



## ERAB Release if any ERAB Switch Fails

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### Feature Summary and Revision History

#### Summary Data

Applicable Product(s) or Functional Area	MME
Applicable Platform(s)	<ul style="list-style-type: none"><li>• ASR 5500</li><li>• VPC-DI</li><li>• VPC-SI</li></ul>
Default Setting	Enabled - Always-on
Related Changes in This Release	Not Applicable
Related Documentation	<i>MME Administration Guide</i>

#### Revision History

Revision Details	Release
First introduced.	21.15

### Feature Description

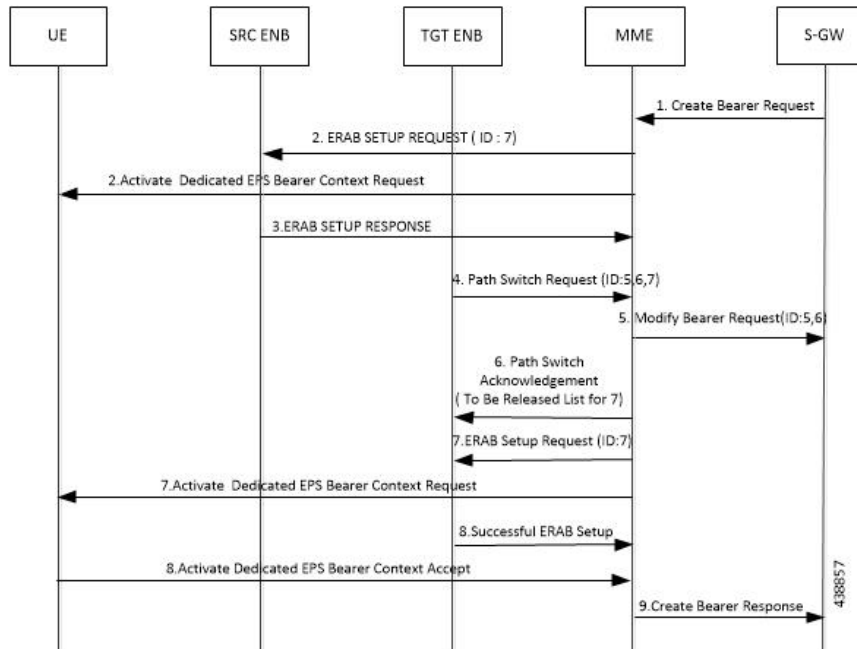
With Release 21.15, MME includes ERAB to "To Be Released List" IE in PATH SWITCH REQUEST ACKNOWLEDGE during X2 handover collision scenarios.

# How It Works

This section describes how the ERAB release if any ERAB Switch Fails.

## Flows

**Figure 1: X2 handover without SGW Relocation**



**Table 1: Scenario 1**

Steps	Description
1.	MME receives create bearer request for the dedicated bearer.
2.	MME sends eRAB setup and activate dedicated EPS bearer (ID: 7).
3.	ENB1 accepts eRAB setup.
4.	ENB2 sends path switch request with ID 5, 6, and 7.
5.	MME sends modify for 5 and 6, but 7 is not sent as setup is completed.
6.	MME responds with path switch acknowledge with "To Be Released List" for 7.
7.	MME sends Activate Dedicated EPS Bearer over E-RABSetup request for erab id 7.
8.	ENB2 sends E-RAB setup response.
9.	MME sends Create bearer response to S-GW.

Figure 2: X2 Handover with SGW Relocation:

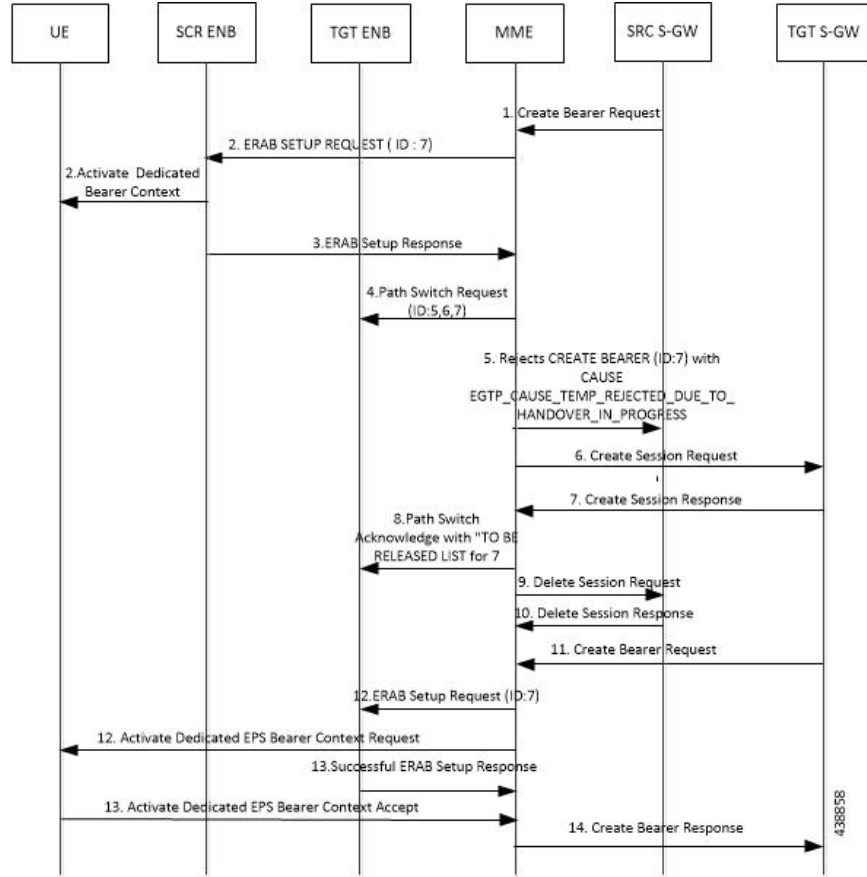


Table 2: Scenario 2

Steps	Description
1.	MME receives create bearer request for dedicated bearer.
2.	MME sends eRAB setup and activate dedicated EPS bearer (ID: 7).
3.	ENB1 accepts eRAB setup.
4.	ENB2 sends path switch request with ID 5, 6, and 7.
5.	MME rejects create bearer with cause: “EGTP_CAUSE_TEMP_REJECTED_DUE_TO_HANDOVER_IN_PROGRESS” to source S-GW (SGW1).
6.	MME sends create session request to target S-GW (SGW2).
7.	SGW2 responds with create session response.
8.	MME responds with path switch acknowledge to target enode B (ENB2), with bearer ID 5 and 6. ERAB Id 7 will be added under “To be released List”.

Steps	Description
9.	MME sends delete session request to SGW1.
10.	SGW1 responds with delete session response.
11.	If target S-GW retries to rejected bearer, then a create bearer is sent from SGW2 to MME.
12.	MME sends eRAB setup and activate dedicated EPS bearer (ID: 7).
13.	ENB ENB2 sends E-RAB setup response.
14.	Create bearer will be successful.




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**Note** If MME did not get an acknowledgement from UE for NAS message (ACTIVATE\_DEDICATED\_EPS\_BEARER\_CONTEXT\_REQUEST) or if MME has rejected that create bearer due to handover after successful ERAB establishment, then that ERAB ID is added to “To Be Released List” which is ERAB ID 7 under path switch acknowledge. When MME tries again to set up a ERAB SETUP request for ERAB ID 7, MME receives a successful response from Enode B2.

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