



## **GPRS Huawei SGSN V900R010C01 Functional Specification**

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# 1 Change History

Issue	Date	Author	Comments
1.0	23 Nov 2010	IBM	Released

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## 2 Outstanding Issues

Number	Date	Description	Planned Resolution
N/A			

## 3 Prerequisites

This section lists the Tech Pack modules that the current Tech Pack is dependent on, in alphabetical order.

- HUA GOMlet
- Neutral Core GOM
- Neutral GPRS/UMTS CN GOM
- Neutral GPRS BSS GOM
- Neutral GSM BSS/NSS GOM
- Neutral UMTS UTRAN GOM
- PGM GOMlet

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## 4 Network Model

This section describes the network objects (logical and physical) that are referenced in this technology pack module's data model.

### 4.1 APN

Access Point Names representing each external network interface to the GGSN. Information about which of these external networks an individual subscriber is allowed to access is stored as an APN list in their HLR profile.

This object is used for Data Availability tracking

Attribute Name	Description	Type	Related Object	Aggregator
APN_Id	A unique identifier for the APN.	STRING		
APN_Name	A user friendly name preferably unique for the APN.	STRING		
GGSN_Id	A unique identifier for the GGSN.	STRING	GGSN	
Region_Id	Region associated with the APN.	STRING	Region	
Network_Id	Network associated with the APN.	STRING	Network	
APN_Type	Type of APN.	STRING		
APN_Version	Hardware/Software version of the APN.	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

### 4.2 ATM\_Port

The logical interface used by Asynchronous Transmission Mode technology.

Attribute Name	Description	Type	Related Object	Aggregator
ATM_Port_Id	A unique identifier for the ATM Port.	STRING		

ATM_Port_Name	A user friendly name preferably unique for the ATM Port.	STRING		
Region_Id	Region associated with the ATM Port.	STRING	Region	
Network_Id	Network associated with the ATM Port.	STRING	Network	
Node_Id	A unique identifier for the Node.	STRING		
ATM_Port_Type	Type of ATM Port.	STRING		
ATM_Port_Version	Hardware/Software version of the ATM Port.	STRING		
Node_Name	A user friendly name preferably unique for the Node.	STRING		
Node_Type	Type of the Node.	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

### 4.3 BFD\_Session

Bidirectional Forwarding Detection (BFD) Session

Attribute Name	Description	Type	Related Object	Aggregator
BFD_Session_Id	Primary identifier of the BFD Session	STRING		
BFD_Session_Name	Meaningful name of the BFD session	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the network	STRING	Network	

### 4.4 BSS\_NSE

BSS NSE

Attribute Name	Description	Type	Related Object	Aggregator
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BSS_NSE_Id	Primary identifier of the BSSID NSEI	STRING		
BSS_NSE_Name	Meaningful name of the BSSID NSEI	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the network	STRING	Network	

## 4.5 Cell

The Cell handles the radio interface to the mobile station. The Cell is the radio equipment (transceivers and antennas) needed to service each cell in the network. A group of Cells is controlled by a BSC.

Attribute Name	Description	Type	Related Object	Aggregator
Cell_Id	A unique identifier for the Cell.	STRING		
Cell_Name	A user friendly name preferably unique for the Cell.	STRING		
PCU_Id	A unique identifier for the PCU.	STRING	PCU	
NSVC_Id	A unique identifier for the NSVC.	STRING	NSVC	
Routing_Area_Id	A unique identifier for the Routing_Area.	STRING	Routing_Area	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
Registration_Area_Id	A unique identifier for the Registration_Area.	STRING	Registration_Area	
BS_Id	A unique identifier for the BS at which the Cell is located. The BS at which the cell is located.	STRING	BS	
LAC_Id	The Location Area Code encompassing the Cell.	STRING	LAC	
BSC_Id	A unique identifier for the BSC.	STRING	RNC	
MSC_Id	A unique identifier for the MSC.	STRING	MSC	
Region_Id	Region associated with the Cell.	STRING	Region	
Network_Id	Network associated with the Cell.	STRING	Network	
GPRS_Cell_Id	A unique identifier for the Cell.	STRING	Cell	
UMTS_Cell_Id	A unique identifier for the Cell.	STRING	Cell	

Cell_Type	Is the cell omni_directional, or a sector, or micro/pico/macro/umbrella cell, etc.	STRING		
Defined_TRX	Number of defined TRX belonging to the cell.	INTEGER		
Defined_TCH	Number of defined TCH channels of the Cell.	INTEGER		
Defined_CCH	Number of defined CCH channels for the Cell.	INTEGER		
Max_Power	The bs_tx_pwr_max configuration attribute.	FLOAT		
Segment_Id	A unique identifier for the Segment.	STRING		
Cell_Version	Hardware/Software version of the Cell.	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		
Cell_Description	Description of Cell.	STRING		
NSVC_CN_Id	A unique identifier for the NSVC CN.	STRING		
BVC_Id	A unique identifier for the BVC.	STRING		
Defined_PDCH	Designated Packet Data Channel.	INTEGER		
Dedicated_PDCH	Dedicated Packet Data Channel.	INTEGER		
UTRAN_Absolute_Radio_Freq_UL	UL UTRAN absolute Radio Frequency Channel number.	STRING		
UTRAN_Absolute_Radio_Freq_DL	DL UTRAN absolute Radio Frequency Channel number.	STRING		
Primary_Scrambling_Code	Primary DL scrambling code.	STRING		
Primary_Common_Pilot_Ch_Power	Primary CPICH channel power.	FLOAT		
Primary_Sync_Ch_Power	Primary synchronisation channel power, DL.	FLOAT		

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Secondary_Sync_Ch_Power	Secondary synchronisation channel power, DL.	STRING		
BCH_Power	Broadcast channel power.	STRING		

## 4.6 CG\_IP\_Port

Charging Gateway IP address Port

Attribute Name	Description	Type	Related Object	Aggregator
CG_IP_Port_Id	Primary identifier of the Charging Gateway IP address	STRING		
CG_IP_Port_Name	Meaningful name of the CG IP	STRING		
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the network	STRING	Network	
CG_IP_Id	Identifier of the Charging Gateway IP Address	STRING		
GTP_bearing_protocol	GTP bearing protocol	STRING		

## 4.7 DNS

The Domain Name Server is responsible for maintaining the addresses of all networks and nodes and the IP address translation for them.

Attribute Name	Description	Type	Related Object	Aggregator
DNS_Id	A unique identifier for the DNS.	STRING		
DNS_Name	A user friendly name preferably unique for the DNS.	STRING		
Region_Id	A unique identifier for the DNS.	STRING	Region	
Network_Id	Network associated with the DNS.	STRING	Network	
DNS_Version	Hardware/Software version of the DNS.	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

## 4.8 Gb\_Fwd\_Channel

2G backup data forward channel

Attribute Name	Description	Type	Related Object	Aggregator
Gb_Fwd_Channel_Id	Primary identifier of the Gb Forward Channel	STRING		
Gb_Fwd_Channel_Name	Meaningful name of the Gb Forward Channel	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the network	STRING	Network	

## 4.9 GGSN\_IP

GGSN IP

Attribute Name	Description	Type	Related Object	Aggregator
GGSN_IP_Id	Primary identifier of the GGSN IP address	STRING		
GGSN_IP_Name	Meaningful name of the GGSN IP	STRING		
GGSN_Id	Identifier of the GGSN	STRING	GGSN	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the network	STRING	Network	
Technology	Technology of the SGSN	STRING		

## 4.10 GnGp\_IPV4

GnGp IP V4

Attribute Name	Description	Type	Related Object	Aggregator
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GnGp_IPV4_Id	Primary identifier of the Gn Gp IP address	STRING		
GnGp_IPV4_Name	Meaningful name of the Gn Gp IP address	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	

## 4.11 GnGp\_IPV6

GnGp IP V6

Attribute Name	Description	Type	Related Object	Aggregator
GnGp_IPV6_Id	Primary identifier of the GnGp IP Address	STRING		
GnGp_IPV6_Name	Meaningful name of the GnGp IP Address	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the Region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	

## 4.12 Heartbeat\_Channel

2G backup heartbeat channel

Attribute Name	Description	Type	Related Object	Aggregator
Heartbeat_Channel_Id	Primary identifier of the heartbeat channel	STRING		
Heartbeat_Channel_Name	Meaningful name of the heartbeat channel	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the network	STRING	Network	

## 4.13 IMSI

International Mobile Station Identifier

Attribute Name	Description	Type	Related Object	Aggregator
IMSI_Id	Primary identifier of the International Mobile Station Identifier	STRING		
IMSI_Name	Meaningful name of the International Mobile Station Identifier	STRING		
Network_Id	Network associated with the IMSI	STRING	Network	
IMSI_Info	Optional free information and description for the IMSI	STRING		

#### 4.14 IP\_Security

IP Security (IPSec)

Attribute Name	Description	Type	Related Object	Aggregator
IP_Security_Id	Primary identifier of the IPSec	STRING		
IP_Security_Name	Meaningful name of the IPSec	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the Region	STRING	Region	
Network_Id	Identifier of the network	STRING	Network	

#### 4.15 M3UA\_Dest

M3UA Dest

Attribute Name	Description	Type	Related Object	Aggregator
M3UA_Dest_Id	Primary identifier of the M3UA Destination Point Code (DPC)	STRING		
M3UA_Dest_Name	Meaningful name of the M3UA DPC	STRING		
BSC_Id	A unique identifier for the BSC.	STRING	BSC	
MSC_Id	A unique identifier for the MSC.	STRING	MSC	

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MGW_Id	A unique identifier for the MGW.	STRING	MGW	
RNC_Id	A unique identifier for the RNC.	STRING	RNC	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	
Node_Id	Identifier of the node (e.g. SGSN or MSC)	STRING		
Node_Type	Type of the node (e.g. SGSN or MSC)	STRING		

#### 4.16 M3UA\_Link

M3UA (MTP3 User Adaption Layer Protocol) link

Attribute Name	Description	Type	Related Object	Aggregator
M3UA_Link_Id	Identifier of the M3UA link	STRING		
M3UA_Link_Name	User friendly name of M3UA link	STRING		
Region_Id	Region associated with M3UA link	STRING	Region	
Network_Id	Network associated with M3UA link	STRING	Network	
M3UA_LinkSet_Id	Identifier of the M3UA LinkSet.	STRING	M3UA_LinkSet	
Node_Id	Node identifier associated with this M3UA link	STRING		
Node_Type	The type of the Node associated with the M3UA Link	STRING		
Node_Name	The name of the Node associated with the M3UA Link	STRING		
Link_Number	LNKN for M3UA link	STRING		
Module_Number	Module identifier for M3UA link	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		
M3UA_Dest_Id	Identifier of the M3UA Destination Point.	STRING		

## 4.17 M3UA\_LinkSet

M3UA (MTP3 User Adaption Layer Protocol) linkSet

Attribute Name	Description	Type	Related Object	Aggregator
M3UA_LinkSet_Id	Unique identifier for M3UA linkset	STRING		
M3UA_LinkSet_Name	User friendly name for M3UA link	STRING		
BSC_Id	A unique identifier for the BSC.	STRING	BSC	
MSC_Id	A unique identifier for the MSC.	STRING	MSC	
MGW_Id	A unique identifier for the MGW.	STRING	MGW	
RNC_Id	A unique identifier for the RNC.	STRING	RNC	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
M3UA_Dest_Id	Identifier of the M3UA Destination Point	STRING	M3UA_Dest	
Region_Id	Identifier of the Region	STRING	Region	
Network_Id	Network associated with M3UA link	STRING	Network	
Node_Id	The Node (MSC, MGW) that this M3UA LinkSet is connected to (at this end).	STRING		
Node_Type	The type of the Node associated with the M3UA Linkset	STRING		
Node_Name	The Name of the Node associated with the M3UA Linkset	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

## 4.18 MTP3\_Link

MTP3 Link

Attribute Name	Description	Type	Related Object	Aggregator
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MTP3_Link_Id	Primary Identifier of the MTP3 link.	STRING		
MTP3_Link_Name	Meaningful name for the MTP3 Link	STRING		
MTP3_LinkPoint_Id	Identifier of the MTP3 DPC.	STRING	MTP3_LinkPoint	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	
MTP3_LinkSet_Id	Identifier of the MTP3 LinkSet.	STRING	MTP3_LinkSet	
Node_Id	Identifier of the Node (e.g. SGSN or MSC)	STRING		
Node_Type	Type of the Node (e.g. SGSN or MSC)	STRING		
Node_Name	The name of the Node associated with the MTP3 Link	STRING		
Link_Number	LNKN for MTP3 link	STRING		
Module_Number	Module identifier for MTP3 link	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

## 4.19 MTP3\_LinkPoint

MTP3 LinkPoint

Attribute Name	Description	Type	Related Object	Aggregator
MTP3_LinkPoint_Id	Primary identifier of the MTP3 DPC.	STRING		
MTP3_LinkPoint_Name	Meaningful name of the MTP3 DPC	STRING		
BSC_Id	A unique identifier for the BSC.	STRING	BSC	
MGW_Id	A unique identifier for the MGW.	STRING	MGW	
RNC_Id	A unique identifier for the RNC.	STRING	RNC	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
MSC_Id	A unique identifier for the MSC.	STRING	MSC	
Region_Id	Identifier of the Region	STRING	Region	

Network_Id	Identifier of the network	STRING	Network	
Node_Id	Identifier of the Node (e.g. SGSN or MSC)	STRING		
Node_Type	Type of the Node	STRING		

## 4.20 MTP3\_LinkSet

### MTP3 LinkSet

Attribute Name	Description	Type	Related Object	Aggregator
MTP3_LinkSet_Id	Primary identifier of the MTP3 LinkSet.	STRING		
MTP3_LinkSet_Name	Meaningful name of the MTP3 LinkSet.	STRING		
BSC_Id	A unique identifier for the BSC.	STRING	BSC	
MGW_Id	A unique identifier for the MGW.	STRING	MGW	
RNC_Id	A unique identifier for the RNC.	STRING	RNC	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
MSC_Id	A unique identifier for the MSC.	STRING	MSC	
MTP3_LinkPoint_Id	Identifier of the MTP3 DPC.	STRING	MTP3_LinkPoint	
Region_Id	Identifier of the Region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	
Node_Id	Identifier of the Node (e.g. SGSN or MSC)	STRING		
Node_Type	Type of the Node	STRING		
Node_Name	The Name of the Node associated with the MTP3 Linkset	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

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## 4.21 MTP3\_Route

A MTP3 Signalling Route is a path from one point to another in the signalling network. It is implemented by a number of LinkSets.

Attribute Name	Description	Type	Related Object	Aggregator
MTP3_Route_Id	A unique identifier for the Route IF.	STRING		
MTP3_Route_Name	A user friendly name preferably unique for the Route IF.	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Region associated with the Route IF.	STRING	Region	
Network_Id	Network associated with the Route IF.	STRING	Network	
Source_Id	A unique identifier for the Node (MGW) at this end of the connection.	STRING	MGW	
Target_Id	A unique identifier for the Node at the other end of the connection.	STRING		
Source_Type	Type of Source (e.g. MGW).	STRING		
Target_Type	Type of Target.	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		
Node_Id	Node ID of the MTP3_Route	STRING		

## 4.22 MTP3B\_Link

MTP3B link

Attribute Name	Description	Type	Related Object	Aggregator
MTP3B_Link_Id	Primary identifier of the MTP3B link.	STRING		
MTP3B_Link_Name	Meaningful name of the MTP3B link	STRING		
MTP3B_LinkPoint	Identifier of the MTP3B Link Point.	STRING	MTP3B_Point	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	
MTP3B_LinkSet_Id	Identifier of the MTP3B LinkSet.	STRING	MTP3B_LinkSet	

			inkSet	
Node_Id	Identifier of the Node (e.g. SGSN or MSC)	STRING		
Node_Type	Type of the Node (e.g. SGSN or MSC)	STRING		
Node_Name	The name of the Node associated with the MTP3B Link	STRING		
Link_Number	LNKN for MTP3B link	STRING		
Module_Number	Module identifier for MTP3B link	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

## 4.23 MTP3B\_LinkSet

MTP3B LinkSet

Attribute Name	Description	Type	Related Object	Aggregator
MTP3B_LinkSet_Id	Primary identifier of the MTP3B Link Set.	STRING		
MTP3B_LinkSet_Name	Meaningful name for the MTP3B LinkSet	STRING		
MGW_Id	A unique identifier for the MGW.	STRING	MGW	
RNC_Id	A unique identifier for the RNC.	STRING	RNC	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
MSC_Id	A unique identifier for the MSC.	STRING	MSC	
MTP3B_LinkPoint_Id	Identifier of the MTP3B DPC.	STRING	MTP3B_Point	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	
Node_Id	Identifier of the Node (e.g. SGSN or MSC)	STRING		

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Node_Type	Type of the Node	STRING		
Node_Name	The Name of the Node associated with the MTP3B Linkset	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

## 4.24 MTP3B\_Point

MTP3B Point

Attribute Name	Description	Type	Related Object	Aggregator
MTP3B_Point_Id	Primary Identifier of the MTP3B Point.	STRING		
MTP3B_Point_Name	Meaningful name for the MTP3B Point	STRING		
MGW_Id	A unique identifier for the MGW.	STRING	MGW	
RNC_Id	A unique identifier for the RNC.	STRING	RNC	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
MSC_Id	A unique identifier for the MSC.	STRING	MSC	
Region_Id	Identifier of the Region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	
Node_Id	Identifier of the Node (e.g. SGSN or MSC)	STRING		
Node_Type	Type of the Node (e.g. SGSN or MSC)	STRING		

## 4.25 MVNO

Mobile Virtual Network Operator.

Attribute Name	Description	Type	Related Object	Aggregator
MVNO_Id	Unique identifier for MVNO	STRING		
MVNO_Name	User friendly name for MVNO	STRING		
Network_Id	Network associated with this element	STRING	Network	
MVNO_Type	Type for MVNO (e.g. Partner)	STRING		
Technology	Technology of the network/element	STRING		

## 4.26 Network

Network information.

Attribute Name	Description	Type	Related Object	Aggregator
Network_Id	A unique identifier for the Network.	STRING		
Network_Name	A user friendly name preferably unique for the Network.	STRING		
Network_Type	Type of Network (e.g. GSM-900, GSM-1800 or GSM-1900).	STRING		
Default_Link_Speed	The default speed of SS7 Signalling Links in this network.	FLOAT		

## 4.27 NSE

Network service entity.

Attribute Name	Description	Type	Related Object	Aggregator
NSE_Id	Identifier of the network service element.	STRING		
NSE_Name	Name of the NSE.	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
PCU_Id	Identifier of the PCU.	STRING	PCU	
Region_Id	Region of the network node.	STRING	Region	
Network_Id	Network of the network node.	STRING	Network	
SGSN_Name	Meaningful name for the SGSN	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

## 4.28 NSVC\_IP

NSVC IP

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Attribute Name	Description	Type	Related Object	Aggregator
NSVC_IP_Id	Primary identifier of the Network Service Virtual Connection IP address	STRING		
NSVC_IP_Name	Meaningful name of the Network Service Virtual Connection IP address	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the Region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	
NSVC_Id	Identifier of the NS-VC	STRING		

## 4.29 NSVC

Network Service - Linking a GPRS PCU to an SGSN.

Attribute Name	Description	Type	Related Object	Aggregator
NSVC_Id	A unique identifier for the NSVC.	STRING		
NSVC_Name	A user friendly name preferably unique for the NSVC.	STRING		
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
PCU_Id	A unique identifier for the PCU.	STRING	PCU	
Bearer_Id	A unique identifier for the Bearer.	STRING	Bearer	
DLCI_Id	A unique identifier for the DLCI.	STRING	DLCI	
Region_Id	Region associated with the NSVC.	STRING	Region	
Network_Id	Network associated with the NSVC.	STRING	Network	
NSE_Id	A unique identifier for the NSE.	STRING		
NSE_Name	A user friendly name preferably unique for the NSE.	STRING		
CIR	Committed Information Rate of the NSVC.	STRING		
DLCI_CN_Id	A unique identifier for the DLCI CN.	STRING		
Bearer_CN_Id	A unique identifier for the Bearer CN.	STRING		

Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		
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### 4.30 Region

A user defined grouping of network elements.

Attribute Name	Description	Type	Related Object	Aggregat or
Region_Id	Region associated with the network object.	STRING		
Region_Name	A user friendly name preferably unique for the Region.	STRING		
Network_Id	Network associated with the Region.	STRING	Network	

### 4.31 RNC

The Radio Network Controller provides all the control functions and physical links between the MSC (and/or SGSN) and Cell. It switches circuit/packet data & provides functions such as handover, cell configuration data & control of RF power levels in base transceiver stations.

Attribute Name	Description	Type	Related Object	Aggregat or
RNC_Id	A unique identifier for the RNC.	STRING		
RNC_Name	A user friendly name preferably unique for the RNC.	STRING		
MSC_Id	The MSC to which this RNC is connected.	STRING	MSC	
Region_Id	Region associated with the RNC.	STRING	Region	
Network_Id	Network associated with the RNC.	STRING	Network	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
RNC_Version	Hardware/Software version of the RNC.	STRING		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

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### 4.32 Routing\_Area

For purposes of GPRS/UMTS mobility management the concept of Routing Area has been added to the basic concepts of GSM (cf. Location Area). It can be thought of as an IP sub-network and is always served by just one SGSN.

This object is used for Data Availability tracking

Attribute Name	Description	Type	Related Object	Aggregator
Routing_Area_Id	A unique identifier for the Routing_Area.	STRING		
Routing_Area_Name	A user friendly name preferably unique for the Routing_Area.	STRING		
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
Region_Id	Region associated with the Routing_Area.	STRING	Region	
LAC_Id	A unique identifier for the LAC.	STRING	LAC	
Network_Id	Network associated with the Routing_Area.	STRING	Network	
SGSN_Unit_Id	A unique identifier for the SGSN Unit.	STRING		

### 4.33 SGSN\_Board

SGSN CPU Board

Attribute Name	Description	Type	Related Object	Aggregator
SGSN_Board_Id	Primary identifier of the SGSN Board	STRING		
SGSN_Board_Name	Meaningful name for the SGSN Board	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the SGSN region	STRING	Region	
Network_Id	Identifier of the Network	STRING	Network	

### 4.34 SGSN\_PLMN

SGSN Public Land Mobile Network (PLMN)

Attribute Name	Description	Type	Related Object	Aggregator
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SGSN_PLMN_Id	Primary identifier of the SGSN PLMN	STRING		
SGSN_PLMN_Name	Meaningful name of the SGSN PLMN	STRING		
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Region_Id	Identifier of the region	STRING	Region	
Network_Id	Identifier of the network	STRING	Network	

### 4.35 SGSN\_VLAN

SGSN Virtual Local Area Network (VLAN)

Attribute Name	Description	Type	Related Object	Aggregator
SGSN_VLAN_Id	A unique identifier for the SGSN VLAN.	STRING		
SGSN_VLAN_Name	A user friendly name preferably unique for SGSN VLAN.	STRING		
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
Region_Id	Region associated with the SGSN VLAN.	STRING	Region	
Network_Id	Network associated with the SGSN VLAN.	STRING	Network	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

### 4.36 SGSN

The Serving GPRS Support Node connects one or more BSCs/PCUs/RNCs to the GPRS/UMTS backbone network, providing IP connectivity to the GGSN on the one hand and converting IP traffic to and from the formats and protocols used by the BSS.

Attribute Name	Description	Type	Related Object	Aggregator
SGSN_Id	A unique identifier for the SGSN.	STRING		
SGSN_Name	A user friendly name preferably unique for the SGSN.	STRING		

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Region_Id	Region associated with the SGSN.	STRING	Region	
Network_Id	Network associated with the SGSN.	STRING	Network	
SGSN_IP_address	IP Address of the SGSN.	STRING		
SGSN_Version	Hardware/Software version of the SGSN.	STRING		
Max_Subscriber	Maximum number of subscribers supported by the SGSN.	INTEGER		
Max_PDP	Maximum number of PDP sessions supported by the SGSN.	INTEGER		
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

### 4.37 System\_Resource

SGSN system resource

Attribute Name	Description	Type	Related Object	Aggregator
System_Resource_Id	Primary Identifier of the system resource	STRING		
System_Resource_Name	Meaningful name of the System Resource	STRING		
Region_Id	Identifier of the region	STRING	Region	
SGSN_Id	Identifier of the SGSN	STRING	SGSN	
Network_Id	Identifier of the network	STRING	Network	
Slot_Number	Slot number of the process	STRING		
Process_Type	Type of process	STRING		

### 4.38 UPIU\_Port

UPIU Port of the SGSN

Attribute Name	Description	Type	Related Object	Aggregator
UPIU_Port_Id	A unique identifier for the UPIU Port	STRING		
UPIU_Port_Name	A user friendly name preferably unique for the UPIU Port.	STRING		

SGSN_Id	Identifier of the SGSN.	STRING	SGSN	
Region_Id	Region associated with the UPIU Port.	STRING	Region	
Network_Id	Network associated with the UPIU Port.	STRING	Network	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

### 4.39 VLR\_SGSN

VLR SGSN

Attribute Name	Description	Type	Related Object	Aggregator
VLR_SGSN_Id	A unique identifier for the VLR SGSN.	STRING		
VLR_SGSN_Name	A user friendly name preferably unique for VLR SGSN.	STRING		
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN	
Region_Id	Region associated with the VLR SGSN.	STRING	Region	
Network_Id	Network associated with the VLR SGSN.	STRING	Network	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING		

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## 5 Busy Hours

This section lists the busy hours that are defined in this technology pack, grouped by the network object to which they relate, as follows:

Each of the busy hours listed can be referenced within this document by way of a busy hour acronym, which is included in the table below.

- [APN](#)
- [BSS\\_NSE](#)
- [Cell](#)
- [M3UA\\_Link](#)
- [MTP3\\_Link](#)
- [MTP3\\_LinkSet](#)
- [MTP3B\\_Link](#)
- [NSVC](#)
- [SGSN](#)
- [SGSN\\_Board](#)

### 5.1 APN Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_APN_Throughput_Busy_Hour	APN.Huawei.Data_packet_with_APN.Avg_data_throug hput	huatrafbh

### 5.2 BSS\_NSE Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_BSS_NSE_Packets_Busy_Hour	BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_M ean_Throughput	hubnsepbh

### 5.3 Cell Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_Cell_Packets_Busy	Cell.Huawei.BSSGP_with_Cell.Data_pkts_from_NS_an	hucpchbh

_Hour	d_LLC	
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## 5.4 M3UA\_Link Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_M3UA_Link_Traffic_Busy_Hour	M3UA_Link.Huawei.M3UA_link.Msg_sent_and_received	hum3uatbh

## 5.5 MTP3\_Link Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_MTP3_Link_Traffic_Busy_Hour	MTP3_Link.Huawei.MTP3_link.MTP3_MSU_sent_received	humtp3tbh

## 5.6 MTP3\_LinkSet Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_LinkSet_Sent_Erl_Busy_Hour	MTP3_LinkSet.Huawei.MTP3_link_set.MTP3_link_set_send_load_erl	hulsoutbh
Huawei_LinkSet_Received_Erl_Busy_Hour	MTP3_LinkSet.Huawei.MTP3_link_set.MTP3_link_set_receive_load_erl	hulsinbh

## 5.7 MTP3B\_Link Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_MTP3B_Link_Traffic_Busy_Hour	MTP3B_Link.Huawei.MTP3B_Link.MTP3B_MSUs	humtp3btbh

## 5.8 NSVC Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_NSVC_Packets_Busy_Hour	NSVC.Huawei.NS_with_Specific_NSVC.DL_and_UL_pkts	hunspbh

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## 5.9 SGSN Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_SGSN_Traffic_Busy_Hour	SGSN.Huawei.SGSN_LLC.LLC_data_pkts_BSSGP_and_SNDGP	hustrafbh

## 5.10 SGSN\_Board Busy Hours

Busy Hour Name	Defining KPI	Acronym
Huawei_Board_CPU_Busy_Hour	SGSN_Board.Huawei.SGSN_Resource.Avg_CPU_occupation_ratio	hubcpubh

## 6 Performance Indicators

This section lists the performance indicators (both one-to-one counter mappings, and complex KPIs) that are defined in this technology pack module, grouped by the network object to which they relate, as follows:

- [APN](#)
- [ATM\\_Port](#)
- [BFD\\_Session](#)
- [BSS\\_NSE](#)
- [Cell](#)
- [CG\\_IP\\_Port](#)
- [DNS](#)
- [Gb\\_Fwd\\_Channel](#)
- [GGSN\\_IP](#)
- [GnGp\\_IPV4](#)
- [GnGp\\_IPV6](#)
- [Heartbeat\\_Channel](#)
- [IMSI](#)
- [IP\\_Security](#)
- [M3UA\\_Dest](#)
- [M3UA\\_Link](#)
- [M3UA\\_LinkSet](#)
- [MTP3\\_Link](#)
- [MTP3\\_LinkPoint](#)
- [MTP3\\_LinkSet](#)
- [MTP3\\_Route](#)
- [MTP3B\\_Link](#)
- [MTP3B\\_LinkSet](#)
- [MTP3B\\_Point](#)
- [MVNO](#)
- [NSE](#)
- [NSVC](#)
- [NSVC\\_IP](#)
- [RNC](#)

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- [Routing\\_Area](#)
- [SGSN](#)
- [SGSN\\_Board](#)
- [SGSN\\_PLMN](#)
- [SGSN\\_VLAN](#)
- [System\\_Resource](#)
- [UPIU\\_Port](#)
- [VLR\\_SGSN](#)

## 6.1 APN Performance Indicators

- [APN.Huawei.GPRS.Data\\_packet\\_with\\_APN](#)
- [APN.Huawei.GPRS.Gb\\_Mode\\_PDP\\_Context\\_Activation\\_with\\_APN](#)
- [APN.Huawei.GPRS.Gb\\_Mode\\_SM\\_Resource\\_with\\_APN](#)
- [APN.Huawei.GPRS.Iu\\_Mode\\_PDP\\_Context\\_Activation\\_with\\_APN](#)
- [APN.Huawei.GPRS.Iu\\_Mode\\_SM\\_Resource\\_with\\_APN](#)

### 6.1.1 APN.Huawei.GPRS.Data\_packet\_with\_APN

Data packet with APN measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Avg_data_throughput	hua_data_packet_apn_tab.xnwunpgtxfbioebdn34hiwr	FLOAT	Kbytes/s	Average throughput of uplink and downlink data packets related to a specific APN.	Average	Average, Maximum, Minimum, Sum
Avg_DL_data_throughput	hua_data_packet_apn_tab.scfk0iiqn4bshdv3e5ajyu2mn5	FLOAT	Kbytes/s	Average throughput of downlink data packets related to a specific APN.	Average	Average, Maximum, Minimum, Sum
Avg_UL_data_throughput	hua_data_packet_apn_tab.ys5b2sftb0cclr3cuonda3horj	FLOAT	Kbytes/s	Average throughput of uplink data packets related	Average	Average, Maximum

				to a specific APN.		m, Minimum, Sum
DL_data_throughput_with_specific	hua_data_packet_apn_tab.rigs2o4oagc3dd66yvq1fyietj	INT8	Kbytes	Total throughput of downlink data packets related to a specific APN.	Average	Average, huatrafbh, Maximum, Minimum, Sum
Max_DL_data_throughput	hua_data_packet_apn_tab.skemir06n4c6ututqt5iojb52y	FLOAT	Kbytes/s	Peak throughput of downlink data packets related to a specific APN.	Constant	Average, huatrafbh, Maximum, Minimum, Sum
Max_UL_data_throughput	hua_data_packet_apn_tab.u1veg1gea0c3se2tpv32hlcx5b	FLOAT	Kbytes/s	Peak throughput of uplink data packets related to a specific APN.	Constant	Average, huatrafbh, Maximum, Minimum, Sum
UL_data_throughput_with_specific	hua_data_packet_apn_tab.yxsgis051ocy5shihh2xwj2fep	INT8	Kbytes	Total throughput of uplink data packets related to a specific APN.	Average	Average, huatrafbh, Maximum, Minimum, Sum

