# Handling Temporary Failure During UBR-MBC Collision

# Feature Summary and Revision History

**Summary Data**

| | |
|---|---|
| Applicable Product(s) or Functional Area | • S-GW |
| Applicable Platform(s) | • ASR 5500<br>• VPC-DI<br>• VPC-SI |
| Feature Default | Disabled-Configuration Required |
| Related Changes in This Release | Not Applicable |
| Related Documentation | Not Applicable |

**Revision History**

| Revision Details | Release |
|---|---|
| S-GW sends the Update Bearer Response message to P-GW with the cause code as 110 (Temp_Rejected_Due_To_Handover_In_Progress) when it identifies an ongoing Update Bearer Request message. | 21.12.15 |
| First introduced. | Pre 21.2 |

# Feature Changes

**Previous Behavior**: During a 3G to 4G handover, when PCRF initiates a QoS Class Index (QCI) change, MME neither rejects nor processes the Update Bearer Request message and it fails to send the Update Bearer Response message back to P-GW through S-GW. At the same time, MME tries to send the Modify Bearer Command (MBC) message to P-GW through S-GW. Then, S-GW sends the Update Bearer Response message to P-GW with the cause code as 89 (Service_Denied) when it identifies an ongoing Update Bearer Request message. MME is unable to update the QoS change because P-GW does not retry to send the Update Bearer Request message after it receives the Update Bearer Response message with the cause code as Service_Denied.

**New Behavior**: In 21.12.15 and later releases, S-GW sends the Update Bearer Response message to P-GW with the cause code as 110 (Temp_Rejected_Due_To_Handover_In_Progress) when it identifies an ongoing Update Bearer Request message. In this case, P-GW with the existing cause-code temp-fail configuration retries to send the Update Bearer Request message and MME is updated with the QCI change.

> **Note** The temp-fail CLI for P-GW must be configured for the solution to work properly.

**Customer Impact**: Not applicable

# Command Changes

## egtp cause-code temp-failure ubr-mbc-collision

To enable the temporary failure of Update Bearer Request (UBR)-MBC collision handling functionality, use the following configuration:

```
configure
   context context_name
      sgw-service service_name
         [default | no] egtp cause-code temp-failure ubr-mbc-collision
         end
```

**NOTES:**

- **no** Disables the specified parameter.

- **cause-code** Configures the collision-handling failure response.

- **temp-failure** Configures the temporary failure response during collision-handling.

- **ubr-mbc-collision** Configures the service to send cause code 110 (temporary failure) for UBR-MBC collision. The default behavior is disabled.

- **default** Sets or resets the corresponding parameter to its default value.

# Performance Indicator Changes

## show sgw-service name sgw-service

The output of this command includes the following field:

- temp-failure ubr-mbc-collision: Indicates whether the temporary failure configuration for Update Bearer Request (UBR)-MBC collision is enabled or disabled.

**show sgw-service name sgw-service**