Sun Cobalt™ Control Station

Installation and Setup Guide



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Part Number / Numéro de pièce : 070-00357-01
Date : 11-2001

Important Safeguards

For your protection, please read and understand all of the safety and operating instructions regarding your Sun Cobalt™ Control Station and retain for future reference.

1. Ventilation

The vents and fan openings on the Sun Cobalt Control Station protect it from overheating. These openings must not be blocked or covered. This product should not be placed in a built-in installation unless proper ventilation is provided.

2. Lithium Battery

The lithium battery on the system board provides power for the real-time clock and CMOS RAM. The battery has an estimated useful life expectancy of 5 to 10 years. If your system no longer keeps accurate time and date settings, it may be time to change the battery. Contact Sun Microsystems™ for service information.



Warning: There is a danger of explosion if the battery is incorrectly replaced or replaced with the wrong type of battery. Replace only with the same or equivalent type recommended by the equipment manufacturer. Dispose of used batteries according to manufacturer's instructions.



Avertissement : Il y a danger d'explosion s'il y a remplacement incorrect de la pile. Remplacer uniquement avec une pile du même type ou d'un type équivalent recommandé par le fabricant. Mettre au rebut les piles usagées conformément aux instructions du fabricant.



Achtung: Explosionsgefahr wenn die Batterie in umgekehrter Polarität eingesetzt wird. Nur mit einem gleichen oder ähnlichen, vom Hersteller empfohlenen Typ, ersetzen. Verbrauchte Batterien müssen gemäß den Anweisungen des Herstellers verwertet werden.

3. Power Cord



Caution: The power-supply cord is used as the main disconnect device. Ensure that the socket outlet is located or installed near the equipment and is easily accessible.



Attention : Le cordon d'alimentation sert d'interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et offrir un accès facile.



Achtung: Zur sicheren Trennung des Gerätes vom Netz ist der Netzstecker zu ziehen. Vergewissern Sie sich, dass die Steckdose leicht zugänglich ist.

4. Electrical Shock

To reduce the risk of electrical shock, do not disassemble this product. Take it to a qualified service person when service or repair work is required. Opening or removing covers may expose you to dangerous voltage or other risks. Incorrect reassembly can cause electric shock when this product is subsequently used.

5. Operating the unit in an equipment rack

If you plan to install the Sun Cobalt Control Station in an equipment rack, take the following precautions:

a. Ensure the ambient temperature around the Sun Cobalt Control Station (which may be higher than the room temperature) is within the specified limits. Refer to the PDF *Product Specifications*.

b. Ensure there is sufficient air flow around the unit.

c. Ensure electrical circuits are not overloaded; consider the nameplate ratings of all the connected equipment and ensure you have overcurrent protection.

d. Ensure the equipment is properly grounded, particularly any equipment connected to a power strip.

e. Do not place any objects on top of the Sun Cobalt Control Station.

6. Browsers

Both Netscape Navigator™ and Microsoft Internet Explorer can sometimes suffer unexplained failures. When using a Web browser to interact with your Sun Cobalt Control Station, you may occasionally experience a browser failure. Released product versions of the browsers are usually more reliable than beta versions and later versions typically work the most reliably. A browser program failure, although annoying, does not adversely affect the data on your Sun Cobalt Control Station.

To use the Sun Cobalt Control Station, you need a computer (attached to the network) that uses a Web browser (for example, Netscape Navigator, version 4.7 or later, or Microsoft Internet Explorer, version 5.0 or later). To manage the control station from the browser-based user interface (UI), known as the Server Desktop, you must enable cookies, cascading style sheets and JavaScript™ on your browser (these features are normally enabled by default).

Regulations and Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer can void the user's authority to operate this equipment.

This equipment is in compliance with Underwriters Laboratories (UL) and is UL-listed.

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Introduction

The Installation Guide takes you through the process of connecting and configuring the Sun Cobalt™ Control Station for your network. A typical setup process takes less than 15 minutes, after which you can begin using all of the services on the Sun Cobalt Control Station.

Requirements for the Sun Cobalt™ Control Station

To use the Sun Cobalt Control Station, you need:

- A 10/100BaseTX Transmission Control Protocol/Internet Protocol (TCP/IP) -based local area network (LAN).
- A personal computer (attached to the network) that uses a Web browser (for example, Netscape Navigator, version 4.7 or later, or Microsoft Internet Explorer, version 5.0 or later).