### 6.1.2 APN.Huawei.GPRS.Gb\_Mode\_PDP\_Context\_Activation\_with\_APN

Gb Mode PDP Context Activation with APN measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Gb_PDP_sec_activation_reject_per_APN	hua_gb_mode_pdp_act_apn_tab.saan6mj3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context sec activation reject per APN	Sum	huatrafbh
Gb_secondary_PDP_act_per_APN	hua_gb_mode_pdp_act_apn_tab.saan6mr3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode secondary PDP context activation per APN	Sum	huatrafbh
MS_init_IPv4_PDP_ctx_act_reject	hua_gb_mode_pdp_act_apn_tab.saan6o03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode MS init IPv4 PDP context activation reject per APN	Sum	huatrafbh
MS_init_IPv4_PDP_ctx_act_success	hua_gb_mode_pdp_act_apn_tab.saan6n63xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode MS init IPv4 PDP context activation success per APN	Sum	huatrafbh
MS_init_IPv4_PDP_ctx_act	hua_gb_mode_pdp_act_apn_tab.saan6n43xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0	Sum	huatrafbh

				10.C01SPC022: Number of Gb mode MS init IPv4 PDP context activation per APN		
MS_init_IPV6_ PDP_ctx_act_re j	hua_gb_mode_pdp_act_ap n_tab.saan6o23xa2airvh00 2ind6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode MS init IPv6 PDP context activation reject per APN	Sum	huatrafbh
MS_init_IPV6_ PDP_ctx_act_s ucc	hua_gb_mode_pdp_act_ap n_tab.saan6nl3xa2airvh00 2ind6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode MS init IPv6 PDP context activation success per APN	Sum	huatrafbh
MS_init_IPV6_ PDP_ctx_act	hua_gb_mode_pdp_act_ap n_tab.saan6nj3xa2airvh00 2ind6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode MS init IPv6 PDP context activation per APN	Sum	huatrafbh
MS_init_PDP_a	hua_gb_mode_pdp_act_ap	INTEG	#	Obsolete from	Sum	huatrafbh

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ct_dynAdd_per _APN	n_tab.saan6lr3xa2airvh00 2ind6wbg	ER		CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode MS init PDP activation with dynamic addr per APN		
MS_init_PDP_a ct_rej_dyn_add	hua_gb_mode_pdp_act_ap n_tab.saan6o43xa2airvh00 2ind6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode MS init PDP activation reject with dynamic addr per APN	Sum	huatrafbh
MS_init_PDP_c ontext_act_reje ct	hua_gb_mode_pdp_act_ap n_tab.yv60biwyp3cl4cbyc i5h1bih0s	INTEG ER	#	Number of reject of MS- initiated PDP context activation.	Sum	huatrafbh
MS_init_PDP_c ontext_act_succ ess	hua_gb_mode_pdp_act_ap n_tab.rr0pi21anucdgehwip 12x0xahb	INTEG ER	#	Number of successes of MS-initiated PDP context activation.	Sum	huatrafbh
MS_init_PDP_c ontext_act	hua_gb_mode_pdp_act_ap n_tab.uc6i16b5oxct0t6dhv ko05qt54	INTEG ER	#	Number of requests of MS- initiated PDP context activation using static or dynamic PDP address.	Sum	huatrafbh
MS_init_PDPsu cc_dynAdd_per _APN	hua_gb_mode_pdp_act_ap n_tab.saan6lt3xa2airvh002 ind6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode MS init PDP activation	Sum	huatrafbh

				success with dynamic addr per APN		
Net_init_IPv4_PDP_act_succ	hua_gb_mode_pdp_act_ap n_tab.saan6nd3xa2airvh00 2ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode Network init IPv4 PDP context activation success per APN	Sum	huatrafbh
Net_init_IPV6_PDP_act_succ	hua_gb_mode_pdp_act_ap n_tab.saan6np3xa2airvh00 2ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode Network init IPV6 PDP context activation success per APN	Sum	huatrafbh
Net_init_PDP_act_succ_per_APN	hua_gb_mode_pdp_act_ap n_tab.saan6lp3xa2airvh00 2ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode Network init PDP context activation success per APN	Sum	huatrafbh
Network_init_IPv4_PDP_ctx_act	hua_gb_mode_pdp_act_ap n_tab.saan6nb3xa2airvh00 2ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0	Sum	huatrafbh

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				10.C01SPC022: Number of Gb mode Network init IPv4 PDP context activation per APN		
Network_init_IPV6_PDP_ctx_act	hua_gb_mode_pdp_act_apn_tab.saan6nn3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode Network init IPV6 PDP context activation per APN	Sum	huatrafbh
Network_init_PDP_act_per_APN	hua_gb_mode_pdp_act_apn_tab.saan6ln3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode Network init PDP context activation per APN	Sum	huatrafbh
PDP_act_fail_Ge_fail_per_APN	hua_gb_mode_pdp_act_apn_tab.saan6mh3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context activation failures(Ge failures) per APN	Sum	huatrafbh
PDP_act_fail_Unspecific_reason	hua_gb_mode_pdp_act_apn_tab.saan6nv3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb	Sum	huatrafbh

				mode PDP context activation failures (Unspecific reason) per APN		
PDP_fail_DNS_res_fail	hua_gb_mode_pdp_act_apn_tab.saan6m23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context activation failures(DNS resolution failures) per APN	Sum	huatrafbh
PDP_fail_insuff_net_res	hua_gb_mode_pdp_act_apn_tab.saan6m03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context activation failures(insufficient net resources) per APN	Sum	huatrafbh
PDP_fail_miss_unknown_APN	hua_gb_mode_pdp_act_apn_tab.saan6m43xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context activation failures(missing	Sum	huatrafbh

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				or unknown APN by GGSN) per APN		
PDP_fail_Operator_Barring	hua_gb_mode_pdp_act_apn_tab.saan6n03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context activation failures (Operator Determined Barring) per APN	Sum	huatrafbh
PDP_fail_QoS_nego_fail	hua_gb_mode_pdp_act_apn_tab.saan6lv3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context activation failures(QoS negotiation failures) per APN	Sum	huatrafbh
PDP_fail_rejected_by_GGSN_per_APN	hua_gb_mode_pdp_act_apn_tab.saan6lx3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context activation failures(rejected by GGSN) per APN	Sum	huatrafbh
PDP_fail_serv_unsubscribed_GG	hua_gb_mode_pdp_act_apn_tab.saan6mf3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0	Sum	huatrafbh

				10.C01SPC022: Number of Gb mode PDP context activation failures(service unsubscribed by GGSN) per APN		
PDP_fail_servic e_unsupported	hua_gb_mode_pdp_act_ap n_tab.saan6md3xa2airvh0 02ind6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode PDP context activation failures(service unsupported) per APN	Sum	huatrafbh
PDP_fail_unko wn_PDPAdd_P DPTyp	hua_gb_mode_pdp_act_ap n_tab.saan6m63xa2airvh0 02ind6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode PDP context activation failures(unkow n PDP addr or PDP type) per APN	Sum	huatrafbh
PDP_fail_user_ authen_fail	hua_gb_mode_pdp_act_ap n_tab.saan6mb3xa2airvh0 02ind6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Gb mode PDP context activation	Sum	huatrafbh

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				failures(user authentication failures) per APN		
PDP_sec_act_fail_Ugbi_Congestion	hua_gb_mode_pdp_act_apn_tab.saan6mx3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context sec activation failures (Ugbi PDP Conjestion) per APN	Sum	huatrafbh
PDP_sec_act_fail_unspec_Reason	hua_gb_mode_pdp_act_apn_tab.saan6nx3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context sec activation failures(Unspecified Reason) per APN	Sum	huatrafbh
PDP_sec_fail_Ge_fail	hua_gb_mode_pdp_act_apn_tab.saan6mp3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context sec activation failures(Ge failures) per APN	Sum	huatrafbh
PDP_sec_fail_GGSN_rej	hua_gb_mode_pdp_act_apn_tab.saan6mn3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb	Sum	huatrafbh

				mode PDP context sec activation failures(GGSN reject) per APN		
PDP_sec_fail_net_res_insuff	hua_gb_mode_pdp_act_apn_tab.saan6ml3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context sec activation failures(net resource insufficient) per APN	Sum	huatrafbh
PDP_sec_fail_Operator_Barring	hua_gb_mode_pdp_act_apn_tab.saan6n23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context sec activation failures (Operator Determined Barring) per APN	Sum	huatrafbh
PDP_sec_fail_Ugbi_PDP_Conjest	hua_gb_mode_pdp_act_apn_tab.saan6mv3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode PDP context sec failures (Ugbi PDP Conjestion) per	Sum	huatrafbh

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				APN		
Sec_IPv4_PDP_act_succ	hua_gb_mode_pdp_act_apn_tab.saan6nh3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode secondary IPv4 PDP context activation success per APN	Sum	huatrafbh
Sec_IPV6_PDP_act_succ	hua_gb_mode_pdp_act_apn_tab.saan6nt3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode secondary IPV6 PDP context activation success per APN	Sum	huatrafbh
Secondary_IPv4_PDP_ctx_act	hua_gb_mode_pdp_act_apn_tab.saan6nf3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode secondary IPv4 PDP context activation per APN	Sum	huatrafbh
Secondary_IPV6_PDP_ctx_act	hua_gb_mode_pdp_act_apn_tab.saan6nr3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode secondary IPV6 PDP context activation per APN	Sum	huatrafbh

Secondary_PDP_act_succ_per_APN	hua_gb_mode_pdp_act_apn_tab.saan6mt3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode secondary PDP context activation success per APN	Sum	huatrafbh
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### 6.1.3 APN.Huawei.GPRS.Gb\_Mode\_SM\_Resource\_with\_APN

Gb Mode SM Resource with APN measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Avg_act_PDP_context_by_APN	hua_gb_mode_sm_res_apn_tab.tvn0ehftkccamd1owtxoj3fgxo	FLOAT	#	Average number of 2G PDP contexts activated using specific APN.	Average	Average, huatrafbh, Maximum, Minimum, Sum
Avg_users_by_APN	hua_gb_mode_sm_res_apn_tab.ymdtfedib4byoby0ibmib2apxh	FLOAT	#	Average number of activated subscribers with the specified APN in Gb mode.	Average	Average, huatrafbh, Maximum, Minimum, Sum
Max_act_PDP_context_by_APN	hua_gb_mode_sm_res_apn_tab.s6c03pyr3mteucbpofhjuk45g	INTEGER	#	Maximum number of 2G PDP contexts activated using specific APN.	Constant	Average, huatrafbh, Maximum, Minimum

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						m, Sum
Max_users_by_APN	hua_gb_mode_sm_res_apn_tab.so2v1r3uqaboxsgd6h o4fkn41v	INTEGER	#	Maximum number of activated subscribers in Gb mode with the specified APN.	Constant	Average, huatrafbh, Maximum, Minimum, Sum
MS_PDP_context_activation_times_by_APN	hua_gb_mode_sm_res_apn_tab.rwdvj41oe32ahc3mb0 2incnmdw	INTEGER	milliseconds	Number of successful MS initiated PDP context activations with the specified APN.	Sum	huatrafbh, Sum
MS_PDP_context_Max_activation_delay_by_APN	hua_gb_mode_sm_res_apn_tab.r6bfhkcoe32ahc3mb0 2incnmdw	INTEGER	milliseconds	Maximum MS initiated PDP context activation duration in Gb mode based on APN.	Average	Average, huatrafbh, Maximum, Minimum, Sum
MS_PDP_context_Mean_activation_delay_by_APN	hua_gb_mode_sm_res_apn_tab.rk1skbooe32ahc3mb0 2incnmdw	FLOAT	milliseconds	Average MS initiated PDP context activation duration in Gb mode based on APN.	Average	Average, huatrafbh, Maximum, Minimum, Sum
MS_PDP_context_Total_activation_delay_by_APN	hua_gb_mode_sm_res_apn_tab.rwdvj43oe32ahc3mb0 2incnmdw	INTEGER	milliseconds	Total MS initiated PDP context activation duration with the specified APN in a measurement period.	Sum	huatrafbh, Sum

#### 6.1.4 APN.Huawei.GPRS.lu\_Mode\_PDP\_Context\_Activation\_with\_APN

Iu Mode PDP Context Activation with APN measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
MS_init_PDP_context_act_reject	hua_iu_mode_pdp_act_apn_tab.vnl0yxxr5bilu1f15qmunrgic	INTEGER	#	Number of rejected MS-initiated PDP context activations in a specified APN	Sum	huatrafbh, Sum
MS_init_PDP_context_act_success	hua_iu_mode_pdp_act_apn_tab.wtb4flqlsvc5ms3vt0eqwq5vye	INTEGER	#	Number of successful MS-initiated PDP context activations in a specified APN	Sum	huatrafbh, Sum
MS_init_PDP_context_act	hua_iu_mode_pdp_act_apn_tab.yrukaw1xglc53dhq0fpstbfpu0	INTEGER	#	Number of MS-initiated PDP context activation attempts in a specified APN	Sum	huatrafbh, Sum

### 6.1.5 APN.Huawei.GPRS.Iu\_Mode\_SM\_Resource\_with\_APN

Iu Mode SM Resource with APN measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Avg_act_PDP_context_by_APN	hua_iu_mode_sm_res_apn_tab.s4xgsm0smfbyue3vwyqw36hcjp	FLOAT	#	Average number of 3G PDP contexts activated using specific APN.	Average	Average, huatrafbh, Maximum, Minimum, Sum
Avg_users_by_APN	hua_iu_mode_sm_res_apn_tab.ymv2rp3yodcoee45fiq	FLOAT	#	Average number of	Average	Average, huatrafbh

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	i63hxiuw			activated subscribers in Iu mode with the specified APN.		' Maximum, Minimum, Sum
Max_act_PDP_context_by_APN	hua_iu_mode_sm_res_apn_tab.shlkpugffdb4oemf251cl0xqku	INTEGER	#	Maximum number of 3G PDP contexts activated using specific APN.	Constant	Average, huatrafbh, Maximum, Minimum, Sum
Max_users_by_APN	hua_iu_mode_sm_res_apn_tab.ritly2iujfce4bsm0afn6jgidg	INTEGER	#	Maximum number of activated subscribers in Iu mode with the specified APN.	Constant	Average, huatrafbh, Maximum, Minimum, Sum
MS_init_PDP_context_Max_act_dur	hua_iu_mode_sm_res_apn_tab.y3ejrv5bn6bvdca0cqpuaia0wjc	INTEGER	ms	Maximum MS initiated PDP context activation duration in Iu mode based on APN.	Constant	Average, huatrafbh, Maximum, Minimum, Sum
MS_init_PDP_context_Mean_act_dur	hua_iu_mode_sm_res_apn_tab.sujuo0yrxbhdd241efqt4ckeak	FLOAT	ms	Average MS initiated PDP context activation duration in Iu mode based on APN.	Average	Average, huatrafbh, Maximum, Minimum, Sum
MS_PDP_context_act_times	hua_iu_mode_sm_res_apn_tab.yo2g401b4jbfgcbw2qlit3mbqo	INTEGER	#	Number of successful MS initiated PDP context activations with the specified APN.	Sum	huatrafbh, Sum
MS_PDP_context_Total_act_	hua_iu_mode_sm_res_apn_tab.xivjq50iikb2lt2jrxagh	INTEGER	ms	Total MS initiated PDP	Sum	huatrafbh, Sum

dur	ubsr1			context activation duration with the specified APN in a measurement period.		
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## 6.2 ATM\_Port Performance Indicators

- [ATM\\_Port.Huawei.GPRS.ATM\\_SGSN\\_port](#)

### 6.2.1 ATM\_Port.Huawei.GPRS.ATM\_SGSN\_port

ATM port measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Cells_received_normally	hua_atm_port_tab.voxar3abfdboxdm56m11xnpekb	INTEGER	#	Number of cells that ATM port receives successfully.	Sum	Sum
Cells_sent_normally	hua_atm_port_tab.r2ko5ppg5fby6txgwjhuq4cr1v	INTEGER	#	Number of cells that ATM port sends successfully.	Sum	Sum

## 6.3 BFD\_Session Performance Indicators

- [BFD\\_Session.Huawei.GPRS.BFD\\_session](#)

### 6.3.1 BFD\_Session.Huawei.GPRS.BFD\_session

BFD session measurements

KPI Name	Expression	Data	Units	Description	Default	Other
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		Type			Aggregator	Aggregators
Down_on_special_BFD_session	hua_m117440715_tab.saa n6wd3xa2airvh002ind6wb g	INTEGER	#	Number of down on specific BFD session	Sum	Maximum, Minimum
Drop_pkt_on_special_BFDsession	hua_m117440715_tab.saa n6wb3xa2airvh002ind6wb g	INTEGER	Packets	Number of packets dropped by specific BFD session	Sum	Maximum, Minimum
Rcvd_pkt_on_special_BFDsession	hua_m117440715_tab.saa n6w43xa2airvh002ind6wb g	INTEGER	Packets	Number of packets received by specific BFD session	Sum	Maximum, Minimum
Sent_pkt_on_special_BFDsession	hua_m117440715_tab.saa n6w63xa2airvh002ind6wb g	INTEGER	Packets	Number of packets sent by specific BFD session	Sum	Maximum, Minimum

## 6.4 BSS\_NSE Performance Indicators

- [BSS\\_NSE.Huawei.GPRS.Attach\\_with\\_BSS](#)
- [BSS\\_NSE.Huawei.GPRS.Gb\\_Traffic\\_with\\_BSS](#)
- [BSS\\_NSE.Huawei.GPRS.Inter\\_SGSN\\_RAU\\_with\\_BSS](#)
- [BSS\\_NSE.Huawei.GPRS.Intra\\_SGSN\\_RAU\\_with\\_BSS](#)
- [BSS\\_NSE.Huawei.GPRS.PDP\\_Context\\_Activation\\_with\\_BSS](#)
- [BSS\\_NSE.Huawei.GPRS.Radio\\_Resource\\_with\\_BSS](#)
- [BSS\\_NSE.Huawei.GPRS.SM\\_Resource\\_with\\_BSS](#)

### 6.4.1 BSS\_NSE.Huawei.GPRS.Attach\_with\_BSS

Attach with BSS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
_Combined_at tach_accept	100 * {Combined_attach_accept }/	FLOAT	%	Percentage of GPRS/IMSI attachment	Average	Average, hubnsepbh,

	{Combined_attach_request}			successes within the SGSN.		hustrafbh
%_GPRS_attach_acc_while_IMSI_attached	100 * {GPRS_attach_acc_while_IMSI_attached}/ {GPRS_attach_req_while_IMSI_attached}	FLOAT	%	Percentage of IMSI-attached GPRS attachment successes within the SGSN.	Average	Average, hubnsepbh, hustrafbh
%_GPRS_attach_accept	100 * {GPRS_attach_accept}/ {GPRS_attach_request}	FLOAT	%	Percentage of GPRS attachment successes within the SGSN.	Average	Average, hubnsepbh, hustrafbh
Attach_rej_Ge_error	hua_attach_bss_tab.vbew22qytqbemdu0nnmj6gx4s3	INTEGER	#	Number of GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hubnsepbh, hustrafbh, Sum
Attach_rej_Gprs_not_allowed	hua_attach_bss_tab.u356h1mnpccyui316veuvksd2	INTEGER	#	Number of GPRS attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hubnsepbh, hustrafbh, Sum
Attach_rej_Gprs_srvc_not_allow	hua_attach_bss_tab.viaqrpd2pacvyelcrac5xfhfcf	INTEGER	#	Number of GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hubnsepbh, hustrafbh, Sum
Attach_rej_Gr_e	hua_attach_bss_tab.vrd3qd	INTEGER	#	Number of	Sum	hubnsepb

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error	i6brbcwtbykwpcq0brns	ER		GPRS attachment failures within SGSN due to Gr protocol error.		h, huStrafbh, Sum
Attach_rej_illegal_ME	hua_attach_bss_tab.swyqapapq3bl6smyndjvg40v1a	INTEGER	#	Number of GPRS attachment failures within SGSN due to illegal ME.	Sum	hubnsepbh, huStrafbh, Sum
Attach_rej_LA_not_allowed	hua_attach_bss_tab.wi66lj5isncatbx5kae2rhkers	INTEGER	#	Number of GPRS attachment rejects due to Location Area not allowed.	Sum	hubnsepbh, huStrafbh, Sum
Attach_rej_no_suitable_cells	hua_attach_bss_tab.rll6gb2s46cdjcy3vjrggvhvb	INTEGER	#	Number of GPRS attachment rejects due to no suitable Cells in LA.	Sum	hubnsepbh, huStrafbh, Sum
Attach_rej_Protocol_error	hua_attach_bss_tab.uddpqla6ucbjatymrntml10kfo	INTEGER	#	Number of GPRS attachment failures within SGSN due to protocol error.	Sum	hubnsepbh, huStrafbh, Sum
Attach_rej_Roam_not_allowed	hua_attach_bss_tab.r3m3ty5yllbhjsuxarw5up2aeo	INTEGER	#	Number of GPRS attachment failures within SGSN due to LA roaming restriction.	Sum	hubnsepbh, huStrafbh, Sum
Com_attach_illegal_MS	hua_attach_bss_tab.yxvddgxbhxcrdug3c0vac4tvu0	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to	Sum	hubnsepbh, huStrafbh, Sum

				illegal mobile station.		
Com_attach_rej_Ge_error	hua_attach_bss_tab.urde650r0pc0ccwniknx1h2tek	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Ge protocol error.	Sum	hubnsepbh, hustrafbh, Sum
Com_attach_rej_Gprs_not_allowed	hua_attach_bss_tab.y6hqhr rgd5cliu3xjfpshrju43s	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hubnsepbh, hustrafbh, Sum
Com_attach_rej_Gprs_srvc_not_allow	hua_attach_bss_tab.s5p43xufjhcgcc05o2vw2ogxhk	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to GPRS services not allowed.	Sum	hubnsepbh, hustrafbh, Sum
Com_attach_rej_Gr_error	hua_attach_bss_tab.rje0sj3siybt5du5rpoqgn0gxa	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Gr protocol error.	Sum	hubnsepbh, hustrafbh, Sum
Com_attach_rej_illegal_ME	hua_attach_bss_tab.xmfkg rwqg5cuedbk1vhh0dqaax	INTEGER	#	Number of combined GPRS/IMSI attachment	Sum	hubnsepbh, hustrafbh, Sum

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				failures within SGSN due to illegal ME.		
Com_attach_rej_LA_not_allowed	hua_attach_bss_tab.smuxv hc4fwcphtij2544biudm5	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to Location Area not allowed.	Sum	hubnsepbh, hustrafbh, Sum
Com_attach_rej_no_suitable_cell	hua_attach_bss_tab.wsy5s 65fedblhs25ad33kqu4ax	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to no suitable Cells in LA.	Sum	hubnsepbh, hustrafbh, Sum
Com_attach_rej_Protocol_error	hua_attach_bss_tab.svswq 6yoatbktuxa4gqevukd3v	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to protocol error.	Sum	hubnsepbh, hustrafbh, Sum
Com_attach_rej_Roam_not_allowed	hua_attach_bss_tab.tufoc3 xmg0bsftrml4nmpfy0wk	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to LA roaming restriction.	Sum	hubnsepbh, hustrafbh, Sum
Combined_attach_accept	hua_attach_bss_tab.sm24ft adnabybs2jpualm6cjjm	INTEGER	#	Number of GPRS/IMSI attachment successes within the SGSN.	Sum	hubnsepbh, hustrafbh, Sum
Combined_attach_request	hua_attach_bss_tab.tcdlarj damcmpbeidmuuyga2h3	INTEGER	#	Number of combined GPRS/IMAI attachment	Sum	hubnsepbh, hustrafbh, Sum

				requests within the SGSN.		
GPRS_attach_acc_while_IMSI_attached	hua_attach_bss_tab.ubcbc3mht1cmlbiqh03ccw2ot4	INTEGER	#	Number of IMSI-attached GPRS attachment successes within the SGSN.	Sum	hubnsepbh, huStrafbh, Sum
GPRS_attach_accept	hua_attach_bss_tab.xuvbv hk6hkcd2bdrorvxooi53y	INTEGER	#	Number of GPRS attachment successes within the SGSN.	Sum	hubnsepbh, huStrafbh, Sum
GPRS_attach_rej_illegal_MS	hua_attach_bss_tab.s5oioq hqtqb2hrsk4o5ffptiw5	INTEGER	#	Number of GPRS attachment rejects due to illegal mobile station.	Sum	hubnsepbh, huStrafbh, Sum
GPRS_attach_req_while_IMSI_attached	hua_attach_bss_tab.sgix5ep5ebbsib4tvir56cdv05	INTEGER	#	Number of IMSI-attached GPRS attachment requests within the SGSN.	Sum	hubnsepbh, huStrafbh, Sum
GPRS_attach_request	hua_attach_bss_tab.ujknv0fc5pbw5dfkhpr5ppcqcd	INTEGER	#	Number of GPRS attachment requests within the SGSN.	Sum	hubnsepbh, huStrafbh, Sum
GPRS_IMSI_attach_fail_MSC_unreach	hua_attach_bss_tab.x6fhk4j5bcbupdociy3spwctoc	INTEGER	#	The number of times GPRS attachment succeeds but IMSI attachment	Sum	hubnsepbh, huStrafbh, Sum

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				fails (MSC presently unreachable).		
GPRS_IMSI_attach_fail_VLR_rej	hua_attach_bss_tab.t1wgi632p0c3fuwk15wkt2iue6	INTEGER	#	The GPRS attachment succeeds while the IMSI attachment fails (rejected by VLR).	Sum	hubnsepbh, huStrafbh, Sum
IMSI_attach_GPRS_attach_rej_Ge_err	hua_attach_bss_tab.wxegmpqr6tbeocnmp06qrjhopr	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hubnsepbh, huStrafbh, Sum
IMSI_attach_GPRS_attach_rej_Gr_err	hua_attach_bss_tab.ylb3ob6rm4bllumjiceyolj3ss	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Gr protocol error.	Sum	hubnsepbh, huStrafbh, Sum
IMSI_attach_GPRS_attach_rej_ill_ME	hua_attach_bss_tab.towqtu3g3acw0cr1xagfpr6mc6	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to illegal ME.	Sum	hubnsepbh, huStrafbh, Sum
IMSI_attach_GPRS_attach_rej_ill_MS	hua_attach_bss_tab.xtd2t3ppvberud5pjxey53rusg	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to illegal mobile station.	Sum	hubnsepbh, huStrafbh, Sum
IMSI_attach_rej_Gprs_not_allo	hua_attach_bss_tab.vuwikcxikubcsuqwc01fme2kj3	INTEGER	#	Number of IMSI-attached	Sum	hubnsepbh,

wed				GPRS attachment rejects due to GPRS service is not allowed in this PLMN.		hustrafbh, Sum
IMSI_attach_rej_Gprs_service_not	hua_attach_bss_tab.udbufo dtwbb0wd6nqnu5bf4soh	INTEGER	#	Measurement provides the number of IMSI-attached GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hubnsepbh, hustrafbh, Sum
IMSI_attach_rej_LA_not_allowed	hua_attach_bss_tab.s4eq1f udurbbxspo4kd11o2lay	INTEGER	#	Number of IMSI-attached GPRS attachment of HPLMN users rejects due to Location Area not allowed.	Sum	hubnsepbh, hustrafbh, Sum
IMSI_attach_rej_no_suitable_cell	hua_attach_bss_tab.xppdw d36pdcnlckia0kpy0tfk0	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to no suitable Cells in LA.	Sum	hubnsepbh, hustrafbh, Sum
IMSI_attach_rej_Protocol_error	hua_attach_bss_tab.thjvso xmuqcsmbbmimccyp40rg	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to protocol error.	Sum	hubnsepbh, hustrafbh, Sum

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IMSI_attach_rej_Roam_not_allowed	hua_attach_bss_tab.tkhfvixyrbiysmeihacw6suc1	INTEGER	#	Number of IMSI-attached GPRS attachment of non-HPLMN users failures within SGSN due to LA roaming restriction.	Sum	hubnsepbh, hustrafbh, Sum
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#### 6.4.2 BSS\_NSE.Huawei.GPRS.Gb\_Traffic\_with\_BSS

Gb Traffic with BSS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
SGSN_Gb_Mean_rec_Throughput	hua_gb_traffic_bss_tab.uqenfuvyn4bpqdc6eu2bamp13p	FLOAT	KByte/s/s	The arithmetic mean of NS packets throughput received from BSS ( excluding NS packet header).	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum, Sum
SGSN_Gb_Mean_sent_Throughput	hua_gb_traffic_bss_tab.xh5seugo1jcwrrvxj1otvkdt6	FLOAT	KByte/s/s	The arithmetic mean of NS packets throughput sent to BSS ( excluding NS packet header).	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum, Sum
SGSN_Gb_Mean_Throughput	hua_gb_traffic_bss_tab.wnapecdh6wcejd6plnunxvr1jb	FLOAT	KByte/s/s	The arithmetic mean of NS packets throughput processed by SGSN( excluding NS packet header).	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum

						m, Sum
SGSN_Gb_operated_kbytes	hua_gb_traffic_bss_tab.reip0b4wv4bcnupgskvljp2oc5	INT8	KBytes	This measurement provides bytes of NS packets processed by SGSN ( excluding NS packet header).	Sum	hubnsepbh, huStrafbh, Sum
SGSN_Gb_Peak_rec_Throughput	hua_gb_traffic_bss_tab.s416cqupo6btguykj215xalx3a	FLOAT	KBytes/s	The maximum recorded value of NS packets throughput received from BSS ( excluding NS packet header).	Constant	Average, hubnsepbh, huStrafbh, Maximum, Minimum, Sum
SGSN_Gb_Peak_sent_Throughput	hua_gb_traffic_bss_tab.x65na1bikvbassa16ols2g3nbk	FLOAT	KBytes/s	The maximum recorded value of NS packets throughput sent to BSS ( excluding NS packet header).	Constant	Average, hubnsepbh, huStrafbh, Maximum, Minimum, Sum
SGSN_Gb_Peak_Throughput	hua_gb_traffic_bss_tab.rb2bhdfbs3bkrbbvq5riwhe4b1	FLOAT	KBytes/s	The maximum recorded value of NS packets throughput processed by SGSN ( excluding NS packet header).	Constant	Average, hubnsepbh, huStrafbh, Maximum, Minimum, Sum
SGSN_Gb_rec_kbytes	hua_gb_traffic_bss_tab.uh63re6rasbf4retodxxcjs4nl	INT8	KBytes	This measurement	Sum	hubnsepbh,

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				provides bytes of NS packets received from BSS ( excluding NS packet header) .		hustrafbh , Sum
SGSN_Gb_sen t_kbytes	hua_gb_traffic_bss_tab.tdr i2xxk0ocdjoe66af1jo2a	INT8	KByte s	This measurement provides bytes of NS packets sent to BSS ( excluding NS packet header).	Sum	hubnsepb h, hustrafbh , Sum

