

Sun Cobalt™ Control Station

Performance Module



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Performance Module

The Performance control module on the Sun Cobalt™ Control Station allows you to view the performance of your managed servers according to various parameters. This document explains the features and services available through the Performance control module.

This module allows you to:

- view a summary of the performance data for a server or group of servers
- update the performance data for a server or group of servers



Note: In most of the short procedures in this chapter, the first step is to click the **Control Modules** tab in the top menu bar and the second step is to click on a selection from the left menu bar.

To reduce the number of steps in each procedure, the menu commands are grouped together and shown in **bold** type face. Right angle brackets separate the individual items.

For example, select **Control Modules > Performance > Summary** means to click the **Control Modules** tab in the top menu bar, click the **Performance** menu category in the left menu bar and finally click the **Summary** sub-menu item.

Progress bar

When you launch a task (for example, updating the performance information for a managed server), a “Task Progress” table appears in the Server Desktop user interface (UI). This table has a Status field indicating the current status of the task and a progress bar. When the progress bar displays 100%, the task has completed.

If you want to perform another task in the UI while the current task is underway, you can put the progress bar in the background. Simply click the button labelled **Put in background** below the progress bar.

To return to the progress bar, select **Administer > Tasks** on the left. The “Task” table appears. If the task is still underway, a status message is displayed in the “Duration” column. Click on the *progress-bar* icon in this column to re-display the progress bar for this task.

Once the task is complete and the progress bar displays 100%, two buttons appear below the “Task Progress” table: Done and View Events.

- To view the list of events associated to the task just completed, click **View Events**. The “Events for <task>” table appears.
- To return to the previous screen, click **Done** below the progress bar.

Schedule

The Schedule feature (also referred to as the Scheduler) allows you to schedule a task or tasks to be performed at a later time.

If a task can be scheduled by the Sun Cobalt Control Station, a button labelled **Schedule** appears in the table or selector window of the final step.

The Scheduler works in the same way for any operation:

1. Fill in the necessary fields for the operation.
2. Click **Schedule**. The “Schedule Settings for <task>” appears.
3. Configure the schedule settings.

For some functions, you can set the frequency of the operation with a pull-down menu above the table (for example, hourly or daily).

You can also enter an email address of the person who will be notified when the scheduled task begins or finishes, or both.

4. Click **Save**. The scheduled task then appears in the “Scheduled Tasks” table.

In this table, you can view details for, modify or delete a scheduled task.

Performance screen

When you click the **Performance** menu item on the left, the sub-menu items allow you to view a summary of the performance data for managed servers or update the performance data for the managed servers.

The sub-menu items are:

- Summary (see “Summary” on page 1-2)
- Update (see “Update” on page 1-5)

Selector window

For more information on how the selector window works, see “Selector window” in Chapter 3 of the PDF *Administrator Manual*.

Summary

The **Summary** sub-menu item displays the performance data for selected managed servers.

When you click on the **Summary** sub-menu item, the selector appears, displaying the groups and the servers within each group.

Viewing the performance data

To view a summary of the performance data for a managed server:

1. Select **Control Modules > Performance > Summary**. The selector appears, displaying the list of managed servers.
2. Click to highlight a server(s). You can also click **Select all** at the top to choose all servers in the list.
3. Click **View summary** in the bottom right corner. The “Managed Appliance Performance” table appears; see Figure 1.
4. This table contains the following columns:
 - **Host name:** host name of the managed server
 - **Class:** type of server
 - **Uptime:** the amount of time since the last reboot of the server, in days and hours
 - **Load:** the load average in the last minute
 - **Memory:** the percentage of RAM in use
 - **Swap:** the percentage of swap space in use
 - **Disk:** the percentage of space in use on the hard disk drive(s)
 - **Details.** Click to view more details about the server’s performance. A number of information tables appear. Figure 2 shows a sample table.

Figure 1 shows a sample of the “Managed Appliance Performance” table; Figure 2 shows a sample of the “Detailed Performance” tables.

Update button

When the “Managed Appliance Performance” table is on the screen, you can update the performance data for the server(s) displayed in the table by clicking the **Update now** button below the table. See Figure 1.

For more information on the Update function, see “Update” on page 1-5.

Figure 1. Managed Appliance Performance table

Managed Appliance Performance							4 Entries
Host Name ▼	Class ▼	Uptime ▼	Load ▼	Memory ▼	Swap ▼	Disk	Detail
10.9.32.136	RaQ 4	51 / 12	0.01	93%	0%	2%	
10.9.32.141	RaQ XTR	1 / 4	0.00	56%	0%	2%	
lease188	Qube 3J	5 / 3	0.37	82%	3%	6%	
lease226	Qube 3	49 / 21	0.03	91%	0%	4%	

[Update now](#)

Figure 2. Detailed Performance tables

lease226	
Last update	April 17 2002 11:32 AM

Appliance Details	
IP Address	10.9.23.226
Host name	lease226
Appliance class	Qube 3
Uptime	49 days, 21 hours and 0 minutes
Load Average	0.03

Memory Usage				2 Entries
Type ▼	In Use (MB) ▼	Free (MB) ▼	Usage Percentage ▼	
RAM	56	5	91%	
Swap	1	127	0%	

Filesystem Usage					3 Entries
Filesystem ▼	In Use (MB) ▼	Free (MB) ▼	Usage Percentage ▼	Mount Point ▼	
/dev/hda1	587	865	40%	/	
/dev/hda3	24	460	4%	/var	
/dev/hda4	12	12286	0%	/home	

[Back](#)

Update

The **Update** sub-menu item allows you to retrieve the most recent performance data from selected managed servers.