  To manage the Sun Cobalt Control Station from the browser-based user interface (UI), known as the Server Desktop, you must enable cookies, cascading style sheets and JavaScript™ on your browser (these features are normally enabled by default).
- Network parameters, which you can obtain from your network administrator; these include the Sun Cobalt Control Station's assigned IP address, the subnet mask of your network and, if communicating with other networks, a gateway or router address.

Documentation



You can access the user manuals in PDF format from the Server Desktop UI. If you have installed third-party software on the Sun Cobalt Control Station, the relevant documentation is also available.

To access the PDF file for a user manual, click on the help icon in the top right corner. A separate browser window opens displaying a list of PDF files available. Click the link for a PDF file; you can open the PDF file in the browser window or save it to your personal computer.

Installation

This chapter guides you through the process of connecting and configuring the Sun Cobalt™ Control Station for your network.

Installing the Sun Cobalt™ Control Station

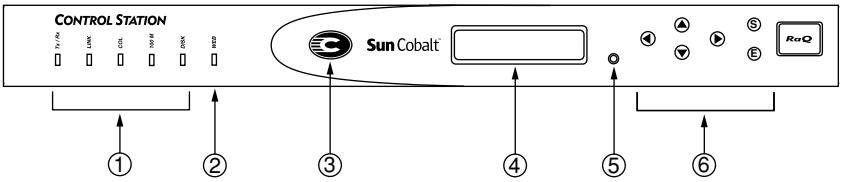
The installation process occurs in two phases.

- Chapter 2, “Installation”, explains the physical connection of the Sun Cobalt Control Station to a power source and the network.
- Chapter 3, “Setup Wizard”, explains the process of network integration through a browser-based Setup Wizard.

Figure 1 and Figure 2 show the controls, indicators and connectors on the Sun Cobalt Control Station.

Front view of the Sun Cobalt Control Station

Figure 1. Front view of the Sun Cobalt Control Station



1. The **Status Indicators** signal Ethernet and hard-disk-drive activity:

   Tx/Rx (Transmit/Receive) blinks when there is network traffic on the primary interface.

   Link indicates an active network connection on the primary interface.

   Col blinks when a collision is detected on the primary interface.

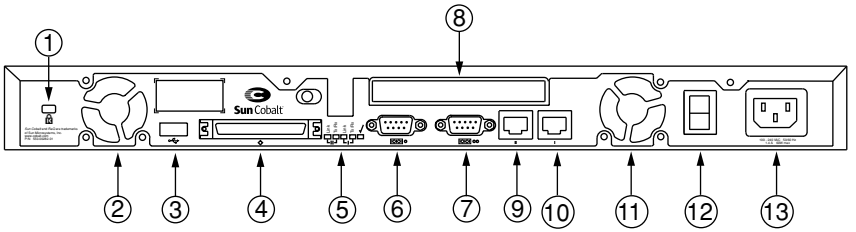
   100 M indicates that 100 BaseT ethernet is being used on the primary interface.

   Disk indicates activity on the hard disk drive.

2. The **Web** indicator blinks to indicate Web activity.
3. The **Logo Badge** glows when the Sun Cobalt Control Station is powered on.
4. The **LCD screen** displays messages and values entered. Use the arrow buttons to toggle between choices or to enter values.
5. You can use the recessed **Reset Password** button if you forget the password for the Sun Cobalt Control Station administrator.
6. The **LCD arrow buttons** allow you to enter network configuration information, configure a UPS unit, reboot the control station and power down the control station.

Rear view of the Sun Cobalt Control Station

Figure 2. Rear view of the Sun Cobalt Control Station



1. The **Security lock hole** is used to lock the unit to a secure location.
2. The **Cooling fans** maintain proper operating temperature. Ensure that the ventilation holes are not blocked.
3. The **USB port** provides a Universal Serial Bus (USB) connection.
4. The **SCSI connector** enables a Small Computer System Interface (SCSI) connection for connecting such devices as hard disk drives.
5. The **Network status indicators/OK to Power Off** signal network activity and information. The **OK to Power Off light** flashes when it is safe to turn the power off.
6. The **Serial console port** allows you to connect serial devices.
7. The **Serial connector** allows you to connect an uniterruptible power supply (UPS) to the serial port for Smart UPS support.
8. The **PCI expansion slot** provides space for adding a PCI card.