#### 6.4.3 BSS\_NSE.Huawei.GPRS.Inter\_SGSN\_RAU\_with\_BSS

Inter SGSN RAU with BSS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Com_RAU_success	$100 * \frac{\{Com\_RAU\_success\}}{\{Com\_RAU\_request\}}$	FLOAT	%	Percentage of successful combined inter-SGSN RAU updates.	Average	Average, hubnsepbh, hustrafbh
%_RAU_success	$100 * \frac{\{RAU\_success\}}{\{RAU\_request\}}$	FLOAT	%	Percentage of inter-SGSN RAU successes within this SGSN area.	Average	Average, hubnsepbh, hustrafbh
Com_RAU_rej_Ge_fail	hua_inter_sgsn_rau_bss_tab.xittyd26s2c20ugujxswlvi eis	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hubnsepbh, hustrafbh , Sum
Com_RAU_rej_GPRS_srvc_not_allow	hua_inter_sgsn_rau_bss_tab.tef15osfgtcptspy252p1ga xoe	INTEGER	#	Number of inter-SGSN combined RA/LA update	Sum	hubnsepbh, hustrafbh , Sum

				failures due to illegal ME.		
Com_RAU_rej_Gr_fail	hua_inter_sgsn_rau_bss_talb.ydjdj6usmc6as1n5vga2gu5t0	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_illegal_ME	hua_inter_sgsn_rau_bss_talb.tryek0nhgnckobygwxatm4opnv	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal ME.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_illegal_MS	hua_inter_sgsn_rau_bss_talb.wy3hon4pd6b2fr1y5fokb0b1y0	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_implicitly_detached	hua_inter_sgsn_rau_bss_talb.xkjjovpmejb5qthvp0gpb3x56o	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service not allowed.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_LA_not_allowed	hua_inter_sgsn_rau_bss_talb.x4erflcnplbj0bmwopuiwa4spm	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_protocol_error	hua_inter_sgsn_rau_bss_talb.s66mab1go5cgat526sjrki	INTEGER	#	Number of inter-SGSN	Sum	hubnsepbh,

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r	sygb			combined RA/LA update failures due to protocol error.		hustrafbh , Sum
Com_RAU_rej_roamIng_not_allowed	hua_inter_sgsn_rau_bss_talb.y1plxglq0uc6rtqeef3bfcdxq3	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.	Sum	hubnsepbh, hustrafbh , Sum
Com_RAU_rej_serv_not_allowed	hua_inter_sgsn_rau_bss_talb.va432llpywbaccfvylqyrxkqj3	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service is not allowed in this PLMN.	Sum	hubnsepbh, hustrafbh , Sum
Com_RAU_rej_times_No_suit_Cells	hua_inter_sgsn_rau_bss_talb.vspt5bgb31bhrteddvjiwcdcsu	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to no suitable Cells in LA.	Sum	hubnsepbh, hustrafbh , Sum
Com_RAU_request	hua_inter_sgsn_rau_bss_talb.rgsftwtl2ba1u4umocufsob	INTEGER	#	Number of inter-SGSN combined RA/LA update requests.	Sum	hubnsepbh, hustrafbh , Sum
Com_RAU_success	hua_inter_sgsn_rau_bss_talb.r602i3qop2bd6bg4vdrguu1sty	INTEGER	#	Number of successful combined inter-SGSN RAU updates.	Sum	hubnsepbh, hustrafbh , Sum
Gb_mode_inter_SGSN_Com_RAU_reject_MS_identity_cannot_be_derived	hua_inter_sgsn_rau_bss_talb.vey2h0gvwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of inter-SGSN	Sum	hubnsepbh, hustrafbh , Sum

ed_by_the_network_per_BSS				combined RA/LA update failures due to MS identity cannot be derived by the network.		
Gb_mode_inter_SGSN_RAU_reject_MS_identity_cannot_be_derived_by_the_network_per_BSS	hua_inter_sgsn_rau_bss_talb.vey2h0evwr2air02b04u3bm6j	INTEGER	times	This measurement provides the number of inter-SGSN RAU failures due to MS identity cannot be derived by the network.	Sum	hubnsepbh, huStrafbh, Sum
RAU_accepted_but_LAU_rejected_MSC_unreach	hua_inter_sgsn_rau_bss_talb.u1wxlljx0bb0objbgc4ykpcwv0	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined inter-SGSN updates.	Sum	hubnsepbh, huStrafbh, Sum
RAU_accepted_but_LAU_rejected_VLR_rej	hua_inter_sgsn_rau_bss_talb.tkx46mqugpcfasga0h2jio6n3n	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined inter-SGSN updates.	Sum	hubnsepbh, huStrafbh, Sum
RAU_completed_msg_rec	hua_inter_sgsn_rau_bss_talb.talnwq0etfbdac5d631iwwi5m	INTEGER	#	Number of times inter-SGSN RAU is completed .	Sum	hubnsepbh, huStrafbh, Sum

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RAU_rej_Ge_fail	hua_inter_sgsn_rau_bss_talb.y2wwuh5honbeic453cygp04axy	INTEGER	#	Number of inter-SGSN RAU failures due to Ge protocol error.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_GPRS_service_not_allowed	hua_inter_sgsn_rau_bss_talb.rcuaexpnsaceorflhbmngqclkg	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service not allowed.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_Gr_fail	hua_inter_sgsn_rau_bss_talb.y4lxw5c62fbhlbs0qxtyr2dcp5	INTEGER	#	Number of inter-SGSN RAU failures due to Gr protocol error.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_illegal_ME	hua_inter_sgsn_rau_bss_talb.xysl2dc11mc3msfokh0xsiyiik	INTEGER	#	Number of inter-SGSN RAU failures due to illegal ME.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_illegal_MS	hua_inter_sgsn_rau_bss_talb.s2hr34xofncgtdjgeqkrvqclew	INTEGER	#	Number of inter-SGSN RAU failures due to illegal mobile station.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_implicitly_detached	hua_inter_sgsn_rau_bss_talb.rh4wxcuuitbyrsscgmddxa65sv	INTEGER	#	Number of inter-SGSN RAU failures due to implicitly detached.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_LA_not_allowed	hua_inter_sgsn_rau_bss_talb.wwjfrchdwkb35r53ayoklgtcpd	INTEGER	#	Number of inter-SGSN RAU failures due to location area not allowed.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_no_suitable_Cells_In_LA	hua_inter_sgsn_rau_bss_talb.tlco3lsq2qckpe1kgd4gfitbmj	INTEGER	#	Number of inter-SGSN RAU failures	Sum	hubnsepbh, huStrafbh

				due to no suitable Cells in LA.		, Sum
RAU_rej_protocol_error	hua_inter_sgsn_rau_bss_talb.tm4t323kswckrc4ynj2jsaq4d4	INTEGER	#	Number of inter-SGSN RAU failures due to protocol error.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_roaming_not_allowed_in_LA	hua_inter_sgsn_rau_bss_talb.vds1xnn1whcyrokmg100k1ijr	INTEGER	#	Number of inter-SGSN RAU failures due to roaming not allowed in this Location area.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_service_not_allowed_in_this_PLMN	hua_inter_sgsn_rau_bss_talb.rbeiriggv4cycevog3qfaamv26	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service is not allowed in this PLMN.	Sum	hubnsepbh, huStrafbh, Sum
RAU_request	hua_inter_sgsn_rau_bss_talb.t3xuvdw5n6blrbmr1uoyv6fit1	INTEGER	#	Number of inter-SGSN RAU requests within the SGSN area.	Sum	hubnsepbh, huStrafbh, Sum
RAU_success	hua_inter_sgsn_rau_bss_talb.xfweacxtrbcjhcbcwrf3u4gyopc	INTEGER	#	Number of inter-SGSN RAU successes within this SGSN area.	Sum	hubnsepbh, huStrafbh, Sum

#### 6.4.4 BSS\_NSE.Huawei.GPRS.Intra\_SGSN\_RAU\_with\_BSS

Intra SGSN RAU with BSS measurement

KPI Name	Expression	Data	Units	Description	Default	Other
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		Type			Aggregator	Aggregators
%_Com_RAU_success	$100 * \frac{\{\text{Com\_RAU\_success}\}}{\{\text{Com\_RAU\_request}\}}$	FLOAT	%	Percentage of successful combined intra-SGSN RAU updates.	Average	Average, hubnsepbh, huStrafbh
%_RAU_success	$100 * \frac{\{\text{RAU\_success}\}}{\{\text{RAU\_request}\}}$	FLOAT	%	Percentage of intra-SGSN RAU successes within this SGSN area.	Average	Average, hubnsepbh, huStrafbh
Com_RAU_rej_Ge_fail	hua_intra_sgsn_rau_bss_talb.tuhlgkhip2buer1rohgcure1pn	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_Gr_fail	hua_intra_sgsn_rau_bss_talb.umnm0kbxgjc1fbbosxw3tu2cs5	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_illegal_MS	hua_intra_sgsn_rau_bss_talb.renyhpo3f6c5xtsad0cy15emop	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_implicit_detached	hua_intra_sgsn_rau_bss_talb.ta43g221hwcoccdvt520ydth2e	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to implicitly detached.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej	hua_intra_sgsn_rau_bss_ta	INTEGER	#	Number of	Sum	hubnsepbh

_LA_not_allowed	b.snoxythngfcrseiy0snkocuiqh	INTEGER		intra-SGSN combined RA/LA update failures due to location area not allowed.		h, huStrafbh, Sum
Com_RAU_rej_no_suitable_Cells_In_LA	hua_intra_sgsn_rau_bss_talb.rns64tkx6ecbhusd5wxmekvcx	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to no suitable Cells in LA.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_protocol_error	hua_intra_sgsn_rau_bss_talb.uxfjexsxc6bnibl5iqtxf2lqqc	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to protocol error.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_rej_roam_not_allowed	hua_intra_sgsn_rau_bss_talb.wk314bchsxcguclidc2vhfk0mw	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_request	hua_intra_sgsn_rau_bss_talb.xstrgfjwdfce5svc56sfalheuy	INTEGER	#	Number of intra-SGSN combined RA/LA update requests.	Sum	hubnsepbh, huStrafbh, Sum
Com_RAU_success	hua_intra_sgsn_rau_bss_talb.y5hh5aimwybugt6oxdtokucfwk	INTEGER	#	Number of successful combined intra-SGSN RAU updates.	Sum	hubnsepbh, huStrafbh, Sum
RAU_accept_b	hua_intra_sgsn_rau_bss_ta	INTEGER	#	Number of	Sum	hubnsepb

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ut_LAU_rej_MSC_unreach	b.w32dypjy1ncchc0s2be46einsl	ER		times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined intra-SGSN updates.		h, huStrafbh, Sum
RAU_accept_but_LAU_rej_VLR_rej	hua_intra_sgsn_rau_bss_tab.wmweojni15b0xrb2qomij41xqp	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined intra-SGSN updates.	Sum	hubnsepbh, huStrafbh, Sum
RAU_complete_message_rec	hua_intra_sgsn_rau_bss_tab.uawx4x4g3rclyeji0ekmeidkit	INTEGER	#	Number of times intra-SGSN RAU is completed .	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_Ge_fail	hua_intra_sgsn_rau_bss_tab.x2f25xueob4htmjt6r4rg5411	INTEGER	#	Number of intra-SGSN RAU failures due to Ge protocol error.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_Gr_fail	hua_intra_sgsn_rau_bss_tab.yisiikf3rvce6buc433yfagil	INTEGER	#	Number of intra-SGSN RAU failures due to Gr protocol error.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_illegal_MS	hua_intra_sgsn_rau_bss_tab.vtqxmdtyvfc3esd06kcjhunn4	INTEGER	#	Number of intra-SGSN RAU failures due to illegal mobile station.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_implicit_detached	hua_intra_sgsn_rau_bss_tab.w2rsx3gexbbg1tw615wavgplkx	INTEGER	#	Number of intra-SGSN RAU failures due to implicitly	Sum	hubnsepbh, huStrafbh, Sum

				detached.		
RAU_rej_LA_not_allow	hua_intra_sgsn_rau_bss_talb.xpt003ujlsck1dauj22spm6iu5	INTEGER	#	Number of intra-SGSN RAU failures due to location area not allowed.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_No_suit_Cells	hua_intra_sgsn_rau_bss_talb.xpchtmk6aabdds42gur1xckq3l	INTEGER	#	Number of intra-SGSN RAU failures due to no suitable Cells in LA.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_protocol_error	hua_intra_sgsn_rau_bss_talb.vai3ur2tc5blaetp1vok2qdiot	INTEGER	#	Number of intra-SGSN RAU failures due to protocol error.	Sum	hubnsepbh, huStrafbh, Sum
RAU_rej_roam_not_allow	hua_intra_sgsn_rau_bss_talb.stfdtm0uvtc2xut3c4nfi44p6l	INTEGER	#	Number of intra-SGSN RAU failures due to roaming not allowed in this Location area.	Sum	hubnsepbh, huStrafbh, Sum
RAU_request	hua_intra_sgsn_rau_bss_talb.rrlfvdgwrpbgrsmtmbf4y524kb	INTEGER	#	Number of intra-SGSN RAU requests within the SGSN area.	Sum	hubnsepbh, huStrafbh, Sum
RAU_success	hua_intra_sgsn_rau_bss_talb.rhdnx13qcjcxpbdve66ekxtqbq	INTEGER	#	Number of intra-SGSN RAU successes within this SGSN area.	Sum	hubnsepbh, huStrafbh, Sum

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#### 6.4.5 BSS\_NSE.Huawei.GPRS.PDP\_Context\_Activation\_with\_BSS

PDP Context Activation with BSS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
$\overline{\%\_MS\_init\_IPV4\_PDP\_act\_success}$	$100 * \frac{\{MS\_init\_IPV4\_PDP\_act\_success\}}{\{MS\_init\_IPV4\_PDP\_act\}}$	FLOAT	%	Percentage of successful MS-initiated IPv4 PDP context primary activations in a specified BSS	Average	Average, hubnsepbh, hustrafbh
$\overline{\%\_MS\_init\_IPV6\_PDP\_act\_success}$	$100 * \frac{\{MS\_init\_IPV6\_PDP\_act\_success\}}{\{MS\_init\_IPV6\_PDP\_act\}}$	FLOAT	%	Percentage of successful MS-initiated IPv6 PDP context activations in a specified BSS	Average	Average, hubnsepbh, hustrafbh
$\overline{\%\_MS\_init\_PDP\_act\_success\_with\_dynamic\_addr}$	$100 * \frac{\{MS\_init\_PDP\_act\_success\_with\_dynamic\_addr\}}{\{MS\_init\_PDP\_act\_with\_dynamic\_addr\}}$	FLOAT	%	Percentage of successful MS-initiated dynamic PDP context activations in a specified BSS	Average	Average, hubnsepbh, hustrafbh
$\overline{\%\_MS\_init\_PDP\_act\_success}$	$100 * \frac{\{MS\_init\_PDP\_act\_success\}}{\{MS\_init\_PDP\_act\}}$	FLOAT	%	Percentage of successful MS-initiated PDP context activations in a specified BSS	Average	Average, hubnsepbh, hustrafbh
$\overline{\%\_Network\_init\_IPV4\_PDP\_act\_success}$	$100 * \frac{\{Network\_init\_IPV4\_PDP\_act\_success\}}{\{Network\_init\_IPV4\_PDP\_act\}}$	FLOAT	%	Percentage of successful MS-initiated IPv4 PDP context network activations in a specified BSS	Average	Average, hubnsepbh, hustrafbh
$\overline{\%\_Network\_init\_IPV6\_PDP\_act\_success}$	$100 * \frac{\{Network\_init\_IPV6\_PDP\_act\_success\}}{\{Network\_init\_IPV6\_PDP\_act\}}$	FLOAT	%	Percentage of successful MS-initiated IPv6 PDP context network activations in a specified BSS	Average	Average, hubnsepbh, hustrafbh

t_success	{Network_init_IPV6_PDP_act_success}			PDP context network activations in a specified BSS		hustrafbh
%_Network_init_PDP_act_success	$100 * \frac{\{\text{Network\_init\_PDP\_act\_success}\}}{\{\text{Network\_init\_PDP\_act}\}}$	FLOAT	%	Percentage of successful MS-initiated PDP context network activations in a specified BSS	Average	Average, hubnsepbh, hustrafbh
%_Secondary_IPV4_PDP_act_success	$100 * \frac{\{\text{Secondary\_IPV4\_PDP\_act\_success}\}}{\{\text{Secondary\_IPV4\_PDP\_act}\}}$	FLOAT	%	Percentage of successful secondary IPv4 PDP context activations in a specified BSS.	Average	Average, hubnsepbh, hustrafbh
%_Secondary_IPV6_PDP_act_success	$100 * \frac{\{\text{Secondary\_IPV6\_PDP\_act}\}}{\{\text{Secondary\_IPV6\_PDP\_act\_success}\}}$	FLOAT	%	Percentage of successful secondary IPv6 PDP context activations in a specified BSS.	Average	Average, hubnsepbh, hustrafbh
Foreign_subscribers_PDP_act_accept	hua_pdp_context_act_bss_t ab.x2wvcbbdevbbq0diw264m3uk2ld	INTEGER	#	Number of ForeignMS activation accepts in 2G in a specified BSS	Sum	hubnsepbh, hustrafbh, Sum
Foreign_subscribers_PDP_act_reject	hua_pdp_context_act_bss_t ab.ypl03ycd6ybrmukgbf0a ult1ko	INTEGER	#	Number of ForeignMS activation rejects in 2G in a specified BSS	Sum	hubnsepbh, hustrafbh, Sum
Foreign_subscribers_PDP_act_request	hua_pdp_context_act_bss_t ab.r1111ais4ybq3tugv1fkqo pnlv	INTEGER	#	Number of activation (including both	Sum	hubnsepbh, hustrafbh

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				primary activation and secondary PDP context activation) requests received from a ForeignMS in 2G in a specified BSS.		, Sum
MS_init_IPV4_PDP_act_succes s	hua_pdp_context_act_bss_t ab.rwyvdhw3c0cqcry0l3w0 lwppix	INTEG ER	#	Number of successful MS-initiated IPv4 PDP context primary activations in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
MS_init_IPV4_PDP_act	hua_pdp_context_act_bss_t ab.rs3phxbsdnc2xuvtn34wf flq2u	INTEG ER	#	Number of MS-initiated IPv4 PDP context primary activation attempts in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
MS_init_IPV4_PDP_ctx_act_re ject	hua_pdp_context_act_bss_t ab.ytj6hhf442bjbree6gwdrf af1w	INTEG ER	#	Number of rejected MS-initiated IPv4 PDP context activations in a specified BSS.	Sum	hubnsepb h, hustrafbh , Sum
MS_init_IPV6_PDP_act_succes s	hua_pdp_context_act_bss_t ab.y2oepyp6fjclvbq416y3sl mqle	INTEG ER	#	Number of successful MS-initiated IPv6 PDP context activations in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
MS_init_IPV6_PDP_act	hua_pdp_context_act_bss_t ab.vm6rjhfuoucuktsvdnj0i us6a	INTEG ER	#	Number of MS-initiated IPv6 PDP context activation attempts in a	Sum	hubnsepb h, hustrafbh , Sum

				specified BSS		
MS_init_IPV6_PDP_ctx_act_reject	hua_pdp_context_act_bss_t ab.seovqw21phc44skaahflq iksqli	INTEGER	#	Number of rejected MS-initiated IPv6 PDP context activations in a specified BSS.	Sum	hubnsepb h, hustrafbh , Sum
MS_init_PDP_act_reject_dyn_addr	hua_pdp_context_act_bss_t ab.vycdlubtpqcx2eb5yc5fl 3itng	INTEGER	#	Number of reject of MS-initiated PDP context activation using dynamic PDP address in a specified BSS.	Sum	hubnsepb h, hustrafbh , Sum
MS_init_PDP_act_success_with_dynamic_addr	hua_pdp_context_act_bss_t ab.tovw0b0kvucx2rbro3ob 4j43n4	INTEGER	#	Number of successful MS-initiated dynamic PDP context activations in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
MS_init_PDP_act_success	hua_pdp_context_act_bss_t ab.ylmkktbpb0bugdi3aktw bgj0sy	INTEGER	#	Number of successful MS-initiated PDP context activations in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
MS_init_PDP_act_with_dynamic_addr	hua_pdp_context_act_bss_t ab.xprwmu4lr1bglb2jwthd w2fjn1	INTEGER	#	Number of MS-initiated PDP context activation requests using dynamic address in a specified BSS.	Sum	hubnsepb h, hustrafbh , Sum
MS_init_PDP_a	hua_pdp_context_act_bss_t	INTEGER	#	Number of	Sum	hubnsepb

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ct	ab.yaphl1vhelb6humqvyax kwx1tq	ER		MS-initiated PDP context activation attempts in a specified BSS		h, hustrafbh , Sum
Network_init_I PV4_PDP_act_ success	hua_pdp_context_act_bss_t ab.yepopo2g2wbtuwtb5m5 hn1q62	INTEG ER	#	Number of successful MS- initiated IPv4 PDP context network activations in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
Network_init_I PV4_PDP_act	hua_pdp_context_act_bss_t ab.toxg40apkwb2is0y6bew lnvbhr	INTEG ER	#	Number of MS-initiated IPv4 PDP context network activation attempts in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
Network_init_I PV6_PDP_act_ success	hua_pdp_context_act_bss_t ab.te5jftb5xnbgpu2uaa36ky ujhd	INTEG ER	#	Number of successful MS- initiated IPv6 PDP context network activations in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
Network_init_I PV6_PDP_act	hua_pdp_context_act_bss_t ab.vskngl4qohb2le0ga01t3 ux53p	INTEG ER	#	Number of MS-initiated IPv6 PDP context network activation attempts in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum
Network_init_P DP_act_success	hua_pdp_context_act_bss_t ab.uehhkeysabbcatyt51njay 606n	INTEG ER	#	Number of successful MS- initiated PDP context network activations in a specified BSS	Sum	hubnsepb h, hustrafbh , Sum

Network_init_PDP_act	hua_pdp_context_act_bss_t ab.wg3w3f0y26bvjswdqkjp gtbnl5	INTEGER	#	Number of MS-initiated PDP context network activation attempts in a specified BSS	Sum	hubnsepbh, hustrafbh, Sum
PDP_act_fail_DNS_resolution_fail	hua_pdp_context_act_bss_t ab.wnmn3eptfwciuey6lsme vtqpyi	INTEGER	#	Number of activation failures in a specified BSS (due to DNS resolution failure).	Sum	hubnsepbh, hustrafbh, Sum
PDP_act_fail_Ge_fail	hua_pdp_context_act_bss_t ab.uka5n0k6tbb0pdn6uo51l l03f2	INTEGER	#	Number of activation failures in a specified BSS (due to Ge interface failure).	Sum	hubnsepbh, hustrafbh, Sum
PDP_act_fail_lack_net_resources	hua_pdp_context_act_bss_t ab.ucmafs63jkc5gbt3vligw qrjd6	INTEGER	#	Number of activation failures in a specified BSS (due to insufficient network resource).	Sum	hubnsepbh, hustrafbh, Sum
PDP_act_fail_missing_or_unknown_APN	hua_pdp_context_act_bss_t ab.rsybsuccctcmdsf5ijjj3ed cym	INTEGER	#	Number of activation failures in a specified BSS (due to unknown APN).	Sum	hubnsepbh, hustrafbh, Sum
PDP_act_fail_ODB	hua_pdp_context_act_bss_t ab.ylxxjbe2s3b3pubkpenluj	INTEGER	#	Number of activation	Sum	hubnsepbh,

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	a5bd			failures in a specified BSS (due to ODB).		hustrafbh , Sum
PDP_act_fail_QoS_negotiation_fail	hua_pdp_context_act_bss_t ab.w3l1osibpibhru5kkvrice qq4r	INTEGER	#	Number of activation failures in a specified BSS (due to QoS negotiation failure).	Sum	hubnsepbh, hustrafbh , Sum
PDP_act_fail_rejected_by_GGSN	hua_pdp_context_act_bss_t ab.u5om0qirfubtub2alajbly bosr	INTEGER	#	Number of activation failures in a specified BSS (due to GGSN reject).	Sum	hubnsepbh, hustrafbh , Sum
PDP_act_fail_service_not_supported	hua_pdp_context_act_bss_t ab.rgj1m3jfvvcy5d0yvkk65 oood	INTEGER	#	Number of activation failures in a specified BSS (due to services not supported by the system).	Sum	hubnsepbh, hustrafbh , Sum
PDP_act_fail_service_unsubscribed	hua_pdp_context_act_bss_t ab.s2unf0xjegcn5sbxkif3p wbynp	INTEGER	#	Number of activation failures in a specified BSS (due to unsubscribed service).	Sum	hubnsepbh, hustrafbh , Sum
PDP_act_fail_Ugbi_PDP_Cong	hua_pdp_context_act_bss_t ab.tnvxeywmkabirrrp0aerh nfp21	INTEGER	#	Number of activation failures in a specified BSS (due to PDP congestion of UGBI)	Sum	hubnsepbh, hustrafbh , Sum
PDP_act_fail_Unknown_PDP_address_or_type	hua_pdp_context_act_bss_t ab.xuw663ja4fcqerhunl0nx 2hm1n	INTEGER	#	Number of activation failures in a specified BSS	Sum	hubnsepbh, hustrafbh , Sum

				(due to unknown PDP address or type).		
PDP_act_fail_user_authentication_fail	hua_pdp_context_act_bss_t ab.w0ogx2hkwgbehektlyyefrgd0f	INTEGER	#	Number of activation failures in a specified BSS (due to subscriber authentication failure).	Sum	hubnsepbh, hustrafbh, Sum
PDP_act_reject	hua_pdp_context_act_bss_t ab.xhxm0byhoqcqpdhpn5qmvwup1r	INTEGER	#	Number of activation rejects in a specified BSS.	Sum	hubnsepbh, hustrafbh, Sum
PDP_ctx_act_fail_No_Reason	hua_pdp_context_act_bss_t ab.scmfrviydebjguhgyhawqde3k	INTEGER	#	2G PDP ctx act fail (Unspecified Reason) in BSS.	Sum	hubnsepbh, hustrafbh, Sum
PDP_ctx_sec_act_fail_No_Reason	hua_pdp_context_act_bss_t ab.rbqbdulucabe0rih5hcgu5cafj	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS (due to unspecified errors).	Sum	hubnsepbh, hustrafbh, Sum
PDP_fail_APN_Restrict_BSS	hua_pdp_context_act_bss_t ab.saan6ll3xa2airvh002ind6wbg	INTEGER	#	Number of activation failures in a specified BSS (APN Restriction).	Sum	hubnsepbh, hustrafbh, Sum
Sec_PDP_act_fail_Ge_fail	hua_pdp_context_act_bss_t ab.v2g010en31b35tpxm3m	INTEGER	#	Number of secondary PDP	Sum	hubnsepbh,

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	keqolir			context activation failures in a specified BSS (due to Ge interface failure).		hustrafbh, Sum
Sec_PDP_act_fail_GGSN_reject	hua_pdp_context_act_bss_t ab.y35nd3mddycqct0apynlnxfsst	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS (due to GGSN reject).	Sum	hubnsepbh, hustrafbh, Sum
Sec_PDP_act_fail_lack_net_resources	hua_pdp_context_act_bss_t ab.y1clmlirfjco3sas3iv5r6wuw2	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS (due to insufficient network resource).	Sum	hubnsepbh, hustrafbh, Sum
Sec_PDP_act_fail_ODB	hua_pdp_context_act_bss_t ab.sdyvie43gdbh2u2dfetret4mfl	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS (due to ODB).	Sum	hubnsepbh, hustrafbh, Sum
Sec_PDP_act_fail_Ugbi_PDP_Cong	hua_pdp_context_act_bss_t ab.sswghwtcbacfycyoay4gn0pkn1	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS (due to PDP congestion of UGBI)	Sum	hubnsepbh, hustrafbh, Sum
Sec_PDP_act_fail_unknown_P	hua_pdp_context_act_bss_t ab.xsrdc25ndfcbjsjfkghv2k	INTEGER	#	Number of secondary PDP	Sum	hubnsepbh,

DP_ctx	pb0v			context activation failures in a specified BSS (due to unknown PDP context)		hustrafbh, Sum
Sec_PDP_act_reject	hua_pdp_context_act_bss_t ab.rpjhubd6cacwwedt6jde2 cp6ou	INTEGER	#	Number of secondary PDP context activation rejects in a specified BSS.	Sum	hubnsepbh, hustrafbh, Sum
Sec_PDP_act_success	hua_pdp_context_act_bss_t ab.y2x4s3jpwubmqebabm0 quenmuw	INTEGER	#	Number of successful secondary PDP context activations in a specified BSS.	Sum	hubnsepbh, hustrafbh, Sum
Sec_PDP_act	hua_pdp_context_act_bss_t ab.ynnr0gqsdsc60r6ulf03q1 mamd	INTEGER	#	Number of secondary PDP context activation requests in a specified BSS.	Sum	hubnsepbh, hustrafbh, Sum
Secondary_IPV4_PDP_act_success	hua_pdp_context_act_bss_t ab.wgfdlsia2scnycutnr3xrfv dlr	INTEGER	#	Number of successful secondary IPv4 PDP context activations in a specified BSS.	Sum	hubnsepbh, hustrafbh, Sum
Secondary_IPV4_PDP_act	hua_pdp_context_act_bss_t ab.u5swwmnjlcdxrr353by s3rnxcg	INTEGER	#	Number of secondary IPv4 PDP context activation requests in a specified BSS.	Sum	hubnsepbh, hustrafbh, Sum
Secondary_IPV	hua_pdp_context_act_bss_t	INTEGER	#	Number of	Sum	hubnsepbh

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6_PDP_act_success	ab.wk3htb2qa6bg3uhr1pxw4uurqw	ER		successful secondary IPv6 PDP context activations in a specified BSS.		h, hustrafbh, Sum
Secondary_IPV6_PDP_act	hua_pdp_context_act_bss_t ab.xohp0kinilb0xbbv1b6f5twa5g	INTEGER	#	Number of secondary IPv6 PDP context activation requests in a specified BSS.	Sum	hubnsepbh, hustrafbh, Sum

#### 6.4.6 BSS\_NSE.Huawei.GPRS.Radio\_Resource\_with\_BSS

Radio Resource with BSS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Attached_user_number_per_BSS	hua_radio_resource_bss_t b.tb1mq6gkubigb3k6a14yhahnm	INTEGER	#	Number of attached mobile users in specific BSS.	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum, Sum

#### 6.4.7 BSS\_NSE.Huawei.GPRS.SM\_Resource\_with\_BSS

SM Resource with BSS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Activated_PDP_number_per_BSS	hua_sm_resource_bss_tab. u5n4xahtbhcodbqfe4xjh1ojxf	INTEGER	#	Number of Active PDP Sessions	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum

						m, Sum
Avg_act_PDP_Sessions_BACKGRND	hua_sm_resource_bss_tab.tb5xbnuy1tb4tsehhkxk3oa51s	INTEGER	#	Number of Active PDP Sessions for the background QoS Class for Gtpr MSs in a specified BSS	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum, Sum
Avg_act_PDP_Sessions_CONV	hua_sm_resource_bss_tab.twqm2wvk6xbvpr1qndhdrsefvr	INTEGER	#	Number of Active PDP Sessions for the conversational QoS Class for Gtpr MSs in a specified BSS	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum, Sum
Avg_act_PDP_Sessions_INTERAC	hua_sm_resource_bss_tab.rp6wrfodhpb2hcrfgp3x0bga	INTEGER	#	Number of Active PDP Sessions for the interactive QoS Class for Gtpr MSs in a specified BSS	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum, Sum
Avg_act_PDP_Sessions_streaming	hua_sm_resource_bss_tab.wntfrkpyu6c1lt5wabipfwsin5	INTEGER	#	Number of Active PDP Sessions for the streaming QoS Class for Gtpr MSs in a specified BSS	Average	Average, hubnsepbh, hustrafbh, Maximum, Minimum, Sum

