



Juniper Networks Unified Access Control

Installation Guide (IC4500/IC6500)

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Hardware Installation Guide

Thank you for choosing the Juniper Networks Unified Access Control Infranet Controller appliance.

Before beginning, please refer to the *Juniper Networks Security Products Safety Guide* for important safety information.

You can install the Infranet Controller and start configuring your system using the following easy steps:

- Step 1: Rack Mounting the Infranet Controller on page 2
- Step 2: Installing the Hardware on page 3
- Step 3: Performing Basic Setup on page 5
- Step 4: Licensing and Configuring Your Infranet Controller on page 9
- Step 5: Install the Infranet Enforcer hardware on page 10



NOTE: After installing and setting up your Infranet Controller, you should install the most current Infranet Controller service package, license your Infranet Controller appliance, and create a test user to verify user accessibility. To test initial set-up and continue configuring your Infranet Controller, refer to the *Juniper Networks Unified Access Control Administration Guide*.

We recommend that you install the Infranet Controller 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 Infranet Controller in your DMZ, ensure that the Infranet Controller can connect to these internal resources.

Step 1: Rack Mounting the Infranet Controller



NOTE: If you are installing multiple devices in one rack, install the lowest one first and then proceed upward in the rack.



CAUTION: The chassis weights between 15 lbs. (6.8 kgs) and 30 lbs (13.6 kgs). Installing it into the rack requires at least one person to lift the device and a second person to secure the mounting screws.

To install a 2U chassis device into a rack, perform the following steps:

1. Attach the two rails to the chassis. The ears on the rails should be at the back of the chassis.
2. Attach the left and right mounting brackets to the front of each side of the chassis.
3. Have one person grasp the sides of the device, lift the device, and position it in the rack.
4. Align the bottom hole in each mounting bracket with a hole in each rack rail, making sure the chassis is level.
5. Have a second person install a mounting screw into each of the two aligned holes. Use a number-2 phillips screwdriver to tighten the screws.
6. Install the remaining screws in each mounting bracket.
7. Verify that the mounting screws on one side of the rack are aligned with the mounting screws on the opposite side and that the device is level.

Step 2: Installing the Hardware

The Unified Access Control 4500 and 6500 ship with mounting ears and mid-mounts. The Infranet Controller 6500 includes rear mounting rails for use in a four-post mounting rack. We recommend you use the rear mounting rails when installing the Infranet Controller 6500 in a rack.

If you require an additional mounting kit, contact Juniper Networks.

Connect the included cables and power on the Infranet Controller following these steps:

1. On the front panel:
 - a. Connect an Ethernet cable from one of the Ethernet ports on the device to a Gigabit switch port set to 1000BaseTX. DO NOT use autoselect on either port.

Once you apply power to the Infranet Controller, the port uses two LEDs to indicate the connection status, which is described in “Ethernet Port LED Behavior” on page 4.
 - b. Plug the serial cable into the console port.
2. On the rear panel, plug the power cord into the AC receptacle. There is no on/off switch on the Infranet Controller. Once you plug the power cord into the AC receptacle, the Infranet Controller powers up.

Hardware installation is complete after you rack-mount the appliance and connect the power, network, and serial cables. The next step is to connect to the appliance’s serial console as described in “Step 3: Performing Basic Setup” on page 5.

Device Status LED Behavior

Startup takes approximately one minute to complete. If you want to turn the device off and on again, we recommend you wait a few seconds between shutting it down and powering it back up.

There are three device status LEDs located on the left-side of the front panel:

- Power
- Hard disk access
- Fault

Table 1 on page 3 lists the name, color, status, and description of each device status LED.

Table 1: Device Status LEDs

Name	Color	State	Description
POWER	Green	Off	Device is not receiving power
		On Steady	Device is receiving power

Table 1: Device Status LEDs(Continued)

Name	Color	State	Description
HARD DISK ACCESS	Yellow	Off	Hard disk is idle
		Blinking	Hard disk is being accessed
FAULT	Red	Off	Device is operating normally
		Slow blinking	Power supply fault
		Fast blinking	Fan failure
		Solid	Thermal failure

Ethernet Port LED Behavior

The Ethernet port LEDs show the status of each Ethernet port.

