



# UTRAN to E-UTRAN Handover

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## Feature Summary and Revision History

### Summary Data

Applicable Product(s) or Functional Area	SGSN (S4-SGSN)
Applicable Platform(s)	<ul style="list-style-type: none"> <li>• ASR 5000</li> <li>• ASR 5500</li> <li>• VPC-DI</li> <li>• VPC-SI</li> </ul>
Feature Default	Enabled - Configuration Required
Related Changes in This Release	Not Applicable
Related Documentation	<ul style="list-style-type: none"> <li>• <i>Command Line Interface Reference</i></li> <li>• <i>SGSN Administration Guide</i></li> <li>• <i>Statistics and Counters Reference</i></li> </ul>

### Revision History

Revision Details	Release
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First introduced.	21.5.10
This feature is available in 21.5.10 and 21.9 releases.	

## Feature Description

The UTRAN to E-UTRAN Handover feature is used to check and avoid including the RAB IDs in the "Relocation Command" message. When this feature is enabled, the SGSN includes the RAB IDs in the "RABs To Be Released List" IE in the "Relocation Command" message if the MME does not include the F-TEID information in the "Forward Relocation Response" message (existing behavior).

When this feature is disabled, the SGSN will not include the following IEs in the "Relocation Command" message if the MME does not include the F-TEID information.

- RABs Subject To Data Forwarding List
- RABs To Be Released List

## Configuring UTRAN to E-UTRAN Handover

This section describes how to configure UTRAN to E-UTRAN Handover feature.

### Configuring eNodeB Data Forwarding

Use the following configuration to configure enable forwarding of data from the RNC to eNodeB.

```
configure
  context context_name
    iups-service service_name
      rnc id rnc_id
        [ no ] enb-data-forward
      end
  end
```

#### NOTES:

- **iups-service** *service\_name*: Creates an IuPS service instance and enters the IuPS Service Configuration mode. This mode defines the configuration and usage of IuPS interfaces between the SGSN and the RNCs in the UMTS radio access network (UTRAN).  
*service\_name* specifies the IuPS service name as a unique alphanumeric string of 1 through 63 characters.
- **rnc id** *rnc\_id*: Sets the identification number of the RNC configuration instance. *rnc\_id* must be an integer from 0 to 65535.
- **enb-data-forward**: Enables the forwarding of data from this RNC to eNodeB.
- **no**: Disables the forwarding of data from this RNC to eNodeB.
- This command is enabled by default.

# Monitoring and Troubleshooting

This section provides information on show commands and their corresponding outputs for the UTRAN to E-UTRAN Handover feature.

## Show Commands and Outputs

### **show iups-service all**

The output of this command includes the "E-NodeB Data Forwarding" field to indicate whether eNodeB Data Forwarding support is enabled or disabled.

