

InfraStruXure Central Quick Start Guide

This document provides quick start setup instructions for your InfraStruXure Central server. These instructions provide a “fast path” installation procedure, and are intended for our more technically experienced customers. More thorough instructions on all phases of server configuration and installation can be found in the InfraStruXure Central User’s Reference, included with your InfraStruXure Central server.

Using InfraStruXure Central without a DNS Server

Important! If you do not have a DNS server on your network, you must add a DNS name / IP for the InfraStruXure Central server to the “hosts” file on the system from which you will access the InfraStruXure Central server. Then, be sure to use this DNS name to connect to the server from your web browser.

For example, let’s assume you do not have a DNS server and want to manage a InfraStruXure Central server with an IP address of 192.168.2.200 from your Windows 2000 system. You also need to pick a hostname for this server – we’ll call this server “myserver.”

1. Locate the hosts file. In this example, this file is located in WINNT\system32\drivers\etc.
2. Use Notepad (or any other text editor) to open the hosts file.
3. Add the following line to the end of the hosts file:

```
192.168.2.200    myservers
```

4. Save the hosts file.

Once you have saved the IP address/hostname entry for the InfraStruXure Central server to your hosts file, be sure you enter the hostname (not the IP address) of the InfraStruXure Central server in the login interface when connecting to the server.

Prepare to Install Your InfraStruXure Central Server

The InfraStruXure Central server is designed to be installed in a server rack or cabinet. Rack mounting configurations differ depending on rack or cabinet design and manufacturer. Please refer to your rack or cabinet documentation for detailed instructions on how to mount equipment in your rack or cabinet.



Note

To configure the IP settings on your InfraStruXure Central server you will need to connect a Windows 2000 (with SP4 or later), XP (with SP1 or later), or Vista system to the server using the included null modem cable. Before installing be sure to consider the following issues:

- Depending on your rack or cabinet design and location, it may be difficult to access the serial port on the back of the InfraStruXure Central server after you install it in your rack.
- If the cabinet or rack is in a difficult-to-access location, it may be difficult to get the required Windows system close enough to the rack- or cabinet-mounted server to easily connect the two systems with the included null modem cable.

If you believe you may encounter either of these scenarios, we suggest that you configure the IP settings on the server first, and then install it in your rack or cabinet.

After you have installed the server in your rack or cabinet, be sure to connect the server to your 10 Mbit, 100 Mbit, or 1000 Mbit Ethernet network and to connect the power cable to a properly grounded power outlet or power distribution unit.



Note

This power cord is to be used only with APC NetBotz products.

注意：本製品に同梱されている電源ケーブルは本製品専用です。ほかの用途ではご使用にならないでください。

System Prerequisites

The InfraStruXure Central console is a stand-alone Java application that runs on systems that meet the following requirements:

- A PC with an 1 GHz or better AMD/Intel processor running Microsoft Windows (2000 SP4 or later, XP SP1 or later, Vista) or Red Hat Enterprise Linux 4.
- 1GB RAM

Finally, your screen resolution should be set to at least 1024x768.

Configuring Your InfraStruXure Central Server

Before installing your InfraStruXure Central server, you must configure your server's network settings. You can use the Serial Configuration Utility to specify network settings (including IP address, gateway address, subnet mask, and hostname) to be used by the server.

Installing the Serial Configuration Utility

You can use the *InfraStruXure Central Installer CD* to install the following applications on any supported system:

- **InfraStruXure Central Console:** A Java-based user interface designed to work with the InfraStruXure Central server. Simplifies monitoring and managing your NetBotz devices and other 3rd party devices.
- **Serial Configuration Utility:** A Java-based application that you can use to configure the network settings on your InfraStruXure Central server.
- **Java Runtime Environment (JRE)**

By default, the Installer will copy the InfraStruXure Central documentation to your system. You can also access these PDF files from the DOCS subdirectory of the CD.

Installing on a Windows System

To install the applications and the JRE on a supported Windows system

1. Place the *InfraStruXure Central Installer CD-ROM* in the CD-ROM drive of the system that you will use to configure and manage your InfraStruXure Central server. The Installer will start automatically. If you have disabled Autostart on your system, click Start > Run, type `x:\install.exe` in the **Open** field (where *x* is the drive letter assigned to your CD-ROM drive) and then click **OK**.
2. The Welcome screen appears. Read the window contents and then click **Next** to continue.
3. The License Agreement window appears. Read the window contents, click **I Accept the terms of the License Agreement** to agree to the terms and conditions of the license agreement and then click **Next**. If you do not agree to the terms and conditions of the license agreement, click

Cancel to close the installation program.