   The **Network connectors** enable ethernet network connections and accept the 10/100 BaseT network cables.
9. **Network connection 2**.
10. **Network connection 1**.
11. **Cooling fan**.
12. The **Power switch** toggles the power on or off.
13. The **Power socket** receives the AC cord that is provided.

Installing the Sun Cobalt Control Station

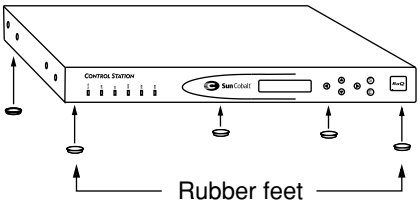
You can place the Sun Cobalt Control Station on a flat surface—for example, a desk, shelf or table top—or mount it in a standard 19-inch equipment rack.



Caution: If you operate the Sun Cobalt Control Station in an equipment rack, see the precautions described in "5. Operating the unit in an equipment rack" on page vi.

If you plan to use the control station on a flat surface, attach the rubber feet to the five indentations in the bottom of the case; see Figure 3.

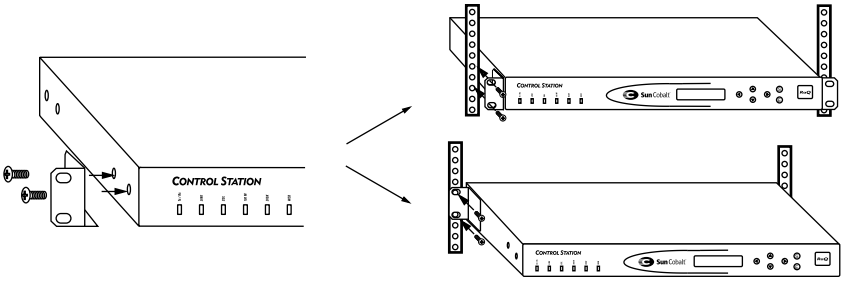
Figure 3. Rubber feet for the Sun Cobalt Control Station



If you plan to operate the control station in an equipment rack, you must first attach the mounting ears included with the server.

Attach the ears to the chassis with the screws included with the control station (see Figure 4), near either the front or the rear of the case. Now position the control station in the equipment rack and attach the ears securely to the rack.

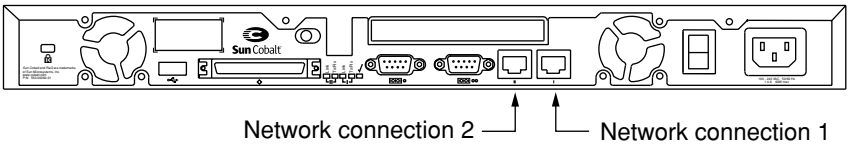
Figure 4. Mounting ears for the Sun Cobalt Control Station



Connecting to the network

Connect one end of a Category 5 Ethernet cable to the 10/100 BaseT Network 1 connector on the control station; see Figure 5. Connect the other end of the cable to an existing network socket.

Figure 5. Network connectors



Connecting the power cord

Connect the power supply cord to the Sun Cobalt Control Station and to an electrical outlet (100-240 volts AC, 50/60 Hz; refer to the PDF *Product Specifications*).

Powering on the Sun Cobalt Control Station

Turn on the power by pressing the **On/Off** switch on the back of the Sun Cobalt Control Station.

The hard disk drive spins up, the fan turns on, and the LCD screen lights up. The "C" logo scrolls across the screen.

A number of status messages are displayed on the LCD screen as the control station completes its boot process. When complete, the LCD screen displays

```
PRIMARY IP ADDR:
```



Caution: It is important to follow the proper power-down procedure before turning off the Sun Cobalt Control Station. See "Powering Down" in the PDF *Using the LCD Console*.

Configuring the Sun Cobalt Control Station for the network

Now that you have made the network and power connections, you can configure the network settings.

