Sun Cobalt™ Control Station

Using the LCD Console



Copyright © 1997-2001 Sun Microsystems, Inc., 901 San Antonio Road, Palo Alto, California 94303-4900 U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in the product that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at `http://www.sun.com/patents` and one or more additional patents or pending patent applications in the U.S. and other countries.

This document and the product to which it pertains are distributed under licenses restricting their use, copying, distribution and decompilation. No part of the product or of this document may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any.

Third-party software, including font technology, is copyrighted and licensed from Sun suppliers.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and in other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, Java, JavaScript, JDK, Sun Cobalt, Sun Cobalt RaQ, Sun Cobalt CacheRaQ, Sun Cobalt Qube and the Sun Cobalt logo are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.

Netscape and Netscape Navigator are trademarks or registered trademarks of Netscape Communication Corporation in the United States and other countries.

Legato NetWorker is a registered trademark of Legato Systems, Inc. Linux is a trademark of Linus Torvalds.

Federal Acquisitions: Commercial Software -- Government Users Subject to Standard License Terms and Conditions.

DOCUMENTATION IS PROVIDED “AS IS” AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Copyright © 1997-2001 Sun Microsystems, Inc., 901 San Antonio Road, Palo Alto, Californie 94303-4900 États-Unis. Tous droits réservés.

Sun Microsystems, Inc. détient des droits de propriété intellectuelle sur la technologie réunie dans le produit qui est décrit par ce document. Ces droits de propriété intellectuelle peuvent s’appliquer en particulier, sans toutefois s’y limiter, à un ou plusieurs des brevets américains répertoriés à l’adresse `http://www.sun.com/patents` et à un ou plusieurs brevets supplémentaires ou brevets en instance aux Etats-Unis et dans d’autres pays.

Ce produit ou document est distribué avec des licences qui en restreignent l’utilisation, la copie, la distribution et la décompilation. Aucune partie de ce produit ou document ne peut être reproduite sous aucune forme, par quelque moyen que ce soit, sans l’autorisation préalable et écrite de Sun et de ses bailleurs de licence, s'il y en a.

Le logiciel détenu par des tiers, et qui comprend la technologie relative aux polices de caractères, est protégé par un copyright et licencié par des fournisseurs de Sun.

Des parties de ce produit pourront être dérivées des systèmes Berkeley BSD licenciés par l’Université de Californie. UNIX est une marque déposée aux Etats-Unis et dans d’autres pays et licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, le logo Sun, Java, JavaScript, JDK, Sun Cobalt, Sun Cobalt RaQ, Sun Cobalt CacheRaQ, Sun Cobalt Qube et le logo Sun Cobalt sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays.

Netscape et Netscape Navigator sont des marques de fabrique ou des marques déposées de Netscape Communication Corporation aux Etats-Unis et dans d'autres pays.

Legato NetWorker est une marque déposée de Legato Systems, Inc. Linux est une marque de fabrique de Linus Torvalds.

LA DOCUMENTATION EST FOURNIE "EN L'ETAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFAÇON.

Part Number / Numéro de pièce : 070-00358-01
Date : 11-2001

Using the LCD Console

During startup, the liquid-crystal-display (LCD) screen on the front panel of the Sun Cobalt™ Control Station 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 for the control station.

Once the Sun Cobalt Control Station is running, the LCD console serves several purposes. Through the LCD console, you can:

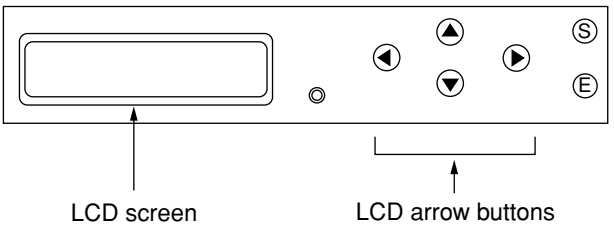
- change the network configuration information, which is useful if the location of the control station is changed
- configure the uninterruptible power supply (UPS)
- reboot, which restarts the entire Sun Cobalt Control Station
- power down in a way that allows the control station to close all open files, and minimizes startup time the next time the Sun Cobalt Control Station is powered on
- exit from the LCD commands without making any changes



Important: Before turning off the Sun Cobalt Control Station, follow the proper power-down procedure, as described in "Powering down" on page 8.

Figure 1 shows the LCD console.

Figure 1. LCD console



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.

Access to the functions

You access each of these functions by holding down the  (select) button on the LCD console for approximately two seconds. This action causes the LCD screen to enter its function mode. Press the  button until the function you want appears on the LCD screen. To cancel the LCD function mode, select the **EXIT** function when it appears on the screen. Press the  (enter) button and select **YES**.

Changing network configuration

To reset the IP address or change the network configuration of the Network 1 interface:

1. On the LCD console, hold down the (S) button for approximately 2 seconds.

   The LCD screen displays:

   ```
   SELECT:
   SETUP NETWORK
   ```

2. Press the (E) button.
3. Enter the IP address using the arrow buttons. The left and right arrow buttons move the cursor position to the left or right. The up and down arrow buttons increase or decrease the digit at the cursor position.
4. Press the (E) button.
5. Enter the Netmask using the arrow buttons.
6. Press the (E) button.
7. Enter the Gateway using the arrow buttons.
8. Press the (E) button.
9. Use the arrow buttons to toggle the cursor between [S]ave and [C]ancel.
10. Press the (E) button.

If you select the Save option, the Sun Cobalt Control Station saves the new network configuration and updates the display on the LCD screen. If you select Cancel, you return to Step 1 of this procedure.



Note: You can also change the network configuration of the Sun Cobalt Control Station through the Server Desktop UI. See "TCP/IP" in the PDF *Administrator Manual*.