4. The Choose Install Set window appears. You can choose to install the **Typical** product features, **Minimal** product features, or **Custom** product features.
 - If you choose **Typical** the Serial Configuration Utility, product documentation, and InfraStruXure Central Console application will be installed on your system.
 - If you choose **Minimal** only the Serial Configuration Utility and the InfraStruXure Central Console application will be installed on your system.
 - If you choose **Custom** you can select which components you want installed on your system.
5. Select a product feature option and then click **Next** to continue.
6. The Pre-Installation Summary window appears and displays information about the installation options you have chosen. Click **Install** to continue.
7. The Install Complete window appears. Click **Done** to finish your installation and close the Installer.

Installing on Linux Systems

To install the applications and the JRE on a supported Linux system:

1. Place the *InfraStruXure Central Installer* CD-ROM in the CD-ROM drive of the system that you will use to configure and manage your InfraStruXure Central server.
2. Run `install.bin` from the Linux subdirectory on the CD. For example, if you mounted the CD-ROM drive as `/mnt/cdrom`, execute the following command:

```
sh /mnt/cdrom/linux/install.bin
```
3. The Installer starts and the Welcome screen appears. Read the window contents and then click **Next** to continue.
4. The License Agreement window appears. Read the window contents, click **I Accept the terms of the License Agreement** to agree to the terms and conditions of the license agreement and then click **Next**. If you do not agree to the terms and conditions of the license agreement, click **Exit** to close the installation program.
5. The Choose Install Set window appears. You can choose to install the **Typical** product features, **Minimal** product features, or **Custom** product features.
 - If you choose **Typical** the Serial Configuration Utility, product documentation, and InfraStruXure Central Console application will be installed on your system.
 - If you choose **Minimal** only the Serial Configuration Utility and the InfraStruXure Central Console application will be installed on your system.
 - If you choose **Custom** you can select which components you want installed on your system.
6. Select a product feature option and then click **Next** to continue.
7. The Pre-Installation Summary window appears and displays information about the installation options you have chosen. Click **Install** to continue.
8. The Install Complete window appears. Click **Done** to finish your installation and close the Installer.

Using the Serial Configuration Utility

You can use the Serial Configuration Utility (installed using the *InfraStruXure Central Installer CD-ROM*) to assign your server network settings.

To configure your server using the Serial Configuration Utility:

1. Click **Start > Programs > InfraStruXure Central Console > Serial Configuration Utility** to start the Serial Configuration Utility.
2. Connect one end of the null modem cable to a serial connector on your system and the other end of the cable to the serial port on the InfraStruXure Central server.
3. Plug the InfraStruXure Central server power supply into a wall outlet, and then connect it to the power cord connection. When the server is finished starting up (about 2 minutes) click **Next** to continue.
4. The Serial Configuration Utility automatically scans your systems COM ports to determine if a server is connected to the system. If a server is discovered the utility will note the presence of the server in the Device column of the window. Select the radio button that corresponds to the server you wish to configure and then click **Next** to continue configuring your server.



Note

If the COM port associated with the port to which your serial cable is connected is currently in use by another application, the message beside the COM port in the Owner column will indicate that the port is not currently available. To correct this, close the application that is using the COM port and then click Scan Serial Ports.

5. The Root Password window appears. Type in the **Password** field the administrator account password for this server (by default this password is set to “apc.”) and then click **OK**.
6. The utility scans the server and displays the network settings (IP Address, Netmask, and Gateway) that are currently stored on the server. The network settings are divided into Ethernet Card Settings and DNS Settings.
7. Specify the Ethernet Card settings. Select the **Configure using these settings** radio button and then provide an IP address, subnet mask, and gateway address for the server.
8. Specify the DNS Settings. Provide the desired domain and DNS server information.
9. Click **Next** to save your configuration settings. When the save process is complete you can click **Finish** to close the Serial Configuration Utility.

To test the InfraStruXure Central server IP connection, start your web browser and type the IP address that was assigned to the server into the address field. Then, press **Enter**. If the InfraStruXure Central server is online and properly configured the InfraStruXure Central welcome page will be displayed in the browser window.

