

Licensing, License Key Not Available, Major Ericsson Centralized User Database

OPERATING INSTRUCTION

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Licensing, License Key Not Available, Major



1 Introduction

This instruction concerns alarm handling for the Licensing, License Key Not Available, Major alarm.

1.1 Alarm Description

This alarm is raised in case a feature or capacity license is requested to be used in the CUDB system, but the license is either not present in the corresponding license key file, or has expired.

The alarm is issued in the following situations:

- The Advanced Network Protection license is not found.
- The Deployment Flexibility license is not found.
- The Application Facilitator license is not found.
- The Payload Blades / Virtual Machines license is not found.
- The HLR Profile license is not found.
- The HSS-IMS Profile license is not found.
- The HSS-EPC Profile license is not found.
- The AUC Profile license is not found.
- The Small Generic Profile license is not found.
- The Medium Generic Profile license is not found.
- The Large Generic Profile license is not found.
- None of the following licenses is found:
 - CUDB Customer Commercial.
 - CUDB Customer Test Lab.
 - CUDB Ericsson Internal.
 - CUDB Customer Trial.
- The CUDB Customer Trial license has expired.
- The IoT Profile license is not found.
- The HSS-EPC 5G Profile license is not found.



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
CUDB cannot find the license for the Advanced Network Protection Value Package.	The Advanced Network Protection license is not found.	The Triple Geographical Redundancy function is requested to be configured on the node, but the Advanced Network Protection license is not found.	License Manager	The configuration of Triple Geographical Redundancy will not be allowed on the node.
CUDB cannot find the license for the Deployment Flexibility Value Package.	The Deployment Flexibility license is not found.	The Multiple Geographical Areas function is requested to be configured on the node, but the Deployment Flexibility license is not found.	License Manager	The configuration of Multiple Geographical Areas will not be allowed on the node.
CUDB cannot find the license for the Application Facilitator Value Package.	The Applications Facilitator license is not found.	The LDAP Data Views function is requested to be configured on the node, but the Application Facilitator license is not found.	License Manager	The configuration of LDAP Data Views will not be allowed on the node.
CUDB cannot find the license for Payload Blades / Virtual Machines in the deployment.	The Payload Blades / Virtual Machines capacity license is not found.	The node is being installed or expanded, and the Payload Blades / Virtual Machines capacity license is not found.	License Manager	Node will not be installed or expanded.
The HLR Profile license is not found.	The HLR Profile license is not found.	HLR profile(s) have been defined, but no HLR Profile license is found.	License Manager	Violation of license agreements.
The HSS-IMS Profile license is not found.	The HSS-IMS Profile license is not found.	HSS-IMS profile(s) have been defined, but no HSS-IMS Profile license is found.	License Manager	Violation of license agreements.
The HSS-EPC Profile license is not found.	The HSS-EPC Profile license is not found.	HSS-EPC profile(s) have been defined, but no HSS-EPC Profile license is found.	License Manager	Violation of license agreements.
The AUC Profile license is not found.	The AUC Profile license is not found.	AUC profile(s) have been defined, but no AUC Profile license is found.	License Manager	Violation of license agreements.



Alarm Cause	Description	Fault Reason	Fault Location	Impact
The Small Generic Profile license is not found.	The Small Generic Profile license is not found.	Small Generic Profile(s) have been defined, but no Small Generic Profile license is found.	License Manager	Violation of license agreements.
The Medium Generic Profile license is not found.	The Medium Generic Profile license is not found.	Medium Generic Profile(s) have been defined, but no Medium Generic Profile license is found.	License Manager	Violation of license agreements.
The Large Generic Profile license is not found.	The Large Generic Profile license is not found.	Large Generic Profile(s) have been defined, but no Large Generic Profile license is found.	License Manager	Violation of license agreements.
None of the "CUDB Customer Trial", "CUDB Customer Commercial", "CUDB Customer Test Lab", or "CUDB Ericsson Internal" licenses is found.	None of the "CUDB Customer Trial", "CUDB Customer Commercial", "CUDB Customer Test Lab", or "CUDB Ericsson Internal" licenses is found.	None of the "CUDB Customer Trial", "CUDB Customer Commercial", "CUDB Customer Test Lab", or "CUDB Ericsson Internal" licenses is available.	License Manager	Node will not be installed. Alarms will be raised for the "CUDB Customer Commercial", "CUDB Customer Test Lab", "CUDB Customer Trial", and "CUDB Ericsson Internal" licenses.
CUDB detected that the license for the CUDB Customer Trial has expired.	The CUDB Customer Trial license has expired.	The available license on the node has expired.	License Manager	Violation of license agreements.
The IoT Profile license is not found.	The IoT Profile license is not found.	IoT profile(s) have been defined, but no IoT Profile license is found.	License Manager	Violation of license agreements.
The HSS-EPC 5G Profile license is not found.	The HSS-EPC 5G Profile license is not found.	HSS-EPC 5G profile(s) have been defined, but no HSS-EPC 5G Profile license is found.	License Manager	Violation of license agreements.

