S5 S8 Interface Upgrade

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Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	P-GW
Applicable Platform(s)	• ICUPS • VPC-DI
Feature Default	Disabled - Configuration Required
Related Changes in This Release	Not Applicable
Related Documentation	• *5G Non-Standalone Solution Guide* • *P-GW Administration Guide*

Revision History

Revision Details	Release
First introduced.	Release 21.24

Feature Description

The P-GW supports enhancements to the following IEs with the S5 and S8 interface upgrade:

- P-CSCF Restoration Required IE

- RAN/NAS Cause IE

- Secondary RAT Usage Data Report IE

- Change Notification Request and Response for Secondary RAT Usage Data Report IE

- UP Function Selection IE

- Mapped UE Usage Type IE

P-CSCF Restoration Required IE Support

The P-CSCF Restoration Required IE indication bit is set to 1. For other IE support, this bit is set to 0. When it is set to 1, it indicates that the P-CSCF restoration is required for the user.

For more information, refer to the *HSS and PCRF Based P-CSCF Restoration Support* chapter in the *P-GW Administration Guide*.

RAN/NAS Cause IE Support

The following message types include the RAN/NAS Cause IE on the Gx interface:

- Create Bearer Request

- Delete Bearer Request

- Update Bearer Request

For more information, refer to the *Gx Interface Support* chapter in the *P-GW Administration Guide*.

Secondary RAT Usage Data Report IE Support

The following message types are supported by the Secondary RAT Usage Data Report IE:

- Create Session Request

- Modify Bearer Request

- Delete Session Request

- Delete Bearer Response

- Delete Bearer Command

For more information, refer to the *5G NSA for SAEGW* chapter in the *5G Non-Standalone Solution Guide*.

Change Notification Request and Response Messages

The Secondary RAT Usage Data Report IE supports the Change Notification Request and Response messages during inter RAT handover. I-CUPS supports this functionality in this release.

For more information, refer to the *5G NSA for SAEGW* chapter in the *5G Non-Standalone Solution Guide*.

UP Function Selection IE in Create Session Request

The UP Function Selection IE supports Create Session Request in this release.

For more information, refer to the *5G NSA for SAEGW* chapter in the *5G Non-Standalone Solution Guide.*

Mapped UE Usage Type IE

The Create Session Request supports the Mapped Usage Type IE. This IE is encoded into the 5th and 6th octet binary integer as defined in *subclause 5.8.1* of *3GPP TS 29.003 [32]*. This IE complies with the SR and ICSR support. This functionality is currently limited to the S5 and S8 interfaces.