Reconfiguring the InfraStruXure Central Server IP Settings

If you need to reconfigure the IP settings on your InfraStruXure Central server in the future, you can use the Serial Configuration Utility to do so. However, if you have changed the default Administrator password (apc), you will need to change the root login procedure described above accordingly. In other words, when you reach step 6 and are required to log into the server, you must use the following User Name and Password:

User Name: root

Password: *your new Administrator password*

Install Your InfraStruXure Central Server

The InfraStruXure Central server is designed to be installed in a server rack or cabinet. Use the following safety guidelines to help ensure your own personal safety and to help protect your system and working environment from potential damage. For complete safety information, see the Product Information Guide.

SAFETY: Rack Mounting of Systems

Observe the following precautions for rack stability and safety.

- Systems are considered to be components in a rack. Thus, "component" refers to any system as well as to various peripherals or supporting hardware.



Caution

Installing systems in a rack without the front and side stabilizers installed could cause the rack to tip over, potentially resulting in bodily injury under certain circumstances. Therefore, always install the stabilizers before installing components in the rack. After installing system/components in a rack, never pull more than one component out of the rack on its slide assemblies at one time. The weight of more than one extended component could cause the rack to tip over and injure someone.



Note

Your system is safety-certified as a free-standing unit and as a component for use in a rack cabinet using the customer rack kit. The installation of your system and rack kit in any other rack cabinet has not been approved by any safety agencies. It is your responsibility to ensure that the final combination of system and rack complies with all applicable safety standards and local electric code requirements. The manufacturer disclaims all liability and warranties in connection with such combinations.

- System rack kits are intended to be installed in a rack by trained service technicians. If you install the kit in any other rack, be sure that the rack meets the specifications.



Caution

Do not move racks by yourself. Due to the height and weight of the rack, a minimum of two people should accomplish this task.

- Before working on the rack, make sure that the stabilizers are secured to the rack, extended to the floor, and that the full weight of the rack rests on the floor. Install front and side stabilizers on a single rack or front stabilizers for joined multiple racks before working on the rack.
- Always load the rack from the bottom up, and load the heaviest item in the rack first.
- Make sure that the rack is level and stable before extending a component from the rack.
- Use caution when pressing the component rail release latches and sliding a component into or out of a rack; the slide rails can pinch your fingers.
- After a component is inserted into the rack, carefully extend the rail into a locking position, and then slide the component into the rack.
- Do not overload the AC supply branch circuit that provides power to the rack. The total rack load should not exceed 80 percent of the branch circuit rating.
- Ensure that proper airflow is provided to components in the rack.
- Do not step on or stand on any component when servicing other components in a rack.

Installation Instructions

This installation guide provides instructions for trained service technicians installing one or more systems in a rack cabinet. The RapidRails™ rack kit can be installed without tools in manufacturer's rack cabinets that have square holes. One rack kit is required for each system installed in the rack. VersaRails™ rack kits, which are designed for use with rack cabinets that have round holes, are available for purchase separately.

Before attempting this installation, you should read through this entire procedure carefully.



Do not install rack kit components designed for another system. Use only the rack kit for your system. Using the rack kit for another system may result in damage to the system and personal injury to yourself and to others.

Before You Begin

Before you begin installing your system in the rack, carefully read the safety instructions found at the beginning of this guide, as well as the safety instructions found in your system's Product Information Guide for additional information.

Observe the following safety precautions when installing your system in the rack.

