Evolved Packet System Fallback Support

Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Products or Functional Area	AMF
Applicable Platforms	SMI
Feature Default Setting	Enabled – Always-on
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2021.04.0

Feature Description

Based on the presence or absence of the N26 interface, Evolved Packet System (EPS) Fallback opts to switch or redirect to EPS.

The AMF performs and involves in the following activities:

- It supports the IMS voice over PS (VoPS) session and indicates towards the UE during the Registration procedure.

- It sends the value of **redirection-eps-fallback** information elements towards the gNodeB.

- The **redirection-eps-fallback** IE is based on the UE 5GMM capability to support Request Type flag **handover** and CLI configuration for **redirection-eps-fallback**.

This feature supports the following functionalities:

- 5GS interworking without N26 interface indicator in Registration Accept.

- Redirection for EPS fallback for voice as part of the ICSR

- Handover Request and Path Switch Request ACK to fill Redirection IE.

- N26, Xn, and N2 handovers

Feature Configuration

To configure this feature, use the following configuration:

```
config
   amf-global
      call-control-policy ccp_name
         feature-support-ie
            [no] iwk-n26-supported
            [no] redirection-eps-fallback { not-supported | supported }
            end
```

> **Note** As a default action, the AMF doesn't send the redirection information element (Redirection IE). It's sent only to RAN, which is based on the value of CLI, and capability of UE.

NOTES:

- **call-control-policy** *ccp_name*—Specify and configure the Call Control Policy or Profile, as applicable.

- **feature-support-ie**—Configure and specify about supported or unsupported AMF or 5GC features.

- **iwk-n26-supported**—Specify the supported N26 interface indicator in 5GS network feature support. It's applied only when the indicator for N26 interface in 5GS network feature is in supported state. Otherwise, if not supported, no reference of the status is mentioned for the unsupported status.

- **redirection-eps-fallback**—Configure the UE support and redirection for the EPS Fallback for voice, as a part of ICSR.

- **not-supported | supported**—Specify if the support is available or not. The not-supported option indicates that 5G VoPS 3GPP support is disabled.

- **5G IMS Voice over Packet-Switched (VoPS) 3GPP Sessions**—Specify if the UE capability support is enabled or not. Also, to specify, if the UE configuration is enabled with the UE Radio capability or not. The default value is true, indicating it's a supported value.

Configuration Example

The following is an example configuration.

```
config
    amf-global
        call-control-policy CCP1
            feature-support-ie iwk-n26-supported
            feature-support-ie redirection-eps-fallback supported
            end
```