

S10/S3-S11 Interface Separation

This chapter describes the following topics:

- Feature Summary and Revision History, on page 1
- Feature Description, on page 2
- How It Works, on page 2
- Configuring S10/S3 Interface Separation, on page 2
- Monitoring and Troubleshooting, on page 3

Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	MME
Applicable Platform(s)	• ASR 5500 • VPC-DI • VPC-SI
Default Setting	Disabled - Configuration Required
Related Changes in This Release	Not Applicable
Related Documentation	• Command Line Interface Reference • MME Administration Guide

Revision History

Revision Details	Release
First introduced.	21.10

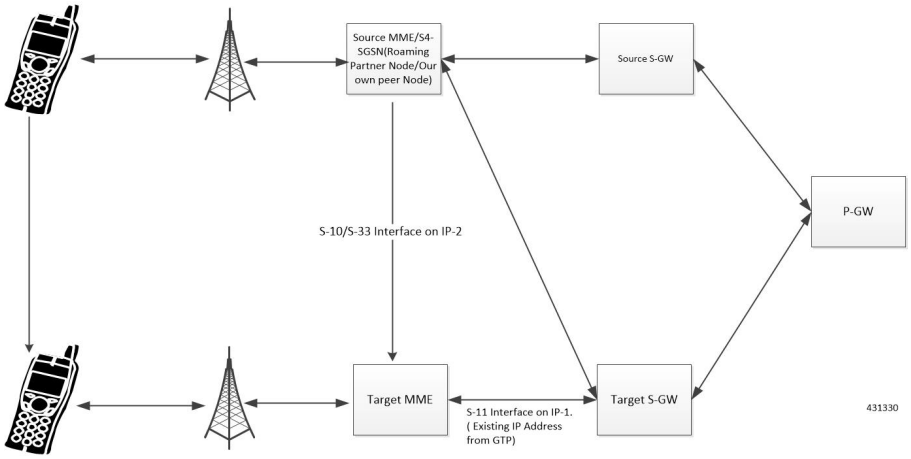
Feature Description

MME supports association of additional EGTP service for handling S10/S3 interfaces. New CLI is introduced allowing MME to decide to use which egtp-interface for S10/S3 signalling to peer MME/SGSN for Handover scenarios.

How It Works

Flows

Separate IP Addressing for S11 and S10/S3 interfaces. All S11 Communication will be on IP-1 and S10 communication will on IP-2. This is applicable for both inter operator S10/S3(MME/SGSN) Handovers and intra operator S10/S3(MME/SGSN) Handovers.



Limitations

This section describes the known limitations for S10/S3-S11-Interface Separation feature:

- Configuration changes like adding and deleting of GTPv2 interfaces is not supported during runtime.
- Changes to GTPv2 interfaces must be performed in service-mode only.
- When S10/S3 and S11 GTPv2 interfaces are separated, S10/S3 interface will only allow S10/S3 procedures on that interface other GTP messages will be discarded. Same is with respect to S11 interface.

Configuring S10/S3 Interface Separation

This section provides information on the CLI commands to configure Configuring S10/S3 Interface Separation the in MME.

egtp-s10-s3-service

Use the following configuration to associate EGTP service for S10/S3 interface to support Inter-Operator S10 Handover.

```
configure
  context context_name
    mme-service service_name
      associate egtp-s10-s3-service sevice_name
      [ no ] associate egtp-s10-s3-service
      end
```

Important Association of new egtp-s10-s3-service requires mme-service restart or system reload.

NOTES:

- **no**: Removes the association for S10/S3 interface at MME.
- The **associate egtp-s10-s3-service** *sevice_name* associate EGTP service for S10/S3 interface. *sevice_name* must be an alphanumeric string of size 1 to 63 characters.

Monitoring and Troubleshooting

This section provides information regarding show commands and bulk statistics available to monitor and troubleshoot the EGTP S10/S3 Service Saperation feature.

Show Commands and Outputs

show mme-service all

The output of this command includes the following fields:

- EGTP S10/S3 Context
- EGTP S10/S3 Service