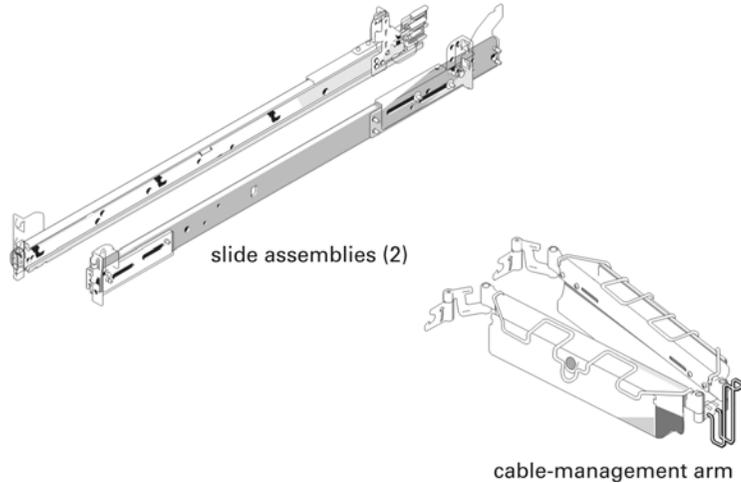


- When installing multiple systems in a rack, complete all of the procedures for the current system before attempting to install the next system.
- Rack cabinets can be extremely heavy and move easily on the casters. The cabinet has no brakes. Use extreme caution while moving the rack cabinet. Retract the leveling feet when relocating the rack cabinet. Avoid long or steep inclines or ramps where loss of cabinet control may occur. Extend the leveling feet for support and to prevent the cabinet from rolling.
- You must strictly follow the procedures in this document to protect yourself as well as others who may be involved. Your system may be very large and heavy, and proper preparation and planning are important to prevent injury to yourself and to others. This becomes increasingly important when systems are installed high up in the rack.
- Installing systems in a rack without the front and side stabilizer feet installed could cause the rack to tip over, potentially resulting in bodily injury under certain circumstances. Therefore, always install the stabilizer feet before installing components in the rack. The stabilizer feet help prevent the rack from tipping over when a system or other component is pulled out of the rack with the slide assemblies fully extended. Refer to the documentation provided with the rack cabinet for instructions on installing and anchoring the stabilizer feet.
- After installing systems in a rack, never pull more than one system out of the rack on its slide assemblies at one time. The weight of more than one extended system could cause the rack to tip over and cause injury.

RapidRails Rack Kit Contents

The RapidRails rack kit includes the following items (see Figure 1-1):

- One pair of RapidRails slide assemblies
- One cable-management arm
- Tie-wraps (not shown)



Installation Tasks

Installing a rack kit involves performing the following tasks in their numbered order:

1. Removing the rack doors
2. Select an installation location within the rack
3. Installing the RapidRails slide assemblies in the rack
4. Installing the system in the rack
5. Installing the cable-management arm
6. Routing cables
7. Replacing the rack doors

Removing the Rack Doors

See the procedures for removing doors in the documentation provided with your rack cabinet.



Caution

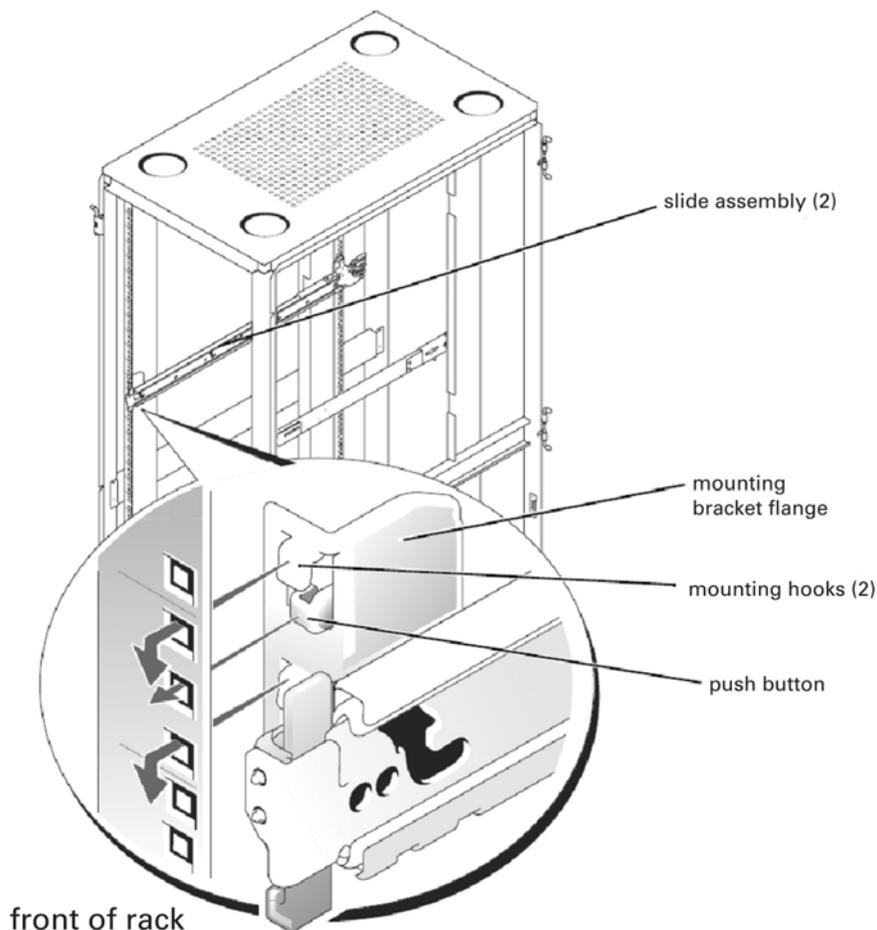
- Because of the size and weight of the rack cabinet doors, never attempt to remove or install them by yourself.
- Store the two doors where they will not injure someone if the doors accidentally fall over.

