

# SAF, LOTC Memory Usage Failed

Ericsson Centralized User Database

OPERATING INSTRUCTION

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# 1 Introduction

This instruction concerns alarm handling for the SAF, LOTC Memory Usage Failed alarm.

## 1.1 Alarm Description

This alarm is related to Service Availability Forum (SAF).

The alarm is issued when the memory usage exceeds a defined threshold. The threshold level is configured to 90% for the System Controllers (SCs), and 93% for the payload blades or Virtual Machines (VMs).

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
Memory occupation is above 90% on an SC.	Overload on an SC.	Heavy memory consumption processes running on an SC.	SC	Risk of service degradation or SC restart.
	Memory leak on an SC.	A process could be leaking memory resources on an SC.	SC	
Memory occupation is above 93% on a payload blade or VM.	Overload on a payload blade or VM.	Heavy memory consumption processes running on a payload blade or VM.	Payload blade or VM	Risk of service degradation or payload blade or VM restart.
	Memory leak on a payload blade or VM.	A process could be leaking memory resources on a payload blade or VM.	Payload blade or VM	

The alarm attributes are listed and explained in Table 2:

Table 2 Alarm Attributes

Attribute Name	Attribute Value
Auto Cease	Yes
Module	SAF
Error Code	8
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 raised.
Resource ID	.1.3.6.1.4.1.193.169.9.8.length.<NOI>



Attribute Name	Attribute Value
Alarm Model Description	LOTc memory usage, SAF
Alarm Active Description	SAF platform: LOTc memory usage @<NON>
ITU Alarm Event Type	processingErrorAlarm (4)
ITU Alarm Probable Cause	outOfMemory (162)
ITU Alarm Perceived Severity	(4) – Major
Originating Source IP	Node where the alarm was raised.
Sequence Number	Number which indicates the order in which alarms were raised.

In Table 2, the indicated variables are as follows:

- <NON> is the notifying object name that indicates where the component that generates the alarm is. For example:

safNode=PL\_2\_3

- <NOI> is the notifying object identifier. It corresponds to <NON> in a dot-separated, ASCII-decimal-encoded, character-per-character format. For example:

80.76.95.50.95.51 for PL\_2\_3

- <length> is the number of characters in <NON>, which is equivalent to the number of octets in <NOI>. In the previous example, <length> is 6.

For further information about attribute descriptions, refer to [CUDb Node Fault Management Configuration Guide, Reference \[1\]](#).

## 1.2 Prerequisites

This section provides information on the documents, tools, and conditions that apply to the procedure.

### 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 \[2\]](#)
- [Personal Health and Safety Information, Reference \[3\]](#)

**1.2.2****Tools**

Not applicable.

**1.2.3****Conditions**

Not applicable.



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## 2 Procedure

If the alarm is raised, do the following:

1. Check if any extraordinary process is running that could generate extra memory usage.
2. If the alarm does not cease, consult the next level of maintenance support. Further actions are outside the scope of this Operating Instruction.



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## Reference List

### **CUDB Documents**

- [1] CUDB Node Fault Management Configuration Guide

### **Other Ericsson Documents**

- [2] System Safety Information
- [3] Personal Health and Safety Information