The Sun Cobalt Control Station requires specific network information to function properly. You must enter the necessary information using the LCD console on the front panel.

Before you proceed, make sure you have the following information:

- the IP address assigned to the Sun Cobalt Control Station by you network administrator
- the subnet mask of your network
- the gateway or router address (necessary only if communicating with other networks)

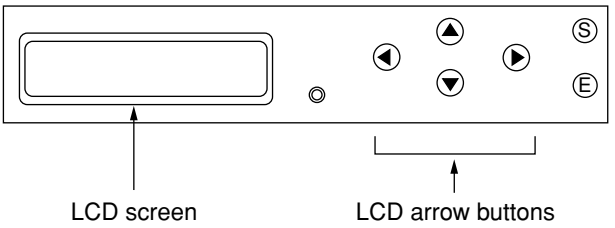
Using the LCD console to configure the network

Figure 6 shows the LCD console for the Sun Cobalt Control Station.

The LCD screen on the front of the control station displays two lines of text. The top line of the LCD presents instructions on data to enter; the bottom line displays the data already entered. Use the arrow buttons to the right of the LCD screen to enter the required network information manually.

For more information about the LCD console, refer to the PDF *Using the LCD Console*.

Figure 6. LCD console



During startup, the LCD screen displays status information about the boot process. When setting up the Sun Cobalt Control Station, you use the LCD console to enter network configuration information. Once the Sun Cobalt Control Station is running, the LCD console is used to change network configuration information, configure a UPS unit, reboot the control station and power down the control station.

The arrow buttons function as follows:


The **Left** arrow button moves the cursor to the left.


The **Right** arrow button moves the cursor to the right.


The **Up** arrow button increases the digit located at the cursor position.


The **Down** arrow button decreases the digit located at the cursor position.


The **S** button (“select”) displays the next option.


The **E** button (“enter”) accepts the information entered or the option displayed.

Setting the configuration



Important: In this phase, you configure only the primary network interface. To complete this phase, you must know:

- the IP address assigned to the control station
- the subnet mask of your network

During setup, the LCD console is used to enter network configuration information on the Sun Cobalt Control Station. The LCD display reads:

```
PRIMARY IP ADDR:
000.000.000.000
```

A blinking cursor appears on the second line of the LCD display. The following steps explain how to enter the required network information for the primary network interface. The secondary network interface is configured through the browser-based Server Desktop UI; see “TCP/IP” in the PDF *Administrator Manual*.

To configure the Sun Cobalt Control Station manually:

1. When you see the prompt

   ```
   ENTER IP ADDR:
   000.000.000.000
   ```

   use the arrow buttons on the LCD console to enter the IP address assigned to the control station.

2. Press the (E) button to accept the IP address.

   If the IP address is valid, the following prompt appears:

   ```
   PRIMARY NETMASK:
   255.000.000.000
   ```

3. Enter the netmask of your network.

4. Press the (E) button to accept the entry.

   If the netmask is valid, the following prompt appears:

   ```
   ENTER GATEWAY:
   000.000.000.000
   ```

5. Enter the IP address of the gateway for your network.

   If your network does not have a gateway, do not enter a number — leave the default value of "000.000.000.000".

6. Press the (E) button to accept the entry.

   The LCD displays:

   ```
   [S]AVE [C]ANCEL
   ```

7. To save the configuration information, use the left or right arrow button to select [S]ave, and then press the (E) button. It pauses for a moment and then you will see:

   ```
   VERIFYING AND SAVING
   ```



Note: Selecting [C]ancel cancels the configuration and the LCD screen displays `ENTER IP ADDR:` again. You must repeat the entry process.

After verifying and saving, the Sun Cobalt Control Station completes the boot process. The LCD screen shows several messages in succession before displaying the IP address assigned to the control station.

Configuration is complete when the LCD screen displays the IP address assigned to the Sun Cobalt Control Station, for example:

```
IP ADDRESS:
192.168.25.77
```

The remainder of the setup process is performed through a Web browser on a computer on your network. Proceed to Chapter 3, “Setup Wizard”.

Use one of the standard Web browsers such as Netscape Navigator™ (version 4.7 or later) or Microsoft Internet Explorer (version 5.0 or later) to do this. Once the setup process is complete, the Sun Cobalt Control Station can be managed from any computer on the network with a valid Web browser.