Selecting a Location within the Rack

You must allow 1 U (44 mm, 1.75 inches) of vertical space for each InfraStruXure Central Standard Edition system or 2 U (88 mm, or 3.5 inches) of vertical space for each InfraStruXure Central Enterprise Edition system you install in the rack. Rack cabinets that meet EIA-310 standards have an alternating pattern of three holes per rack unit with center-to-center hole spacing (beginning at the top hole of a 1-U space) of 15.9 mm, 15.9 mm, and 12.7 mm (0.625 inch, 0.625 inch, and 0.5 inch) for the front and back vertical rails (see Figure 1-3). Rack cabinets may have round or square holes. The RapidRails™ rack kit can be installed without tools in manufacturer's rack cabinets that have square holes. VersaRails™ rack kits, which are designed for use with rack cabinets that have round holes, are available for purchase separately.

Installing the RapidRails Slide Assemblies

1. At the front of the rack cabinet, position one of the RapidRails slide assemblies so that its mounting-bracket flange fits between the marks or tape you placed on the rack (see below). The top mounting hook on the slide assembly's front mounting bracket flange should enter the top hole between the marks you made on the vertical rails.
2. Push the slide assembly forward until the top mounting hook enters the top square hole that you placed a mark just above on the vertical rail, and then push down on the mounting-bracket flange until the mounting hooks seat in the square holes and the push button pops out and clicks (see below).



3. At the back of the cabinet, pull back on the mounting-bracket flange until the top mounting hook is in the top square hole, and then push down on the flange until the mounting hooks seat

in the square holes and the push button pops out and clicks.

4. Repeat steps 1 through 3 for the slide assembly on the other side of the rack.



Ensure that the slide assemblies are mounted at the same position on the vertical rails on each side of the rack.

Note

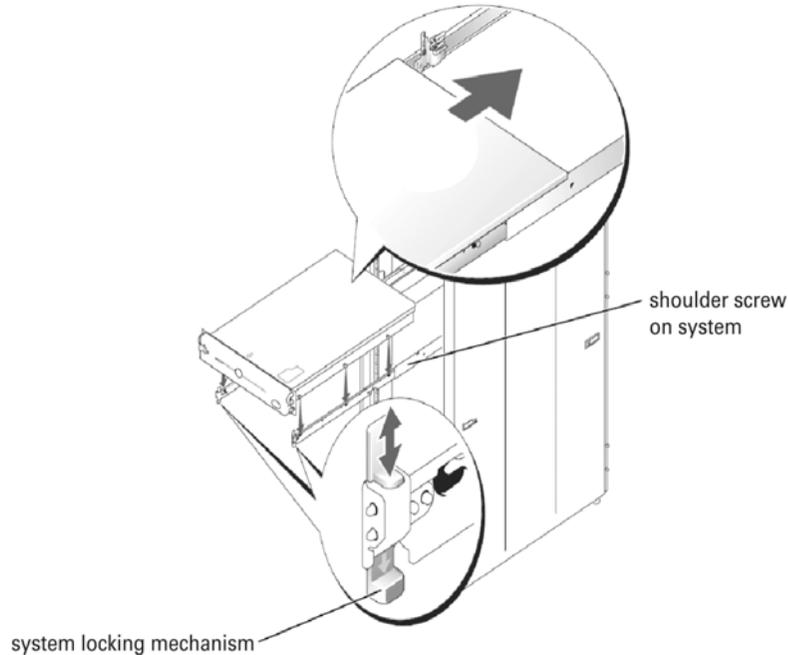
Installing the System in the Rack



Caution

- If you are installing more than one system, install the first system in the lowest available position in the rack.
- Never pull more than one component out of the rack at a time.
- Because of the size and weight of the system, never attempt to install the system in the slide assemblies by yourself.

