

Licensing, Capacity Usage Threshold Reached, Warning

Ericsson Centralized User Database

OPERATING INSTRUCTION

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Licensing, Capacity Usage Threshold Reached, Warning



1 Introduction

This instruction concerns alarm handling for the Licensing, Capacity Usage Threshold Reached, Warning alarm.

1.1 Alarm Description

This alarm is raised when the number of reserved capacity in a capacity license approaches the Warning threshold. The default value of the Warning threshold is 80% of the `licensedCapacityLimit` parameter.

The alarm is issued in the following situations:

- The capacity usage has reached the Warning threshold for the active HLR Profile.
- The capacity usage has reached the Warning threshold for the active HSS-IMS Profile.
- The capacity usage has reached the Warning threshold for the active HSS-EPC Profile.
- The capacity usage has reached the Warning threshold for the active AUC Profile.
- The capacity usage has reached the Warning threshold for the Small Generic Profile.
- The capacity usage has reached the Warning threshold for the Medium Generic Profile.
- The capacity usage has reached the Warning threshold for the Large Generic Profile.
- The capacity usage has reached the Warning threshold for the active IoT Profile.
- The capacity usage has reached the Warning threshold for the active HSS-EPC 5G Profile.

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 |
|--|--|--|-----------------|--|
| The Warning threshold of the capacity profile has been passed. | The capacity usage threshold has been reached. | The requested capacity has passed the Warning threshold defined in the capacity license. | License Manager | Potential violation of license agreements, if the number of reserved capacity continues to increase and reaches the limit. |

The alarm attributes are listed and explained in Table 2.

Table 2 Alarm Attributes

| Attribute Name | Attribute Value |
|------------------------------|--|
| Auto Cease | Yes |
| Module | LICENSING |
| Error Code | 5 |
| 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 | 1.3.6.1.4.1.193.169.14.2.3.<# SUB_LICENSE_SUFFIX> |
| Alarm Model Description | License Management, Licensing |
| Alarm Active Description | Capacity Usage Threshold Reached for <#LICENSE_TYPE>, Warning |
| ITU Alarm Event Type | qualityOfServiceAlarm (3) |
| ITU Alarm Probable Cause | thresholdCrossed (549) |
| ITU Alarm Perceived Severity | (6) – Warning |
| Originating source IP | Node IP where the alarm was raised. |
| Sequence Number | Number which indicates the order in which the alarms are raised. |

The available values of the <#SUB_LICENSE_SUFFIX> and <#LICENSE_TYPE> variables shown in Table 2 are listed below. The list follows the below format: "<#SUB_LICENSE_SUFFIX>" for the <#LICENSE_TYPE>.

- “2” for the HLR Profile.
- “3” for the HSS-IMS Profile.
- “4” for the HSS-EPC Profile.
- “5” for the AUC Profile.
- “6” for the Small Generic Profile.
- “7” for the Medium Generic Profile.
- “8” for the Large Generic Profile.



- “9” for the IoT Profile.
- “10” for the HSS-EPC 5G Profile.

For further information about attribute descriptions, refer to the Alarm Format and Description section of 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]
- System Safety Information, Reference [4]
- Personal Health and Safety Information, Reference [5]

1.2.2 Tools

Not applicable.

1.2.3 Conditions

Not applicable.



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2 Procedure

If the alarm is raised, then refer to the [License Management, Capacity Usage Threshold Reached, Reference \[3\]](#) document for the procedure to perform.

Note: Perform only the actions that are applicable for LM deployments using ELIM license key files. The applicable severity is “Warning”.



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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] License Management, Capacity Usage Threshold Reached
- [4] System Safety Information
- [5] Personal Health and Safety Information