconfigured Secure Access or Secure Access FIPS appliance, you need to enter basic network and machine information through the serial console to make the appliance accessible to the network. After entering these settings, you can continue configuring the appliance through the administrator Web console. This section describes the required serial console setup and the tasks you need to perform when connecting to your Secure Access or Secure Access FIPS appliance for the first time.

To perform basic setup:

1. Configure a console terminal or terminal emulation utility running on a computer, such as HyperTerminal, to use these serial connection parameters:
 - 9600 bits per second
 - 8-bit No Parity (8N1)
 - 1 Stop Bit
 - No flow control
2. Connect the terminal or laptop to the serial cable plugged in to the appliance's console port and press **Enter** until you are prompted by the initialization script.

Figure 17: Welcome screen for the IVE serial console

```

Telnet
-----
E1000 driver loaded
.....
No data to import
Creating initial default data
About to boot as a stand-alone IVE.
Hit TAB for clustering options, wait or hit Enter to continue....
Starting Core Services

Welcome to the initial configuration of your server!
NOTE: Press 'y' if this is a stand-alone server or the first
machine in a clustered configuration.
If this is going to be a member of an already running cluster
press n to reboot. When you see the 'Hit TAB for clustering options'
message press TAB and follow the directions.
Would you like to proceed (y/n)?:
CTRL-A Z for help | 9600 8N1 | NOR | Minicom 2.00.0 | UT102 | Offline
  
```

3. Enter **y** to proceed and then **y** to accept the license terms (or **r** to read the license first).
4. Follow the directions in the serial console and enter the machine information for which you are prompted, including the:
 - IP address of the internal port (you configure the external port through the administrator Web console after initial configuration)
 - Network mask
 - Default gateway address

- Primary DNS server address
- Secondary DNS server address (optional)
- Default DNS domain name (for example, `acmegizmo.com`)
- WINS server name or address (optional)
- Administrator username
- Administrator password
- Common machine name (for example, `connect.acmegizmo.com`)
- Organization name (for example, `Acme Gizmo, Inc.`)



NOTE: The IVE uses the common machine and organization names to create a self-signed digital certificate for use during product evaluation and initial setup.

If you are setting up a Secure Access 700, 2000, 4000, or 6000, we strongly recommend that you import a signed digital certificate from a trusted certificate authority (CA) before deploying the IVE for production use.

If you are setting up a Secure Access FIPS 4000 or 6000, you must use the IVE Administrator Web console to generate a new Certificate Signing Request before you can deploy the IVE for production use.

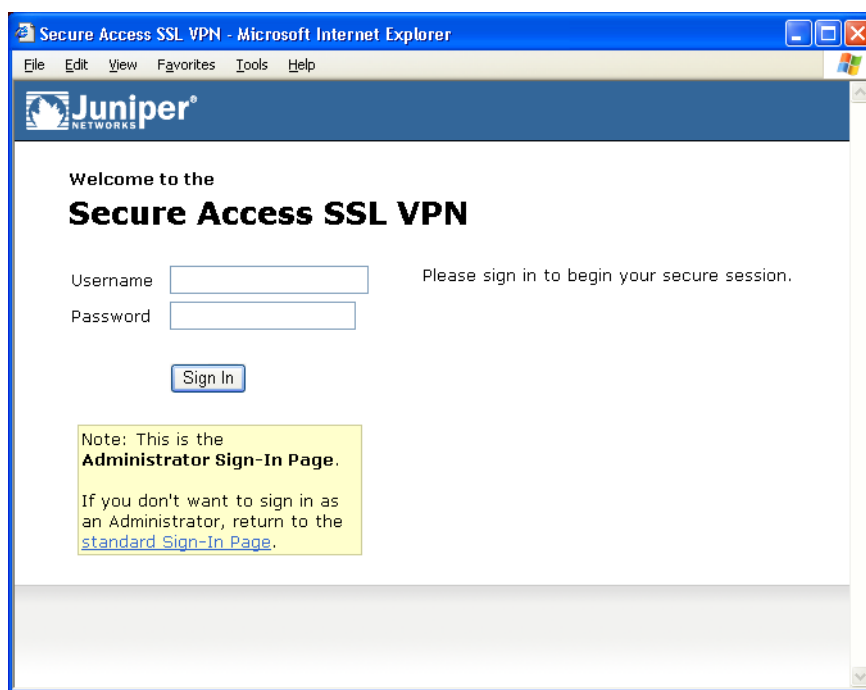
For more information, refer to the “Certificates” chapter in the *Juniper Networks Secure Access Administration Guide*.