When you click on the **Update** sub-menu item, the selector appears, displaying the groups and the servers within each group.

Updating the performance data

To retrieve the most recent performance data from a managed server:

1. Select **Control Modules > Performance > Update**. The selector appears, displaying the list of managed servers.
2. Click to highlight an appliance(s). You can also click **Select all** at the top to choose all servers in the list.
3. Click **Update now** in the bottom right corner.

The “Task Progress” table appears. This table has a Status field indicating the current status of the Update operation and a progress bar. When the progress bar displays 100%, the performance information for the appliances has been updated. A green *checkmark* icon appears in the bottom left corner.

To view the list of events associated with updating the inventory information, click **View Events** below the progress bar. The “Events for <task>” table appears.

To view the updated performance information for the appliance(s), click **Done** below the progress bar. The “Managed Appliance Performance” table appears.



Note: You can also schedule the updating of the performance information for a later time. For more information, see “Scheduling the update of the performance information” on page 1-5.

Scheduling the update of the performance information

To schedule the update of the performance information for a later time:

1. Select **Control Modules > Performance > Update**. The selector window appears.
2. Select the appliances for which you want to update the performance information.
3. Click **Schedule** at the bottom of the table. The “Schedule Settings for Performance Update” table appears.
4. Above the table, select the Schedule type from the pull-down menu.

A particular table appears according to the type of schedule you select. A description of each screen follows this procedure.

5. Configure the settings in the table.
6. Click **Save** or **Cancel**.

If you click **Cancel**, the scheduled operation is not saved. The “Scheduled Tasks” table appears, but without the task you just cancelled.

If you click **Save**, the scheduled operation is added to the list of scheduled tasks. The “Scheduled Tasks” table appears with the new task.

Once

The table for a one-time only update is shown in Figure 3.

You can configure the following settings:

- **Run date.** Using the pull-down menus, enter the date on which you want the update operation to run.
- **Run time.** Using the pull-down menus, enter the time at which you want the update operation to run.
- **New appliances.** Enable this check box so that the update operation also runs on new appliances that you add to the control station after creating this performance-update schedule.
- **Email address.** (*optional*) Enter an email address of the person who will be notified when the operation runs.
- **Notify when starting.** Enable the check box to notify the person when the update operation is starting.
- **Notify when finished.** Enable the check box to notify the person when the update operation has completed.

Figure 3. One-time only update table

Schedule type :

Schedule Settings for Performance update	
Run date	<input type="text" value="April"/> <input type="text" value="29"/> <input type="text" value="2002"/>
Run time	<input type="text" value="6"/> : <input type="text" value="09"/> <input type="text" value="PM"/>
Appliances to operate on	
New appliances	<input type="checkbox"/>
Notification	
Email address (<i>optional</i>)	<input type="text"/>
Notify when starting	<input type="checkbox"/>
Notify when finished	<input type="checkbox"/>

Hourly

The table for an hourly update is shown in Figure 4.

You can configure the following settings:

- **Run interval.** Using the pull-down menu, select an interval (in hours) between the update operations.
- **Run minute(s).** Select the minute(s) after the hour to run the update operation. You can select as many different minutes as you want; you must add at least one value to the “Selected Minute(s)” scrolling box.

Highlight a particular minute and use the arrow buttons to move it between the scrolling boxes.

- **Hour range.** Using the pull-down menus, select the range of hours between which you want to run the update operation.

The default range is 12:00 a.m. to 11:00 p.m., which covers each hour of the day.

- **New appliances.** Enable this check box so that the update operation also runs on new appliances that you add to the control station after creating this performance-update schedule.
- **Email address.** (*optional*) Enter an email address of the person who will be notified when the operation runs.
- **Notify when starting.** Enable the check box to notify the person when the update operation is starting.
- **Notify when finished.** Enable the check box to notify the person when the update operation has completed.

Figure 4. Hourly update table

Schedule type : Hourly

Schedule Settings for Performance update															
Run interval	Every hour														
Run minute(s)	<table border="1"> <thead> <tr> <th>Selected minute(s)</th> <th>Not selected</th> </tr> </thead> <tbody> <tr> <td>Empty</td> <td>00</td> </tr> <tr> <td></td> <td>01</td> </tr> <tr> <td></td> <td>02</td> </tr> <tr> <td></td> <td>03</td> </tr> <tr> <td></td> <td>04</td> </tr> <tr> <td></td> <td>05</td> </tr> </tbody> </table>	Selected minute(s)	Not selected	Empty	00		01		02		03		04		05
Selected minute(s)	Not selected														
Empty	00														
	01														
	02														
	03														
	04														
	05														
Hour range	12 AM to 11 PM														
Appliances to operate on															
New appliances	<input type="checkbox"/>														
Notification															
Email address (<i>optional</i>)	<input type="text"/>														
Notify when starting	<input type="checkbox"/>														
Notify when finished	<input type="checkbox"/>														

Save Cancel

Daily

The table for a daily update is shown in Figure 5.