Table 2 lists the alarm attributes valid for all cases, except the expiration of Customer Trial deployments. Table 3 lists the alarm attributes valid for the expiration of Customer Trial deployments.

Table 2 Alarm Attributes

Attribute Name	Attribute Value
Auto Cease	Yes
Module	LICENSING
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.



Attribute Name	Attribute Value
Timestamp Last	Date and time of the most recent alarm raised.
Resource ID	1.3.6.1.4.1.193.169.14.2.2.<# SUB_LICENSE_SUFFIX>
Alarm Model Description	License Management, Licensing
Alarm Active Description	License key not available, <#LICENSE_TYPE> license not found, Major
ITU Alarm Event Type	qualityOfServiceAlarm (3)
ITU Alarm Probable Cause	configurationOrCustomisationError (159)
ITU Alarm Perceived Severity	(4) - Major
Originating source IP	Node IP where the alarm was raised.
Sequence Number	Number which indicates the order in which the alarms are raised.

Table 3 Alarm Attributes in Case CUDB Customer Trial Expired

Attribute Name	Attribute Value
Auto Cease	Yes
Module	LICENSING
Error Code	4
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	1.3.6.1.4.1.193.169.14.2.2.15
Alarm Model Description	License Management, Licensing
Alarm Active Description	License key not available, CUDB Customer Trial license has expired
ITU Alarm Event Type	qualityOfServiceAlarm (3)
ITU Alarm Probable Cause	configurationOrCustomisationError (159)
ITU Alarm Perceived Severity	(4) - Major
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 and Table 3 are listed below. The list follows the below format:

"<#SUB_LICENSE_SUFFIX>" for the <#LICENSE_TYPE> license [not found].

- "1" for Advanced Network Protection.
- "2" for Deployment Flexibility.



- “3” for Applications Facilitator.
- “4” for Payload Blades / VMs.
- “5” for HLR Profile.
- “6” for HSS-IMS Profile.
- “7” for HSS-EPC Profile.
- “8” for AUC Profile.
- “9” for Small Generic Profile.
- “10” for Medium Generic Profile.
- “11” for Large Generic Profile.
- “12” for CUDB Customer Commercial.
- “13” for CUDB Ericsson Internal.
- “14” for CUDB Customer Test Lab.
- “15” for CUDB Customer Trial.
- “16” for IoT Profile.
- “17” for HSS-EPC 5G Profile.

The following are the consequences for the node if the alarm is not solved:

- Certain requested configurations will not be allowed if Advanced Network Protection, Deployment Flexibility, Application Facilitator, and Payload Blades / Virtual Machines are unavailable.
- If none of the deployment licenses (“CUDB Customer Commercial”, “CUDB Customer Test Lab”, “CUDB Customer Trial”, or “CUDB Ericsson Internal”) is found, then the node will not be installed.
- Violation of license agreements.

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

1.2.2 Tools

Not applicable.

1.2.3 Conditions

Not applicable.



2 Procedure

If the alarm is raised, then refer to the *License Management, License Key Not Available*, Reference [5] 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 “Major”.





Glossary

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





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*
- [5] *License Management, License Key Not Available*