Setup Wizard

This chapter explains the network integration process through a browser-based Setup Wizard.

Caution: For important information on configuring an external firewall or the internal Basic Firewall, see "Basic Firewall" in Chapter 2 of the PDF *Administrator Manual* .

To configure the Sun Cobalt Control Station through the browser-based user interface (UI), known as the Server Desktop, follow these steps:

1. Launch a standard Web browser on a computer connected to the network.
2. Enter the IP address of the control station (displayed on the LCD screen of the control station) in the URL field of your browser, for example:

   Location: **http://192.168.25.77**

3. Press **Return** (or **Enter**) on your keyboard.

If you configured the network settings successfully, the Sun Cobalt Welcome screen appears; see Figure 7.

Figure 7. Welcome screen



Active Assist — Online Help

Active Assist provides real-time context-sensitive help on the Server Desktop UI. When you move the mouse pointer over a context-sensitive area of the screen, a description of the item appears at the bottom of the browser page.

Configuring the Sun Cobalt™ Control Station with the Setup Wizard

To configure the Sun Cobalt Control Station, enter information into the fields on the **Setup Wizard** screens. These fields are described in the sections that follow.

The Setup Wizard is a series of screens that guide you through the setup process. After completing each step, click on the right arrow at the bottom to apply the changes and move on to the next step. You can click on the left arrow to return to a previous screen.



The Sun Cobalt Control Station performs automatic checks on the information entered and alerts you when an illegal value or a problem is encountered. When the information is entered correctly at each stage, the control station enters the changes in its configuration files before proceeding to the next step. Changes may take several seconds to complete.

Click **Start** to begin the Setup Wizard.

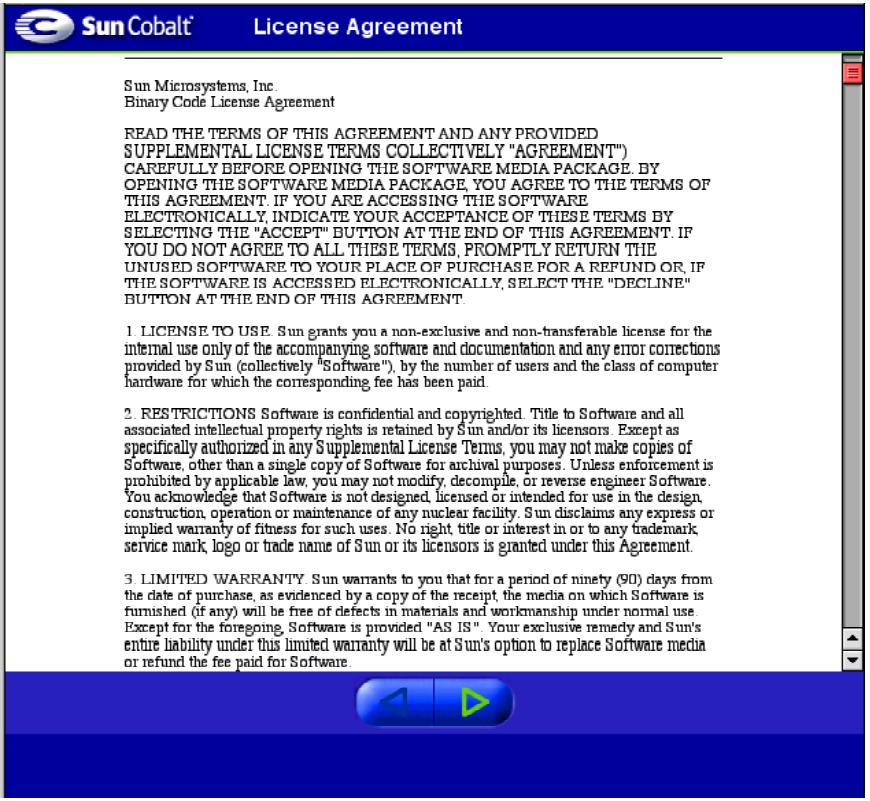
Binary Code License Agreement

You are presented with the Sun Cobalt Binary Code License Agreement.