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## 6.5 Cell Performance Indicators

- [Cell.Huawei.GPRS.Attach\\_with\\_Cell](#)
- [Cell.Huawei.GPRS.BSSGP\\_with\\_Cell](#)
- [Cell.Huawei.GPRS.Gb\\_cell\\_update](#)
- [Cell.Huawei.GPRS.Gb\\_Mode\\_PDP\\_Context\\_Activation\\_with\\_Cell](#)
- [Cell.Huawei.GPRS.Inter\\_SGSN\\_RAU\\_with\\_Cell](#)
- [Cell.Huawei.GPRS.Intra\\_SGSN\\_RAU\\_with\\_Cell](#)

### 6.5.1 Cell.Huawei.GPRS.Attach\_with\_Cell

Attach with Cell measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Combined_attach_accept	$100 * \frac{\{\text{Combined\_attach\_accept}\}}{\{\text{Combined\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS/IMSI attachment successes within the SGSN.	Average	Average, hucpchbh, huStrafbh
%_GPRS_attach_accept	$100 * \frac{\{\text{GPRS\_attach\_accept}\}}{\{\text{GPRS\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS attachment successes within the SGSN.	Average	Average, hucpchbh, huStrafbh
Attach_reject_Ge_fail	hua_attach_cell_tab.rusdyp60dgcB2ckwctjddyq4g5	INTEGER	#	Number of GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hucpchbh, huStrafbh, Sum
Attach_reject_GPRS_not_allowed_in_PLMN	hua_attach_cell_tab.trgtdks6gmcmusuy5ov6tbhp3s	INTEGER	#	Number of GPRS attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hucpchbh, huStrafbh, Sum
Attach_reject_G	hua_attach_cell_tab.wkbr5	INTEGER	#	Number of	Sum	hucpchbh

PRS_service_not_allowed	xcdm3covrw212noupui4v	ER		GPRS attachment failures within SGSN due to GPRS services not allowed.		, hustrafbhh , Sum
Attach_reject_Gr_fail	hua_attach_cell_tab.vov6cpdl3dcwbekx3udc40f0ns	INTEGER	#	Number of GPRS attachment failures within SGSN due to Gr protocol error.	Sum	hucpchbh , hustrafbhh , Sum
Attach_reject_illegal_ME	hua_attach_cell_tab.yifd6cla63cexca5tnhw6eqjjv	INTEGER	#	Number of GPRS attachment failures within SGSN due to illegal ME.	Sum	hucpchbh , hustrafbhh , Sum
Attach_reject_LA_not_allowed	hua_attach_cell_tab.vbeckdkexwcple2s4vru0ioybf	INTEGER	#	Number of GPRS attachment rejects due to Location Area not allowed.	Sum	hucpchbh , hustrafbhh , Sum
Attach_reject_no_suitable_Cells_in_LA	hua_attach_cell_tab.vvyhybqigcvpcomk14p4udqtr	INTEGER	#	Number of GPRS attachment failures within SGSN due to no suitable cells in LA.	Sum	hucpchbh , hustrafbhh , Sum
Attach_reject_protocol_error	hua_attach_cell_tab.r6x2agkcymc20taja4y1v1r504	INTEGER	#	Number of GPRS attachment failures within SGSN due to protocol error.	Sum	hucpchbh , hustrafbhh , Sum

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Attach_reject_roaming_not_allowed_in_LA	hua_attach_cell_tab.yrh6lpq4p1crltl1gw3mlhkbdh	INTEGER	#	Number of GPRS attachment failures within SGSN due to LA roaming restriction.	Sum	hucpchbh , huStrafbh , Sum
Com_attach_rej_Ge_fail	hua_attach_cell_tab.y1ftrfxl0achhd5604watvaysu	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Ge protocol error.	Sum	hucpchbh , huStrafbh , Sum
Com_attach_rej_GPRS_not_allow	hua_attach_cell_tab.ybqlkye5qvba5cunp0glnm5tr0	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hucpchbh , huStrafbh , Sum
Com_attach_rej_GPRS_srvc_not_allow	hua_attach_cell_tab.tum0dvq3m4b1wcusacytxsoxmx	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to GPRS services not allowed.	Sum	hucpchbh , huStrafbh , Sum
Com_attach_rej_Gr_fail	hua_attach_cell_tab.selcjal4oebqas1dcrsfwl0w2v	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Gr protocol error.	Sum	hucpchbh , huStrafbh , Sum
Com_attach_rej_illegal_ME	hua_attach_cell_tab.u6po6etucwca0exm04rfpgenel	INTEGER	#	Number of combined GPRS/IMSI attachment	Sum	hucpchbh , huStrafbh , Sum

				failures within SGSN due to illegal ME.		
Com_attach_rej_LA_not_allowed	hua_attach_cell_tab.vodpht5t5hbbpejmbtrtlnmnpa	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to Location Area not allowed.	Sum	hucpchbh , huStrafbh , Sum
Com_attach_rej_no_suitable_Cells	hua_attach_cell_tab.wygohtbu5usbwkd1wujbw0bggw	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to LA roaming restriction.	Sum	hucpchbh , huStrafbh , Sum
Com_attach_rej_protocol_error	hua_attach_cell_tab.xujmkiifhgcaqc5g4ejblqsjyu	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to protocol error.	Sum	hucpchbh , huStrafbh , Sum
Com_attach_rej_roam_not_allowed	hua_attach_cell_tab.sqplcpr6f2b6ac0w1ua4nk2nom	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to no suitable cells in LA.	Sum	hucpchbh , huStrafbh , Sum
Combined_attach_accept	hua_attach_cell_tab.yaskjm5wdkbpeuw0jmwex0fscd	INTEGER	#	Number of GPRS/IMSI attachment successes within the	Sum	hucpchbh , huStrafbh , Sum

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				SGSN.		
Combined_attach_reject_illegal_MS	hua_attach_cell_tab.xykl4r3hfib6hepygvdhfv0i01	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to illegal mobile station.	Sum	hucpchbh , huStrafbh , Sum
Combined_attach_request	hua_attach_cell_tab.rev0ivdvrsnussw2udofrlw1p	INTEGER	#	Number of combined GPRS/IMAI attachment requests within the SGSN.	Sum	hucpchbh , huStrafbh , Sum
GPRS_attach_acc_while_IMSI_att	hua_attach_cell_tab.xur0heisnqbamsjmdsg2xyihvd	INTEGER	#	Number of IMSI-attached GPRS attachment successes within the SGSN.	Sum	hucpchbh , huStrafbh , Sum
GPRS_attach_accept	hua_attach_cell_tab.wedoe nq6rdbipd65vnn1kjsj3a	INTEGER	#	Number of GPRS attachment successes within the SGSN.	Sum	hucpchbh , huStrafbh , Sum
GPRS_Attach_reject_illegal_MS	hua_attach_cell_tab.xnyxnhdhyibg2trnprdkjxdesb	INTEGER	#	Number of GPRS attachment rejects due to illegal mobile station.	Sum	hucpchbh , huStrafbh , Sum
GPRS_attach_req_while_IMSI_att	hua_attach_cell_tab.vi6blxxy4mbxbc4uuv3h6kyjlp	INTEGER	#	Number of IMSI-attached GPRS attachment requests within the SGSN.	Sum	hucpchbh , huStrafbh , Sum
GPRS_attach_request	hua_attach_cell_tab.wdjsx4f4bwbqstfmpfajkol6s	INTEGER	#	Number of GPRS	Sum	hucpchbh ,

				attachment requests within the SGSN.		hustrafbh , Sum
GPRS_IMSI_attach_fail_VLR_reject	hua_attach_cell_tab.t3rxbfk4fdbg5uhba5thfsobyi	INTEGER	#	The GPRS attachment succeeds while the IMSI attachment fails (rejected by VLR).	Sum	hucpchbh , hustrafbh , Sum
GPRS_IMSI_attach_fail_MSC_unreach	hua_attach_cell_tab.wwdc2qht5ubycrh3et6qa1y24a	INTEGER	#	The number of times GPRS attachment succeeds but IMSI attachment fails (MSC presently unreachable).	Sum	hucpchbh , hustrafbh , Sum
IMSI_attach_reject_GPRS_not_allowed	hua_attach_cell_tab.t3oo06atymbosueayh3tdpu0fe	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hucpchbh , hustrafbh , Sum
IMSI_attach_reject_GPRS_srvc_not_allow	hua_attach_cell_tab.x0fxe4sqq0c1kcdmiuf1isf400	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hucpchbh , hustrafbh , Sum
IMSI_attach_reject_illegal_ME	hua_attach_cell_tab.ulvowk1l3ebc2dfi4bowod3vbd	INTEGER	#	Number of IMSI-attached GPRS	Sum	hucpchbh , hustrafbh

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				attachment failures within SGSN due to illegal ME.		, Sum
IMSI_att_reject_illegal_MS	hua_attach_cell_tab.spayne kfulbl2t5gnpy4a2ocss	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to illegal mobile station.	Sum	hucpchbh , huStrafbh , Sum
IMSI_att_reject_in_cell_Ge_fail	hua_attach_cell_tab.sem05t n2gjbwntqoqwr5bcap5o	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hucpchbh , huStrafbh , Sum
IMSI_att_reject_in_cell_Gr_fail	hua_attach_cell_tab.tglk0e uv5tc6aseidc2r6flgh0	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Gr protocol error.	Sum	hucpchbh , huStrafbh , Sum
IMSI_att_reject_LA_not_allow	hua_attach_cell_tab.wdr6m gycy2bhdsf4qsrfoqk6g	INTEGER	#	Number of IMSI-attached GPRS attachment of HPLMN users rejects due to Location Area not allowed.	Sum	hucpchbh , huStrafbh , Sum
IMSI_att_reject_no_suitable_Cells	hua_attach_cell_tab.s62tda v1ifcbiul3xrj0bbf2gg	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to no suitable Cells in LA.	Sum	hucpchbh , huStrafbh , Sum

IMSI_att_reject_protocol_error	hua_attach_cell_tab.vts6ko seegcmts6lnqfrvjv1m0	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to protocol error.	Sum	hucpchbh , hustrafbh , Sum
IMSI_att_reject_roam_not_allowed	hua_attach_cell_tab.x0cc31 2yqccqoeylegxjx5x4e	INTEGER	#	Number of IMSI-attached GPRS attachment of non-HPLMN users failures within SGSN due to LA roaming restriction.	Sum	hucpchbh , hustrafbh , Sum

### 6.5.2 Cell.Huawei.GPRS.BSSGP\_with\_Cell

BSSGP with Cell measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
BSSGP_pkts_dropped_due_BVC_overflow	hua_bssgp_cell_tab.tedmhr h00wctmroqoljamvm014	INTEGER	#	Total number of packets dropped due to BVC flow control (Cell Buffer Overflow).	Sum	hucpchbh , hustrafbh , Sum
BSSGP_pkts_dropped_due_MS_overflow	hua_bssgp_cell_tab.w5t22 ee0mxclbciyf2f3tjnlln	INTEGER	#	Total number of packets dropped due to MS flow control (MS Buffer overflow).	Sum	hucpchbh , hustrafbh , Sum

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Cell_block_ack_msg_sent_to_BSS	hua_bssgp_cell_tab.yu5auj0dibct6e21y0400e5has	INTEGER	#	Number of blocking response messages sent from the cell.	Sum	hucpchbh , huStrafbh , Sum
Cell_block_msg_rec_from_BSS	hua_bssgp_cell_tab.s35ju1ngsbcyu53mnptuj2teq	INTEGER	#	Number of blocking messages received by the cell.	Sum	hucpchbh , huStrafbh , Sum
Cell_flow_control_msg_rec_from_BSS	hua_bssgp_cell_tab.sljmp0fp51b0deerduat0t3hw2	INTEGER	#	Number of flow control messages received by the cell.	Sum	hucpchbh , huStrafbh , Sum
Cell_flow_ctrl_ack_msg_sent_to_BSS	hua_bssgp_cell_tab.y3d5c115fpubbc6ympt1gjh2xl	INTEGER	#	Number of response messages for the flow control messages received by the cell.	Sum	hucpchbh , huStrafbh , Sum
Cell_radio_status_msg_rec_from_BSS	hua_bssgp_cell_tab.ux0bv5ullmcvdtg14a5myr2wqt	INTEGER	#	Total number of radio status report messages received from BSS.	Sum	hucpchbh , huStrafbh , Sum
Cell_reset_ack_msg_rec_from_BSS	hua_bssgp_cell_tab.rvnkri6qxbcrndgg6cghknxw00	INTEGER	#	Total number of received cell response messages.	Sum	hucpchbh , huStrafbh , Sum
Cell_reset_ack_msg_sent_to_BSS	hua_bssgp_cell_tab.rg5yttu0uubnubmj2wqbcgthpw	INTEGER	#	Reset response messages sent from the cell.	Sum	hucpchbh , huStrafbh , Sum
Cell_reset_msg_rec_from_BSS	hua_bssgp_cell_tab.w50exdjea4cxssjlkaxky1gqpg	INTEGER	#	Total number of received cell reset messages.	Sum	hucpchbh , huStrafbh , Sum
Cell_reset_msg_sent_to_BS	hua_bssgp_cell_tab.wvf4snxw4ybxwsw553ky4b0vlt	INTEGER	#	Total number of reset	Sum	hucpchbh ,

S				messages sent from the cell.		hustrafbh , Sum
Cell_unblock_ack_msg_sent_to_BSS	hua_bssgp_cell_tab.yvhyxlba6kcs3bfmr0iveaj5em	INTEGER	#	Total number of responses of the cell to the unblocking messages.	Sum	hucpchbh , hustrafbh , Sum
Cell_unblock_msg_rec_from_BSS	hua_bssgp_cell_tab.tq0hhs mms1bqjsp45g1w0gisvb	INTEGER	#	Number of unblocking messages received by the cell.	Sum	hucpchbh , hustrafbh , Sum
Data_pkts_from_NS_and_LLC	hua_bssgp_cell_tab.sewvs v6sh0ch0u4nryvka55o4w	INTEGER	#	Number of downlink and uplink data messages received by PTP.	Sum	hucpchbh , hustrafbh , Sum
DL_data_bytes_dropped_by_BSS	hua_bssgp_cell_tab.t4tuiat mxpceasut2wfl4wglnx	INT8	KBytes	Number of bytes of downlink data reported and dropped at the user side.	Sum	hucpchbh , hustrafbh , Sum
DL_data_kbytes_handled_by_PTP	hua_bssgp_cell_tab.ta0wt6 lqwobyhstxjtfmj6am55	INT8	KBytes	Total downlink data bytes handled by the cell.	Sum	hucpchbh , hustrafbh , Sum
DL_data_pkts_dropped_by_BSS	hua_bssgp_cell_tab.rcpdac jw1scx3tnqo3t54mgct4	INTEGER	#	Number of downlink data reported and dropped at the user side.	Sum	hucpchbh , hustrafbh , Sum
DL_data_pkts_handled_by_PTP	hua_bssgp_cell_tab.ydmd5 fw1wybr5d12s4jy0hdanx	INTEGER	#	Number of downlink data messages processed by	Sum	hucpchbh , hustrafbh , Sum

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				PTP.		
DL_data_pkts_rec_from_LLC	hua_bssgp_cell_tab.u652weo3xkb55cvs62lfgsbw0a	INTEGER	#	Number of downlink messages received by PTP.	Sum	hucpchbh , huStrafbh , Sum
PDU_dropped_pkts_BVC_flowctrl	hua_bssgp_cell_tab.sy4gx14lyucymb4pikcihq2d5c	INTEGER	#	Total number of packets dropped due to PDU lifetime timeout during BVC flow control.	Sum	hucpchbh , huStrafbh , Sum
PDU_dropped_pkts_during_MS_flow_ctrl	hua_bssgp_cell_tab.tfoiprbdjbcukecvpvruxa0sc	INTEGER	#	Total number of packets dropped due to PDU lifetime timeout during MS flow control.	Sum	hucpchbh , huStrafbh , Sum
UL_data_kbytes_handled_by_PTP	hua_bssgp_cell_tab.rbauacr1cvbcfuoxuyl4tclbgd	INT8	KBytes	Total uplink data bytes handled by the cell.	Sum	hucpchbh , huStrafbh , Sum
UL_data_pkts_handled_by_PTP	hua_bssgp_cell_tab.sud16t6jrtey0cmvgtvmqm2vyf	INTEGER	#	Number of uplink data messages processed by PTP.	Sum	hucpchbh , huStrafbh , Sum
UL_data_pkts_rec_from_NS	hua_bssgp_cell_tab.rnxj6rknmtc1ebpxlaj2phesoc	INTEGER	#	Number of uplink data messages received by PTP.	Sum	hucpchbh , huStrafbh , Sum

### 6.5.3 Cell.Huawei.GPRS.Gb\_cell\_update

Gb mode cell update measurement per cell

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Gb_in_cell_update_per_cell	hua_m117440682_tab.saa n6rl3xa2airvh002ind6wbg	INTEGER	#	Gb mode incoming cell update times per cell	Sum	hucpchbh , hustrafbh
Gb_out_cell_update_per_cell	hua_m117440682_tab.saa n6rn3xa2airvh002ind6wbg	INTEGER	#	Gb mode outgoing cell update times per cell	Sum	hucpchbh , hustrafbh

#### 6.5.4 Cell.Huawei.GPRS.Gb\_Mode\_PDP\_Context\_Activation\_with\_Cell

Gb Mode PDP Context Activation with Cell measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_MS_init_IPV4_PDP_act_success	100 * {MS_init_IPV4_PDP_act_success}/ {MS_init_IPV4_PDP_act}	FLOAT	%	Percentage of successful MS-initiated IPv4 PDP context primary activations in a specified cell.	Average	Average, hucpchbh , hustrafbh
%_MS_init_IPV6_PDP_act_success	100 * {MS_init_IPV6_PDP_act_success}/ {MS_init_IPV6_PDP_act}	FLOAT	%	Percentage of successful MS-initiated IPv6 PDP context primary activations in a specified cell.	Average	Average, hucpchbh , hustrafbh
%_MS_init_PDP_act_success_dyn_addr	100 * {MS_init_PDP_act_success_dyn_addr}/ {MS_init_PDP_act_with_dyn_addr}	FLOAT	%	Percentage of successful MS-initiated dynamic PDP context activations in a specified cell.	Average	Average, hucpchbh , hustrafbh
_	100 *	FLOAT	%	Percentage of	Average	Average,

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$\%_{\text{MS\_init\_PDP\_act\_success}}$	$\{\text{MS\_init\_PDP\_act\_success}\} / \{\text{MS\_init\_PDP\_act}\}$			successful MS-initiated PDP context activations in a specified cell.		hucpchbh , hustrafbh
$\%_{\text{Network\_init\_IPv4\_PDP\_act\_success}}$	$100 * \{\text{Network\_init\_IPv4\_PDP\_act\_success}\} / \{\text{Network\_init\_IPv4\_PDP\_act}\}$	FLOAT	%	Percentage of successful MS-initiated IPv4 PDP context network activations in a specified cell.	Average	Average, hucpchbh , hustrafbh
$\%_{\text{Network\_init\_IPv6\_PDP\_act\_success}}$	$100 * \{\text{Network\_init\_IPv6\_PDP\_act\_success}\} / \{\text{Network\_init\_IPv6\_PDP\_act}\}$	FLOAT	%	Percentage of successful MS-initiated IPv6 PDP context network activations in a specified cell.	Average	Average, hucpchbh , hustrafbh
$\%_{\text{Network\_init\_PDP\_act\_success}}$	$100 * \{\text{Network\_init\_PDP\_act\_success}\} / \{\text{Network\_init\_PDP\_act}\}$	FLOAT	%	Percentage of successful MS-initiated PDP context network activations in a specified cell.	Average	Average, hucpchbh , hustrafbh
$\%_{\text{Sec\_IPv4\_PDP\_act\_success}}$	$100 * \{\text{Sec\_IPv4\_PDP\_act\_success}\} / \{\text{Sec\_IPv4\_PDP\_act}\}$	FLOAT	%	Percentage of successful secondary IPv4 PDP context activations in a specified cell	Average	Average, hucpchbh , hustrafbh
$\%_{\text{Sec\_IPv6\_PDP\_act\_success}}$	$100 * \{\text{Sec\_IPv6\_PDP\_act\_success}\} / \{\text{Sec\_IPv6\_PDP\_act}\}$	FLOAT	%	Percentage of successful secondary IPv6 PDP context activations in a specified cell	Average	Average, hucpchbh , hustrafbh
$\%_{\text{Sec\_PDP\_act\_success}}$	$100 * \{\text{Sec\_PDP\_act\_success}\} / \{\text{Sec\_PDP\_act}\}$	FLOAT	%	Percentage of successful secondary PDP context	Average	Average, hucpchbh , hustrafbh

				activations in a specified cell		
_2G_PDP_fail_ APN_Restrict_ CELL	hua_gb_mode_pdpact_cell _tab.saan6o63xa2airvh002i nd6wbq	INTEG ER	#	Number of PDP activation failures in a specified cell ( due to APN Restriction).	Sum	hucpchbh , hustrafbh , Sum
Foreign_subscri bers_PDP_act_ accept	hua_gb_mode_pdpact_cell _tab.wi22fgv3cbc00snesm 5pg3wtx6	INTEG ER	#	Number of ForeignMS activation accepts in 2G in a specified cell	Sum	hucpchbh , hustrafbh , Sum
Foreign_subscri bers_PDP_act_r eject	hua_gb_mode_pdpact_cell _tab.vjxryhwp6cbt4d5rtgq dpf5ef	INTEG ER	#	Number of ForeignMS activation rejects in 2G in a specified cell	Sum	hucpchbh , hustrafbh , Sum
Foreign_subscri bers_PDP_act_r equest	hua_gb_mode_pdpact_cell _tab.s04enl1smcc3arswf3f oximhtw	INTEG ER	#	Number of activation (including both primary activation and secondary PDP context activation) requests received from a ForeignMS in 2G in a specified cell.	Sum	hucpchbh , hustrafbh , Sum
MS_init_IPV4_ PDP_act_succe ss	hua_gb_mode_pdpact_cell _tab.r2a4bijdspc53trf5wx fvwerw2	INTEG ER	#	Number of successful MS- initiated IPv4 PDP context primary activations in a	Sum	hucpchbh , hustrafbh , Sum

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				specified cell.		
MS_init_IPV4_PDP_act	hua_gb_mode_pdpact_cell _tab.wo4262oy32cjvbfodjn qvvp5t3	INTEGER	#	Number of MS-initiated IPv4 PDP context primary activation attempts in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
MS_init_IPV4_PDP_ctx_act_rej	hua_gb_mode_pdpact_cell _tab.x46wc4354abv2uwxsl cnd4cmhi	INTEGER	#	Number of rejected MS-initiated IPv4 PDP context activations in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
MS_init_IPV6_PDP_act_success	hua_gb_mode_pdpact_cell _tab.tfai6bmykbjndrgheh 3latvv	INTEGER	#	Number of successful MS-initiated IPv6 PDP context primary activations in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
MS_init_IPV6_PDP_act	hua_gb_mode_pdpact_cell _tab.vmkppmbj3ocearenno v3ykyrux	INTEGER	#	Number of MS-initiated IPv6 PDP context primary activation attempts in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
MS_init_IPV6_PDP_ctx_act_rej	hua_gb_mode_pdpact_cell _tab.r6hypfb263b4ru1jvl1k vmus0w	INTEGER	#	Number of rejected MS-initiated IPv6 PDP context activations in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
MS_init_PDP_act_reject_dyn_addr	hua_gb_mode_pdpact_cell _tab.uexxu0whcyldgseoc ygm6ifo	INTEGER	#	Number of reject of MS-initiated PDP context activation using dynamic PDP address in a specified cell.	Sum	hucpchbh , huStrafbh , Sum

MS_init_PDP_act_success_dyn_addr	hua_gb_mode_pdpact_cell_tab.t1iyqrk0mkceaut0uukxulgja6	INTEGER	#	Number of successful MS-initiated dynamic PDP context activations in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
MS_init_PDP_act_success	hua_gb_mode_pdpact_cell_tab.yveexb4pctbr2uc4i11v2cr4cc	INTEGER	#	Number of successful MS-initiated PDP context activations in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
MS_init_PDP_act_with_dyn_addr	hua_gb_mode_pdpact_cell_tab.vep3wnvpoeblbrw4stgchjceyl	INTEGER	#	Number of MS-initiated session activation requests using dynamic address in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
MS_init_PDP_act	hua_gb_mode_pdpact_cell_tab.sk3ylbfpddb2pd6lwqh200xov	INTEGER	#	Number of MS-initiated PDP context activation attempts in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
Network_init_IPv4_PDP_act_success	hua_gb_mode_pdpact_cell_tab.tm5d3ql20hbrsb6kdd16tmfkcpc	INTEGER	#	Number of successful MS-initiated IPv4 PDP context network activations in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
Network_init_IPv4_PDP_act	hua_gb_mode_pdpact_cell_tab.w5ufr0y5wjrbortbi3smuhobio0	INTEGER	#	Number of MS-initiated IPv4 PDP context network	Sum	hucpchbh , huStrafbh , Sum

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				activation attempts in a specified cell.		
Network_init_IPV6_PDP_act_success	hua_gb_mode_pdpact_cell_tab.xfqhpqmsclcssdticvrvtv6lc	INTEGER	#	Number of successful MS-initiated IPv6 PDP context network activations in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
Network_init_IPV6_PDP_act	hua_gb_mode_pdpact_cell_tab.vnoyd50hcccq3rsb33hxhtr43d	INTEGER	#	Number of MS-initiated IPv6 PDP context network activation attempts in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
Network_init_PDP_act_success	hua_gb_mode_pdpact_cell_tab.vp3lw6rewictqd0edyubjqc1f	INTEGER	#	Number of successful MS-initiated PDP context network activations in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
Network_init_PDP_act	hua_gb_mode_pdpact_cell_tab.wnjltokxtcarrxry0o0heet5u	INTEGER	#	Number of MS-initiated PDP context network activation attempts in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_DNS_resolution_fail	hua_gb_mode_pdpact_cell_tab.v52bdr4cddcjtr62ssngx1qnf5	INTEGER	#	Number of activation failures in a specified cell ( due to DNS resolution failure).	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_Ge_fail	hua_gb_mode_pdpact_cell_tab.squ143tp06bfeudxbspdgsrr6d	INTEGER	#	Number of activation failures in a specified cell	Sum	hucpchbh , huStrafbh , Sum

				( due to Ge interface failure).		
PDP_act_fail_1ack_net_resources	hua_gb_mode_pdpact_cell_tab.s2u6wglw3icmxcdna3lnhxmaov	INTEGER	#	Number of activation failures in a specified cell ( due to insufficient network resource).	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_missing_or_unknownw_APN	hua_gb_mode_pdpact_cell_tab.ve0fqlgc2acj1roft3616lro6e	INTEGER	#	Number of activation failures in a specified cell (due to unknown APN)	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_ODB	hua_gb_mode_pdpact_cell_tab.wy455yjbX0csy5w1ttbk6lm	INTEGER	#	Number of activation failures in a specified cell (due to ODB).	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_QoS_negotiation_fail	hua_gb_mode_pdpact_cell_tab.v0ls44gdr0ch5s5vixvpXjdd5b	INTEGER	#	Number of activation failures in a specified cell ( due to QoS negotiation failure).	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_rejected_by_GGSN	hua_gb_mode_pdpact_cell_tab.u6bi3vpj6hbhxpci0dsWmi6cy	INTEGER	#	Number of activation failures in a specified cell (due to GGSN reject)	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_service_not_supported	hua_gb_mode_pdpact_cell_tab.v60111kqrkadek2a62ikbehvc	INTEGER	#	Number of activation failures in a	Sum	hucpchbh , huStrafbh

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				specified cell (due to services not supported)		, Sum
PDP_act_fail_service_unsubscribed	hua_gb_mode_pdpact_cell _tab.uexc000bn6bb2u63fiu q62peed	INTEGER	#	Number of activation failures in a specified cell ( due to un- subscribed service).	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_Ugbi_PDP_Cong	hua_gb_mode_pdpact_cell _tab.ywikhg6ow6bswbbmy hvic5boc3	INTEGER	#	Number of activation failures in a specified cell ( due to PDP congestion of UGBI)	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_Unkown_PDP	hua_gb_mode_pdpact_cell _tab.x50ebd0f2lc4kcyx2eja aithb	INTEGER	#	Number of activation failures in a specified cell (due to unknown PDP address or type)	Sum	hucpchbh , huStrafbh , Sum
PDP_act_fail_user_auth_fail	hua_gb_mode_pdpact_cell _tab.wh10wpfyj1bp3bm5e 33kbx1fij	INTEGER	#	Number of activation failures in a specified cell ( due to subscriber authentication failure).	Sum	hucpchbh , huStrafbh , Sum
PDP_act_reject	hua_gb_mode_pdpact_cell _tab.vsepusvcgsbcft1xggvn 3pgqmv	INTEGER	#	Number of activation rejects in a specified cell	Sum	hucpchbh , huStrafbh , Sum
PDP_ctx_act_fail_Unspecified_Reason	hua_gb_mode_pdpact_cell _tab.tcj3swqrlfb3dc6616dj 2yjagf	INTEGER	#	2G PDP ctx act fail (Unspecified Reason) in a specified cell.	Sum	hucpchbh , huStrafbh , Sum

PDP_ctx_sec_act_fail_No_Reason	hua_gb_mode_pdpact_cell_tab.ss6n0x0bv6cdnuufwgerlkd361	INTEGER	#	2G PDP ctx sec act fail (Unspecified Reason) in a specified cell.	Sum	hucpchbh , huStrafbh , Sum
Sec_IPV4_PDP_act_success	hua_gb_mode_pdpact_cell_tab.y5k0p5t21hbqrsvlak3qk2l43w	INTEGER	#	Number of successful secondary IPv4 PDP context activations in a specified cell	Sum	hucpchbh , huStrafbh , Sum
Sec_IPV4_PDP_act	hua_gb_mode_pdpact_cell_tab.ug0j265dyicoody5mpisex0poh6	INTEGER	#	Number of secondary IPv4 PDP context activation requests in a specified cell	Sum	hucpchbh , huStrafbh , Sum
Sec_IPV6_PDP_act_success	hua_gb_mode_pdpact_cell_tab.whlq4dta0wbbgr6x64olifpaum	INTEGER	#	Number of successful secondary IPv6 PDP context activations in a specified cell	Sum	hucpchbh , huStrafbh , Sum
Sec_IPV6_PDP_act	hua_gb_mode_pdpact_cell_tab.wh0awawv02cmattr33hwih0xv	INTEGER	#	Number of secondary IPv6 PDP context activation requests in a specified cell	Sum	hucpchbh , huStrafbh , Sum
Sec_PDP_act_fail_Ge_fail	hua_gb_mode_pdpact_cell_tab.yaywnf1lpSci5soycai5h4lvtc	INTEGER	#	Number of secondary PDP context activation failures in a specified cell (due to Ge interface failure).	Sum	hucpchbh , huStrafbh , Sum