1. Pull the two slide assemblies out of the rack until they lock in the fully extended position. Lift the system into position in front of the extended slides (see below).



2. Place one hand on the front-bottom of the system and the other hand on the back-bottom of the system.
3. Tilt the back of the system down while aligning the back shoulder screws on the sides of the system with the back slots on the slide assemblies.
4. Engage the back shoulder screws into their slots.
5. Lower the front of the system and engage the front and middle shoulder screws in their slots (the middle slot is just behind the yellow system release latch).

When all shoulder screws are properly seated, the system locking mechanism at the front of each slide assembly clicks and locks the system into the slide assembly.

6. Press up on the slide release latch at the side of each slide to slide the system completely into the

rack.

7. Push in and turn the captive thumbscrews on each side of the front chassis panel to secure the system to the rack.



Note

To remove the system from the slide assemblies, press down on the thumbpads of the system locking mechanism, and then pull the system forward.

Installing the Cable-Management Arm

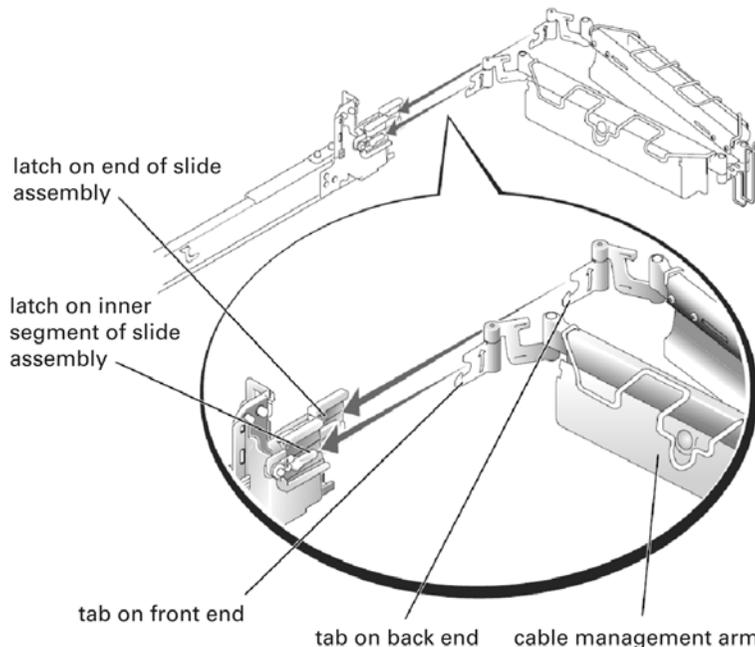


Note

The cable-management arm can only be installed on the right side of the rack cabinet (as viewed from the back).

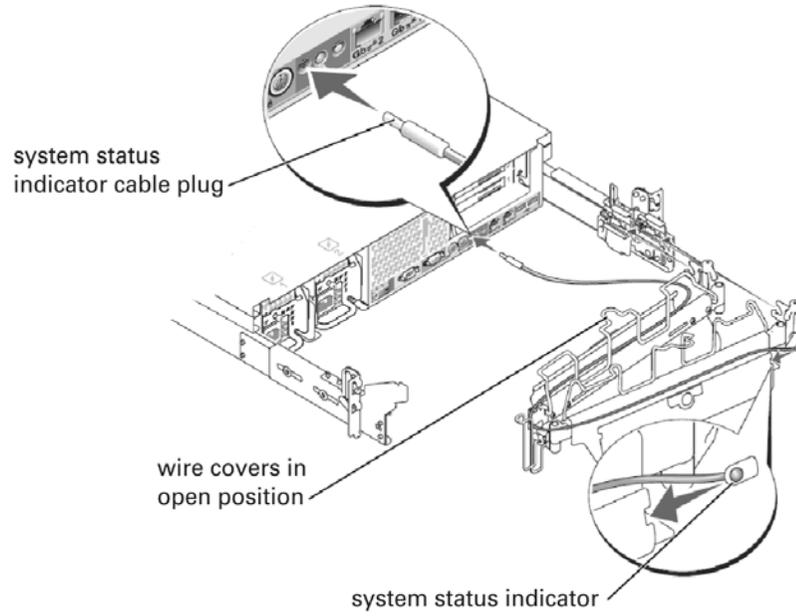
To install the cable-management arm on the system, perform the following steps:

1. Facing the back of the rack cabinet, locate the latch on the end of the slide assembly.
2. Push the tab on the back end of the cable-management arm into the latch on the end of the slide assembly (see below). The latch clicks when locked.
3. Push the tab on the front end of the cable-management arm into a mating latch on the inner segment of the slide assembly (see below). The latch clicks when locked.