By clicking the button below **Accept** on this screen, you acknowledge receipt of and agreement with the License Agreement shown in Figure 8.

Read through the License Agreement and, if you agree with its terms, click **Accept** at the end of the License Agreement to signify your agreement.

Figure 8. Binary Code License Agreement

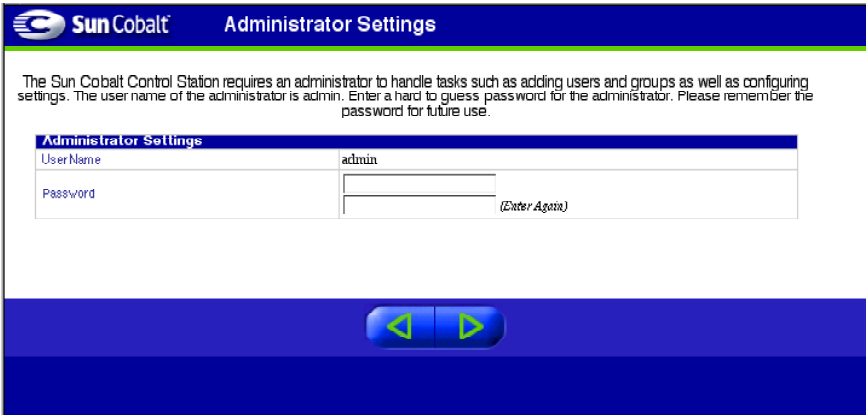


Administrator Settings

The **Administrator Settings** screen appears; see Figure 9. The Administrator of the Sun Cobalt Control Station is responsible for the following:

- Adding managed appliances and creating groups of managed server appliances
- Configuring and maintaining the services on the control station
- Managing server appliances through the control modules
- Responding to email alerts from the Sun Cobalt Control Station in order to forestall potential problems

Figure 9. Administrator Settings



To set up the Sun Cobalt Control Station for the Server Administrator, you must enter a **Password** in this field. For guidelines on choosing a password, see “Password guidelines” on page 19.

Be sure to remember the password to access the administration features on the Sun Cobalt Control Station.

Note: If you forget the administrator password for the Sun Cobalt Control Station and need to reset it, or if you want to modify the administrator password, see “Administrator” in the PDF *Administrator Manual*.

Click the right arrow at the bottom to move to the next screen.

Password guidelines

Use the following guidelines when choosing a password:

1. Use between three and sixteen alphanumeric characters.

   The valid characters include: a-z A-Z 0-9 % ! @ $ ^ & * - _ = \ | . , / ? ; : +

2. Use both upper- and lower-case letters.



Note: A password is case-sensitive.

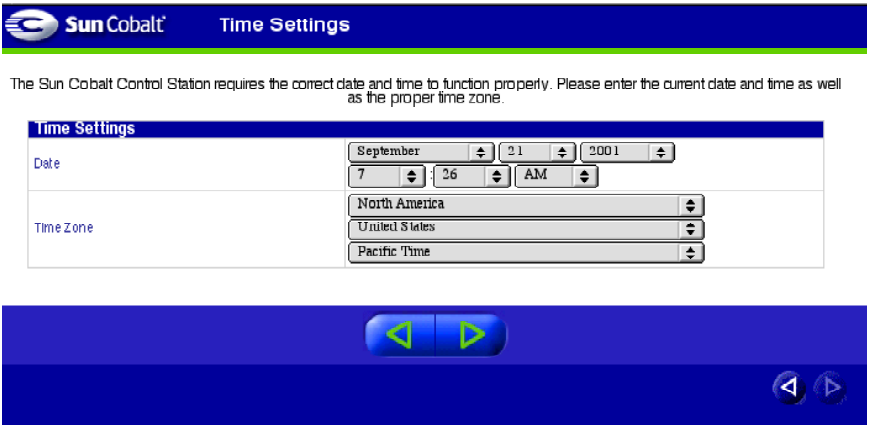
3. Do not use a proper name.
4. Do not use a word found in a dictionary.
5. Do not use a date.
6. Do not use a UNIX® command word.
7. Do not use a string of consecutive keys on a keyboard (for example, “qwerty”).

Time Settings

The **Time Settings** screen appears; see Figure 10. Use the pull-down menus to enter the current date, time and time zone on the Sun Cobalt Control Station.

