

# Operating System, Disk Usage Too High

## Ericsson Centralized User Database

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### OPERATING INSTRUCTION

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# 1 Introduction

This instruction concerns alarm handling for the Operating System, Disk Usage Too High alarm.

## 1.1 Alarm Description

This alarm is raised when a data disk partition in a physical blade or Virtual Machine (VM) has reached its capacity limit (90%) or the partition is not mounted. The alarm is cleared when the capacity is below the warning level (85%).

The possible alarm causes and the corresponding fault reasons, fault locations, and impacts are described in Table 1.

*Table 1 Alarm Causes*

Alarm Cause	Description	Fault Reason	Fault Location	Impact
Data disk partition reached capacity limit.	A data disk partition in a physical blade or VM has reached its capacity limit (90% of its total capacity).	<ul style="list-style-type: none"> <li>Too much data is stored in the partition.</li> <li>The partition is not mounted.</li> </ul>	Blade or VM.	No free space available on affected data disk partition.

The alarm attributes are listed and explained in Table 2.

*Table 2 Alarm Attributes*

Attribute Name	Attribute Value
Auto Cease	Yes
Module	OPERATING-SYSTEM
Error Code	2
Timestamp First	Date and time when the alarm was raised for the first time.
Repeated Counter	Number which indicates how many times the alarm was raised.
Timestamp Last	Date and time of the most recent alarm raise.
Resource ID	.1.3.6.1.4.1.193.169.5.2.<IP>.<m>
Alarm Model Description	Disk usage too high, Operating System.
Alarm Active Description	Operating System: disk 90% full or not mounted @<IP> in partition <MP>, uuid: <uuid>
ITU Alarm Event Type	processingErrorAlarm (4)
ITU Alarm Probable Cause	storageCapacityProblem (151)



Attribute Name	Attribute Value
ITU Alarm Perceived Severity	(3) - Critical
Originating source IP	Node IP where the alarm was raised.
Sequence Number	Number which indicates the order in which the alarms are raised.

In Table 2, the indicated variables are as follows:

- *<IP>* is the IP address of the faulty node.
- *<MP>* is the mount point of the affected partition.
- *<m>* is a number to identify the information per machine typed as follows:

Control Machine:

- 1 - **/boot**
- 2 - **/var/log**
- 3 - **/cluster**
- 4 - **/**

Payload Machine:

- 1 - **/local**
- 2 - **/local2**
- 3 - **/**

- *<uuid>* is the universally unique identifier of the computing resource (blade or VM). It is blank if it is not possible to figure out its value.

For further information about attribute descriptions refer to *CUDB Node Fault Management Configuration Guide*, Reference [1].

## 1.2 Prerequisites

This section lists the prerequisites required for the procedure described in Section 2 on page 5.

### 1.2.1 Documents

Before starting this procedure, ensure that you have read the following documents:

- *CUDB Node Fault Management Configuration Guide*, Reference [1], regarding alarm configuration.



- *System Safety Information*, Reference [3].
- *Personal Health and Safety Information*, Reference [4].

### **1.2.2 Tools**

Not applicable.

### **1.2.3 Conditions**

Not applicable.



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## 2 Procedure

In case the alarm is raised, do the following:

1. Check if the partition (indicated by *<MP>*) is properly mounted in the blade or VM identified by the *<IP>* address. If it is not mounted, reboot the blade or VM. Then, continue as follows:
  - If the partition has been mounted, continue with Step 2.
  - If the partition is still unmounted, and the problem still persists, continue with Step 3.
2. Check if it is possible to delete data not belonging to CUDB from the blade or VM identified by the *<IP>* address in partition *<MP>*, to free space.
3. Confirm that the alarm has ceased. If the alarm remains, consult the next level of maintenance support. Further actions are outside the scope of this instruction.



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## Glossary

For the terms, definitions, acronyms and abbreviations used in this document, refer to *CUDB Glossary of Terms and Acronyms*, Reference [2].



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## Reference List

### **CUDB Documents**

- [1] *CUDB Node Fault Management Configuration Guide*
- [2] *CUDB Glossary of Terms and Acronyms*

### **Other Ericsson Documents**

- [3] *System Safety Information*
- [4] *Personal Health and Safety Information*