

# License Management, Capacity Usage Threshold Reached

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## OPERATING INSTRUCTIONS

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License Management, Capacity Usage Threshold Reached



# 1 Introduction

This instruction concerns alarm handling.

## 1.1 Alarm Description

The alarm is raised when the application is possibly unable to use additional instances of the licensed feature.

The possible alarm causes and fault locations are explained in Table 1.

*Table 1 Alarm Causes*

Alarm Cause	Description	Fault Reason	Fault Location	Impact
The application is possibly unable to use additional instances of the licensed feature	The number of reserved tokens in a capacity license approaches the value of attribute <code>licensedCapacityLimit</code> or are above the value of attribute <code>capacityAlarmThreshold</code>	The requested capacity has exceeded the value of attribute <code>capacityAlarmThreshold</code> or <code>licensedCapacityLimit</code>	License server	The requested capacity is possibly unavailable

The alarm attributes are listed and explained in Table 2.

*Table 2 Alarm Attributes*

Attribute Name	Attribute Value
Major Type	193
Minor Type	393219
Managed Object Class	<i>Lm</i>
Managed Object Instance	<code>ManagedElement=&lt;node_name&gt;,SystemFunctions=1,Lm=1,License=&lt;License Type&gt;</code>
Specific Problem	License Management, Capacity Usage Threshold Reached
Event Type	<code>qualityOfServiceAlarm (3)</code>
Probable Cause	<code>x733ThresholdCrossed (351)</code>



Table 2 Alarm Attributes

Attribute Name	Attribute Value
Additional Text	Capacity usage threshold reached
Perceived Severity	One of the following: <ul style="list-style-type: none"><li>• major (4) – The value of attribute <code>licensedCapacityLimit</code> of the license identified by attribute <code>capacityKeyId</code> is reached.</li><li>• warning (6) – The reserved capacity of the license identified by attribute <code>capacityKeyId</code> has passed the warning threshold defined by attribute <code>capacityAlarmThreshold</code>, but is still below the total licensed capacity.</li></ul>

## 1.2 Prerequisites

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

### 1.2.1 Documents

This instruction references the following documents:

- *Data Collection Guideline*
- *Install License Key File*
- *View License Information*

### 1.2.2 Tools

No tools are required.

### 1.2.3 Conditions

Before starting this procedure, ensure that the following conditions are met:

- A License Management, Capacity Usage Threshold Reached alarm is raised.
- The user has proper authority to handle configuration management of the network elements.
- An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.



## 2 Procedure

This section describes the procedure to follow when this alarm is received.

Do the following:

1. Verify the license expiration date, refer to *View License Information*.
2. If necessary, contact the Ericsson supplier to order an entitlement containing the necessary licenses.
3. Navigate to the *Lm* MO, for example:

```
>dn ManagedElement=NODE06ST, SystemFunctions=1, Lm=1
```

4. Perform a manual refresh of the license inventory to ensure that the license changes are applied:

```
(Lm=1) >refreshLicenseInventory
```

The system returns `true` if the action was successful.

5. Verify that the license inventory has been synchronized with the Arwa server by checking the time stamp:

```
(Lm=1) >show lastLicenseInventoryRefresh
```

The following is an example output:

```
lastLicenseInventoryRefresh="2015-10-12T00:00:00"
```

A recent time stamp indicates a successful update.

6. Is the alarm cleared?

Yes: Proceed with Step 9.

No: Continue with the next step.

7. Perform data collection, refer to *Data Collection Guideline*.
8. Consult the next level of maintenance support. Further actions are outside the scope of this instruction.
9. Job is completed.