If you change the network IP address of the control station through the Server Desktop UI, the control station saves the new network configuration and updates the display on the LCD screen when you click **Save Changes**.

Configuring an uninterruptible power supply (UPS)

The are two options for configuring the Sun Cobalt Control Station for a UPS: as the *master* or as a *slave*.

The *master* communicates directly to the UPS through the serial port. The *slave* (or *slaves*) communicates with a master (not a Sun Cobalt Control Station server) over the network to verify the status of the power supply.



Note: The Sun Cobalt Control Station server cannot act as a *master* for other machines. Allowing *slave* access by arbitrary machines would pose a security risk.

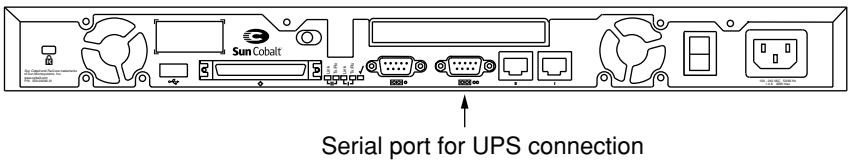
The distinction between *master* and *slave* is whether the Sun Cobalt Control Station is connected directly to the UPS (a *master*) or pointed to another machine that is connected to the UPS (a *slave*).

If you configure the Sun Cobalt Control Station as a *slave*, you must have, on the network, a machine acting as a UPS master that is configured to allow *slave* access for the IP address of your Sun Cobalt Control Station.

If you configure a Sun Cobalt Control Station as a *master*, the Sun Cobalt Control Station configures itself automatically. Before choosing this option, you must first connect the UPS to the Sun Cobalt Control Station through the serial port; see Figure 2 for the correct serial port.

If you configure a Sun Cobalt Control Station as a *slave*, the LCD screen prompts you for the IP address of the device that is configured as the master.

Figure 2. Serial port for UPS connection



To configure the Sun Cobalt Control Station for the UPS, first connect the UPS unit and the Sun Cobalt Control Station, and then configure the Sun Cobalt Control Station through the LCD panel. (Refer to the UPS manual for more information on connecting the devices.)

1. Plug the UPS into the wall socket.
2. Turn on the UPS.
3. Plug the Sun Cobalt Control Station servers into the UPS power sockets.
4. Connect the UPS serial cable to the UPS unit and the serial port on the Sun Cobalt Control Station that will serve as the master. See Figure 2.



Important: You must use the serial cable shipped with the UPS unit.

5. On the LCD console, hold down the (S) button for approximately 2 seconds.

   The LCD screen displays:

   ```
   SELECT:
   SETUP NETWORK
   ```

6. Press the (S) button until **Configure UPS** appears in the LCD screen:

   ```
   SELECT:
   CONFIGURE UPS
   ```

7. Press the (E) button.
8. Use the arrow buttons to toggle the cursor between [ ] On and [ ] Off. Select [ ] On.
9. Press the (E) button.
10. Use the arrow buttons to toggle the cursor between [M]aster and [S]lave.
11. Press the (E) button. If you choose [M]aster, the Sun Cobalt Control Station configures itself automatically for the UPS.

12. If you choose [S]lave, the LCD screen prompts you for the IP address of the device configured as the master.

    Enter the IP address using the arrow buttons. The left and right arrow buttons move the cursor position to the left or right. The up and down arrow buttons increase or decrease the digit at the cursor position.

13. Press the (E) button.

    The LCD screen returns to the host name and IP address. The LCD screen does NOT prompt you to save the changes.

Verifying the UPS configuration

To verify that you have configured the UPS correctly:

1. Unplug the UPS unit from the wall socket to simulate a power outage to the UPS.
2. The UPS takes over the power supply to the Sun Cobalt Control Station servers. Each of the Sun Cobalt Control Station servers monitoring the UPS displays on the LCD screen:

   ```
   UPS:
   ON BATTERY
   ```

3. Plug the UPS into the wall socket again. Each of the Sun Cobalt Control Station servers monitoring the UPS displays on the LCD screen:

   ```
   UPS:
   POWER RESTORED
   ```

   After a few seconds, the LCD screen returns to the normal LCD display of host name and IP address.

Rebooting

To reboot the Sun Cobalt Control Station through the LCD console:

1. On the LCD console, hold down the (S) button for approximately 2 seconds.

   The LCD screen displays:

   ```
   SELECT:
   SETUP NETWORK
   ```

2. Press the (S) button until **Reboot** appears in the LCD screen:

   ```
   SELECT:
   REBOOT
   ```

3. Press the (E) button.
4. Use the arrow buttons to toggle the cursor between [Y] and [N]. Select [Y] to reboot the system.
5. Press the (E) button.



Note: You can also reboot the Sun Cobalt Control Station through the Server Desktop UI. See “Power” in the PDF *Administrator Manual*.

Powering down



Caution: To prevent the potential loss of data, it is important to follow the proper power-down procedure before turning off the Sun Cobalt Control Station.

To power down the Sun Cobalt Control Station:

1. On the LCD console, hold down the (S) button for approximately 2 seconds.

   The LCD screen displays:

   ```
   SELECT:
   SETUP NETWORK
   ```

2. Press the (S) button until **Power down** appears in the LCD screen:

   ```
   SELECT:
   POWER DOWN
   ```

3. Press the (E) button.

4. Use the arrow buttons to toggle the cursor between [Y] and [N]. Select [Y] to power down the system.

   The **OK to Power Off** light on the back panel blinks. The LCD screen displays:

   ```
   PLEASE SWITCH
   POWER OFF NOW
   ```

5. Toggle the **On/Off** switch on the back panel to the **Off** position.