You can configure the following settings:

- **Run interval.** Using the pull-down menu, select an interval (in days) between the update operations.
- **Run hour(s).** Select the hour(s) of the day to run the update operation. You can select as many different hours as you want; you must add at least one value to the “Selected Hour(s)” scrolling box.

Highlight a particular hour and use the arrow buttons to move it between the scrolling boxes.

- **Run minute.** Using the pull-down menu, select the minute after the hour to run the update operation.
- **New appliances.** Enable this check box so that the update operation also runs on new appliances that you add to the control station after creating this performance-update schedule.
- **Email address.** (*optional*) Enter an email address of the person who will be notified when the operation runs.
- **Notify when starting.** Enable the check box to notify the person when the update operation is starting.
- **Notify when finished.** Enable the check box to notify the person when the update operation has completed.

Figure 5. Daily update table

Schedule type : Daily

Schedule Settings for Performance update	
Interval	Every day
Run hour(s)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Selected hour(s)</p> <div style="border: 1px solid black; padding: 5px; min-height: 40px;">Empty</div> </div> <div style="width: 10%; text-align: center;"> ← → </div> <div style="width: 45%;"> <p style="text-align: center;">Not selected</p> <div style="border: 1px solid black; padding: 5px;"> <p>1 AM</p> <p>2 AM</p> <p>3 AM</p> <p>4 AM</p> <p>5 AM</p> <p>6 AM</p> </div> </div> </div>
Run minute	00
Appliances to operate on	
New appliances	<input type="checkbox"/>
Notification	
Email address (<i>optional</i>)	<input style="width: 100%;" type="text"/>
Notify when starting	<input type="checkbox"/>
Notify when finished	<input type="checkbox"/>

Save
Cancel

Weekly

The table for a weekly update is shown in Figure 6.

You can configure the following settings:

- **Weekdays.** Enable the check box(es) to select the day of the week on which you want to run the update operation.
- **Run time.** Using the pull-down menus, select the hour and minute of the day that you want to run the update operation.
- **New appliances.** Enable this check box so that the update operation also runs on new appliances that you add to the control station after creating this performance-update schedule.
- **Email address.** (*optional*) Enter an email address of the person who will be notified when the operation runs.
- **Notify when starting.** Enable the check box to notify the person when the update operation is starting.
- **Notify when finished.** Enable the check box to notify the person when the update operation has completed.

Figure 6. Weekly update table

Schedule type :

Schedule Settings for Performance update	
Weekdays	<input type="checkbox"/> Sunday <input type="checkbox"/> Monday <input type="checkbox"/> Tuesday <input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday <input type="checkbox"/> Saturday
Run time	<input type="text" value="12"/> : <input type="text" value="00"/> <input type="text" value="AM"/>
Appliances to operate on	
New appliances	<input type="checkbox"/>
Notification	
Email address (<i>optional</i>)	<input type="text"/>
Notify when starting	<input type="checkbox"/>
Notify when finished	<input type="checkbox"/>

Monthly

The table for a monthly update is shown in Figure 7.

You can configure the following settings:

- **Day(s) of the month.** Select the day(s) of the month to run the update operation. You can select as many different days as you want; you must add at least one value to the “Selected Day(s)” scrolling box.
Highlight a particular day and use the arrow buttons to move it between the scrolling boxes.
- **Run time.** Using the pull-down menus, select the hour and minute of the day that you want to run the update operation.
- **New appliances.** Enable this check box so that the update operation also runs on new appliances that you add to the control station after creating this performance-update schedule.
- **Email address.** (optional) Enter an email address of the person who will be notified when the operation runs.
- **Notify when starting.** Enable the check box to notify the person when the update operation is starting.
- **Notify when finished.** Enable the check box to notify the person when the update operation has completed.

Figure 7. Monthly update table

Schedule type : Monthly

Schedule Settings for Performance update					
Day(s) of the month	<table border="1"> <thead> <tr> <th>Selected day(s)</th> <th>Not selected</th> </tr> </thead> <tbody> <tr> <td>Empty</td> <td>1 2 3 4 5 6</td> </tr> </tbody> </table>	Selected day(s)	Not selected	Empty	1 2 3 4 5 6
Selected day(s)	Not selected				
Empty	1 2 3 4 5 6				
Run time	12 : 00 AM				
Appliances to operate on					
New appliances	<input type="checkbox"/>				
Notification					
Email address (optional)	<input type="text"/>				
Notify when starting	<input type="checkbox"/>				
Notify when finished	<input type="checkbox"/>				

Save Cancel