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Sec_PDP_act_fail_GGSN_reject	hua_gb_mode_pdpact_cell_tab.tcjnri2k3hcfid1v0oj4x6rs06	INTEGER	#	Number of secondary PDP context activation failures in a specified cell (due to GGSN reject)	Sum	hucpchbh , huStrafbh , Sum
Sec_PDP_act_fail_lack_net_resources	hua_gb_mode_pdpact_cell_tab.sdd0arfwx1bkeuqsqtm22dnxy1	INTEGER	#	Number of secondary PDP context activation failures in a specified cell (due to insufficient network resource).	Sum	hucpchbh , huStrafbh , Sum
Sec_PDP_act_fail_ODB	hua_gb_mode_pdpact_cell_tab.vl4i2c6ghucbbsowaieahwxrml	INTEGER	#	Number of secondary PDP context activation failures in a specified cell (due to ODB).	Sum	hucpchbh , huStrafbh , Sum
Sec_PDP_act_fail_Ugbi_PDP_Cong	hua_gb_mode_pdpact_cell_tab.te5lw43kobb1dcxo6q6laeef6l	INTEGER	#	Number of secondary PDP context activation failures in a specified cell (due to PDP congestion of UGBI)	Sum	hucpchbh , huStrafbh , Sum
Sec_PDP_act_fail_unkown_PDP_ctx	hua_gb_mode_pdpact_cell_tab.wo03621yevbigtrgt2cydpecia	INTEGER	#	Number of secondary PDP context activation failures in a specified cell (due to unknown PDP context)	Sum	hucpchbh , huStrafbh , Sum

Sec_PDP_act_reject	hua_gb_mode_pdpact_cell_tab.umhplvaagjc2au1fxw03dnileo	INTEGER	#	Number of secondary PDP context activation rejects in a specified cell	Sum	hucpchbh, huStrafbh, Sum
Sec_PDP_act_success	hua_gb_mode_pdpact_cell_tab.xaptpwb05uc3te416ci60uoxah	INTEGER	#	Number of successful secondary PDP context activations in a specified cell	Sum	hucpchbh, huStrafbh, Sum
Sec_PDP_act	hua_gb_mode_pdpact_cell_tab.yqkeqpnflkbaqco5oh66sqjqux	INTEGER	#	Number of secondary PDP context activation requests in a specified cell	Sum	hucpchbh, huStrafbh, Sum

### 6.5.5 Cell.Huawei.GPRS.Inter\_SGSN\_RAU\_with\_Cell

Inter SGSN RAU with Cell measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Com_RAU_success	$100 * \frac{\{\text{Com\_RAU\_success}\}}{\{\text{Com\_RAU\_request}\}}$	FLOAT	%	Percentage of successful combined inter-SGSN RAU updates.	Average	Average, hucpchbh, huStrafbh
%_RAU_success	$100 * \frac{\{\text{RAU\_success}\}}{\{\text{RAU\_request}\}}$	FLOAT	%	Percentage of inter-SGSN RAU successes within this SGSN area.	Average	Average, hucpchbh, huStrafbh
Com_RAU_reject_Ge_fail	hua_inter_sgsn_rau_cell_tab.uv0ifag5tgclxdrk6r1pjng	INTEGER	#	Number of inter-SGSN	Sum	hucpchbh,

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	4gx			combined RA/ LA update failures due to Ge protocol error.		hustrafbh , Sum
Com_RAU_rej ect_GPRS_srvc _not_allow	hua_inter_sgsn_rau_cell_ta b.yq3pqgkejfbnkurwlvxdv 511ha	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to illegal ME.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_rej ect_Gr_fail	hua_inter_sgsn_rau_cell_ta b.rrd6rhgkunbvxbcfb5nflf hbt	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to Gr protocol error.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_rej ect_illegal_ME	hua_inter_sgsn_rau_cell_ta b.vrebgтуce4cpausdevap5k 051x	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to illegal ME.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_rej ect_illegal_MS	hua_inter_sgsn_rau_cell_ta b.scamxofbrhboarb0abkoli xf6h	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to illegal mobile station.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_rej ect_implicitly_ detached	hua_inter_sgsn_rau_cell_ta b.u2lstt52embyoeejn0a2sto 3ss	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to GPRS service not allowed.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_rej ect_LA_not_all owed	hua_inter_sgsn_rau_cell_ta b.xk42b321ulbfquer0p1xfa igge	INTEG ER	#	Number of inter-SGSN combined RA/ LA update	Sum	hucpchbh , hustrafbh , Sum

				failures due to location area not allowed.		
Com_RAU_reject_no_suitable_Cells	hua_inter_sgsn_rau_cell_talb.t6v5mwnw2ucyetqu6ln50ljfed	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to no suitable cells in LA.	Sum	hucpchbh , huStrafbh , Sum
Com_RAU_reject_protocol_error	hua_inter_sgsn_rau_cell_talb.r0qyvfm5ubhnb2in3amegof56	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to protocol error.	Sum	hucpchbh , huStrafbh , Sum
Com_RAU_reject_roam_not_allowed	hua_inter_sgsn_rau_cell_talb.ug2ciwo6wpbx0bvnog5m4bpdhn	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.	Sum	hucpchbh , huStrafbh , Sum
Com_RAU_reject_serv_not_allowed	hua_inter_sgsn_rau_cell_talb.vbhgspn4hscn4blnt5swrnsvgf	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service not allowed in this PLMN.	Sum	hucpchbh , huStrafbh , Sum
Com_RAU_request	hua_inter_sgsn_rau_cell_talb.xy6skvu51ybvkdjqcjq4jdo5m5	INTEGER	#	Number of inter-SGSN combined RA/LA update requests.	Sum	hucpchbh , huStrafbh , Sum
Com_RAU_suc	hua_inter_sgsn_rau_cell_ta	INTEGER	#	Number of	Sum	hucpchbh

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cess	b.udfgpofngectvutlv4c00shoiw	ER		successful combined inter-SGSN RAU updates.		, hustrafbh , Sum
Gb_mode_inter_SGSN_Com_RAU_reject_MS_identity_cannot_be_derived_by_the_network_per_cell	hua_inter_sgsn_rau_cell_talb.vey2h0uvwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of inter-SGSN combined RA/LA update failures due to MS identity cannot be derived by the network.	Sum	hucpchbh , hustrafbh , Sum
Gb_mode_inter_SGSN_RAU_reject_MS_identity_cannot_be_derived_by_the_network_per_cell	hua_inter_sgsn_rau_cell_talb.vey2h0svwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of inter-SGSN RAU failures due to MS identity cannot be derived by the network.	Sum	hucpchbh , hustrafbh , Sum
InterSGRAU_out_rej_per_cell	hua_inter_sgsn_rau_cell_talb.saan6fl3xa2airvh002ind6wbg	INTEGER	#	Number of inter-SGSN RAU outgoing fails within the SGSN area.	Sum	hucpchbh , hustrafbh , Sum
InterSGRAU_out_succ_per_cell	hua_inter_sgsn_rau_cell_talb.saan6fj3xa2airvh002ind6wbg	INTEGER	#	Number of inter-SGSN RAU outgoing successes within the SGSN area.	Sum	hucpchbh , hustrafbh , Sum
RAU_accept_LAU_reject_MS_C_unreach	hua_inter_sgsn_rau_cell_talb.w4uqbc60dwbtnt2u4hrep hmuvn	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily	Sum	hucpchbh , hustrafbh , Sum

				unreachable in the process of combined inter-SGSN updates.		
RAU_accept_L AU_reject_VL R_reject	hua_inter_sgsn_rau_cell_ta b.yxqdtm2epfckouxqp5rxq 3c3sa	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined inter-SGSN updates.	Sum	hucpchbh , huStrafbh , Sum
RAU_complete _msg_rec	hua_inter_sgsn_rau_cell_ta b.x04dqr5p5hcs2d0n0vglw mchkh	INTEGER	#	Number of times inter-SGSN RAU is completed.	Sum	hucpchbh , huStrafbh , Sum
RAU_reject_Ge _fail	hua_inter_sgsn_rau_cell_ta b.wl45hgm2a1ctirltnq1fhg uu3a	INTEGER	#	Number of inter-SGSN RAU failures due to Ge protocol error.	Sum	hucpchbh , huStrafbh , Sum
RAU_reject_G PRS_service_n ot_allowed	hua_inter_sgsn_rau_cell_ta b.xv6qloddtqbnmu4em0qa 6wkkv1	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service not allowed.	Sum	hucpchbh , huStrafbh , Sum
RAU_reject_Gr _fail	hua_inter_sgsn_rau_cell_ta b.ydii2mbn5kcsfehwwugw v4iseu	INTEGER	#	Number of inter-SGSN RAU failures due to Gr protocol error.	Sum	hucpchbh , huStrafbh , Sum
RAU_reject_ill egal_ME	hua_inter_sgsn_rau_cell_ta b.u45ce3npyhcjae54agmmj 0hqtr	INTEGER	#	Number of inter-SGSN RAU failures due to illegal	Sum	hucpchbh , huStrafbh , Sum

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				ME.		
RAU_reject_illegal_MS	hua_inter_sgsn_rau_cell_talb.rlgncsbqalberujwc2ru31u2qh	INTEGER	#	Number of inter-SGSN RAU failures due to illegal mobile station.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_implicitly_detached	hua_inter_sgsn_rau_cell_talb.svqlmjo3yyerjt5it2qrnmtq	INTEGER	#	Number of inter-SGSN RAU failures due to implicitly detached.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_LA_not_allowed	hua_inter_sgsn_rau_cell_talb.t0pdbuawhkbahs60oahuw6n50x	INTEGER	#	Number of inter-SGSN RAU failures due to location area not allowed.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_no_suitable_Cells_in_LA	hua_inter_sgsn_rau_cell_talb.ve4flo42drbgtc34nlramfwcvu	INTEGER	#	Number of inter-SGSN RAU failures due to no suitable cells in LA.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_protocol_error	hua_inter_sgsn_rau_cell_talb.xdqgrxcqxmdbdqsobj64qt2vuxs	INTEGER	#	Number of inter-SGSN RAU failures due to protocol error.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_roam_not_allowed_in_LA	hua_inter_sgsn_rau_cell_talb.wwfqdqvuqnbjtsfyxytpy3pbn	INTEGER	#	Number of inter-SGSN RAU failures due to roaming not allowed in this Location area.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_service_not_allowed_in_PLMN	hua_inter_sgsn_rau_cell_talb.xquvf1jxhac3gu61gwg15kcgd2	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service not	Sum	hucpchbh , hustrafbh , Sum

				allowed in this PLMN.		
RAU_request	hua_inter_sgsn_rau_cell_ta b.uyw1vipwtqcwse2eahgb nndcko	INTEGER	#	Number of inter-SGSN RAU requests within the SGSN area.	Sum	hucpchbh , huStrafbh , Sum
RAU_success	hua_inter_sgsn_rau_cell_ta b.vgqamx1sesbb2uepil0yiu xbtm	INTEGER	#	Number of inter-SGSN RAU successes within this SGSN area.	Sum	hucpchbh , huStrafbh , Sum

### 6.5.6 Cell.Huawei.GPRS.Intra\_SGSN\_RAU\_with\_Cell

Intra SGSN RAU with Cell measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Com_RAU_success	$100 * \frac{\{Com\_RAU\_success\}}{\{Com\_RAU\_request\}}$	FLOAT	%	Percentage of successful combined intra-SGSN RAU updates.	Average	Average, hucpchbh , huStrafbh
%_RAU_success	$100 * \frac{\{RAU\_success\}}{\{RAU\_request\}}$	FLOAT	%	Percentage of intra-SGSN RAU successes within this SGSN area.	Average	Average, hucpchbh , huStrafbh
Com_RAU_reject_Ge_fail	hua_intra_sgsn_rau_cell_t ab.ydt0biy1ahb2kswsqtv olrlroc	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hucpchbh , huStrafbh , Sum

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Com_RAU_reject_Gr_fail	hua_intra_sgsn_rau_cell_t ab.t2ddtqyy6xbv1b6utpbx bapshp	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_reject_illegal_MS	hua_intra_sgsn_rau_cell_t ab.w30gpxasrob1wskfogx g2lpekg	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_reject_implicitly_detached	hua_intra_sgsn_rau_cell_t ab.wlgaswiooac04b6myq3 xh0iygc	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to implicitly detached.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_reject_LA_not_allowed	hua_intra_sgsn_rau_cell_t ab.xchh6uxep6c3ruqgixcrd lby2g	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_reject_no_suitable_Cells	hua_intra_sgsn_rau_cell_t ab.x6t6po0x2vcxjucqq26i3 3gldp	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to no suitable cells in LA.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_reject_protocol_error	hua_intra_sgsn_rau_cell_t ab.treg3t4c50c2lud2enxcm f2hj3	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to protocol error.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_rej	hua_intra_sgsn_rau_cell_t	INTEGER	#	Number of	Sum	hucpchbh

ect_roaming_not_allow	ab.wfhuyvp6qybncskjeyd srl1bs	ER		intra-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.		, hustrafbh , Sum
Com_RAU_request	hua_intra_sgsn_rau_cell_t ab.y1d5mq6joibwguv5dwc ipu4x4j	INTEGER	#	Number of intra-SGSN combined RA/LA update requests.	Sum	hucpchbh , hustrafbh , Sum
Com_RAU_success	hua_intra_sgsn_rau_cell_t ab.tjpshlnlvhbx6r3bky22c hkjxi	INTEGER	#	Number of successful combined intra-SGSN RAU updates.	Sum	hucpchbh , hustrafbh , Sum
RAU_accept_LAU_reject_MSC_unreach	hua_intra_sgsn_rau_cell_t ab.xwwubd6jgpbhlrt62duc j223xj	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined intra-SGSN updates.	Sum	hucpchbh , hustrafbh , Sum
RAU_accept_LAU_reject_VLR_reject	hua_intra_sgsn_rau_cell_t ab.rvjkselvr cate3vvvii1r1 jub	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined intra-SGSN updates.	Sum	hucpchbh , hustrafbh , Sum
RAU_complete_message_rec	hua_intra_sgsn_rau_cell_t ab.tyyyqlw36gbscbukyxdp	INTEGER	#	Number of times intra-	Sum	hucpchbh ,

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	3fet3w			SGSN RAU is completed .		hustrafbh , Sum
RAU_reject_Ge_fail	hua_intra_sgsn_rau_cell_t ab.wonnoyqen3bukt64501e6bit3o	INTEGER	#	Number of intra-SGSN RAU failures due to Ge protocol error.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_Gr_fail	hua_intra_sgsn_rau_cell_t ab.xxdtlthssmb6fbc2utybqa5trw	INTEGER	#	Number of intra-SGSN RAU failures due to Gr protocol error.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_illegal_MS	hua_intra_sgsn_rau_cell_t ab.tqocoal6fucyycabsoj1xos5pq	INTEGER	#	Number of intra-SGSN RAU failures due to illegal mobile station.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_implicitly_detached	hua_intra_sgsn_rau_cell_t ab.xgybciobsvboicno325i0enrsn	INTEGER	#	Number of intra-SGSN RAU failures due to implicitly detached.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_LA_not_allowed	hua_intra_sgsn_rau_cell_t ab.tawuhm3qgmb32svubm2jiyfpjx	INTEGER	#	Number of intra-SGSN RAU failures due to location area not allowed.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_no_suitable_Cells	hua_intra_sgsn_rau_cell_t ab.ujkf1kpqygc4xcvdfxskvwjse5	INTEGER	#	Number of intra-SGSN RAU failures due to no suitable cells in LA.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_protocol_error	hua_intra_sgsn_rau_cell_t ab.ycoaea1kkacfytirccs20ud1d0	INTEGER	#	Number of intra-SGSN RAU failures due to protocol error.	Sum	hucpchbh , hustrafbh , Sum
RAU_reject_ro	hua_intra_sgsn_rau_cell_t	INTEGER	#	Number of	Sum	hucpchbh

aming_not_allowed	ab.sl0sw5jvkbgfstrfljd6ccpuh	ER		intra-SGSN RAU failures due to roaming not allowed in this Location area.		, hustrafbhh, Sum
RAU_request	hua_intra_sgsn_rau_cell_t ab.x501pmkyl1bh5clv0pdhtvuhar	INTEGER	#	Number of intra-SGSN RAU requests within the SGSN area.	Sum	hucpchbh, hustrafbhh, Sum
RAU_success	hua_intra_sgsn_rau_cell_t ab.y34bfmxuxkciaiegyrurbyywh	INTEGER	#	Number of intra-SGSN RAU successes within this SGSN area.	Sum	hucpchbh, hustrafbhh, Sum

## 6.6 CG\_IP\_Port Performance Indicators

- [CG\\_IP\\_Port.Huawei.GPRS.Ga\\_Interface](#)

### 6.6.1 CG\_IP\_Port.Huawei.GPRS.Ga\_Interface

Ga Interface measurement

The performance data measurements for this KPI group are recorded against the combination of CG\_IP\_Port and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
CDR_Transfer_Fail_CDR_decoding_err	hua_ga_interface_tab.xk4t0eftgqc6hemvb2hnp00x3j	INTEGER	#	Number of failures in transmitting CDRs to the CG due to the error in decoding.	Sum	Sum

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CDR_Transfer_Fail_dup_req_fulfil	hua_ga_interface_tab.sgmga ahk1kmc3auem1s2oscpb5p	INTEGER	#	Number of failures in transmitting CDRs to the CG due to that the duplicated request is fulfilled.	Sum	Sum
CDR_Transfer_Fail_Invalid_format	hua_ga_interface_tab.wnda byaxikc1nurdly6r1ejay2	INTEGER	#	Number of failures in transmitting CDRs to the CG due to that the message format is invalid.	Sum	Sum
CDR_Transfer_Fail_Mand_IE_incorr	hua_ga_interface_tab.vrin0 h5snablmevnuog322cabd	INTEGER	#	Number of failures in transmitting CDRs to the CG due to the error with the mandatory IE.	Sum	Sum
CDR_Transfer_Fail_Mand_IE_miss	hua_ga_interface_tab.vu2m a0q4qgbxdb32d40gdeqg22	INTEGER	#	Number of failures in transmitting CDRs to the CG due to the missing of the mandatory IE.	Sum	Sum
CDR_Transfer_Fail_No_Resource_Avail	hua_ga_interface_tab.t5ucc p5n4ubv4t36egarhkfdwi	INTEGER	#	Number of failures in transmitting CDRs to the CG due to that no resource is available.	Sum	Sum
CDR_Transfer_Fail_Opt_IE_incorr	hua_ga_interface_tab.ymod 0ftbc4clktksfv5cf63w5h	INTEGER	#	Number of failures in transmitting CDRs to the CG due to the error with the	Sum	Sum

				optional IE.		
CDR_Transfer_Fail_Req_not_fulfil	hua_ga_interface_tab.ul5k wsgseybbbsrjav00veu3rg	INTEGER	#	Number of failures in transmitting CDRs to the CG due to that the request is not fulfilled.	Sum	Sum
CDR_Transfer_Fail_request_fulfil	hua_ga_interface_tab.xocm 2s4bekcm5uhkmhn01mvrg y	INTEGER	#	Number of failures in transmitting CDRs to the CG due to that the request is fulfilled.	Sum	Sum
CDR_Transfer_Fail_Srvc_not_supp	hua_ga_interface_tab.udqs chmxvacwctimhenv3bh4ay	INTEGER	#	Number of failures in transmitting CDRs to the CG due to that the service is not supported.	Sum	Sum
CDR_Transfer_Fail_Sys_Fail	hua_ga_interface_tab.u6cff fv0hsc1ndeuldgvgglnf	INTEGER	#	Number of failures in transmitting CDRs to the CG due to the system failure.	Sum	Sum
CDR_Transfer_Fail_Ver_not_supp	hua_ga_interface_tab.solil2 k1lfb4yrj6lx04n1nfve	INTEGER	#	Number of failures in transmitting CDRs to the CG due to that the version is not supported.	Sum	Sum
CDR_Transfer_Req_Cancel_cmd	hua_ga_interface_tab.rv6pa nxplabhhedmsbwh23qbpj	INTEGER	#	Number of requests delivered to the	Sum	Sum

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				CDR transmitting band of the CG for canceling the command word.		
CDR_Transfer_Req_Release_cmd	hua_ga_interface_tab.yfkc mu5jwack1d65ihkab0v1uq	INTEGER	#	Number of requests delivered to the CDR transmitting band of the CG for releasing the command word.	Sum	Sum
CDR_Transfer_Req_Send_cmd	hua_ga_interface_tab.yg6jb fndtecmrevcptlbuwapcn	INTEGER	#	Number of requests delivered to the CDR transmitting band of the CG for transmitting the command word.	Sum	Sum
CDR_Transfer_Req_Send_Dup_cmd	hua_ga_interface_tab.tpoyv nimalbe6eyhp2gdt2m52o	INTEGER	#	Number of requests delivered to the CDR transmitting band of the CG for delivering the possibly duplicated command word.	Sum	Sum
CDR_Transfer_Success	hua_ga_interface_tab.v221 q20ercjldp6054hikfpr5	INTEGER	#	Number of successes in transmitting CDRs to the CG.	Sum	Sum
CDRs_sent_to CG	hua_ga_interface_tab.vcyy egjpuubqvutp4x025h00g0	INTEGER	CDRs	Number of CDRs the SGSN delivers to the CG.	Sum	Sum

CG_redirection_fail	hua_ga_interface_tab.smi14vwuuvbkylr23lm3xxi25g6	INTEGER	#	Number of failures of the SGSN redirecting the CDR to other CGs.	Sum	Sum
Illegal_message_rcvd_from_CG	hua_ga_interface_tab.y5k4lsl1ywhbhbbrt6lujg4mlqlv	INTEGER	#	Number of invalid messages the SGSN receives from the CG.	Sum	Sum
Kbytes_of_CDRs_sent_to_CG	hua_ga_interface_tab.vfbkjdtutmcn5saqdg1g46n6e0	INT8	KBytes	The length of the CDR the SGSN delivers to the CG (unit: Kbyte).	Sum	Sum
LCS_MO_CDRs_sent_to_CG	hua_ga_interface_tab.s4pq4o5jjecrxu1lfahqcqlapq	INTEGER	CDRs	Number of LCS-MO-CDRs the SGSN delivers to the CG.	Sum	Sum
LCS_MT_CDRs_sent_to_CG	hua_ga_interface_tab.stwuwoctmbreuepb66v5u0fkm	INTEGER	CDRs	Number of LCS-MT-CDRs the SGSN delivers to the CG.	Sum	Sum
LCS_NI_CDRs_sent_to_CG	hua_ga_interface_tab.vtyxc0ynavbpcc43clqh1qh5tf	INTEGER	CDRs	Number of LCS-NI-CDRs the SGSN delivers to the CG.	Sum	Sum
M_CDRs_sent_to_CG	hua_ga_interface_tab.t55ewnaimbhftid2uadxt4ll	INTEGER	CDRs	Number of M-CDRs the SGSN delivers to the CG.	Sum	Sum
Max_CDRs_per_second_sent	hua_ga_interface_tab.sgjewnvawmbkfbkl2kt1u3ptrv	INTEGER	CDRs	The maximum number of	Average	Average, Maximum

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t_to_CG				CDRs delivered to the CG within one second.		m, Minimum, Sum
Redirection_request_rec_from_CG	hua_ga_interface_tab.ssjatewahyboob24mwt125wiwk	INTEGER	#	Number of redirection requests the SGSN receives from the CG.	Sum	Sum
S_CDRs_sent_to_CG	hua_ga_interface_tab.u3fatps66bcr3cfnjhbj5hksqf	INTEGER	CDRs	Number of S-CDRs the SGSN delivers to the CG.	Sum	Sum
S_SMO_CDRs_sent_to_CG	hua_ga_interface_tab.wvbuw4qummcicuu4ecdxan0ofu	INTEGER	CDRs	Number of S-SMO-CDRs the SGSN delivers to the CG.	Sum	Sum
S_SMT_CDRs_sent_to_CG	hua_ga_interface_tab.upyp6n11hjbwgcsj2pp6itfnco	INTEGER	CDRs	Number of S-SMT-CDRs the SGSN delivers to the CG.	Sum	Sum
SGSN_and_CG_com_interruption	hua_ga_interface_tab.vancbj4mrsc6isyyqybgvrmtdgs	INTEGER	#	Number of communication interruptions between the SGSN and the CG.	Sum	Sum

## 6.7 DNS Performance Indicators

- [DNS.Huawei.GPRS.DNS\\_inquiries](#)

### 6.7.1 DNS.Huawei.GPRS.DNS\_inquiries

DNS inquiry measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
DNS_inquiry_attempts	hua_m117440688_tab.saan6t03xa2airvh002ind6wb	INTEGER	#	Number of DNS inquiry attempts	Sum	

	g			on a specific DNS server		
Failed_DNS_inquiries	hua_m117440688_tab.saa n6t23xa2airvh002ind6wb g	INTEGER	#	Number of failed DNS inquiries on a specific DNS server	Sum	

## 6.8 Gb\_Fwd\_Channel Performance Indicators

- [Gb\\_Fwd\\_Channel.Huawei.GPRS.Gb\\_fwd\\_channel](#)

### 6.8.1 Gb\_Fwd\_Channel.Huawei.GPRS.Gb\_fwd\_channel

SGSN 2G backup data forward channel

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
SG_2G_bak_avg_receiving_rate	hua_m117440685_tab.saa n6sj3xa2airvh002ind6wbg	INT8	Kbytes/s	Average receiving rate of the forward channel	Average	hustrafbh, Sum, Minimum, Maximum
SG_2G_bak_avg_sending_rate	hua_m117440685_tab.saa n6sb3xa2airvh002ind6wb g	INT8	Kbytes/s	Average sending rate of the forward channel	Average	hustrafbh, Sum, Minimum, Maximum
SG_2G_bak_peak_receiving_rate	hua_m117440685_tab.saa n6sl3xa2airvh002ind6wbg	INT8	Kbytes/s	Peak receiving rate of the forward channel	Average	hustrafbh, Sum, Minimum, Maximum

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SG_2G_bak_peak_sending_rate	hua_m117440685_tab.saa n6sd3xa2airvh002ind6wb g	INT8	Kbytes /s	Peak sending rate of the forward channel	Average	hustrafbh , Sum, Minimu m, Maximu m
SG_2G_bak_pkt_rcvd	hua_m117440685_tab.saa n6sf3xa2airvh002ind6wb g	INT8	Packet s	Packets received by the forward channel	Sum	hustrafbh
SG_2G_bak_pkt_sent_from	hua_m117440685_tab.saa n6s43xa2airvh002ind6wb g	INT8	Packet s	Packets sent by the forward channel	Sum	hustrafbh
SG_2G_bak_traffic_volume_rcvd	hua_m117440685_tab.saa n6sh3xa2airvh002ind6wb g	INT8	KByte s	Traffic volume received by the forward channel	Sum	hustrafbh
SG_2G_bak_traffic_volume_sent	hua_m117440685_tab.saa n6s63xa2airvh002ind6wb g	INT8	KByte s	Traffic volume send by the forward channel	Sum	hustrafbh

## 6.9 GGSN\_IP Performance Indicators

- [GGSN\\_IP.Huawei.GPRS.Gb\\_mode\\_PDP\\_context\\_activation\\_with\\_IP\\_address](#)
- [GGSN\\_IP.Huawei.GPRS.Iu\\_mode\\_PDP\\_context\\_activation\\_with\\_IP\\_address](#)

### 6.9.1 GGSN\_IP.Huawei.GPRS.Gb\_mode\_PDP\_context\_activation\_with\_IP\_address

Gb mode PDP context activation with IP address measurement

The performance data measurements for this KPI group are recorded against the combination of GGSN\_IP and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_GGSN_create_PDP_success	100 * {GGSN_create_PDP_success}/ {GGSN_create_PDP_request}	FLOAT	%	Percentage of acknowledgements that the SGSN receives from the GGSN that the PDP context is created during a MS initiated 2G	Average	Average

				primary PDP context activation.		
Decode_GGSN_Create_PDP_Rsp_fail	hua_gb_mode_pdp_act_ip_tab.ro5goeabdqcknej0vvhc2kthne	INTEGER	#	Number of times that the SGSN receives a response from the GGSN during a MS initiated 2G primary PDP context activation, however the response message decoding fails.	Sum	Sum
GG_create_PDP_fail_APN Restrict	hua_gb_mode_pdp_act_ip_tab.saan6pp3xa2airvh002ind6wbg	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 2G primary PDP context activation, saying the PDP context creation fails because "APN Restriction".	Sum	Sum
GGSN_create_PDP_fail_APN_acc_denied	hua_gb_mode_pdp_act_ip_tab.xmyhnjoy6qcustksp5qwkgpsnv	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 2G primary PDP	Sum	Sum

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				context activation, saying the PDP context creation fails because "APN access denied C no subscription".		
GGSN_create_PDP_fail_dyn_addr_occ	hua_gb_mode_pdp_act_ip_tab.tkhcwdqh3wcoudpnykk ebnclu6	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 2G primary PDP context activation, saying the PDP context creation fails because "All dynamic PDP addresses are occupied".	Sum	Sum
GGSN_create_PDP_fail_Missing_APN	hua_gb_mode_pdp_act_ip_tab.ybdd0enew4b3mtnmpg xb2hjmmu	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 2G primary PDP context activation, saying the PDP context creation fails because of "Missing or unknown APN".	Sum	Sum
GGSN_create_PDP_fail_No_mem_avail	hua_gb_mode_pdp_act_ip_tab.vfaaxpjxubblsqnsqkpq qrqgc	INTEGER	#	Number of times that the SGSN receives responses from the GGSN	Sum	Sum

				during a MS initiated 2G primary PDP context activation, saying the PDP context creation fails because "No memory is available".		
GGSN_create_PDP_fail_No_res_avail	hua_gb_mode_pdp_act_ip_tab.uhc45pgjx6cauromctw5b5e2gu	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 2G primary PDP context activation, saying the PDP context creation fails because "No resources available".	Sum	Sum
GGSN_create_PDP_fail_System_failure	hua_gb_mode_pdp_act_ip_tab.wm3tcjcgifc1ueun6xja22b1cl	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 2G primary PDP context activation, saying the PDP context creation fails because of "System failure".	Sum	Sum
GGSN_create	hua_gb_mode_pdp_act_ip_	INTEGER	#	Number of times	Sum	Sum

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_PDP_fail_Unknown_PDP	tab.xgp63nhq04cupepxdw15xj365k	ER		that the SGSN receives responses from the GGSN during a MS initiated 2G primary PDP context activation, saying the PDP context creation fails because of "Unknown PDP address or PDP type".		
GGSN_create_PDP_fail_User_auth_fail	hua_gb_mode_pdp_act_ip_tab.xuflhsga1tbejrpxy6wam3dt15	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 2G primary PDP context activation, saying the PDP context creation fails because "User authentication failed".	Sum	Sum
GGSN_create_PDP_request	hua_gb_mode_pdp_act_ip_tab.t4ovwcn3cgb6mcas063354cumg	INTEGER	#	Number of attempts that the SGSN notifies the GGSN to create a PDP context during a MS initiated 2G primary PDP context activation.	Sum	Sum
GGSN_create_PDP_success	hua_gb_mode_pdp_act_ip_tab.uuw63d1rnlcbycqk160s qe4tcd	INTEGER	#	Number of acknowledgements that the SGSN	Sum	Sum

				receives from the GGSN that the PDP context is created during a MS initiated 2G primary PDP context activation.		
Request_GGSN_create_PDP_timeout	hua_gb_mode_pdp_act_ip_tab.tf5w1rstd3bwxdefeguyj4xmm6	INTEGER	#	Number of times that the SGSN does not receive any response from the GGSN during a MS initiated 2G primary PDP context activation.	Sum	Sum

### 6.9.2 GGSN\_IP.Huawei.GPRS.lu\_mode\_PDP\_context\_activation\_with\_IP\_address

Iu mode PDP context activation with IP address measurement

The performance data measurements for this KPI group are recorded against the combination of GGSN\_IP and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_GGSN_create_PDP_success	$100 * \frac{\{\text{GGSN\_create\_PDP\_success}\}}{\{\text{GGSN\_create\_PDP\_request}\}}$	FLOAT	%	Percentage of acknowledgements that the SGSN receives from the GGSN that the PDP context is created during a MS initiated 3G primary PDP context activation.	Average	Average