5. If you are installing a Secure Access FIPS appliance:
 - a. When prompted by the serial console, set the mode switch to **INIT** (initialization mode). The blue hardware security module (HSM) LED indicates the hardware security module’s mode, which is described in Table 2 on page 8.
 - b. Specify the number of Smart Cards you are initializing.
 - c. Insert one of the Smart Cards into the reader with the circuit contacts facing up until the Smart Card Reader module’s light turns from red to green. Do not remove the card while the module is in **INIT** mode.
 - d. The LED on the Smart Card Reader module turns green when a card is inserted. It does not, however, indicate that the card has been inserted *correctly*. Ensure that you insert the Smart Card with the circuit connector facing up and that the card is inserted facing the right direction.
 - e. Enter a Smart Card administrator pass phrase—one per administrative Smart Card you are initializing.
 - f. Return the mode switch to **OPERATE** (operational mode).

After entering all information, you have completed the serial console setup. When the IVE prompts you with the option to modify your settings, choose the appropriate option or continue.

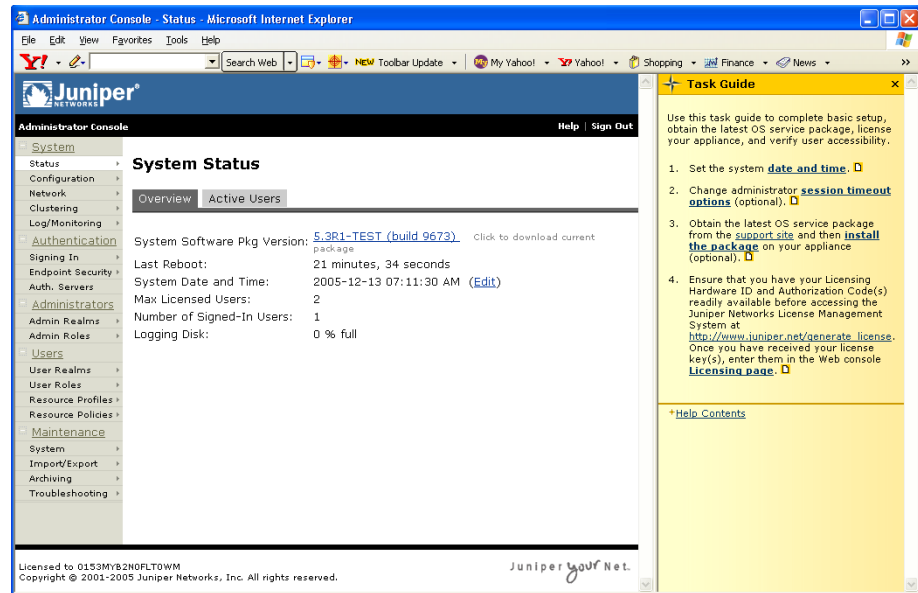
6. In a browser, enter the machine's URL followed by "/admin" to access the administrator sign-in page. The URL is in the format: `https://a.b.c.d/admin`, where `a.b.c.d` is the machine IP address you entered in step 4. When prompted with the security alert to proceed without a signed certificate, click **Yes**. When the administrator sign-in page appears, you have successfully connected your IVE appliance to the network.

Figure 18: Administrator sign-in page



7. On the sign-in page, enter the administrator user name and password you created in step 4 and then click **Sign In**. The administrator Web console opens to the **System > Status > Overview** page.

Figure 19: System > Status > Overview page



Step 3: Licensing and configuring your IVE

After you install the IVE and perform basic setup, you are ready to install the most current IVE OS service package, license the IVE, verify accessibility, and complete the configuration process:

- To install the most current IVE OS service package, license your Secure Access or Secure Access FIPS appliance, and create a test user to verify user accessibility, follow the task guide embedded in the administrator Web console.
- To test initial set-up and continue configuring your IVE, refer to the “Getting Started” section of the *Juniper Networks Secure Access Administration Guide* for your IVE.