

# Evolved Packet System Fallback Support


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# 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-without-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 an action sent only to RAN, which is based on the value of CLI, and the 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-without-n26-supported**—Specify the "Interworking without N26" indicator supported within the 5GS network functionality support. It gets applied only when the "Interworking without N26" indicator in the 5GS network functionality is in a supported state. When not supported, the "unsupported status" doesn’t have a reference to the status.
- **redirection-eps-fallback { not-supported | supported }**—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 nonsupported option indicates the disabled 5G VoPS 3GPP support.

- **5G IMS Voice over Packet-Switched (VoPS) 3GPP Sessions**—Specify if the UE capability support gets enabled or not. Also, to specify, if the enabled UE configuration is 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-without-n26-supported
            feature-support-ie redirection-eps-fallback supported
            end
```