

# ENUM FE Sync, Server Lost Connections of DB

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## OPERATING INSTRUCTIONS

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# 1 Introduction

This instruction concerns alarm handling.

## 1.1 Alarm Description

The alarm is issued when the connections between ENUM FE Sync server and MySQL NDB clusters are down.

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	Solution
NDB cluster is under abnormal condition.	All Management Nodes or Data Nodes are down.	All the NDB connections are down.	NDB cluster	ENUM FE Sync server cannot provide service.	See Section 2.1 on page 2

**Note:** An alarm can appear as a result of the maintenance activity.

The alarm attributes are listed and explained in Table 2.

*Table 2 Alarm Attributes*

Attribute Name	Attribute Value
Major Type	193
Minor Type	856109
Managed Object Class	ipworksEnum
Source	<Node Name>,SystemFunctions=1,Fm=1,FmAlarmModel=IpworksEnum,FmAlarmType=ipworksFESyncLostConnDB,Source=IpworksEnumFESync
Specific Problem	ENUM FE Sync, Server Lost Connections of DB
Event Type	communicationsAlarm(2)
Probable Cause	x733RemoteNodeTransmissionError(342)



Attribute Name	Attribute Value
Additional Text	All the NDB connections are down.;uuid:<Product_UUID> <sup>(1)</sup>
Perceived Severity	Major

(1) <Product\_UUID> is the universally unique identifier (UUID) of machine that generates the alarm. The value can be fetched from `/sys/devices/virtual/dmi/id/product_uuid` on the PL node.

## 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:

- *System Safety Information*
- *Personal Health and Safety Information*

### 1.2.2 Tools

No tools are required.

### 1.2.3 Conditions

No conditions.

## 2 Procedure

This section describes the procedure to follow to clear this alarm.

### 2.1 Starting Management Node and Data Node

To clear the alarm, do the following:



1. Log on to the SC-1.

```
# ssh <Username>@<SC-1 IP Address>
```

2. Start the Management Node and Data Node.

```
#!/etc/init.d/ipworks.mysql start-mgmd  
#!/etc/init.d/ipworks.mysql start-ndbd
```

For more information on how to manage MySQL NDB Cluster, refer to *Configure MySQL NDB Cluster*.

3. Log on to the SC-2, then start the Management Node and Data Node on SC-2.
4. 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.