Click the right arrow at the bottom to move to the next screen.

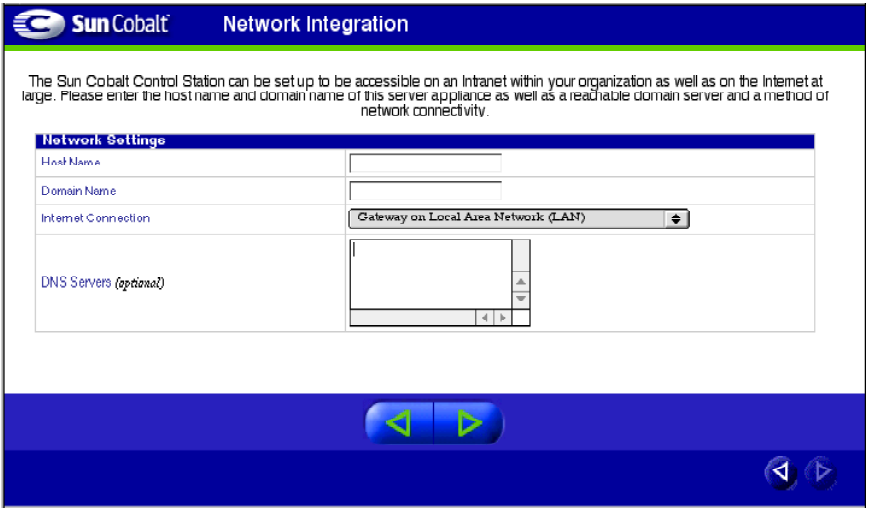
Figure 10. Time Settings



Network Integration

Figure 11 shows the **Network Integration** screen;

Figure 11. Network Integration



On this screen, you can configure the network settings:

- **Host Name.** Enter a host name for the Sun Cobalt Control Station. The host name and the domain name combined together should uniquely identify this server. Enter only lowercase alphanumeric characters, dashes or periods. For example, qube3 is a valid entry.
- **Domain Name.** Enter a domain name for the Sun Cobalt Control Station. The host name and the domain name combined together should uniquely identify this server. Enter only lowercase alphanumeric characters, dashes or periods. For example, sun.com is a valid entry.

  The domain name is either the official domain name that is registered with an ICANN-accredited registrar (for example, “sun.com”) or an intranet domain name specific to your network.

Coordinate the host name and domain name with your Internet service provider (ISP) to ensure the integrity of your network. If your Sun Cobalt Control Station is integrated into a larger network, consult with your network administrator for this information.

This allows you to access your Sun Cobalt Control Station by host name and domain name, rather than only by IP address.

- You can connect the Sun Cobalt Control Station to the Internet through a gateway on a local area network (LAN). For more information on this option, see "Gateway on a LAN" on page 23.

  If you do not know your network information or if you do not want to set up your connection yet, you can select "None or Intranet".

  If you select "None", you can set up your Internet connection in the Server Desktop UI once the Sun Cobalt Control Station is operating. See "Internet" in the PDF *Administrator Manual*.

- **DNS Servers**. Enter the IP address or addresses of your local Domain Name System (DNS) server or servers. A DNS server maintains a list of computer names and their IP addresses. The Sun Cobalt Control Station needs access to this list on the DNS server in order to convert between IP addresses and names.

  Enter a series of four numbers between 0 and 255 separated by periods. For example, 192.168.1.1 is a valid entry. Leaving this field empty will prevent this machine from finding other machines by hostname or domain name and will cause networking difficulties.



Note: Be sure to enter the IP address of your DNS server(s) here. Otherwise, the Simple Mail Transfer Protocol (SMTP) will not work. SMTP is used for transferring electronic mail messages.

Click the right arrow at the bottom to move to the next screen.

Gateway on a LAN

Complete this section only if you intend to connect the Sun Cobalt Control Station to the Internet through an existing gateway located on a local area network (LAN). This gateway may be connected to the outside world through a T1/E1 line or other type of leased line.

