ERICSSON

IMS Emergency Session Configuration

OPERATION DIRECTIONS

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1 Introduction

This document provides instructions for configuring IP Multimedia Subsystem (IMS) emergency sessions in the EPG for LTE and untrusted WLAN systems.

1.1 Scope

This document covers the following issues:

- Enabling the IMS emergency session
- Configuring the IMS emergency session

For a detailed description of the IMS emergency session in the EPG, see *IMS Emergency Session*.

1.2 Target Groups

This document is intended for personnel performing IMS emergency session configuration in the EPG. The target group must have a basic knowledge of data communication and telecommunication.

2 Prerequisites

Before configuring IMS emergency sessions, ensure the following prerequisites have been met:

- An APN must have been configured. Refer to *APN Configuration* for more information.
- A dynamic Gx+ profile must be configured for the APN. Refer to *Gx+ Policy and Charging Control Configuration* for more information.

3 Enabling IMS Emergency Sessions in the PGW

To enable IMS emergency sessions in the PGW, the following conditions must be satisfied:

- IMS-Based Telephony - MMTel must be activated.
- At least one emergency APN must be configured.

To activate IMS-Based Telephony - MMTel, include the following statement:

```
(config) ManagedElement=1,Epg=1,Pgw=1,FeatureActivation=1
   imsBasedTelephonyMmtel
```

To configure an APN as an emergency APN, include the following statement:

```
(config) ManagedElement=1,Epg=1,Pgw=1,Apn=ApnName,Mmtel=1
   Emergency=1
```

By default, an APN is configured as a general-purpose APN used for non-emergency PDN connections.

Note: To change the emergency configuration, the APN must first be blocked, and all related PDN connections must be terminated. For detailed instructions refer to *Deleting and Modifying APNs*.

4 Configuring the IMS Emergency Session in PGW

This section describes how to configure the IMS emergency Session in PGW.

4.1 Configuring the IMS Emergency Session Inactivity Timer

The time in seconds that the EPG must wait before terminating an inactive PDN connection for an emergency APN can be optionally configured. To configure this timer, include the following statement:

```
(config) ManagedElement=1,Epg=1,Pgw=1,Apn=ApnNa
me,Mmtel=1,Emergency=1
   inactivityTimeout=inactivity-timer
```

The default time-out is 600 seconds. The configurable range is 5-7,200 seconds.

Note: The configuration has no impact on the currently started timer and is only effective to the next timer.

4.2 Configuring the APN Access

For an emergency APN, the APN access must always be set to `From-Network`. For detailed instructions, refer to *APN Configuration*.

4.3 Configuring the Traffic Filter

The PGW must be configured on an emergency APN with filters that only allow certain traffic on an EPS bearer. Allowed traffic types are listed in *IMS Emergency Session*. For detailed instructions about configuring the traffic filter, refer to *PISC Configuration*.

4.4 Configuring the Gx Failure Action

The Gx+ Policy and Charging Control (PCC) is mandatory for an IMS emergency session. For an emergency APN, the failure action used during Gx+ request failures must always be set to **`reject-request`**. For detailed instruction about configuring the failure action, refer to *Gx+ Policy and Charging Control Configuration*.

4.5 Configuring the IMSI for Unauthenticated User

For UE devices without IMSI, an IMSI number must be configured for presenting on external interfaces (for example, the Gy+ interface), Radius messages, DHCP messages, and CDR. To configure the IMSI, include the following statement:

```
(config-ManagedElement=1,Epg=1,Pgw=1,Apn=ApnN
ame,Mmtel=1,Emergency=1)
   imsiForUnauthenticated=IMSI number
```

If the IMSI is not configured, the default value `000000000000000` is used.

5 Configuring the IMS Emergency Session in SGW

This section describes how to configure the IMS emergency Session in SGW.

5.1 Configuring the IMSI Unauthenticated Flag

The IMSI Unauthenticated Flag indicates that the provided served IMSI is not authenticated. It is possible to configure whether the flag is included in or excluded from CDRs or ACRs.

For detailed instructions about configuring the `IMSI Unauthenticated Flag` in CDRs, refer to *Offline Charging Configuration*.

For detailed instructions about configuring the IMSI-Unauthenticated-Flag AVP in the Rf interface, refer to *Offline Charging Configuration*.