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Decode_GGSN_Create_PDP_Rsp_fail	hua_iu_mode_pdp_act_ip_tab.wr2rj251s0c5adlqjebgdqvgst	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 3G primary PDP context activation, however the message decoding fails.	Sum	Sum
GG_create_PDP_fail_APN_Restrict	hua_iu_mode_pdp_act_ip_tab.saan6pr3xa2airvh002ind6wbg	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because "APN Restriction".	Sum	Sum
GGSN_create_PDP_fail_APN_acc_denied	hua_iu_mode_pdp_act_ip_tab.sresx34i1wbufchh04lkgasuah	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because "APN access denied C no subscription".	Sum	Sum
GGSN_create_PDP_fail_dyn_addr_occ	hua_iu_mode_pdp_act_ip_tab.v4ioissnrscpd2mcf2e psdyn3	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during	Sum	Sum

				a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because "All dynamic PDP addresses are occupied".		
GGSN_create_PDP_fail_Missing_APN	hua_iu_mode_pdp_act_ip_tab.y0o3cmqhnpd0sraxgf hda5i5i	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because of "Missing or unknown APN".	Sum	Sum
GGSN_create_PDP_fail_No_mem_avail	hua_iu_mode_pdp_act_ip_tab.wfja5s5hgibtebiosrhyw sqq66	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because "No memory is available".	Sum	Sum
GGSN_create_PDP_fail_No	hua_iu_mode_pdp_act_ip_tab.ymydq606fybqwd4xb1	INTEGER	#	Number of times that the SGSN	Sum	Sum

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_res_avail	5nijeds6			receives responses from the GGSN during a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because "No resources available".		
GGSN_create_PDP_fail_System_failure	hua_iu_mode_pdp_act_ip_tab.yewhfw3inbawthy1wp1so0i1w	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because of "System failure".	Sum	Sum
GGSN_create_PDP_fail_Unknown_PDP	hua_iu_mode_pdp_act_ip_tab.seymm1x024cxiexvyd2o2y4c2s	INTEGER	#	Number of times that the SGSN receives responses from the GGSN during a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because of "Unknown PDP address or PDP type".	Sum	Sum
GGSN_create_PDP_fail_User_auth_fail	hua_iu_mode_pdp_act_ip_tab.tld1t1dyb2ch3d5kexrqa1xltg	INTEGER	#	Number of times that the SGSN receives responses from	Sum	Sum

				the GGSN during a MS initiated 3G primary PDP context activation, saying the PDP context creation fails because "User authentication failed".		
GGSN_create_PDP_request	hua_iu_mode_pdp_act_ip_tab.sfoa3ffwvpb6nuhtpmvqahq2kw	INTEGER	#	Number of attempts that the SGSN notifies the GGSN to create a PDP context during a MS initiated 3G primary PDP context activation.	Sum	Sum
GGSN_create_PDP_success	hua_iu_mode_pdp_act_ip_tab.v64kxq2oafbmtt31eg15u66m2u	INTEGER	#	Number of acknowledgements that the SGSN receives from the GGSN that the PDP context is created during a MS initiated 3G primary PDP context activation.	Sum	Sum
Request_GGSN_create_PDP_timeout	hua_iu_mode_pdp_act_ip_tab.y0va5ydsrnb2sh1go1oyf66y2	INTEGER	#	Number of times that the SGSN does not receive any response from the GGSN within the time limit during a MS initiated 3G primary PDP	Sum	Sum

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				context activation.		
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## 6.10 GnGp\_IPV4 Performance Indicators

- [GnGp\\_IPV4.Huawei.GPRS.Gn\\_Traffic\\_with\\_Specific\\_Gn\\_IP](#)
- [GnGp\\_IPV4.Huawei.GPRS.IP\\_Traffic\\_with\\_specific\\_Gn\\_IP](#)

### 6.10.1 GnGp\_IPV4.Huawei.GPRS.Gn\_Traffic\_with\_Specific\_Gn\_IP

Gn Traffic with Specific Gn IP measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
MBMS_Kbytes_of_Background_class_sent_to_specified_RNC	hua_gn_traffic_gn_ip_tab.tl63xoqny42ahc3lr02incnmdw	INT8	Kilobytes	Number of MBMS background GTP packets sent to RNC.	Sum	hustrafbh, Sum
MBMS_Kbytes_of_Streaming_class_sent_to_specified_RNC	hua_gn_traffic_gn_ip_tab.tl63xomny42ahc3lr02incnmdw	INT8	Kilobytes	Number of MBMS streaming GTP packets sent to RNC.	Sum	hustrafbh, Sum
MBMS_Packets_of_Background_class_sent_to_specified_RNC	hua_gn_traffic_gn_ip_tab.tl63xoony42ahc3lr02incnmdw	INT8	#	Number of bytes of MBMS background GTP packets sent to RNC.	Sum	hustrafbh, Sum
MBMS_Packets_of_Streaming_class_sent_to_specified_RNC	hua_gn_traffic_gn_ip_tab.tl63xokny42ahc3lr02incnmdw	INT8	#	Number of bytes of MBMS streaming GTP packets sent to RNC.	Sum	hustrafbh, Sum
SGSN_GTP_Mean_pkts	hua_gn_traffic_gn_ip_tab.u3d1kctcfmbv0eg5qx2lplqnu5	FLOAT	Packets/s	The arithmetic mean of GTP packets processed by	Average	Average, hustrafbh, Maximum

				SGSN.		m, Minimum, Sum
SGSN_GTP_Mean_rec_pkts	hua_gn_traffic_gn_ip_tab.rhfw63msndc5qcp1m52lvnkha0	FLOAT	Packets/s	The arithmetic mean of GTP packets received from GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_GTP_Mean_rec_Throughput	hua_gn_traffic_gn_ip_tab.wcj3b1y1qxb5nblessvnhi12d	FLOAT	KBytes/s	The arithmetic mean of GTP packets throughput received from GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_GTP_Mean_sent_pkts	hua_gn_traffic_gn_ip_tab.tnt0px31xyb4kr3cehc304stwn	FLOAT	Packets/s	The arithmetic mean of GTP packets sent to GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_GTP_Mean_sent_Throughput	hua_gn_traffic_gn_ip_tab.tjin20myyfbw2ugsj2nu566epe	FLOAT	KBytes/s	The arithmetic mean of GTP packets throughput sent to GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_GTP_Mean_Throughput	hua_gn_traffic_gn_ip_tab.ydnql2svk5brgdmxpia2ik1sv0	FLOAT	KBytes/s	The arithmetic mean of GTP packets throughput processed by SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum

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SGSN_GTP_Operated_kbytes	hua_gn_traffic_gn_ip_tab.s6y1s4ig0gbv3rpfxfсорjфyc4	INT8	KBytes	This measurement provides bytes of GTP packets processed by SGSN.	Sum	hustrafbh , Sum
SGSN_GTP_Operated_pkts	hua_gn_traffic_gn_ip_tab.wwfcdg4jq1bsbuyg6gbg3li3mn	INT8	#	Number of GTP packets processed by SGSN.	Sum	hustrafbh , Sum
SGSN_GTP_Peak_pkts	hua_gn_traffic_gn_ip_tab.sboo4jnmfycкjc3femxh25hому	FLOAT	Packets /s	The maximum recorded value of GTP packets processed by SGSN.	Constant	Average, hustrafbh , Maximum, Minimum, Sum
SGSN_GTP_Peak_rec_pkts	hua_gn_traffic_gn_ip_tab.wsxaiq6mvibtarq335w3kch5u4	FLOAT	Packets /s	The maximum recorded value of GTP packets received from GGSN.	Constant	Average, hustrafbh , Maximum, Minimum, Sum
SGSN_GTP_Peak_rec_Throughput	hua_gn_traffic_gn_ip_tab.yflyxrbki4crktxnlmv3ymjyk	FLOAT	KBytes /s	The maximum recorded value of GTP packets throughput received from GGSN.	Constant	Average, hustrafbh , Maximum, Minimum, Sum
SGSN_GTP_Peak_sent_pkts	hua_gn_traffic_gn_ip_tab.wpgjh0wxofch2u0meg4ogyudgl	FLOAT	Packets /s	The maximum recorded number of GTP packets sent to GGSN.	Constant	Average, hustrafbh , Maximum, Minimum, Sum
SGSN_GTP_Peak_sent_Throughput	hua_gn_traffic_gn_ip_tab.wpe0eevjwiblx4spgbqp2eqdx	FLOAT	KBytes /s	The maximum recorded value of GTP	Constant	Average, hustrafbh ,

				packets throughput sent to GGSN.		Maximum, Minimum, Sum
SGSN_GTP_Peak_Throughput	hua_gn_traffic_gn_ip_tab.woqkowlwqbbaerbexjhx5h6d	FLOAT	KBytes/s	The maximum recorded value of GTP packets throughput processed by SGSN.	Constant	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_GTP_received_kbytes	hua_gn_traffic_gn_ip_tab.wydwwon6h1bqpciklm0wkawd15	INT8	KBytes	This measurement provides bytes of GTP packets received from GGSN.	Sum	hustrafbh, Sum
SGSN_GTP_received_pkts	hua_gn_traffic_gn_ip_tab.u1oabbiknicgwrohmxnck2101f	INT8	#	Number of GTP packets received from GGSN.	Sum	hustrafbh, Sum
SGSN_GTP_sent_kbytes	hua_gn_traffic_gn_ip_tab.wxao0c6rin0cbkd5sxv6dgya6af	INT8	KBytes	This measurement provides bytes of GTP packets sent to GGSN.	Sum	hustrafbh, Sum
SGSN_GTP_sent_pkts	hua_gn_traffic_gn_ip_tab.v1iqw0hr4ucwsr5shxtuk4ua	INT8	#	Number of GTP packets sent to GGSN.	Sum	hustrafbh, Sum

### 6.10.2 GnGp\_IPV4.Huawei.GPRS.IP\_Traffic\_with\_specific\_Gn\_IP

IP Traffic with specific Gn IP measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregat	Other Aggrega
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					or	tors
IP_pkts_sent	hua_ip_traffic_gn_ip_tab. uuy0hrefecb5dtodjgn40cx idu	INTEGER	#	Number of PING packets sent to certain IP address by SGSN.	Sum	hustrafbh , Sum

## 6.11 GnGp\_IPV6 Performance Indicators

- [GnGp\\_IPV6.Huawei.GPRS.Gn\\_Traffic\\_with\\_Specific\\_Gn\\_IPV6](#)
- [GnGp\\_IPV6.Huawei.GPRS.IP\\_Traffic\\_with\\_Specific\\_Gn\\_IPV6](#)

### 6.11.1 GnGp\_IPV6.Huawei.GPRS.Gn\_Traffic\_with\_Specific\_Gn\_IPV6

Gn Traffic with Specific Gn IPv6 measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
SGSN_GTP_Mean_pkts_IPV6	hua_gn_traffic_gn_ipv6_tab.s3i3vtetyjcpiuetmvpfbqn445	FLOAT	Packet s/s	The arithmetic mean of GTP packets processed by SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_GTP_Mean_rec_pkts_IPV6	hua_gn_traffic_gn_ipv6_tab.wn1j6updjhbdbettsf0mwg0xsy	FLOAT	Packet s/s	The arithmetic mean of GTP packets received from GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_GTP_Mean_rec_Throughput_IPV6	hua_gn_traffic_gn_ipv6_tab.s1fe0qylync6ssbwbg0k0aepsm	FLOAT	KByte s/s	The arithmetic mean of GTP packets throughput received from GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_GTP_M	hua_gn_traffic_gn_ipv6_tab	FLOAT	Packet	The arithmetic	Average	Average,

ean_sent_pkts_IPV6	b.tru0vcmd6abevcrwoy22se5qsi	T	s/s	mean of GTP packets sent to GGSN.		hustrafbh , Maximum, Minimum, Sum
SGSN_GTP_Mean_sent_Throughput_IPV6	hua_gn_traffic_gn_ipv6_talb.uiovmlobxbo0b6akr1il6r3mq	FLOAT	KBytes/s	The arithmetic mean of GTP packets throughput sent to GGSN.	Average	Average, hustrafbh , Maximum, Minimum, Sum
SGSN_GTP_Mean_Throughput_IPV6	hua_gn_traffic_gn_ipv6_talb.ylg5ilj05obewsifs4ne0uwkkf	FLOAT	KBytes/s	The arithmetic mean of GTP packets throughput processed by SGSN.	Average	Average, hustrafbh , Maximum, Minimum, Sum
SGSN_GTP_Operated_kbytes_IPV6	hua_gn_traffic_gn_ipv6_talb.xfbeat6fsa6b4fcbwhgl2n4433l	INT8	KBytes	This measurement provides bytes of GTP packets processed by SGSN.	Sum	hustrafbh , Sum
SGSN_GTP_Operated_pkts_IPV6	hua_gn_traffic_gn_ipv6_talb.u5pksc4kbfb4ner1bb4ttxf2d3	INT8	#	Number of GTP packets processed by SGSN.	Sum	hustrafbh , Sum
SGSN_GTP_Peak_pkts_IPV6	hua_gn_traffic_gn_ipv6_talb.rauy026iu3cm4cmbg3mkhlhglo	FLOAT	Packet/s	The maximum recorded value of GTP packets processed by SGSN.	Constant	Average, hustrafbh , Maximum, Minimum, Sum
SGSN_GTP_P	hua_gn_traffic_gn_ipv6_ta	FLOAT	Packet	The maximum	Constant	Average,

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Peak_rec_pkts_IPV6	b.rn5melllr3bjbbc5b3mocu g0bm	T	s/s	recorded value of GTP packets received from GGSN.		huStrafbh , Maximum, Minimum, Sum
SGSN_GTP_P eak_rec_Throu ghput_IPV6	hua_gn_traffic_gn_ipv6_ta b.schnnaj5exbjle1s4bv664 gcr3	FLOA T	KByte s/s	The maximum recorded value of GTP packets throughput received from GGSN.	Constant	Average, huStrafbh , Maximum, Minimum, Sum
SGSN_GTP_P eak_sent_pkts_ IPV6	hua_gn_traffic_gn_ipv6_ta b.yyjnajl26yc2wciqymueb entj	FLOA T	Packet s/s	The maximum recorded number of GTP packets sent to GGSN.	Constant	Average, huStrafbh , Maximum, Minimum, Sum
SGSN_GTP_P eak_sent_Thro ughput_IPV6	hua_gn_traffic_gn_ipv6_ta b.spmafpxxltc34d6gg1lujdj pda	FLOA T	KByte s/s	The maximum recorded value of GTP packets throughput sent to GGSN.	Constant	Average, huStrafbh , Maximum, Minimum, Sum
SGSN_GTP_P eak_Throughpu t_IPV6	hua_gn_traffic_gn_ipv6_ta b.xkg10dcnmkcjidh2i4ny2r ppvb	FLOA T	KByte s/s	The maximum recorded value of GTP packets throughput processed by SGSN.	Constant	Average, huStrafbh , Maximum, Minimum, Sum
SGSN_GTP_re c_kbytes_IPV6	hua_gn_traffic_gn_ipv6_ta b.vsm2o36jhecnrsqe3te5qd rvlu	INT8	KByte s	This measurement provides bytes of GTP packets received from GGSN.	Sum	huStrafbh , Sum
SGSN_GTP_re c_pkts_IPV6	hua_gn_traffic_gn_ipv6_ta b.xwkgrwvdr1crfe4ljru5f2b	INT8	#	Number of GTP packets	Sum	huStrafbh , Sum

	456			received from GGSN.		
SGSN_GTP_sent_kbytes_IPV6	hua_gn_traffic_gn_ipv6_tab.swkjwj6wc3c2jckwe50li24vma	INT8	KBytes	This measurement provides bytes of GTP packets sent to GGSN.	Sum	hustrafbh, Sum
SGSN_GTP_sent_pkts_IPV6	hua_gn_traffic_gn_ipv6_tab.s51iwwnla2bndrbjrfppmc2yd1	INT8	#	Number of GTP packets sent to GGSN.	Sum	hustrafbh, Sum

### 6.11.2 GnGp\_IPV6.Huawei.GPRS.IP\_Traffic\_with\_Specific\_Gn\_IPV6

IP Traffic with Specific Gn IPv6 measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
IPV6_pkts_sent_IPV6	hua_ip_traffic_gn_ipv6_tab.vfpf4fqsnjb1lsmlykiyj32w6h	INTEGER	#	Number of IP packets (IPv6) sent from SHSN to certain IP address.	Sum	hustrafbh, Sum

## 6.12 Heartbeat\_Channel Performance Indicators

- [Heartbeat\\_Channel.Huawei.GPRS.Gb\\_heartbeat\\_channel](#)

### 6.12.1 Heartbeat\_Channel.Huawei.GPRS.Gb\_heartbeat\_channel

(Obsolete from V900R010) SGSN backup heartbeat channel

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
SG_2G_backup_heartbeat_overti	hua_m117440684_tab.saan6s23xa2airvh002ind6wb	INTEGER	#	Obsolete from CN-	Sum	hustrafbh

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me	g			SGSN/V900R0 10.C01SPC022: SGSN 2G backup heartbeat overtime in heartbeat channel		
SG_2G_bak_h eartbeat_rcvd	hua_m117440684_tab.saa n6s03xa2airvh002ind6wb g	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: SGSN 2G backup heartbeat received in heartbeat channel	Sum	hustrafbh
SG_2G_bak_h eartbeat_sent	hua_m117440684_tab.saa n6rx3xa2airvh002ind6wb g	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: SGSN 2G backup heartbeat sent in heartbeat channel	Sum	hustrafbh

## 6.13 IMSI Performance Indicators

- [IMSI.Huawei.GPRS.CDR\\_with\\_Specific\\_User](#)
- [IMSI.Huawei.GPRS.Traffic\\_per\\_sub](#)

### 6.13.1 IMSI.Huawei.GPRS.CDR\_with\_Specific\_User

CDR with Specific User measurement

The performance data measurements for this KPI group are recorded against the combination of IMSI and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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LCS_MO_CD Rs_generated_ per_MS	hua_cdr_specific_user_tab .ulowtuvh3vc2hc0qnl2jcm qrwk	INTEG ER	CDRs	LCS-MO- CDRs generated per MS	Sum	Sum
LCS_MT_CD Rs_generated_ per_MS	hua_cdr_specific_user_tab .tiqfunfby2bavu5ngeqx4gn 3yu	INTEG ER	CDRs	LCS-MT-CDRs generated per MS	Sum	Sum
LCS_NI_CDRs _generated_per _MS	hua_cdr_specific_user_tab .sf4hipxsawcccdkxh52uhp 66nk	INTEG ER	CDRs	LCS-NI-CDRs generated per MS	Sum	Sum
M_CDRs_gene rated_per_MS	hua_cdr_specific_user_tab .re4ld6ro1bb3qdvheyfa6gu s2a	INTEG ER	CDRs	M-CDRs generated per MS	Sum	Sum
S_CDRs_gener ated_per_MS	hua_cdr_specific_user_tab .waqjhujf5wclehc2ricrat4 qn	INTEG ER	CDRs	S-CDRs generated per MS	Sum	Sum
S_SMO_CDRs _generated_per _MS	hua_cdr_specific_user_tab .tkm0sqg2ymca4eck1g5gi v5pdf	INTEG ER	CDRs	S-SMO-CDRs generated per MS	Sum	Sum
S_SMT_CDRs _generated_per _MS	hua_cdr_specific_user_tab .yhyipnvcvybtdb1kwv2en gnrqa	INTEG ER	CDRs	S-SMT-CDRs generated per MS	Sum	Sum

### 6.13.2 IMSI.Huawei.GPRS.Traffic\_per\_sub

(Obsolete from V900R010) Per subscriber traffic measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Disc_rcvd_Data _pkt_Gn_itrface	hua_m117440724_tab.saa na3l3xa2airvh002ind6wbg	INT8	Packets	Obsolete from CN-SGSN/V900R010.C01SPC022:Discarded Received Data Packets on Gn-	Sum	

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				Interface		
Disc_rcvd_Data_pkt_on_itrface	hua_m117440724_tab.saa na323xa2airvh002ind6wb g	INT8	Packets	Obsolete from CN- SGSN/V900R010.C01SPC022:D iscarded Received Data Packets on Iu- Interface	Sum	
Disc_rcvd_Ocets_on_Gb_itrface	hua_m117440724_tab.saa na443xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R010.C01SPC022:D iscarded Received Octets on Gb-Interface	Sum	
Disc_rcvd_Ocets_on_Gn_itrface	hua_m117440724_tab.saa na3n3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R010.C01SPC022:D iscarded Received Octets on Gn-Interface	Sum	
Disc_rcvd_Ocets_on_Interface	hua_m117440724_tab.saa na343xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R010.C01SPC022:D iscarded Received Octets on Iu-Interface	Sum	
Disc_Send_Data_pkt_Gn_itrface	hua_m117440724_tab.saa na3p3xa2airvh002ind6wb g	INT8	Packets	Obsolete from CN- SGSN/V900R010.C01SPC022:D iscarded Send Data Packets on Gn-Interface	Sum	
Disc_Send_Data_pkt_on_itrface	hua_m117440724_tab.saa na363xa2airvh002ind6wb g	INT8	Packets	Obsolete from CN- SGSN/V900R010.C01SPC022:D iscarded Send	Sum	

				Data Packets on Iu-Interface		
Disc_Send_Octets_on_Gb_interface	hua_m117440724_tab.saa na4b3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:D iscarded Send Octets on Gb- Interface	Sum	
Disc_Send_Octets_on_Gn_interface	hua_m117440724_tab.saa na3r3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:D iscarded Send Octets on Gn- interface	Sum	
Disc_Send_Octets_on_interface	hua_m117440724_tab.saa na3b3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:D iscarded Send Octets on Iu- interface	Sum	
Discarded_Received_PDU	hua_m117440724_tab.saa na423xa2airvh002ind6wb g	INT8	#	Obsolete from CN- SGSN/V900R01 0.C01SPC022:D iscarded Received PDU	Sum	
Discarded_Send_PDU	hua_m117440724_tab.saa na463xa2airvh002ind6wb g	INT8	#	Obsolete from CN- SGSN/V900R01 0.C01SPC022:D iscarded Send PDU	Sum	
Drop_Octets_Sub_Buffer_Overflow	hua_m117440724_tab.saa na4f3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01	Sum	

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				0.C01SPC022:D ropped Octets for Subscriber due to Buffer Overflow		
Drop_Octets_S ubs_Suspend_S tate	hua_m117440724_tab.saa na4j3xa2airvh002ind6wbg	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:D ropped Octets for Subscriber due to Suspend State	Sum	
Drop_pkt_Sub s_Buffer_Ovrflw	hua_m117440724_tab.saa na4d3xa2airvh002ind6wb g	INT8	Packet s	Obsolete from CN- SGSN/V900R01 0.C01SPC022:D ropped Data Packets for Subscriber due to Buffer Overflow	Sum	
Drop_pkt_Sub s_Suspend_State	hua_m117440724_tab.saa na4h3xa2airvh002ind6wb g	INT8	Packet s	Obsolete from CN- SGSN/V900R01 0.C01SPC022:D ropped Data Packets for Subscriber due to Suspend State	Sum	
Rcvd_Data_pkt s_on_Gn_Interf ace	hua_m117440724_tab.saa na3d3xa2airvh002ind6wb g	INT8	Packet s	Obsolete from CN- SGSN/V900R01 0.C01SPC022:R eceived Data Packets on Gn- Interface	Sum	
Rcvd_Data_pkt s_on_Iu_Interfa ce	hua_m117440724_tab.saa na2t3xa2airvh002ind6wbg	INT8	Packet s	Obsolete from CN- SGSN/V900R01 0.C01SPC022:R eceived Data Packets on Iu-	Sum	

				Interface		
Rcvd_Octets_on_Gb_Interface	hua_m117440724_tab.saa na3v3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:R eceived Octets on Gb-Interface	Sum	
Rcvd_Octets_on_Gn_Interface	hua_m117440724_tab.saa na3f3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:R eceived Octets on Gn-Interface	Sum	
Rcvd_Octets_on_Iu_Interface	hua_m117440724_tab.saa na2v3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:R eceived Octets on Iu-Interface	Sum	
Received_PDU	hua_m117440724_tab.saa na3t3xa2airvh002ind6wb g	INT8	#	Obsolete from CN- SGSN/V900R01 0.C01SPC022:R eceived PDU	Sum	
Sent_Data_pkts_on_Gn_Interfa ce	hua_m117440724_tab.saa na3h3xa2airvh002ind6wb g	INT8	Packet s	Obsolete from CN- SGSN/V900R01 0.C01SPC022:S ent Data Packets on Gn-Interface	Sum	
Sent_Data_pkts_on_Iu_Interfac e	hua_m117440724_tab.saa na2x3xa2airvh002ind6wb g	INT8	Packet s	Obsolete from CN- SGSN/V900R01 0.C01SPC022:S ent Data Packets on Iu-Interface	Sum	
Sent_Octets_on	hua_m117440724_tab.saa	INT8	Bytes	Obsolete from	Sum	

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_Gb_Interface	na403xa2airvh002ind6wb g			CN- SGSN/V900R01 0.C01SPC022:S ent Octets on Gb-Interface		
Sent_Octets_on _Gn_Interface	hua_m117440724_tab.saa na3j3xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:S ent Octets on Gn-Interface	Sum	
Sent_Octets_on _Iu_Interface	hua_m117440724_tab.saa na303xa2airvh002ind6wb g	INT8	Bytes	Obsolete from CN- SGSN/V900R01 0.C01SPC022:S ent Octets on Iu- Interface	Sum	
Sent_PDU	hua_m117440724_tab.saa na3x3xa2airvh002ind6wb g	INT8	#	Obsolete from CN- SGSN/V900R01 0.C01SPC022:S ent PDU	Sum	

## 6.14 IP\_Security Performance Indicators

- [IP\\_Security.Huawei.GPRS.GTPC\\_IPSEC](#)

### 6.14.1 IP\_Security.Huawei.GPRS.GTPC\_IPSEC

GTP-C IPsec measurements

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
AH_discarded_ msg_replay	hua_m117440722_tab.saa n6yr3xa2airvh002ind6wb g	INTEGER	#	Number of AH messages discarded due to replay during reception.	Sum	hustrafbh
AH_input_msg_ discarded	hua_m117440722_tab.saa na003xa2airvh002ind6wb	INTEGER	#	Number of AH messages	Sum	hustrafbh

	g			discarded during reception.		
AH_msg_disc_err_word_len	hua_m117440722_tab.saa n6yt3xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages discarded due to wrong verification word length during reception.	Sum	hustrafbh
AH_msg_disc_errored_header	hua_m117440722_tab.saa n6yh3xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages discarded due to header error during transmission and reception.	Sum	hustrafbh
AH_msg_disc_full_IPSEC_queue	hua_m117440722_tab.saa n6yn3xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages discarded due to full IPsec queue during transmission and reception.	Sum	hustrafbh
AH_msg_disc_invalid_sec_asso	hua_m117440722_tab.saa na043xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages discarded due to the use of invalid security association during reception.	Sum	hustrafbh
AH_msg_disc_lack_of_sec_asso	hua_m117440722_tab.saa n6yj3xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages discarded due to no available security	Sum	hustrafbh

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				association during transmission and reception.		
AH_msg_disc_seq_rollback_to_0	hua_m117440722_tab.saa n6yp3xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages discarded because the sequence No. rolls back to 0 during transmission and reception.	Sum	hustrafbh
AH_msg_disc_verification_fail	hua_m117440722_tab.saa n6yl3xa2airvh002ind6wb g	INTEG ER	#	Number AH messages discarded due to verification failure during reception.	Sum	hustrafbh
AH_msg_discarded_too_long_IP	hua_m117440722_tab.saa na0d3xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages discarded due to IP message over length during transmission.	Sum	hustrafbh
AH_msg_input ed	hua_m117440722_tab.saa n6yv3xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages received.	Sum	hustrafbh
AH_msg_kbyte s_inputed	hua_m117440722_tab.saa na063xa2airvh002ind6wb g	INT8	Kbyte s	This measurement provides the Kbytes of AH messages received.	Sum	hustrafbh
AH_msg_kbyte s_outputed	hua_m117440722_tab.saa na0b3xa2airvh002ind6wb g	INT8	Kbyte s	This measurement provides the Kbytes of AH messages transmitted.	Sum	hustrafbh
AH_msg_output	hua_m117440722_tab.saa	INTEG	#	Number of AH	Sum	hustrafbh

ted	n6yx3xa2airvh002ind6wb g	ER		messages transmitted.		
AH_output_ms g_discarded	hua_m117440722_tab.saa na023xa2airvh002ind6wb g	INTEG ER	#	Number of AH messages discarded during transmission.	Sum	hustrafbh
Comp_IP_pkt_ disc_head_error	hua_m117440722_tab.saa na203xa2airvh002ind6wb g	INTEG ER	#	Number of compressed IP packets discarded due to packet head error.	Sum	hustrafbh
Comp_IP_pkt_ disc_oversize_l en	hua_m117440722_tab.saa na2d3xa2airvh002ind6wb g	INTEG ER	#	Number of output compressed IP packets discarded due to oversize length.	Sum	hustrafbh
Comp_IPpkt_di sc_invalid_poli cy	hua_m117440722_tab.saa na2f3xa2airvh002ind6wb g	INTEG ER	#	Number of input compressed IP packets discarded due to invalid policy.	Sum	hustrafbh
Comp_IPpkt_dr op_null_transfo rm	hua_m117440722_tab.saa na243xa2airvh002ind6wb g	INTEG ER	#	Number of input compressed IP packets due to null transform mode	Sum	hustrafbh
Decrypted_IP_ pkt_rcvd_from _SAE	hua_m117440722_tab.saa na2n3xa2airvh002ind6wb g	INTEG ER	#	Number of packets that has been decrypted	Sum	hustrafbh
Decrypted_IP_ pkt_to_SAE	hua_m117440722_tab.saa na2j3xa2airvh002ind6wb g	INTEG ER	#	Number of decrypted IP packets sending	Sum	hustrafbh

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				to SAE		
Encrypted_IP_pkt_rcvd_from_SAE	hua_m117440722_tab.saa na2p3xa2airvh002ind6wb g	INTEG ER	#	Number of packets that has been encrypted	Sum	hustrafbh
Encrypted_IP_pkt_to_SAE	hua_m117440722_tab.saa na2l3xa2airvh002ind6wb g	INTEG ER	#	Number of encrypted IP packets sending to SAE	Sum	hustrafbh
ESP_discarded_msg_replay	hua_m117440722_tab.saa na0r3xa2airvh002ind6wb g	INTEG ER	#	Number of ESP messages discarded due to replay during reception.	Sum	hustrafbh
ESP_input_msg_discarded	hua_m117440722_tab.saa na0x3xa2airvh002ind6wb g	INTEG ER	#	Number of ESP messages discarded during reception.	Sum	hustrafbh
ESP_msg_disc_errored_header	hua_m117440722_tab.saa na0f3xa2airvh002ind6wb g	INTEG ER	#	Number of ESP messages discarded due to header error during transmission and reception.	Sum	hustrafbh
ESP_msg_disc_full_IPSEC_queue	hua_m117440722_tab.saa na0l3xa2airvh002ind6wb g	INTEG ER	#	Number of ESP messages discarded because the IPsec queue is full during transmission and reception.	Sum	hustrafbh
ESP_msg_disc_invalid_secasso	hua_m117440722_tab.saa na123xa2airvh002ind6wb g	INTEG ER	#	Number of ESP messages discarded due to the use of invalid security association during reception.	Sum	hustrafbh

