

# Storage Engine, Temporary Data Inconsistency

Ericsson Centralized User Database

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## OPERATING INSTRUCTION

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# 1 Introduction

This instruction concerns alarm handling for the Storage Engine, Temporary Data Inconsistency alarm.

## 1.1 Alarm Description

The alarm is issued when there is a possible temporary data inconsistency between the Processing Layer Database (PLDB) and a given Data Store data partition (DS).

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
Mastership change situation for the DS group where the temporary data inconsistency is suspected to be.	Reconciliation is marked for execution at the master replica of the affected DS group.	Mastership change for the affected DS group.	Node with master replica of the affected DS group.	Possible temporary data inconsistency between the affected DS group and the local PL.
Mastership change situation for the Processing Layer (PL) group, being local PL the new elected master and local Ericsson Centralized User Database (CUDB) node having any DS being master of its respective group.  A possible temporary data inconsistency for each aforementioned DS can appear with respect to local PL.	Reconciliation is marked for execution at master replicas of all DS groups hosted on the node.	Mastership change for the PL group.	Nodes hosting master replica of all DS groups.	Possible temporary data inconsistency between master replicas of all DS groups and local PL.

The alarm attributes are listed and explained in Table 2.

*Table 2 Alarm Attributes*

Attribute Name	Attribute Value
Auto Cease	Yes
Module	STORAGE-ENGINE



Attribute Name	Attribute Value
Error Code	11
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	.1.3.6.1.4.1.193.169.1.2.11.<DG>
Alarm Model Description	Temporary data inconsistency, Storage Engine.
Alarm Active Description	Storage Engine (DS-group #<DG> : Temporary data inconsistency.
ITU Alarm Event Type	communicationsAlarm (2)
ITU Alarm Probable Cause	databaseInconsistency (160)
ITU Alarm Perceived Severity	(5) - Minor
Originating Source IP	Node IP 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:

- <DG>: The DS-group where the temporary data inconsistency is suspected to be.

For further information about attribute descriptions, refer to the *Alarm Format and Description* section in *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]
- *CUDB System Administrator Guide*, Reference [2]
- *System Safety Information*, Reference [5]
- *Personal Health and Safety Information*, Reference [6]

**1.2.2****Tools**

Not applicable.

**1.2.3****Conditions**

Not applicable.







## 2 Procedure

If the alarm is not cleared automatically in a short period of time, perform the following steps::

1. Establish an admin “CUDB CLI” session towards the target CUDB node:

```
ssh <admin_user>@<CUDB_Node_OAM_IP_Address>
```

2. Run the following command to check if there are any pending or ongoing reconciliation tasks:

```
sudo cudbReconciliationMgr -c <dsId>
```

Where:

- `-c` or `--check` is an option used to check if a specific task is in the Pending Task List.
- `dsId` is the DS-group of the involved DS.

This command returns the `dsId` in affirmative case. Otherwise, it returns nothing. In affirmative case, wait for the task to be completed.

Refer to *CUDB Node Commands and Parameters*, Reference [3] for further information about this command.

3. If the alarm does not cease, consult the next level of maintenance support. Further actions are outside the scope of this Operating Instruction.





## Glossary

For the terms, definitions, acronyms and abbreviations used in this document, refer to *CUDB Glossary of Terms and Acronyms*, Reference [4].





## Reference List

### **CUDB Documents**

- [1] *CUDB Node Fault Management Configuration Guide*
- [2] *CUDB System Administrator Guide*
- [3] *CUDB Node Commands and Parameters*
- [4] *CUDB Glossary of Terms and Acronyms*

### **Other Ericsson Documents**

- [5] *System Safety Information*
- [6] *Personal Health and Safety Information*