4. If applicable, install the system status indicator cable plug into its connector (see Figure 1-9).
5. Open the wire covers on the cable-management arm by lifting the center of the wire over the top of the embossed round button on the front of the forward part of the arm and lifting the wire over the top of a similar round button on the back part of the arm. The wire cover swings open to enable cables to be routed within the arm.
6. Route the system status indicator end of the cable through the cable-management arm, and

install the indicator in its slot at the back end of the cable-management arm (see below).

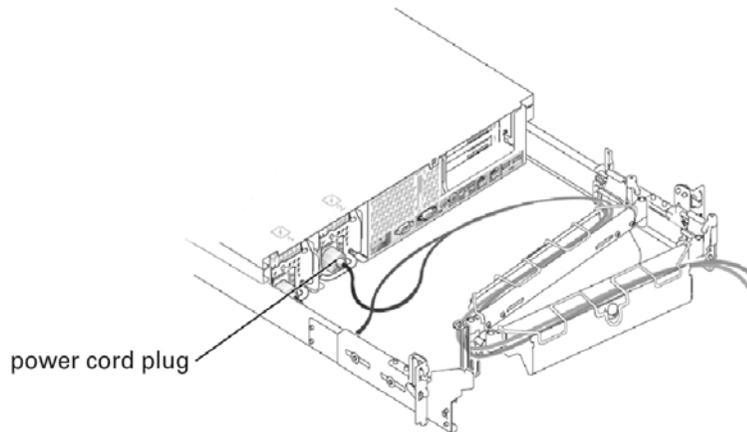


7. Connect the power cords to their receptacles on the back panel (see below).



Note

Use the strain-relief loops (if available) on the back of the power supplies to provide strain relief for the power cables.



Caution

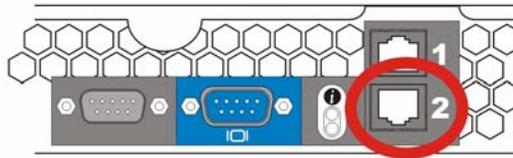
Allow some slack in each cable as you route them around hinges in the cable-management arm.

8. Attach the I/O and network cables to their respective connectors on the system back panel.



Caution

If you will ne enabling the internal DHCP LAN functionality on your InfraStruXure Central, the private LAN connection **must** be connected to LAN Port 2. Once this feature is enabled, ensure that LAN Port 2 is NOT connected to a public LAN. Enabling this functionality on an InfraStruXure Central with LAN Port 2 connected to a public LAN will result in serious network connectivity issues.



9. Route the power, I/O, and network cables through the cable-management arm, using four loosely secured tie-wraps (two in the middle and one on each end of the cable-management arm).
 - Do not fully tighten the tie-wraps at this time.
 - Allow some cable slack in the cable-management arm to prevent damage to the cables.
10. Secure the cables to the cable-management arm:
 - a. After connecting the cables to the system, unscrew the thumbscrews that secure the front of the system to the front vertical rail.
 - b. Slide the system forward to the fully extended position.
 - c. Route the cables along the cable-management arm, make any adjustments needed to the cable slack at the hinge positions, secure the cables to the cable-management arm with the tie-wraps, and close the wire covers over the cable-management arm.

