



## CHAPTER 3

# Monitoring Predefined Objects

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RTMT provides a set of default monitoring objects that assist you in monitoring the health of the system. Default objects include performance counters or critical event status for the system and other supported services.

This chapter contains information on the following topics:

- [Viewing the System Summary, page 3-1](#)
- [Monitoring Server Status, page 3-1](#)
- [Viewing/Monitoring Predefined System Objects, page 3-3](#)

## Viewing the System Summary

The system summary in RTMT allows you to monitor important common information in a single monitoring pane. In system summary, you can view information on the following predefined object:

- Virtual Memory usage
- CPU usage
- Common Partition Usage
- Alert History Log

### Additional Information

See the “[Related Topics](#)” section on page 3-7.

## Monitoring Server Status

### January 7, 2008

The Servers category monitors CPU and memory usage, processes, disk space usage, and critical services for the different applications on the server.

The CPU and Memory monitor provide information about the CPU usage and Virtual memory usage on each server. For each CPU on a server, the information includes the percentage of time that each processor spends executing processes in different modes and operations (User, Nice, System, Idle, IRQ, SoftIRQ, and IOWait). The percentage of CPU equals the total time that is spent executing in all the different modes and operations excluding the Idle time. For memory, the information includes the Total, Used, Free, Shared, Buffers, Cached, Total Swap, Used Swap, and Free Swap memory in Kbytes, and the percentage of Virtual Memory in Use.

The Processes monitor provides information about the processes that are running on the system. RTMT displays the following information for each process—process ID (PID), CPU percentage, Status, Shared Memory (KB), Nice (level), VmRSS (KB), VmSize (KB), VmData (KB), Thread Count, Page Fault Count, and Data Stack Size (KB).

The disk usage monitoring category charts the percentage of disk usage for the common and swap partitions. It also displays the percentage of disk usage for each partition (Active, Boot, Common, Inactive, Swap, SharedMemory) in each host.

For Cisco Unity Connection 6.0, the Critical Services monitoring category provides the name of the critical service, the status (whether the service is up, down, or not activated), and the elapsed time during which the services are up and running on the system.

For Cisco Unity Connection 6.1, the Critical Services monitoring category provides the name of the critical service, the status (whether the service is up, down, activated, stopped by the administrator, starting, stopping, or in an unknown state), and the elapsed time during which the services are up and running on the system. For a specific description of each state, see [Table 3-1](#).

**Table 3-1** Status of Critical Services

Status of Critical Service	Description
starting	The service currently exists in start mode, as indicated in the Critical Services pane and in Control Center in Cisco Unified Serviceability
up	The service currently runs, as indicated in the Critical Services pane and in Control Center in Cisco Unified Serviceability.
stopping	The service currently remains stopped, as indicated in the Critical Services pane and in Control Center in Cisco Unified Serviceability.
down	The service stopped running unexpectedly; that is, you did not perform a task that stopped the service. The Critical Services pane indicates that the service is down. The CriticalServiceDown alert gets generated when the service status equals down.
stopped by Admin	You performed a task that intentionally stopped the service; for example, the service stopped because you backed up or restored Cisco Unified CallManager, performed an upgrade, stopped the service in Cisco Unified Serviceability or the Command Line Interface (CLI), and so on. The Critical Services pane indicates the status.
not activated	The service does not exist in a currently activated status, as indicated in the Critical Services pane and in Service Activation in Cisco Unified Serviceability.
unknown state	The system cannot determine the state of the service, as indicated in the Critical Services pane.

#### Additional Information

See the “[Related Topics](#)” section on page 3-7.

# Viewing/Monitoring Predefined System Objects

**January 7, 2008**

RTMT displays information on predefined system objects in the monitoring pane when you select System in the quick launch channel.

[Table 3-2](#) provides information on the predefined object that RTMT monitors.



**Tip**

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To zoom in on the monitor of a predefined object, click and drag the left mouse button over the area of the chart in which you are interested. Release the left mouse button when you have the selected area. RTMT updates the monitored view. To zoom out and reset the monitor to the initial default view, press the “**R**” key.

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**Table 3-2**      **System Categories**

<b>Category</b>	<b>Description</b>
System Summary	Displays information on Virtual Memory usage, CPU usage, Common Partition Usage, and the alert history log.  To display information on predefined system objects, choose <b>System &gt; System Summary</b> .

Table 3-2 System Categories

Category	Description
Server	<ul style="list-style-type: none"> <li data-bbox="396 317 1427 485"> <p>• CPU and Memory—Displays information on CPU usage and Virtual memory usage for the server.</p> <p>To display information on CPU and Virtual memory usage, choose <b>System &gt; Server &gt; CPU and Memory</b>. To monitor CPU and memory usage for specific server, choose the server from the host drop-down list box.</p> </li> <li data-bbox="396 506 1427 642"> <p>• Process—Displays information on the processes that are running on the server.</p> <p>To display information on processes running on the system, choose <b>System &gt; Server &gt; Process</b>. To monitor process usage for specific server, choose the server from the Host drop-down list box.</p> </li> <li data-bbox="396 663 1427 789"> <p>• Disk Usage—Displays information on disk usage on the server.</p> <p>To display information on disk usage on the system, choose <b>System &gt; Server &gt; Disk Usage</b>. To monitor disk usage for specific server, choose the server from the host drop-down list box.</p> </li> <li data-bbox="396 810 1427 1472"> <p>• (Cisco Unity Connection 6.0) Critical Services—Displays information on the status of services that are running on the server.</p> <p>To display information on critical services, choose <b>System &gt; Server &gt; Critical Services</b>. To display system critical services, click on the system tab.</p> <ul style="list-style-type: none"> <li data-bbox="444 957 1427 1020">– To display Cisco Unity Connection critical services, click the Cisco Unity Connection tab.</li> <li data-bbox="444 1041 1427 1104">– To monitor critical services for specific server, choose the server from the host drop-down list box and click the critical services tab in which you are interested.</li> </ul> <p>• (Cisco Unity Connection 6.1) Critical Services—Displays the name of the critical service, the status (whether the service is up, down, activated, stopped by the administrator, starting, stopping, or in an unknown state), and the elapsed time during which the services have existed in a particular state.</p> <p>To display information on critical services, choose <b>System &gt; Server &gt; Critical Services</b>. To display system critical services, click on the system tab.</p> <ul style="list-style-type: none"> <li data-bbox="444 1335 1427 1398">– To display Cisco Unity Connection critical services, click the Cisco Unity Connection tab.</li> <li data-bbox="444 1419 1427 1472">– To monitor critical services for specific server, choose the server from the host drop-down list box and click the critical services tab in which you are interested.</li> </ul> </li> </ul> <p data-bbox="428 1493 1427 1640">If the critical service status indicates that the administrator stopped the service, the administrator performed a task that intentionally stopped the service; for example, the service stopped because the administrator backed up or restored Cisco Unified Communications Manager, performed an upgrade, stopped the service in Cisco Unified Serviceability or the Command Line Interface (CLI), and so on.</p> <p data-bbox="428 1661 1427 1724">If the critical service status displays as unknown state, the system cannot determine the state of the service.</p> <p data-bbox="428 1745 1427 1799">For more information on the critical service states, refer to <a href="#">Monitoring Server Status, page 3-1</a>.</p>

**Additional Information**

See the “Related Topics” section on page 3-7.

## Related Topics

- [Viewing the System Summary, page 3-1](#)
- [Monitoring Server Status, page 3-1](#)
- [Viewing/Monitoring Predefined System Objects, page 3-3](#)