ESP_msg_disc_lack_of_sec_asso	hua_m117440722_tab.saa na0h3xa2airvh002ind6wb g	INTEGER	#	Number of ESP messages discarded due to no available security association during transmission and reception.	Sum	hustrafbh
ESP_msg_disc_length_error	hua_m117440722_tab.saa na0p3xa2airvh002ind6wb g	INTEGER	#	Number of ESP messages discarded due to wrong message length during reception.	Sum	hustrafbh
ESP_msg_disc_seq_rollback_to_0	hua_m117440722_tab.saa na0n3xa2airvh002ind6wb g	INTEGER	#	Number of ESP messages discarded because the sequence No. rolls back to 0 during transmission and reception	Sum	hustrafbh
ESP_msg_disc_verification_failure	hua_m117440722_tab.saa na0j3xa2airvh002ind6wb g	INTEGER	#	Number of ESP messages discarded due to verification failure during reception.	Sum	hustrafbh
ESP_msg_discarded_too_long_IP	hua_m117440722_tab.saa na1b3xa2airvh002ind6wb g	INTEGER	#	Number of ESP messages discarded due to IP message over length during transmission.	Sum	hustrafbh
ESP_msg_inputted	hua_m117440722_tab.saa na0t3xa2airvh002ind6wb	INTEGER	#	Number of ESP messages	Sum	hustrafbh

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	g			received.		
ESP_msg_kbytes_inputed	hua_m117440722_tab.saa na143xa2airvh002ind6wb g	INT8	Kbytes	This measurement provides the Kbytes of ESP messages received.	Sum	hustrafbh
ESP_msg_kbytes_outputed	hua_m117440722_tab.saa na163xa2airvh002ind6wb g	INT8	Kbytes	This measurement provides the Kbytes of ESP messages transmitted.	Sum	hustrafbh
ESP_msg_outputed	hua_m117440722_tab.saa na0v3xa2airvh002ind6wb g	INTEGER	#	Number of ESP messages transmitted.	Sum	hustrafbh
ESP_output_message_discarded	hua_m117440722_tab.saa na103xa2airvh002ind6wb g	INTEGER	#	Number of ESP messages discarded during transmission	Sum	hustrafbh
In_comp_IP_pkt_drop_length_err	hua_m117440722_tab.saa na263xa2airvh002ind6wb g	INTEGER	#	Number of compressed IP packets received but discarded due to length error.	Sum	hustrafbh
Inbound_comp_IP_pkts_in_kB	hua_m117440722_tab.saa na1p3xa2airvh002ind6wb g	INT8	Kbytes	Number of compressed IP packets (in kilobytes) input.	Sum	hustrafbh
Inbound_Compressed_IP_pkts	hua_m117440722_tab.saa na1l3xa2airvh002ind6wb g	INTEGER	#	Number of compressed IP packets input.	Sum	hustrafbh
Input_comp_IP_pkt_dropped	hua_m117440722_tab.saa na1t3xa2airvh002ind6wb g	INTEGER	#	Number of compressed IP packets input but discarded.	Sum	hustrafbh
IP_pkt_disc_all_comp_SA	hua_m117440722_tab.saa na223xa2airvh002ind6wb	INTEGER	#	Number of input and output	Sum	hustrafbh

	g			IP packets discarded due to null compression SA		
IP_pkt_drop_decomp_error	hua_m117440722_tab.saa na1x3xa2airvh002ind6wb g	INTEGER	#	Number of compressed IP packets discarded due to decompression error.	Sum	hustrafbh
IP_pkt_drop_invalid_comp_SA	hua_m117440722_tab.saa na2b3xa2airvh002ind6wb g	INTEGER	#	Number of input compressed IP packets discarded due to invalid compression SA.	Sum	hustrafbh
IPSEC_input_msg_discarded	hua_m117440722_tab.saa na1j3xa2airvh002ind6wb g	INTEGER	#	Number of IPsec messages discarded during transmission.	Sum	hustrafbh
IPSEC_output_msg_discarded	hua_m117440722_tab.saa na1h3xa2airvh002ind6wb g	INTEGER	#	Number of IPsec messages discarded during reception.	Sum	hustrafbh
Msg_disc_unspec_IPSec_protocol	hua_m117440722_tab.saa na1d3xa2airvh002ind6wb g	INTEGER	#	This measurement provides the messages discarded and with unidentified IP Sec protocol No. during reception.	Sum	hustrafbh

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Out_msg_unsp ec_IPSec_proto col	hua_m117440722_tab.saa na1f3xa2airvh002ind6wb g	INTEG ER	#	This measurement provides the messages discarded and with unidentified IP Sec protocol No. during transmission.	Sum	hustrafbh
Outbound_com p_IP_pkts_in_k B	hua_m117440722_tab.saa na1r3xa2airvh002ind6wb g	INT8	Kbyte s	Number of compressed IP packets (in kilobytes) output.	Sum	hustrafbh
Outbound_Com pressed_IP_pkt s	hua_m117440722_tab.saa na1n3xa2airvh002ind6wb g	INTEG ER	#	Number of compressed IP packets output.	Sum	hustrafbh
Output_comp_I P_pkt_dropped	hua_m117440722_tab.saa na1v3xa2airvh002ind6wb g	INTEG ER	#	Number of compressed IP packets output but discarded.	Sum	hustrafbh
Pkt_disc_unkn wn_prot_direct	hua_m117440722_tab.saa na2h3xa2airvh002ind6wb g	INTEG ER	#	Number of compressed IP packets discarded due to unknown protocol and direction.	Sum	hustrafbh
System_error_ msg_discarded	hua_m117440722_tab.saa na2r3xa2airvh002ind6wb g	INTEG ER	#	Number of packets due to system occur	Sum	hustrafbh

## 6.15 M3UA\_Dest Performance Indicators

- [M3UA\\_Dest.Huawei.GPRS.M3UA\\_DE](#)

### 6.15.1 M3UA\_Dest.Huawei.GPRS.M3UA\_DE

M3UA DE measurement

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KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Inaccessibility_durations	hua_m3ua_de_tab.vaaied13nqc31upy3pgefn1bho	INTEGER	seconds	Time interval during which the M3UA destination signaling point is unreachable.	Sum	hustrafbh, Sum
Inaccessibility_times	hua_m3ua_de_tab.t2dmwb5hibwncnlkftlcdqqj3	INTEGER	#	Number of times that the M3UA destination signaling point is unreachable.	Sum	hustrafbh, Sum

## 6.16 M3UA\_Link Performance Indicators

- [M3UA\\_Link.Huawei.GPRS.M3UA\\_link](#)

### 6.16.1 M3UA\_Link.Huawei.GPRS.M3UA\_link

M3UA link measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Congestion_times	hua_m3ua_link_tab.ru2a16r0sucuseqelqy6u2lg5q	INTEGER	#	Number of M3UA link congestions.	Sum	hum3uatbh, Sum
Durations_of_congestion	hua_m3ua_link_tab.yaa3tea04b6ddtas0ujolgfnb	INTEGER	seconds	Total time duration of M3UA link congestion.	Sum	hum3uatbh, Sum
Durations_of_unavailable	hua_m3ua_link_tab.tuwg5yynwscvqtj05tlnsj0x1w	INTEGER	seconds	Duration that the M3UA link does not transmit services.	Sum	hum3uatbh, Sum
Fault_times	hua_m3ua_link_tab.tsvq0ukamxb4iu6vu63lx1kidk	INTEGER	#	Number of M3UA link disconnections.	Sum	hum3uatbh, Sum
Msg_rec	hua_m3ua_link_tab.s0uu0vrhxbqbnedqoatdnuhhgqd	INTEGER	#	Number of messages	Sum	hum3uatbh, Sum

				received from the peer over the M3UA link.		
Msg_sent_and_received	hua_m3ua_link_tab.vpjwri fgh1cborplo543mexwcv	INTEGER	#	Number of data messages that the M3UA link sends and receives.	Sum	hum3uat bh, Sum
Msg_sent	hua_m3ua_link_tab.tlxp3h iq54b6ab2gy630arm2v2	INTEGER	#	Number of data messages that the M3UA link sends to the peer.	Sum	hum3uat bh, Sum
Octets_rec	hua_m3ua_link_tab.sntwp 2ndk6bcweb3ru101ixase	INT8	#	Total size of the messages received from the peer over the M3UA link in Kbytes.	Sum	hum3uat bh, Sum
Octets_sent	hua_m3ua_link_tab.s6x4je j062b0eublkn3bc2oe0n	INT8	#	Total size of the data messages sent to the peer over the M3UA link in Kbytes.	Sum	hum3uat bh, Sum
Unavailable_times	hua_m3ua_link_tab.xjygx uen1cc1fcx3fww5bhqnmk	INTEGER	#	Number of times that the M3UA link does not transmit services.	Sum	hum3uat bh, Sum

## 6.17 M3UA\_LinkSet Performance Indicators

- [M3UA\\_LinkSet.Huawei.GPRS.M3UA\\_link\\_set](#)

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### 6.17.1 M3UA\_LinkSet.Huawei.GPRS.M3UA\_link\_set

M3UA link set measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Durations_of_unavailable	hua_m3ua_link_set_tab.rg14ade1kacskc5cvw25piejpv	INTEGER	seconds	Duration of non-available M3UA link in the M3UA signaling link set.	Sum	hustrafbh, Sum
Msg_rec	hua_m3ua_link_set_tab.wvfkltnnxdcq1ctvcfgch5enbw	INTEGER	#	Number of data messages received from the peer through this M3UA link set.	Sum	hustrafbh, Sum
Msg_sent	hua_m3ua_link_set_tab.tdt36e6evrcp6dx4rytxypeaum	INTEGER	#	Number of data messages sent to the peer through this M3UA link set.	Sum	hustrafbh, Sum
Octets_rec	hua_m3ua_link_set_tab.td231ibd6ocugbjwcl3nhyql4p	INT8	#	Total size of the data packets received from the peer through this M3UA link set in Kbytes.	Sum	hustrafbh, Sum
Octets_sent	hua_m3ua_link_set_tab.tqk522ym3vcfjbntkkadl1t2cr	INT8	#	Total size of the data packets sent to the peer through this M3UA link set in Kbytes.	Sum	hustrafbh, Sum
Unavailable_times	hua_m3ua_link_set_tab.syq205b6iocacbimxtrdvpahts	INTEGER	#	Number of M3UA link transmissions in the M3UA signaling link	Sum	hustrafbh, Sum

				set.		
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## 6.18 MTP3\_Link Performance Indicators

- [MTP3\\_Link.Huawei.GPRS.MTP3\\_link](#)

### 6.18.1 MTP3\_Link.Huawei.GPRS.MTP3\_link

MTP3 link measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Duration_of_fault	hua_mtp3_link_tab.rptbv3tqjhbc1r6xbmet12tcd3	INTEGER	seconds	Duration when L2 of the signalling link cannot transmit services.	Sum	humtp3tbh, Sum
Durations_of_congestion	hua_mtp3_link_tab.vc52n1nwcabqxs2v2sqvhfp4qo	INTEGER	seconds	Duration of the signalling link send congestion.	Sum	humtp3tbh, Sum
Durations_of_in_service	hua_mtp3_link_tab.xv6pjb0ogec4wbh632ld4ljth	INTEGER	seconds	Duration of the signaling link in service.	Sum	humtp3tbh, Sum
Durations_of_local_LIN	hua_mtp3_link_tab.xyybwuhoh6c6tuvjdd505x1uvx	INTEGER	seconds	Duration when the signalling link is at the status of local management prohibited.	Sum	humtp3tbh, Sum
Durations_of_remote_LIN	hua_mtp3_link_tab.umu6sufxp5bnnd4wsrtoxmy3s5	INTEGER	seconds	Duration when the signalling link is at the status of remote management	Sum	humtp3tbh, Sum

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				prohibited.		
Durations_of_remote_processor_fault	hua_mtp3_link_tab.tdx54d4pnyc4pb1uonnvyudise	INTEGER	seconds	Duration of the remote processor fault of the signalling link.	Sum	humtp3tbh, Sum
Durations_of_unavailable	hua_mtp3_link_tab.unxba pxgjtbsjc0aqr60dktsjh	INTEGER	seconds	Duration of the signaling link when it is unavailable (unable to provide service transmission).	Sum	humtp3tbh, Sum
Fault_times	hua_mtp3_link_tab.xjdm5mu3j6buyt22kfe4bf14ac	INTEGER	#	Number of times layer 2 of the signalling link is at the service interrupted status (SIOS).	Sum	humtp3tbh, Sum
Local_auto_changeover_times	hua_mtp3_link_tab.voo5640cvxcaocpcbfgcip1bps	INTEGER	#	Number of local automatic switchovers occurring to the signalling link.	Sum	humtp3tbh, Sum
Local_LIN_times	hua_mtp3_link_tab.v46h0v2maobcvba0adrfrsooih	INTEGER	#	Number of times the signalling link is local management prohibited.	Sum	humtp3tbh, Sum
MSU_discarded_for_congestion	hua_mtp3_link_tab.to0jqn5lk1brhcvbywohihxj2a	INTEGER	#	Number of discarded message signalling units due to congestion of the signaling link.	Sum	humtp3tbh, Sum
MTP3_MSU_	hua_mtp3_link_tab.saan6p	INT8	Kilobyte	Obsolete from	Sum	humtp3tb

OCTETS_received	n3xa2airvh002ind6wbg		es	CN-SGSN/V900R010.C01SPC022: Number of MTP3 MSU OCTETS received		h, Sum
MTP3_MSU_octets_send_and_received	hua_mtp3_link_tab.tl63xs1ny42ahc3lr02incnmdw	INT8	Kilobytes	Number of MSU octets sent to and received from MTP L2.	Sum	humtp3tbh, Sum
MTP3_MSU_OCTETS_sent	hua_mtp3_link_tab.saan6pl3xa2airvh002ind6wbg	INT8	Kilobytes	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of MTP3 MSU OCTETS sent	Sum	humtp3tbh, Sum
MTP3_MSU_rec	hua_mtp3_link_tab.ydx5v0xjkcbp5e2jv1gihedf50	INT8	#	Number of MSUs received by MTP L3 that is sent from MTP L2.	Sum	humtp3tbh, Sum
MTP3_MSU_send_and_received	hua_mtp3_link_tab.tl63xrwyny42ahc3lr02incnmdw	INT8	#	Number of MSUs sent to and received from MTP L2.	Sum	humtp3tbh, Sum
MTP3_MSU_send_received	hua_mtp3_link_tab.v3ij1ebeanckbrgppjowea21ch	INT8	#	Number of MSUs sent and received.	Sum	humtp3tbh, Sum
MTP3_MSU_send	hua_mtp3_link_tab.ubw6tlaehqcg1ut6yhkdppvl2f	INT8	#	Number of MSUs sent from MTP L3 to MTP L2.	Sum	humtp3tbh, Sum
MTP3_rec_TFP	hua_mtp3_link_tab.ynxdh5ayfbcvjr2mqvgw2da1da	INTEGER	#	Number of received TFP	Sum	humtp3tbh, Sum

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				signals.		
MTP3_SIF_and_SIO_Octets_rec	hua_mtp3_link_tab.rghapgl05c21ciiuhrcdbdle6	INT8	KBytes	Number of SIF and SIO octets received by MTP L3 that are sent from MTP L2.	Sum	humtp3tbh, Sum
MTP3_SIF_and_SIO_OCTETS_sent_and_received	hua_mtp3_link_tab.tl63xrny42ahc3lr02incnmdw	INT8	Kilobytes	Number of SIF and SIO octets sent to and received from MTP L2 .	Sum	humtp3tbh, Sum
MTP3_SIF_and_SIO_Octets_sent	hua_mtp3_link_tab.uhe1w0ugy4b3btc0hfrx5f5oxl	INT8	KBytes	Number of SIF and SIO octets sent from MTP L3 to MTP L2.	Sum	humtp3tbh, Sum
Number_of_congestion	hua_mtp3_link_tab.sbjg6icj6vbare2pb3rtetnoeh	INTEGER	#	Number of congestion of the signalling link.	Sum	humtp3tbh, Sum
Peak_value_of_MTP3_MSU_octets_send_and_received	hua_mtp3_link_tab.tl63xs3ny42ahc3lr02incnmdw	INT8	Kilobytes/s	Peak value of MSU octets sent to and received from MTP L2.	Average	Average, humtp3tbh, Maximum, Minimum, Sum
Receive_load_erl	hua_mtp3_link_tab.tpwwytf2x6brpetsneg21fjade	FLOAT	erl	Occupation percentage of the information received by the signalling link within the unit time.	Average	Average, humtp3tbh, Maximum, Minimum, Sum
Remote_LIN_times	hua_mtp3_link_tab.rs2vuqwttecs5shtbuvpd31m1p	INTEGER	#	Number of times the signalling link is remote management prohibited.	Sum	humtp3tbh, Sum
Remote_proce	hua_mtp3_link_tab.yax00	INTEGER	#	Number of	Sum	humtp3tb

ssor_fault_times	qptsxco5evxtorlvi6tcb	ER		remote processor faults of the signalling link.		h, Sum
Send_load_eri	hua_mtp3_link_tab.twnvw0tqhjculte5tnjif6yw31	FLOAT	eri	Occupation percentage of the information sent from the signalling link within the unit time.	Average	Average, hump3tbh, Maximum, Minimum, Sum

## 6.19 MTP3\_LinkPoint Performance Indicators

- [MTP3\\_LinkPoint.Huawei.GPRS.MTP3\\_DPC](#)

### 6.19.1 MTP3\_LinkPoint.Huawei.GPRS.MTP3\_DPC

MTP3 DPC measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Inaccessibility_durations	hua_mtp3_dpc_tab.rpey4axuaic2os25mrsakbnx6b	INTEGER	seconds	Total duration of inaccessibility of the destination signaling point within the measurement period.	Sum	hustrafbh, Sum
Inaccessibility_times	hua_mtp3_dpc_tab.yurgqx1ug4cfra2hwx5krtoly	INTEGER	#	Number of inaccessibility times of the destination signaling point.	Sum	hustrafbh, Sum

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## 6.20 MTP3\_LinkSet Performance Indicators

- [MTP3\\_LinkSet.Huawei.GPRS.MTP3\\_link\\_set](#)

### 6.20.1 MTP3\_LinkSet.Huawei.GPRS.MTP3\_link\_set

MTP3 link set measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Durations_of_fault	hua_mtp3_link_set_tab.sys4eiw2qabxcuhpt6vljn4f2v	INTEGER	seconds	Total duration of unusable signaling link set.	Sum	hulsinbh, hulsoutbh, huStrafbh, Sum
Fault_times	hua_mtp3_link_set_tab.vbrw1xa4lbbmkdegqfma2j5dr6	INTEGER	#	The times when signaling link set turns failure.	Sum	hulsinbh, hulsoutbh, huStrafbh, Sum
MTP3_duration_out_of_service	hua_mtp3_link_set_tab.rlfndu1tnt2ahcy4j02uay1ag1	INTEGER	#	MTP3 times out of service within link set	Sum	hulsinbh, hulsoutbh, huStrafbh, Sum
MTP3_link_set_receive_load_erl	hua_mtp3_link_set_tab.tl63xsiny42ahc3lr02incnmdw	FLOAT	Erlang	Mean value of receiving load of signaling link set. Number of octets sent by the signaling link set(Kbyte) + Number of MSUs received by the signaling link set * 6 / 1024) * 8 / (64 * Measurement period (second) * timeslot number)2M link:(Number of octets sent by	Average	Average, hulsinbh, hulsoutbh, huStrafbh, Maximum, Minimum, Sum

				the signaling link set(Kbyte) + Number of MSUs received by the signaling link set * 6 / 1024 ) * 8 / (64 * Measurement period (second) * timeslot number.		
MTP3_link_set_send_load_erl	hua_mtp3_link_set_tab.tl63xsgny42ahc3lr02incnmdw	FLOAT	Erlang	Mean value of sending load of signaling link set. Number of octets sent by the signaling link set(Kbyte) + Number of MSUs sent from the signaling link set * 6 / 1024 ) * 8 / (64 * Measurement period (second) * timeslot number)2M link:(Number of octets sent by the signaling link set(Kbyte) + Number of MSUs sent from the signaling link set * 6 / 1024 ) * 8 / (64 * Measurement period (second) * timeslot	Average	Average, hulsinbh, hulsoutbh, hustrafbh, Maximum, Minimum, Sum

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				number.		
MTP3_MSU_received	hua_mtp3_link_set_tab.tl63xsany42ahc3lr02incnmdw	INTEGER	#	Number of MSUs received for each link set.	Sum	hulsinbh, hulsoutbh, huStrafbh, Sum
MTP3_MSU_sent	hua_mtp3_link_set_tab.tl63xs5ny42ahc3lr02incnmdw	INTEGER	#	Number of MSUs sent for each link set.	Sum	hulsinbh, hulsoutbh, huStrafbh, Sum
MTP3_out_of_service	hua_mtp3_link_set_tab.xb6lnlctns2ahcy4j02uaylag1	INTEGER	#	MTP3 numbers out of service within link set	Average	Average, hulsinbh, hulsoutbh, huStrafbh, Maximum, Minimum, Sum
MTP3_SIF_and_SIO_OCTS_received	hua_mtp3_link_set_tab.tl63xseny42ahc3lr02incnmdw	INT8	Kilobytes	Number of SIF and SIO octets received for each link set.	Sum	hulsinbh, hulsoutbh, huStrafbh, Sum
MTP3_SIF_and_SIO_OCTS_sent	hua_mtp3_link_set_tab.tl63xscny42ahc3lr02incnmdw	INT8	Kilobytes	Number of SIF and SIO octets sent for each link set.	Sum	hulsinbh, hulsoutbh, huStrafbh, Sum

## 6.21 MTP3\_Route Performance Indicators

- [MTP3\\_Route.Huawei.GPRS.MTP3\\_route](#)

### 6.21.1 MTP3\_Route.Huawei.GPRS.MTP3\_route

(Obsolete from V900R010) MTP3 route measurements

KPI Name	Expression	Data	Units	Description	Default	Other
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		Type			Aggregat or	Aggrega tors
MTP3_route_d urations_of_fa ult	hua_m117440719_tab.saa n6xp3xa2airvh002ind6wb g	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: MTP3 route durations of fault	Sum	hustrafbh
MTP3_route_f ault_times	hua_m117440719_tab.saa n6xn3xa2airvh002ind6wb g	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: MTP3 route fault times	Sum	hustrafbh

## 6.22 MTP3B\_Link Performance Indicators

- [MTP3B\\_Link.Huawei.GPRS.MTP3B\\_Link](#)
- [MTP3B\\_Link.Huawei.GPRS.SAAL\\_SGSN\\_link](#)

### 6.22.1 MTP3B\_Link.Huawei.GPRS.MTP3B\_Link

MTP3B Link measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregat or	Other Aggrega tors
Changeover_ti mes	hua_mtp3b_link_tab.uooiil qnydck0uj4a14a1gdvst	INTEG ER	#	Number of local automatic switchovers occurring to the signaling link.	Sum	humtp3bt bh, Sum
Congestion_ti mes	hua_mtp3b_link_tab.xsydr 1bunhbtkr5j4vjr6jktws	INTEG ER	#	Number of signaling link congestions.	Sum	humtp3bt bh, Sum
Durations_of_c	hua_mtp3b_link_tab.vrgko	INTEG	second	The duration of	Sum	humtp3bt

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ongestion	yyew4cgncvebrk6kb1ij3	ER	s	the signaling link congestion.		bh, Sum
Durations_of_fault	hua_mtp3b_link_tab.txrphf3rvibc3dufn31twx3wh0	INTEGER	seconds	The duration of the signaling link when it is unavailable (unable to provide service transmission).	Sum	humtp3tbh, Sum
Durations_of_in_service	hua_mtp3b_link_tab.w2mb6bfacsb2jcefyacasftqhx	INTEGER	seconds	The duration of the signaling link in service.	Sum	humtp3tbh, Sum
Durations_of_local_LIN	hua_mtp3b_link_tab.u45fv0ibf3cvfun6dynx5dx1jx	INTEGER	seconds	The duration when the signaling link is at the status of being local inhibited by the local management.	Sum	humtp3tbh, Sum
Durations_of_remote_LIN	hua_mtp3b_link_tab.wqrvm6no26ckqbifht65lwsW5s	INTEGER	seconds	The duration when the signaling link is at the status of being inhibited by the remote management.	Sum	humtp3tbh, Sum
Fault_times	hua_mtp3b_link_tab.sxovwjkn06b3dexgh3h2yoyp5q	INTEGER	#	Number of failures of the MTP3B signaling link.	Sum	humtp3tbh, Sum
Local_LIN_times	hua_mtp3b_link_tab.rats34s3opchfuiixkk21dwfve	INTEGER	#	Number of the signaling link being local inhibited times by the local management.	Sum	humtp3tbh, Sum
MTP3B_MSU_rec	hua_mtp3b_link_tab.xnga140trbhesb2uw1urhunlc	INTEGER	#	Number of MSUs received by MTP3B from SAAL.	Sum	humtp3tbh, Sum

MTP3B_MSU_sent	hua_mtp3b_link_tab.uw5gclvh1ecipehutreuifokve	INTEGER	#	Number of MSUs sent from MTP3B to SAAL.	Sum	humtp3bth, Sum
MTP3B_MSUs	hua_mtp3b_link_tab.sfspwjh102babrqsv6uubn6qab	INTEGER	#	Number of MSUs sent and received from/to MTP3B	Sum	humtp3bth, Sum
MTP3B_SIF_and_SIO_OCTS_rec	hua_mtp3b_link_tab.rldjljjwsvcggeduaydrkeul6f	INT8	KBytes	Number of SIF and SIO octets received by MTP3B that are sent from SAAL.	Sum	humtp3bth, Sum
MTP3B_SIF_and_SIO_OCTS_sent	hua_mtp3b_link_tab.r5rx33hhrybrvbq2xu6c1n0w4g	INT8	KBytes	Number of SIF and SIO octets sent from MTP3B to SAAL.	Sum	humtp3bth, Sum
Receiving_occupation_percentage	hua_mtp3b_link_tab.w5gai3dl5fc4ecrf5vhxmlvyqw	FLOAT	%	The occupation percentage of the information received by the signaling link within the unit time. Signaling link receiving occupation percentage = (Number of octets received by the signaling link + Number of MSUs received by the signaling link * 6)/8K/Measurement period	Average	Average, humtp3bth, Maximum, Minimum, Sum

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				(second)		
Remote_LIN_times	hua_mtp3b_link_tab.wcv4sa4bpvb2vscgf2vrlifxgl	INTEGER	#	Number of the signaling link being inhibited times by the remote management.	Sum	humtp3tbh, Sum
Sending_occupation_percentage	hua_mtp3b_link_tab.uox1nly6iicibboo5vihxpd56	FLOAT	%	The occupation percentage of the information sent from the signaling link within the unit time. Signaling link sending occupation percentage = (Number of octets sent by the signaling link + Number of MSUs sent from the signaling link * 6)/8K/Measurement period (second)	Average	Average, humtp3tbh, Maximum, Minimum, Sum

### 6.22.2 MTP3B\_Link.Huawei.GPRS.SAAL\_SGSN\_link

SAAL link measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Congestion_times	hua_saal_sgsn_link_tab.yiretpmqijcuou0v4usk12l6tn	INTEGER	#	The duration of times the SAAL link is in congestion.	Sum	humtp3tbh, Sum
Durations_of_in_Service	hua_saal_sgsn_link_tab.xglec3un2fcfsryfhdbu3bfbch	INTEGER	seconds	The duration where the SAAL link is at the	Sum	humtp3tbh, Sum

				In_Service status.		
Errors_times_to_o_high_BER	hua_saal_sgsn_link_tab.xaoceoxhrcbfjctch00wqurmjh	INTEGER	#	Number of times the bit error ratio of the SAAL link is too high.	Sum	humtp3tbh, Sum
Fail_times	hua_saal_sgsn_link_tab.tj3i4uwqmbbbned2l22h5yoush	INTEGER	#	Number of failures of the SAAL link.	Sum	humtp3tbh, Sum
Initialization_fail_times	hua_saal_sgsn_link_tab.vhugimlwg3bhwukpq5alqyi51x	INTEGER	#	Number of failures of the SAAL link initialization	Sum	humtp3tbh, Sum
Message_element_of_other_types_err	hua_saal_sgsn_link_tab.vmagd3vpxlcl3cbg2kcv3gbfcu	INTEGER	#	Number of SAAL message element errors (MAA error type: Q-U).	Sum	humtp3tbh, Sum
Message_resent_fail_times	hua_saal_sgsn_link_tab.wdn4lye3ekbxxcdym03qtpt63n	INTEGER	#	Number of times resending of message packets of the SAAL link fails.	Sum	humtp3tbh, Sum
No_response_timer_timeout	hua_saal_sgsn_link_tab.udv5med2seckyecqb0yciocrc4	INTEGER	#	Number of times when the time is out for the No_Response timer of the SAAL link.	Sum	humtp3tbh, Sum
Rec_status_dismatching_message	hua_saal_sgsn_link_tab.ugvagndyjebw3diplvubw3fqhw	INTEGER	#	Number of message packets	Sum	humtp3tbh, Sum

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				received by the SAAL link that are not in match with the status.		
Sequence_pkts_lost	hua_saal_sgsn_link_tab.xx4ebfsju1c0csjxy0mhmstnw0	INTEGER	#	Number of SD packets lost at the SAAL link.	Sum	humtp3btbh, Sum

## 6.23 MTP3B\_LinkSet Performance Indicators

- [MTP3B\\_LinkSet.Huawei.GPRS.MTP3B\\_link\\_set](#)

### 6.23.1 MTP3B\_LinkSet.Huawei.GPRS.MTP3B\_link\_set

MTP3B link set measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Durations_of_fault	hua_mtp3b_link_set_tab.u2mrnivoibbqaccfawkv0vr20j	INTEGER	seconds	Total duration of unusable signaling link set.	Sum	hustrafbh, Sum
Fault_times	hua_mtp3b_link_set_tab.x0mmgiw1t6byetm4kdv5x0k4y1	INTEGER	#	The times when signaling link set turns failure.	Sum	hustrafbh, Sum

## 6.24 MTP3B\_Point Performance Indicators

- [MTP3B\\_Point.Huawei.GPRS.MTP3B\\_signal\\_point](#)

### 6.24.1 MTP3B\_Point.Huawei.GPRS.MTP3B\_signal\_point

MTP3B signal point measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Inaccessibility_	hua_mtp3b_dcp_tab.upxt	INTEGER	second	Total duration	Sum	hustrafbh

durations	ojh5krcqdu0444fjtu5a1r	ER	s	of inaccessibility of the destination signaling point within the measurement period.		, Sum
Inaccessibility_times	hua_mtp3b_dcp_tab.xlquov1nlcct6crp03ndw25gd	INTEGER	#	Number of inaccessibility times of the destination signaling point.	Sum	hustrafbh, Sum

## 6.25 MVNO Performance Indicators

- [MVNO.Huawei.GPRS.Gb\\_Mode\\_Attach\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Gb\\_Mode\\_Inter\\_SGSN\\_RAU\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Gb\\_Mode\\_Intra\\_SGSN\\_RAU\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Gb\\_Mode\\_PDP\\_Context\\_Activation\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Gb\\_Mode\\_Radio\\_Resource\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Gb\\_Mode\\_SM\\_Resource\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Iu\\_Mode\\_Attach\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Iu\\_Mode\\_Inter\\_SGSN\\_RAU\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Iu\\_Mode\\_Intra\\_SGSN\\_RAU\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Iu\\_Mode\\_PDP\\_Context\\_Activation\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Iu\\_Mode\\_Radio\\_Resource\\_with\\_MVNO](#)
- [MVNO.Huawei.GPRS.Iu\\_Mode\\_SM\\_Resource\\_with\\_MVNO](#)