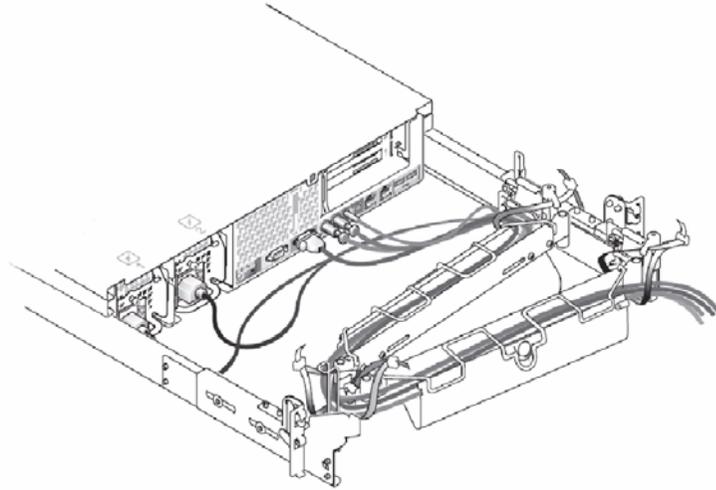


Note

As you pull the system out to its furthest extension, the slide assemblies will lock in the extended position. To push the system back into the rack, press the slide release latch on the side of the slide, and then slide the system completely into the rack.

11. Slide the system in and out of the rack to verify that the cables are routed correctly and do not

bind, stretch, or pinch with the movement of the cable-management arm.



12. Tighten the tie-wraps just enough to ensure that the cable slack is neither too tight to cause excessive pinching nor too loose, yet keep the cables from slipping as the system is moved in and out of the rack.

Replacing the Rack Doors

Refer to the procedures for replacing doors in the documentation provided with your rack.



Because of the size and weight of the rack cabinet doors, never attempt to remove or install them by yourself.

This completes the rack installation of your system in a four-post rack cabinet.

Use Your InfraStruXure Central Server

Your InfraStruXure Central server is now installed and operational. Refer to the *InfraStruXure Central User's Reference* for complete InfraStruXure Central user information.

Warranty and Service

Limited warranty

APC warrants the InfraStruXure Central server to be free from defects in materials and workmanship for a period of 2 years (hardware) from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser.

Warranty limitations

Except as provided herein, APC makes no warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

Except as provided above, in no event will APC be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of this product, even if advised of the possibility of such damage.

Specifically, APC is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise. This warranty gives you specific legal rights and you may also have other rights, which vary according to jurisdiction.

Obtaining service

Technical support and software updates are available only with the purchase of a software support contract. To obtain support for problems with your InfraStruXure Central server:

1. Note the serial number. The serial number is located on the rear of the appliance.
2. Contact Customer Support. Customer support for this or any other APC product is available at no charge in any of the following ways:
 - Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.
 - www.apc.com (Corporate Headquarters)
 - Connect to localized APC Web sites for specific countries, each of which provides customer support information.
 - www.apc.com/support/

- Global support searching APC Knowledge Base and using e-support.
- Regional centers:

Direct Support for APC Security & Environmental Products	877-908-2688 (United States) or +1-401-789-5735
Latin America	+1-401-789-5735
Europe, Middle East, Africa	(353) (91) 702479 (Ireland)
Japan	(0) 35434-2021
Australia, New Zealand, South Pacific area	(61) (2) 9955 9366 (Australia)

- Contact the APC representative or other distributor from whom you purchased your APC product for information on how to obtain local customer support.
3. If you must return the product, the technician will give you a return material authorization (RMA) number. If the warranty expired, you will be charged for repair or replacement.
 4. Pack the unit carefully. The warranty does not cover damage sustained in transit. Enclose a letter with your name, address, RMA number and daytime phone number; a copy of the sales receipt; and a check as payment, if applicable.
 5. Mark the RMA number clearly on the outside of the shipping carton.
 6. Ship by insured, prepaid carrier to the address provided by the Customer Support technician.

Life-Support Policy

General policy

American Power Conversion (APC) does not recommend the use of any of its products in the following situations:

- In life-support applications where failure or malfunction of the APC product can be reasonably expected to cause failure of the life-support device or to affect significantly its safety or effectiveness.
- In direct patient care.

APC will not knowingly sell its products for use in such applications unless it receives in writing assurances satisfactory to APC that (a) the risks of injury or damage have been minimized, (b) the customer assumes all such risks, and (c) the liability of American Power Conversion is adequately protected under the circumstances.

Examples of life-support devices

The term *life-support device* includes but is not limited to neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief, or other purposes), autotransfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators (for adults and infants), anesthesia ventilators, infusion pumps, and any other devices designated as “critical” by the U.S. FDA.

Hospital-grade wiring devices and leakage current protection may be ordered as options on many APC UPS systems. APC does not claim that units with these modifications are certified or listed as hospital-grade by APC or any other organization. Therefore these units do not meet the requirements for use in direct patient care.

PN: 02420D04