

MtasMpController, One or More MRFPs Overloaded

MTAS

OPERATING INSTRUCTIONS

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MtasMpController, One or More MRFPs Overloaded



1 Introduction

This instruction concerns alarm handling.

1.1 Alarm Description

The `MtasMpController, One or More MRFPs Overloaded` alarm is raised when a congestion situation occurs in a Media Resource Function Processor (MRFP). The MRFP sends a notification to the MTAS that indicates that the MRFP is overloaded.

The MTAS provides a mechanism for an MRFP to report congestion to the MTAS so that the MTAS can reduce the amount of resource requests to the congested MRFP.

The `MtasMpController, One or More MRFPs Overloaded` alarm relates to connection between the MTAS and an MRFP node. This connection relates to the Media Resource Function Controller (MRFC) function. For more information, refer to *MTAS Media Control Management Guide*.

The MRFC function is a part of the MTAS. The operation requests are started by request from MTAS services and it operates external MRFPs by use of the standard Mp interface with text encoded H.248 over SCTP.

Note: Requests for adding new terminations to the MRFP can be rejected in case a critical overload situation occurs.

The alarm is issued in the following situations:

- Congestion in one or more MRFPs.

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 |
|----------------------------------|--|--|--------------------|--|
| Congestion in one or more MRFPs. | A congestion situation has occurred in one or several MRFPs. | One or more MRFPs cannot handle the amount of resource requests initiated by MTAS. | One or more MRFPs. | Congested MRFPs might not be able to handle media properly, certain services might not work as expected. |



Note: The 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 | 6619167 |
| Managed Object Class | <i>MtasMpController</i> |
| Managed Object Instance | MtasFunction.applicationName=MtasFunction,MtasMpController.mtasMrfc=0 |
| Specific Problem | MtasMpController, One or More MRFPs Overloaded |
| Event Type | qualityOfServiceAlarm (3) |
| Probable Cause | x733Congestion (308) |
| Additional Text | - |
| Perceived Severity | The severity of the alarm can be minor, major, or critical depending on the number of MRFPs that are overloaded and the number of MRFPs that are configured in the system, see Table 3. |

Table 3 Severity Levels

| Number of MRFPs | Number of Overloaded MRFPs | Alarm Severity |
|-----------------|----------------------------|----------------|
| 1 | All | Critical(3) |
| 2 | All | Critical(3) |
| | All but one | Major(4) |
| >2 | All | Critical(3) |
| | At least one | Major(4) |
| | One | Minor(5) |

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 the following documents are read:

- *Check Alarm Status*
- *Fault Management*
- *Managed Object Model (MOM)*

1.2.2 Tools

No tools are required.

1.2.3 Conditions

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

- No ongoing maintenance activities are affecting the network or network elements.
- 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.



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2 Procedure

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

Do the following:

1. Depending on how many MRFPs are configured in the system, the severity changes when one or more MRFPs returns to normal operation, see Table 3. When the last MRFP has returned to normal operation, the alarm is cleared. The delay before the alarm is cleared or the severity is lowered is 30 minutes.
2. If the alarm does not cease or the severity level not goes down after 30 minutes, consult the next level of maintenance support. Further actions are outside the scope of this instruction.