Table 2: 4-Port Copper Gigabit Ethernet LEDs (available on IC4500 and IC6500)

LED	Color and State	Description
Link/Activity	Green	Link
	Blinking green	Activity
Link Speed	Off	10 Mbps
	Green	100 Mbps
	Yellow	1 Gbps

FIPS Device Status LED Behavior

There are three device status LEDs located on the FIPS card:

- S (Status)
- F (FIPS)
- I (INIT)

Table 3 on page 5 lists the name, color, and description of each LED.

Table 3: FIPS Device Status LEDs

LED	Color and State	Description
STATUS	Off	Bootstrap firmware is executing
	Blinking green	IDLE, OPERATIONAL or FAILSAFE state
	Green	POST or DISABLED state (driver not attached)
	Blinking red	Error occurred during boot process
	Red	HALTED (fatal error) state or when a low-level hardware initialization failure occurred
FIPS	Off	Operating in non-FIPS mode
	Green	Operating in FIPS mode
	Blinking yellow	Zeroize jumper is present
INIT	Off	Board is not initialized
	Green	Board initialized by security officer
	Yellow	POST, DIAGNOSTIC or FAILSAFE (firmware not upgraded) state
	Blinking yellow	Running diagnostics

Step 3: Performing Basic Setup

When you boot an unconfigured Infranet Controller 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 Infranet Controller 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 1: Welcome Screen for the Infranet Controller Serial Console

```

Telnet

E1000 driver loaded
.....
No data to import
Creating initial default data

About to boot as a stand-alone IUE.
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)?:

GIRL-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 Infranet Controller uses the common machine and organization names to create a self-signed digital certificate for use during product evaluation and initial setup.

We strongly recommend that you import a signed digital certificate from a trusted certificate authority (CA) before deploying the Infranet Controller for production use.

For more information, refer to the “Initial Configuration of the Unified Access Control Solution” chapter in the *Juniper Networks Unified Access Control Administration Guide*.

5. (FIPS only) The FIPS appliances utilize FIPS 140-2 certified Hardware Security Modules (HSM) and require the following pieces of information to initialize the HSM and manage the HSM protected storage:
 - a. When prompted by the serial console, enter the security officer name and password. Save these credentials as they are required for creating new restore passwords and for changing the security officer password.
 - b. Enter the key store restore or HSM master key backup password.