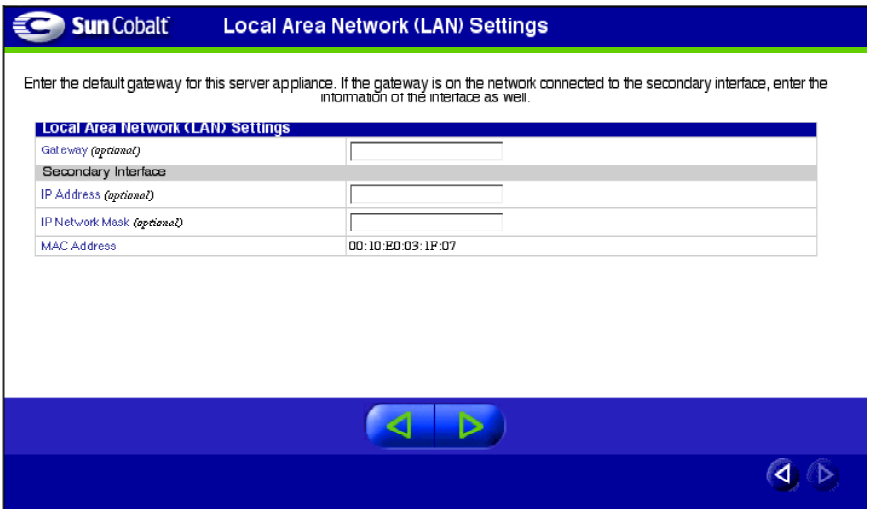
You need a network connection and the IP address for the gateway.

Note: If the gateway is on the secondary network interface, ensure that you connect the secondary network interface on the back of the Sun Cobalt Control Station to the network on which the gateway is located.

See Figure 5 on page 7.

Figure 12 shows the "Local Area Network Settings" table.

Figure 12. Internet Settings for Gateway on a LAN table



1. Configure the following settings:

   - **Gateway.** Enter the IP address of your local network gateway. A network gateway allows you to connect to the world outside of your LAN. Enter a series of four numbers between 0 and 255 separated by periods. For example, 192.168.1.254 is a valid entry. Leaving this field empty prevents this machine from communicating with other networks.
   - **IP Address.** Enter the IP address of the secondary interface. If you are using only one network interface connection to the server appliance, use the primary interface and leave the secondary interface empty. Enter a series of four numbers between 0 and 255 separated by periods. For example, 209.43.21.5 is a valid entry.
   - **IP Network Mask.** Enter the network mask of the secondary interface. If you are using only one network interface connection to the server, use the primary interface and leave the secondary interface empty. Enter a series of four numbers between 0 and 255 separated by periods. For example, 255.255.255.0 is a valid entry.



Note: If you configured the Sun Cobalt Control Station manually and want to use the control station as the Internet connection for your network, you must configure the clients on your network to use the IP address of the Sun Cobalt Control Station as their default gateway.

2. Click **Save**.

Product Registration

The **Product Registration** screen appears; see Figure 13. If you are connected to the Internet, you can register the Sun Cobalt Control Station by completing the online registration.

If you do not want to register online at this time, click the right arrow at the bottom to move to the next screen. A confirmation dialog confirms you do not want to register online.

If you are not connected to the Internet, you cannot register online and the **Registration** screen does not appear.

To register the control station online at a later time through the Server Desktop UI; see "Information" in the PDF *Administrator Manual*.

Enter your contact information in the fields. Click the right arrow at the bottom to submit your registration; a confirmation dialog states that your registration was sent.

Figure 13. Online Registration



Completing configuration with the Setup Wizard

If you completed the **Product Registration** screen, click the right arrow at the bottom.

Once the Sun Cobalt Control Station has been configured, the **Control Modules** screen appears; see Figure 14.

The buttons on the left side of Server Desktop UI provide access to the information and functions on this site. Move the mouse pointer over the menu buttons and a description of the Server Desktop UI feature appears in the help text frame at the bottom.

Figure 14. Control Modules screen



Documentation



You can access the user manuals in PDF format from the Server Desktop UI. If you have installed third-party software on the Sun Cobalt Control Station, the relevant documentation is also available.

To access the PDF file for a user manual, click on the help icon in the top right corner. A separate browser window opens displaying a list of PDF files available. Click the link for a PDF file; you can open the PDF file in the browser window or save it to your personal computer.