



# End Marker Packets

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## Revision History



**Note** Revision history details are not provided for features introduced before release 21.24.

Revision Details	Release
First introduced	Pre 21.24

## Feature Description

In case of eNodeB relocation during handover procedure without SGW-U change, the SGW-C indicates the SGW-U to switch the S1 path(s) by sending a Sx session modification request message with the new F-TEID-u of eNodeB. In addition, provides an indication to the SGW-U to send the End Marker Packet(s) on the old path. On receiving this indication, the SGW-U constructs End Marker Packet(s) and sends it for each S1 GTP-U tunnel toward the source eNodeB, after sending the last PDU on the old path.

End Marker packet is sent per GTP-U TEID during above scenarios.

The Control Plane requests the User Plane to construct and send End Marker packets by sending a Session Modification Request including FAR(s) with the new downstream F-TEID, and with the SNDEM (Send End Marker Packets) flag set.

Information Element	P	Condition/Comment
PFCPSMReq-Flags	C	SNDEM (Send End Marker Packets): This IE shall be present if the CP function modifies the F-TEID of the downstream node in the Outer Header Creation IE and the CP function requests the UP function to construct and send GTP-U End Marker messages toward the old F-TEID of the downstream node.

**Limitation**

Handoffs in P-GW is not supported for sending End Marker. This behavior is similar to non-CUPS.