

MTAS Emergency Call Notification Management Guide

MTAS

USER GUIDE

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1 Introduction

This document describes how to configure the Emergency Call Notification service in the MTAS.

1.1 Prerequisites

It is assumed that the user of this document is familiar with the O&M area, in general.

1.1.1 Licenses

To enable the Emergency Call Notification service, the MMTel AS Voice Base license must be installed.

For more information about the MMTel AS Voice Base license, refer to *MTAS Licenses*

1.1.2 Documents

Before starting any procedure in this document, ensure that the following documents are available:

- *Ericsson Command-Line Interface User Guide*
- *Managed Object Model (MOM)*

1.1.3 Conditions

The following condition must apply:

An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.





2 Overview

The Emergency Call Notification service enables notifications for emergency calls. Based on SIP NOTIFY received from the Call Session Control Function (CSCF), the MTAS indicates the start and stop of an emergency call to the Online Charging System (OCS) over the `R0` interface. The data in the SIP Event header received in the NOTIFY is used to populate the Service-Specific-Info Attribute-Value Pair (AVP) having subAVPs Service-Specific-Type and Service-Specific-Data. An example of a call flow is shown in Figure 1.

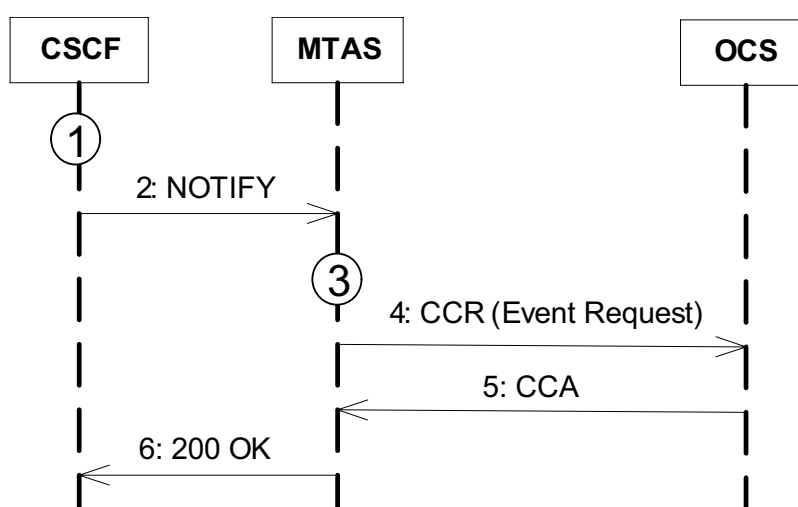


Figure 1 Call Flow in Emergency Call Notification

The call flow for an emergency call notification is as follows:

1. Emergency call is initiated or ended.
2. The CSCF sends an unsolicited SIP NOTIFY on the IMS Service Control Interface (ISC) to the originating MMTel Application Server (AS) with session case unregistered and with Event header value `emergencyCall` and parameter `start` or `stop`.
3. Emergency Call Notification function of the MTAS is invoked. The following conditions hold:
 - The administrative state of the Event Package Service for Emergency Call is `UNLOCKED`.
 - The charging profile for Emergency Call is set to `Online charging`.
 - It is found that the subscriber is an online charging subscriber by checking that the P-Charging-Function-Addresses (PCFA) header included in the NOTIFY contains Event Charging Function (ECF) address.



4. The MTAS sends Credit Control Request (CCR) Event over the `Ro` interface with Service-Specific-Info AVP (and subAVPs) populated to report Emergency Call start or end according to data received in the Event header.
5. The OCS answers with Credit Control Answer (CCA).
6. The MTAS sends `200 OK` to the CSCF as a response to the NOTIFY.

2.1 Subfunctions

The subfunctions included in the Emergency Call Notification service are described in this section.

2.1.1 Emergency Call Notification

Reporting emergency call notifications to the OCS can be enabled or disabled by the operator.

2.1.2 Reporting Start and Stop of Emergency Call to OCS

The MTAS reports start and stop of an emergency call to the OCS based on the unsolicited out-of-dialog SIP NOTIFY with `Event` header value `emergencyCall` and parameter `start` or `stop` received from the CSCF.

2.2 Interaction with Other Services

There is no interaction with other services.



3 Emergency Call Notification Configuration

The Emergency Call Notification service is controlled by the *MtasEs* and *MtasChargingProfile* MOs. An overview of these two MOs is shown in Figure 2.

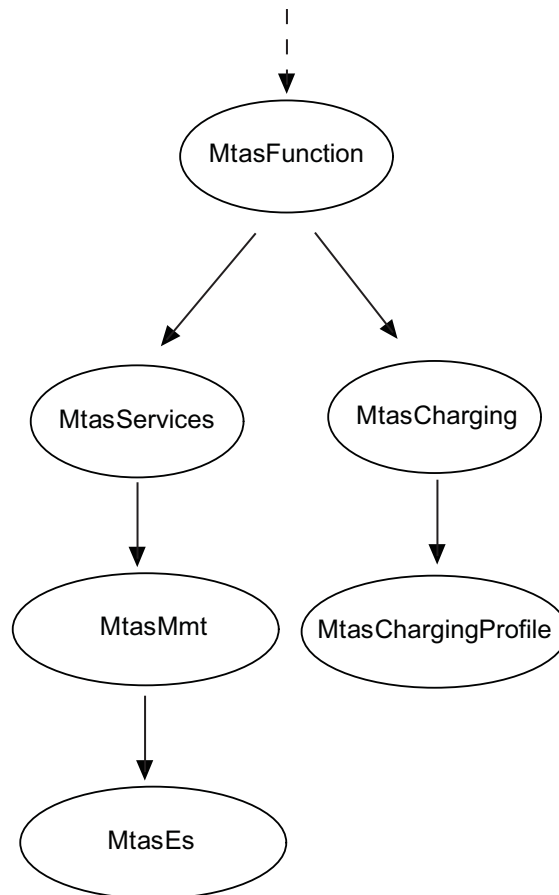


Figure 2 Structure of *MtasEs* and *MtasChargingProfile* MOs

For configurable MOs and attributes related to the Emergency Call Notification service, refer to *Managed Object Model (MOM)*.

3.1 Event Package Service for Emergency Call Configuration

If the `mtasEsAdminState` attribute in the *MtasEs* MO is UNLOCKED, MTAS handles emergency call notifications.

If the `mtasEsAdminState` attribute in the *MtasEs* MO is LOCKED, MTAS rejects all emergency call notifications.



3.2 Emergency Call Charging Profile Configuration

Reporting the received emergency call notifications (start or stop) to OCS is enabled by setting the `mtasChargingProfileEmergencyCall` attribute in the `MtasChargingProfile` MO to 1 (ONLINE CHARGING). If the `mtasChargingProfileEmergencyCall` is set to 0 (NO CHARGING), the received emergency call notifications are handled by MTAS but not reported to the OCS.

3.3 Service Data Configuration

No service data for the Emergency Call Notification service is not configured in the operator or subscriber part of the subscriber data.



4 Performance Management

For measurements, related to the Emergency Call Notification service, refer to *MTAS Performance Measurements*.





5 Fault Management

For alarms, related to the Emergency Call Notification service, refer to *MTAS Alarm List*.