 - c. Enter the username and password for the HSM private key storage.

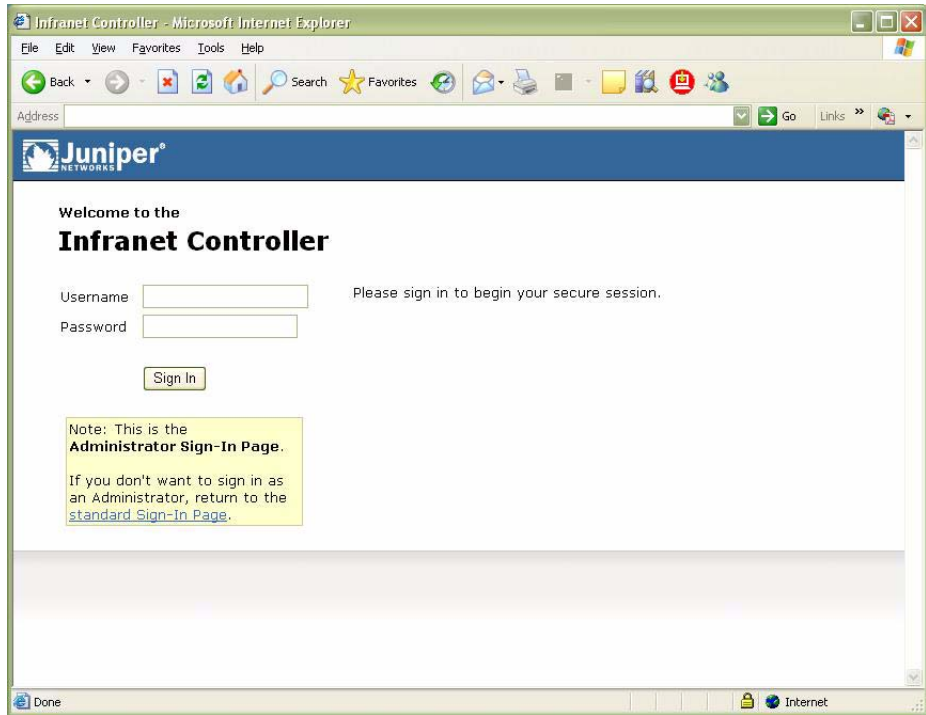
Security officer names, usernames and keystore names must adhere to the following requirements.

Requirement	Description
Minimum length	At least one character
Maximum length	63 characters for security officer names and user names. 32 characters for keystore names.
Valid characters	Alphanumeric, underscore (_), dash (-) and period (.)
First character	Must be alphabetic

Passwords must be at least six characters. Three characters must be alphabetic and one character must be non-alphabetic.

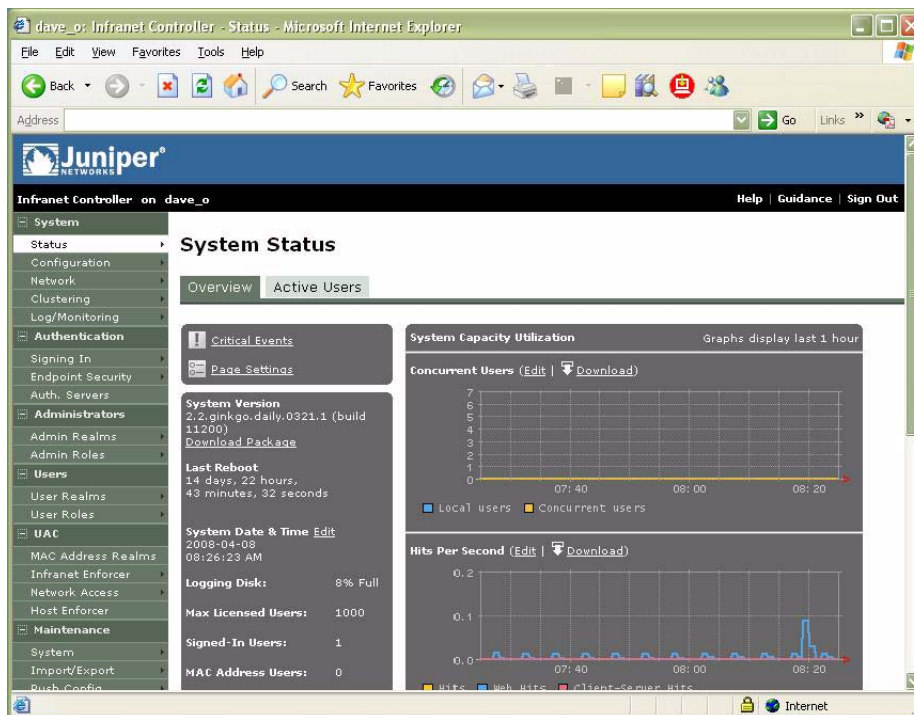
6. In a browser, enter the machine’s URL followed by “/admin” to access the administrator sign-in page. The URL is in the format: `https://a.b.c.d/admin`, where `a.b.c.d` is the machine IP address you entered in step 4. When prompted with the security alert to proceed without a signed certificate, click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

Figure 2: 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 3: System > Status > Overview Page



Step 4: Licensing and Configuring Your Infranet Controller

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

- To install the most current Infranet Controller OS service package, license your Infranet Controller and create a test user to verify accessibility, refer to the “General System Management” chapter of the *Juniper Networks Unified Access Control Administration Guide* for your Infranet Controller.
- To test initial set-up and continue configuring your Infranet Controller, refer to the “Initial Configuration of the Unified Access Control” chapter of the *Juniper Networks Unified Access Control Administration Guide* for your Infranet Controller.

Step 5: Install the Infranet Enforcer hardware

If you have not already done so, install the Infranet Enforcer hardware. For cabling, rack mounting, and basic configuration instructions for platforms such as the ISG 1000 or ISG 2000, refer to the *User's Guide* that shipped with the system or visit the Juniper Networks web site at www.juniper.net/techpubs/ to download the *User's Guide* appropriate for the platform you are using.



NOTE:

- Be sure to set the date and time of the Infranet Enforcer to match the date set for the Infranet Controller. If possible, use a Network Time Protocol (NTP) server to set the date and time of both appliances.
 - For Infranet Controller safety information, refer to the *Juniper Networks Security Products Safety Guide* available on the Juniper Networks Support site.
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