



Exclude OPC in SCCP Calling-Party-Address on Gs Interface for Route-On-GT

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Feature Description

The SGSN sends Location Update Request (BSSAP+LOCATION-UPDATE-REQUEST) over the Gs interface but does not receive a Location Update Accept (BSSAP+LOCATION_AREA_UPDATE_ACCEPT) from some MSC/VLRs as the SGSN includes the Originating Point Code (OPC) in the SCCP calling-party-address IE when the routing-indicator is set to 'ROUTE on GT'. The MSC/VLRs are unable to perform GT-based routing due to the presence of OPC in the calling-party-address generated by SGSN. The OPC has to be excluded from the SGSN generated SCCP Calling Party Address towards MSC/VLR on Gs interface. The OPC is not relevant in the SCCP Calling Party Address when routing indicator is set to "Route on GT". A new CLI-based control is introduced for the operators on Gs-service to include or exclude the OPC in the SCCP calling-party-address if the routing indicator is 'Route on gt'. By default the SGSN includes the OPC in SCCP calling party address when the routing-indicator is set to 'ROUTE on GT'. The operational benefit of this feature is that the MSCs/VLRs can perform GT-based routing easily. This feature is compliant with ITU Q.714 standard.

Configuring the Feature

This section describes how the operator can choose to include or exclude OPC in the SGSN-generated SCCP calling-party-address if the routing indicator is 'Route on GT'.

```
config
  context context_name
    gs-service gs_srvc_name
      vlr vlr_name isdn-number E164_num [exclude-opc-in-sccp] {point-code
pt_code
      | bssap+ ssn ssn [exclude-opc-in-sccp] [point-code pt_code]}
    exit
```

Notes:

- The **vlr** command is used to define the configuration of the VLR used in the GS Service. A new keyword **exclude-opc-in-sccp** is introduced in the **vlr** command under the GS Service Configuration Mode. The operator can configure this command to exclude or include OPC in the SGSN-generated SCCP calling-party-address for "route-on-gt".
- By default this keyword is not enabled and the OPC is included in the SCCP calling party address for "route-on-gt".

Verifying the Configuration

Execute the following command to verify the configuration of this feature.

```
show gs-service service-name
```

The new counter **OPC in SCCPCallingParty** Address is introduced which indicates if the **vlr** command is configured to either include or exclude OPC in the SCCP Calling Party Address if the routing indicator is 'Route on GT'.

- OPC in SCCPCallingParty Address: Included/Excluded