### 6.25.1 MVNO.Huawei.GPRS.Gb\_Mode\_Attach\_with\_MVNO

Gb Mode Attach with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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%_Combined_attach_accept	$100 * \frac{\{\text{Combined\_attach\_accept}\}}{\{\text{Combined\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS/IMSI attachment successes within the SGSN.	Average	Average
%_GPRS_attach_accept	$100 * \frac{\{\text{GPRS\_attach\_accept}\}}{\{\text{GPRS\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS attachment successes within the SGSN.	Average	Average
Combined_attach_accept	hua_gb_attach_mvno_tab. xtd2e5f2eb6pemuurbnd6 ruue	INTEGER	#	Number of GPRS/IMSI attachment successes within the SGSN.	Sum	Sum
Combined_attach_request	hua_gb_attach_mvno_tab. swkdw0sg1bc6bubrd0l63t tk6g	INTEGER	#	Number of combined GPRS/IMAI attachment requests within the SGSN.	Sum	Sum
GPRS_attach_accept	hua_gb_attach_mvno_tab. xomr6tyi2tb6vtwo0c5owy yjow	INTEGER	#	Number of GPRS attachment successes within the SGSN.	Sum	Sum
GPRS_attach_request	hua_gb_attach_mvno_tab. wb0h1hx1iocrfsbbgkve5y cqr	INTEGER	#	Number of GPRS attachment requests within the SGSN.	Sum	Sum

### 6.25.2 MVNO.Huawei.GPRS.Gb\_Mode\_Inter\_SGSN\_RAU\_with\_MVNO

Gb Mode Inter SGSN RAU with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_RAU_success	$100 * \{RAU\_success\} / \{RAU\_request\}$	FLOAT	%	Percentage of inter-SGSN RAU successes within this SGSN area.	Average	Average
RAU_request	hua_gb_inter_sgsn_rau_table.t4f5rqhgkvcc0cldaogfs3f16e	INTEGER	#	Number of inter-SGSN RAU requests within the SGSN area.	Sum	Sum
RAU_success	hua_gb_inter_sgsn_rau_table.usctervwo2cx5dfmdmwdxislgo	INTEGER	#	Number of inter-SGSN RAU successes within this SGSN area.	Sum	Sum

### 6.25.3 MVNO.Huawei.GPRS.Gb\_Mode\_Intra\_SGSN\_RAU\_with\_MVNO

Gb Mode Intra SGSN RAU with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_RAU_success	$100 * \{RAU\_success\} / \{RAU\_request\}$	FLOAT	%	Percentage of intra-SGSN RAU successes within this SGSN area.	Average	Average
RAU_request	hua_gb_intra_sgsn_rau_table.vommp1jgb4ckhbfpje32k3gmjd	INTEGER	#	Number of intra-SGSN RAU requests within the SGSN area.	Sum	Sum

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RAU_success	hua_gb_intra_sgsn_rau_tab.u3u6cbi6fcc51r0t236aku4j1c	INTEGER	#	Number of intra-SGSN RAU successes within this SGSN area.	Sum	Sum
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#### 6.25.4 MVNO.Huawei.GPRS.Gb\_Mode\_PDP\_Context\_Activation\_with\_MVNO

Gb Mode PDP Context Activation with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
MS_init_PDP_context_act_reject	hua_gb_pdp_act_mvno_tab.sosiotncbkbrytq2x12pt53r1p	INTEGER	#	Number of rejected MS-initiated PDP context activations in a specified MVNO	Sum	Sum
MS_init_PDP_context_act_success	hua_gb_pdp_act_mvno_tab.rqhk2fda5ch5tkewhn1tqpdlg	INTEGER	#	Number of successful MS-initiated PDP context activations in a specified MVNO	Sum	Sum
MS_init_PDP_context_act	hua_gb_pdp_act_mvno_tab.xwwfovt3uubfqb0d4u5ft62vr	INTEGER	#	Number of MS-initiated PDP context activation attempts in a specified MVNO	Sum	Sum

#### 6.25.5 MVNO.Huawei.GPRS.Gb\_Mode\_Radio\_Resource\_with\_MVNO

Gb Mode Radio Resource with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Attached_users	hua_gb_radio_resource_table.ta0d13no4tcuwbvrbtdb4ybp	INTEGER	#	Number of attached mobile users in specific MVNO	Average	Average, Maximum, Minimum, Sum

### 6.25.6 MVNO.Huawei.GPRS.Gb\_Mode\_SM\_Resource\_with\_MVNO

Gb Mode SM Resource with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Activated_PDP	hua_gb_sm_res_mvno_table.ya1plviucjbkl46qjinpdefg	INTEGER	#	Number of Active PDP Sessions in a specified MVNO	Average	Average, Maximum, Minimum, Sum
Avg_act_PDP_Sessions_background	hua_gb_sm_res_mvno_table.s3hnewcrjwb4sugpaghplpfcfl	INTEGER	#	Number of Active PDP Sessions for the background QoS Class in a specified MVNO	Average	Average, Maximum, Minimum, Sum
Avg_act_PDP_Sessions_conversation	hua_gb_sm_res_mvno_table.ub1doelcwbbv5s10dydhmhx5vt	INTEGER	#	Number of Active PDP Sessions for the conversational QoS Class in a specified MVNO	Average	Average, Maximum, Minimum, Sum
Avg_act_PDP_	hua_gb_sm_res_mvno_table	INTEGER	#	Number of	Average	Average,

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Sessions_interactive	.v6no0iqmeocjjcgk4f3gnmpkp1	ER		Active PDP Sessions for the interactive QoS Class in a specified MVNO		Maximum, Minimum, Sum
Avg_act_PDP_Sessions_streaming	hua_gb_sm_res_mvno_tab.vup6d1k3xrcgisy25vft4rri d1	INTEGER	#	Number of Active PDP Sessions for the streaming QoS Class in a specified MVNO	Average	Average, Maximum, Minimum, Sum

### 6.25.7 MVNO.Huawei.GPRS.lu\_Mode\_Attach\_with\_MVNO

Iu Mode Attach with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Combined_attach_accept	$100 * \frac{\{\text{Combined\_attach\_accept}\}}{\{\text{Combined\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS/IMSI attachment successes within the SGSN.	Average	Average
%_GPRS_attach_accept	$100 * \frac{\{\text{GPRS\_attach\_accept}\}}{\{\text{GPRS\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS attachment successes within the SGSN.	Average	Average
Combined_attach_accept	hua_iu_attach_mvno_tab.rjsgsbrqd5bc1bd2abijrmlrg5	INTEGER	#	Number of GPRS/IMSI attachment successes within the SGSN.	Sum	Sum
Combined_attach	hua_iu_attach_mvno_tab.y	INTEGER	#	Number of	Sum	Sum

h_request	arar2xhpqbohdygga06euw0j	ER		combined GPRS/IMSI attachment requests within the SGSN.		
GPRS_attach_accept	hua_iu_attach_mvno_tab.yt6o6ma4f1bapt0b43oyyg3wvo	INTEGER	#	Number of GPRS attachment successes within the SGSN.	Sum	Sum
GPRS_attach_request	hua_iu_attach_mvno_tab.xwvsscexxbcfwc6vcflgsltddd	INTEGER	#	Number of GPRS attachment requests within the SGSN.	Sum	Sum

### 6.25.8 MVNO.Huawei.GPRS.lu\_Mode\_Inter\_SGSN\_RAU\_with\_MVNO

Iu Mode Inter SGSN RAU with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_RAU_success	$100 * \{RAU\_success\} / \{RAU\_request\}$	FLOAT	%	Percentage of inter-SGSN RAU successes within this SGSN area.	Average	Average
RAU_request	hua_iu_inter_sgsn_rau_tab.y3ogwqxq3scaetd46g12sedrab	INTEGER	#	Number of inter-SGSN RAU requests within the SGSN area.	Sum	Sum
RAU_success	hua_iu_inter_sgsn_rau_tab.syc65jj5fpce1ruicu6dpq	INTEGER	#	Number of inter-SGSN	Sum	Sum

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	0qjb			RAU successes within this SGSN area.		
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#### 6.25.9 MVNO.Huawei.GPRS.lu\_Mode\_Intra\_SGSN\_RAU\_with\_MVNO

Iu Mode Intra SGSN RAU with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_RAU_success	$100 * \{\text{RAU\_success}\} / \{\text{RAU\_request}\}$	FLOAT	%	Percentage of intra-SGSN RAU successes within this SGSN area.	Average	Average
RAU_request	hua_iu_intra_sgsn_rau_tab.wdl6bwpagbwgbrhncuhhn6w6b	INTEGER	#	Number of intra-SGSN RAU requests within the SGSN area.	Sum	Sum
RAU_success	hua_iu_intra_sgsn_rau_tab.riyvq5qcfcpcn5sqglvg3aeoqx	INTEGER	#	Number of intra-SGSN RAU successes within this SGSN area.	Sum	Sum

#### 6.25.10 MVNO.Huawei.GPRS.lu\_Mode\_PDP\_Context\_Activation\_with\_MVNO

Iu Mode PDP Context Activation with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
MS_init_PDP_context_activation_reject	hua_iu_pdp_act_mvno_tab.y556gyragmbuteqfump13w4qqx	INTEGER	#	Number of first PDP context activation failures	Sum	Sum

MS_init_PDP_context_act_success	hua_iu_pdp_act_mvno_tab.ygh3lyv0kbc3nrvygc04c6mbdi	INTEGER	#	Number of successes of MS-initiated first PDP context activation.	Sum	Sum
MS_init_PDP_context_act	hua_iu_pdp_act_mvno_tab.xbafclsye5c64txyehcjjo	INTEGER	#	Number of attempts of MS-initiated first PDP context activation using static or dynamic PDP address.	Sum	Sum

#### 6.25.11 MVNO.Huawei.GPRS.Iu\_Mode\_Radio\_Resource\_with\_MVNO

Iu Mode Radio Resource with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Attached_users	hua_iu_radio_res_mvno_tab.u3y36ucqjnbld0nojmdmb50fm	INTEGER	#	Number of attached mobile users in specific MVNO	Average	Average, Maximum, Minimum, Sum

#### 6.25.12 MVNO.Huawei.GPRS.Iu\_Mode\_SM\_Resource\_with\_MVNO

Iu Mode SM Resource with MVNO measurement

The performance data measurements for this KPI group are recorded against the combination of MVNO and SGSN (sgsn\_id)

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Activated_PDP	hua_iu_sm_res_mvno_tab .w0gnyjpfaycgec26olikgx gymh	INTEGER	#	Number of Active PDP Sessions in a specified MVNO	Average	Average, Maximum, Minimum, Sum
Avg_act_PDP_ Sessions_backg round	hua_iu_sm_res_mvno_tab .utrddeum1fbbvudlo6bryx y0ho	INTEGER	#	Number of Active PDP Sessions for the background QoS Class in a specified MVNO	Average	Average, Maximum, Minimum, Sum
Avg_act_PDP_ Sessions_conve rsation	hua_iu_sm_res_mvno_tab .wlayfb0xtxcu1sf1ed62rcq 5sc	INTEGER	#	Number of Active PDP Sessions for the conversational QoS Class in a specified MVNO	Average	Average, Maximum, Minimum, Sum
Avg_act_PDP_ Sessions_intera ctive	hua_iu_sm_res_mvno_tab .ygra5a6tubciwbkf6ca1dp buqn	INTEGER	#	Number of Active PDP Sessions for the interactive QoS Class in a specified MVNO	Average	Average, Maximum, Minimum, Sum
Avg_act_PDP_ Sessions_strea ming	hua_iu_sm_res_mvno_tab .tcm0oep61bcgbsybs21jf 4rno	INTEGER	#	Number of Active PDP Sessions for the streaming QoS Class in a specified MVNO	Average	Average, Maximum, Minimum, Sum

## 6.26 NSE Performance Indicators

- [NSE.Huawei.GPRS.BSSGP\\_with\\_Specific\\_NSE](#)
- [NSE.Huawei.GPRS.NS\\_with\\_Specific\\_NSE](#)

### 6.26.1 NSE.Huawei.GPRS.BSSGP\_with\_Specific\_NSE

BSSGP with Specific NSE measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
FLUSH_LL_ACK_msg_rec_from_BSS	hua_bssgp_specific_nse_talb.xj6yfeoks1bg1uuc5wvbhmb33w	INTEGER	#	Number of received cell data deletion/transfer response messages.	Sum	hustrafbh, Sum
FLUSH_LL_msg_sent_to_BSS	hua_bssgp_specific_nse_talb.ymtgplmcdbbgkekbmviq0x0ndn	INTEGER	#	Number of sent cell data deletion/transfer messages.	Sum	hustrafbh, Sum
NSE_reset_ack_msg_rec_from_BSS	hua_bssgp_specific_nse_talb.unt2hkc1habexdknt6u6osfe3h	INTEGER	#	Number of received NSE reset response messages.	Sum	hustrafbh, Sum
NSE_reset_ack_msg_sent_to_BSS	hua_bssgp_specific_nse_talb.w6akblc32vbnsbbjjh3qii5ewa	INTEGER	#	Number of NSE reset response messages.	Sum	hustrafbh, Sum
NSE_reset_msg_rec_from_BSS	hua_bssgp_specific_nse_talb.rjeatrjbnb44bpei6o3aqmaee	INTEGER	#	Number of received NSE reset messages.	Sum	hustrafbh, Sum
NSE_reset_msg_sent_to_BSS	hua_bssgp_specific_nse_talb.vr54ifokntcxwuu4jkpuq0u6kw	INTEGER	#	Number of sent NSE reset messages.	Sum	hustrafbh, Sum
Pkts_buffered_due_to_FLUSH_LL	hua_bssgp_specific_nse_talb.rqgvtw3fdtcwdbjer53n3s32gh	INTEGER	#	Number of packets buffered due to FLUSH_LL.	Sum	hustrafbh, Sum
Pkts_dropped_due_to_FLUSH_LL	hua_bssgp_specific_nse_talb.xb05sq1s6tcofuusn2vfk0qirb	INTEGER	#	Number of packets dropped due to FLUSH_LL.	Sum	hustrafbh, Sum

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### 6.26.2 NSE.Huawei.GPRS.NS\_with\_Specific\_NSE

NS with Specific NSE measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Data_amount_rec_by_NS	hua_ns_specific_nse_tab.vu51sabuowcp2cq3qhyqlnc6f	INT8	KBytes	The data amount received by NSE.	Sum	hustrafbh, Sum
Data_amount_sent_by_NS	hua_ns_specific_nse_tab.ujtpnkmfqwblxb6bphwby1xh1u	INT8	KBytes	The data amount sent from NSE.	Sum	hustrafbh, Sum
DL_data_amount_dropped_by_NS	hua_ns_specific_nse_tab.y12eakgqkxbdas44vmr0mmwv5b	INT8	KBytes	The downlink data amount discarded by NSE.	Sum	hustrafbh, Sum
Peak_Data_amount_rcvd_by_NS	hua_ns_specific_nse_tab.saan64b3xa2airvh002ind6wb g	FLOAT	KBytes/s	Obsolete from CN-SGSN/V900R010.C01SPC022:Peak Data amount received by NS	Average	hustrafbh, Sum, Minimum, Maximum
Peak_Data_amount_sent_by_NS	hua_ns_specific_nse_tab.saan6463xa2airvh002ind6wb g	FLOAT	KBytes/s	Obsolete from CN-SGSN/V900R010.C01SPC022:Peak Data amount sent by NS	Average	hustrafbh, Sum, Minimum, Maximum
Pkts_dropped_by_NS	hua_ns_specific_nse_tab.u0tboq56x2ca3ed3uhbqqr0xts	INTEGER	#	Total number of data packets dropped by NSE.	Sum	hustrafbh, Sum
Pkts_rec_by_NS	hua_ns_specific_nse_tab.rrhark2k2scger1tf0qoxgl0qk	INTEGER	#	Total number of data packets received by NSE.	Sum	hustrafbh, Sum
Pkts_sent_by_NS	hua_ns_specific_nse_tab.v51lqq34a00lbt5tbqas3ygx6w3	INTEGER	#	Total number of data packets	Sum	hustrafbh, Sum

	3			sent from NSE.		
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## 6.27 NSVC Performance Indicators

- [NSVC.Huawei.GPRS.NS\\_with\\_Specific\\_NSVC](#)

### 6.27.1 NSVC.Huawei.GPRS.NS\_with\_Specific\_NSVC

NS with Specific NSVC measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
DL_and_UL_pkts_discarded	{UL_pkts_discarded} + {DL_pkts_discarded}	INTEGER	#	Number of uplink and downlink data packets discarded by NSVC.	Sum	hunspbh, huStrafbh, Sum
DL_and_UL_pkts	hua_ns_specific_nsvc_tab.xwmnumtv52bdtm0hmrwsol56i	INTEGER	#	Number of uplink and downlink data packets sent and received from/by NSVC.	Sum	hunspbh, huStrafbh, Sum
DL_data_kbytes_discarded	hua_ns_specific_nsvc_tab.y3gg4uft5nchkutxxhoebutrc1	INT8	KBytes	Number of downlink data kbytes discarded by NSVC.	Sum	hunspbh, huStrafbh, Sum
DL_data_kbytes_sent_to_FR	hua_ns_specific_nsvc_tab.rxoxqmdcqobgrdrxefkkgq03hq	INT8	KBytes	Number of downlink data kbytes sent to FR from NSVC.	Sum	hunspbh, huStrafbh, Sum
DL_kB_disc_CIR_ovrflw_p	hua_ns_specific_nsvc_tab.saan6443xa2airvh002ind6w	INT8	Kbytes	Number of downlink data	Sum	hunspbh, huStrafbh

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er_NSVC	bg			kbytes discarded due to CIR overflow per NSVC		, Sum
DL_pkts_discarded	hua_ns_specific_nsvc_tab.t vvsqoa2wecmwr1gsxkn3fl 034	INTEG ER	#	Number of downlink data packets discarded by NSVC.	Sum	hunspbh, hustrafbh , Sum
DL_pkts_sent to_FR	hua_ns_specific_nsvc_tab. usveq64huac0ursal00wrg3 gl4	INTEG ER	#	Number of downlink data packets sent to FR from NSVC.	Sum	hunspbh, hustrafbh , Sum
NS_block_ack _msg_rec_fro m_BSS	hua_ns_specific_nsvc_tab. xu04vxgnh2c6wumt0wa0 mvxfhb	INTEG ER	#	Number of BLOCK ACK messages received by NSVC from BSS.	Sum	hunspbh, hustrafbh , Sum
NS_block_ack _msg_sent_to _BSS	hua_ns_specific_nsvc_tab. xdwnesrfcubgmd6eylj0y1b ws3	INTEG ER	#	Number of BLOCK ACK messages sent from NSVC.	Sum	hunspbh, hustrafbh , Sum
NS_block_ack _msg	{NS_block_ack_msg_sent_ to_BSS} + {NS_block_ack_msg_rec_f rom_BSS}	INTEG ER	#	Number of BLOCK ACK messages sent and received from/by NSVC.	Sum	hunspbh, hustrafbh , Sum
NS_block_ms g_rec_from_B SS	hua_ns_specific_nsvc_tab. yc31rldkabbgibxquoagaym v4o	INTEG ER	#	Number of BLOCK messages received by NSVC from BSS.	Sum	hunspbh, hustrafbh , Sum
NS_block_ms g_sent_to_BS S	hua_ns_specific_nsvc_tab. wxybstokhec2qeyqtdsdsdi mlg	INTEG ER	#	Number of BLOCK messages sent from NSVC.	Sum	hunspbh, hustrafbh , Sum
NS_block_ms	{NS_block_msg_sent_to_	INTEG	#	Number of	Sum	hunspbh,

g	BSS} + {NS_block_msg_rec_from _BSS}	ER		BLOCK messages sent and received from/by NSVC.		hustrafbh , Sum
NS_reset_ack _msg_rec_fro m_BSS	hua_ns_specific_nsvc_tab. xp0fbbqmpnbp5aiolmun wrst	INTEG ER	#	Number of RESET ACK messages received by NSVC from BSS.	Sum	hunspbh, hustrafbh , Sum
NS_reset_ack _msg_sent_to _BSS	hua_ns_specific_nsvc_tab. v01iivavqrcivekh1sk6cnwl aw	INTEG ER	#	Number of RESET ACK messages sent from NSVC.	Sum	hunspbh, hustrafbh , Sum
NS_reset_msg _rec_from_BS S	hua_ns_specific_nsvc_tab.s khhiurxqtbrprmmivturnsr3 q	INTEG ER	#	Number of RESET messages received by NSVC.	Sum	hunspbh, hustrafbh , Sum
NS_reset_msg _sent_to_BSS	hua_ns_specific_nsvc_tab. vg23wieaovbxt3eelbnq0f pja	INTEG ER	#	Number of RESET messages sent from NSVC.	Sum	hunspbh, hustrafbh , Sum
NS_unblock_a ck_msg_rec_fr om_BSS	hua_ns_specific_nsvc_tab. x36hxxlqxeceae4torsdj23 0q	INTEG ER	#	Number of UNBLOCK ACK messages received by NSVC from BSS.	Sum	hunspbh, hustrafbh , Sum
NS_unblock_a ck_msg_sent_t o_BSS	hua_ns_specific_nsvc_tab. vtu4ttlapfbvwtxlqghdpem tv	INTEG ER	#	Number of UNBLOCK ACK messages sent from NSVC.	Sum	hunspbh, hustrafbh , Sum
NS_unblock_a ck_msg	{NS_unblock_ack_msg_se nt_to_BSS} + {NS_unblock_ack_msg_re	INTEG ER	#	Number of UNBLOCK ACK messages	Sum	hunspbh, hustrafbh , Sum

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	c_from_BSS}			sent and received from/by NSVC.		
NS_unblock_msg_rec_from_BSS	hua_ns_specific_nsvc_tab.sbuvdbaeiqbafbpqff4op15sf0	INTEGER	#	Number of UNBLOCK messages received by NSVC.	Sum	hunspbh, huStrafbh, Sum
NS_unblock_msg_sent_to_BSS	hua_ns_specific_nsvc_tab.v4m4ovmsbypbv56isjttqfh0i	INTEGER	#	Number of UNBLOCK messages sent from NSVC.	Sum	hunspbh, huStrafbh, Sum
NS_unblock_msg	{NS_unblock_msg_sent_to_BSS} + {NS_unblock_msg_rec_from_BSS}	INTEGER	#	Number of UNBLOCK messages sent and received from/by NSVC.	Sum	hunspbh, huStrafbh, Sum
UL_data_kbytes_discarded	hua_ns_specific_nsvc_tab.wrcp33pafubxlco4eivdi40btr	INT8	KBytes	Number of uplink data kbytes discarded by NSVC.	Sum	hunspbh, huStrafbh, Sum
UL_data_kbytes_rec_from_FR	hua_ns_specific_nsvc_tab.ym5fjynvhlbybt2gs06upska pl	INT8	KBytes	Number of kbytes received by NSVC from FR.	Sum	hunspbh, huStrafbh, Sum
UL_pkts_discarded	hua_ns_specific_nsvc_tab.w5f6yv3sp6bxxcpqgfuypl uled	INTEGER	#	Number of uplink data packets discarded by NSVC.	Sum	hunspbh, huStrafbh, Sum
UL_pkts_recv_from_FR	hua_ns_specific_nsvc_tab.v5hacc1fw6cfludv5qqqcy moxj	INTEGER	#	Number of uplink data packets received by NSVC from FR.	Sum	hunspbh, huStrafbh, Sum

## 6.28 NSVC\_IP Performance Indicators

- [NSVC\\_IP.Huawei.GPRS.NS\\_with\\_Specific\\_IP\\_NSVC](#)

**6.28.1 NSVC\_IP.Huawei.GPRS.NS\_with\_Specific\_IP\_NSVC**

NS with Specific IP NSVC measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
IP_NSVC_DL_data_kbytes_discarded	hua_ns_ip_nsvc_tab.vgtp2e3b5nc1ce1xhvtrc5mhrn	INT8	KBytes	Number of downlink data kbytes discarded by NSVC.	Sum	hustrafbh, Sum
IP_NSVC_DL_data_kbytes_sent_to_FR	hua_ns_ip_nsvc_tab.wpqycjhualbfdroxsajgvc1smo	INT8	KBytes	Number of downlink data kbytes sent to FR from NSVC.	Sum	hustrafbh, Sum
IP_NSVC_DL_pkts_discarded	hua_ns_ip_nsvc_tab.rwlv3v5se6bsrtu4tt6bemh4hj	INTEGER	#	Number of downlink data packets discarded by NSVC.	Sum	hustrafbh, Sum
IP_NSVC_DL_pkts_sent_to_FR	hua_ns_ip_nsvc_tab.wfbuj21diobgsee1i5m2m5ew1k	INTEGER	#	Number of downlink data packets sent to FR from NSVC.	Sum	hustrafbh, Sum
IP_NSVC_UL_data_kbytes_discarded	hua_ns_ip_nsvc_tab.ugbf6qdle4chmr0tro4cycbhax	INT8	KBytes	Number of uplink data kbytes discarded by NSVC.	Sum	hustrafbh, Sum
IP_NSVC_UL_data_kbytes_received_from_FR	hua_ns_ip_nsvc_tab.t3mxc3xphtbfius5jbhf5g4kf6	INT8	KBytes	Number of kbytes received by NSVC from FR.	Sum	hustrafbh, Sum
IP_NSVC_UL	hua_ns_ip_nsvc_tab.so3es	INTEGER	#	Number of	Sum	hustrafbh

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_pkts_discarded	dmbgcbk0ewxqqi0e0gfei	ER		uplink data packets discarded by NSVC.		, Sum
IP_NSVC_UL_pkts_rec_from_FR	hua_ns_ip_nsvc_tab.u0v4r0fkcbhte36pi4homuldj	INTEGER	#	Number of uplink data packets received by NSVC from FR.	Sum	hustrafbh, Sum

## 6.29 RNC Performance Indicators

- [RNC.Huawei.GPRS.Relocation\\_with\\_RNC](#)

### 6.29.1 RNC.Huawei.GPRS.Relocation\_with\_RNC

Inter-SGSN hard, soft and relocation handover per RNC

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Inter_hard_HO_success	$100 * \frac{\{\text{Inter\_hard\_HO\_success}\}}{\{\text{Inter\_hard\_HO\_request}\}}$	FLOAT	%	Percentage of successful inter-SGSN hard handovers.	Average	Average, hustrafbh
%_Inter_soft_HO_success	$100 * \frac{\{\text{Inter\_soft\_HO\_success}\}}{\{\text{Inter\_soft\_HO\_request}\}}$	FLOAT	%	Percentage of successful inter-SGSN software handovers.	Average	Average, hustrafbh
%_Intra_hard_HO_success	$100 * \frac{\{\text{Intra\_hard\_HO\_success}\}}{\{\text{Intra\_hard\_HO\_request}\}}$	FLOAT	%	Percentage of successful intra-SGSN hard handovers.	Average	Average, hustrafbh
%_Intra_soft_HO_success	$100 * \frac{\{\text{Intra\_soft\_HO\_success}\}}{\{\text{Intra\_soft\_HO\_request}\}}$	FLOAT	%	Percentage of successful intra-SGSN soft handovers.	Average	Average, hustrafbh
Inter_hard_HO_request	hua_relocation_rnc_tab.vy2txqt4smc66tinha5ufat5cg	INTEGER	#	Number of SGSN-received inter-SGSN	Sum	hustrafbh, Sum

				hard handover requests.		
Inter_hard_HO_success	hua_relocation_rnc_tab.tee xiiyh0nc3urjvqev1wqoi1x	INTEGER	#	Number of successful inter-SGSN hard handovers.	Sum	hustrafbh, Sum
Inter_reloc_attempt_at_target_SGSN	hua_relocation_rnc_tab.u1 a3tc2nfacuur5nlt11eyphts	INTEGER	#	Number of inter-SGSN relocation requests in target SGSN.	Sum	hustrafbh, Sum
Inter_reloc_pre_p_suc_at_source_SGSN	hua_relocation_rnc_tab.w ui5jiqkhccb6t3icrc1b1o3og	INTEGER	#	Number of successful inter-SGSN relocation preparation process in source SGSN.	Sum	hustrafbh, Sum
Inter_reloc_pre_p_suc_at_target_SGSN	hua_relocation_rnc_tab.srf wflxwrtbgmej4mmsw20xta3	INTEGER	#	Number of successful inter-SGSN relocation complete process in target SGSN.	Sum	hustrafbh, Sum
Inter_soft_HO_request	hua_relocation_rnc_tab.w d0lqi54ypb35e5rqxdfjfxvu	INTEGER	#	Number of times SGSN receives inter-SGSN soft handover requests.	Sum	hustrafbh, Sum
Inter_soft_HO_success	hua_relocation_rnc_tab.sh rdtw3bkscano3vd3honf3i	INTEGER	#	Number of successful inter-SGSN software handovers.	Sum	hustrafbh, Sum
Intra_hard_HO_request	hua_relocation_rnc_tab.wr noo4jsv6b5br6ona3ii4revk	INTEGER	#	Number of times SGSN	Sum	hustrafbh, Sum

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				receives the intra-SGSN hard handover request.		
Intra_hard_HO_success	hua_relocation_rnc_tab.t0crvri0rcb5nd34jc0omcoelp	INTEGER	#	Number of successful intra-SGSN hard handovers.	Sum	hustrafbh, Sum
Intra_reloc_pre_p_suc_at_source_SGSN	hua_relocation_rnc_tab.x0ofx3y5sdcopbiqxdriiv6	INTEGER	#	Number of successful intra-SGSN relocation preparation process in source SGSN.	Sum	hustrafbh, Sum
Intra_soft_HO_request	hua_relocation_rnc_tab.y3vda55spkc6xb3icmlyqmnkj	INTEGER	#	Number of times SGSN receives intra-SGSN soft handover request.	Sum	hustrafbh, Sum
Intra_soft_HO_success	hua_relocation_rnc_tab.ujx3dh2q4buacgntunbk162g5	INTEGER	#	Number of successful intra-SGSN soft handovers.	Sum	hustrafbh, Sum

### 6.30 Routing\_Area Performance Indicators

- [Routing\\_Area.Huawei.GPRS.Gb\\_Mode\\_Attach\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Gb\\_Mode\\_Detach\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Gb\\_Mode\\_Inter\\_SGSN\\_RAU\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Gb\\_Mode\\_Intra\\_SGSN\\_RAU\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Gb\\_Mode\\_Paging\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Gb\\_Mode\\_Radio\\_Resource\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Gb\\_Mode\\_SM\\_Resource\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Inter\\_System\\_Switch\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Iu\\_Mode\\_Attach\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Iu\\_Mode\\_Detach\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Iu\\_Mode\\_Inter\\_SGSN\\_RAU\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Iu\\_Mode\\_Intra\\_SGSN\\_RAU\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Iu\\_Mode\\_Paging\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Iu\\_Mode\\_Radio\\_Resource\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Iu\\_Mode\\_Service\\_Request\\_with\\_RAI](#)

- [Routing\\_Area.Huawei.GPRS.Iu\\_Mode\\_SM\\_Resource\\_with\\_RAI](#)
- [Routing\\_Area.Huawei.GPRS.Specific\\_Routing\\_Area\\_SM\\_2G](#)
- [Routing\\_Area.Huawei.GPRS.Specific\\_Routing\\_Area\\_SM\\_3G](#)

### 6.30.1 Routing\_Area.Huawei.GPRS.Gb\_Mode\_Attach\_with\_RAI

Gb Mode Attach with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Com_attach_accept	$100 * \frac{\{\text{Com\_attach\_accept}\}}{\{\text{Com\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS/IMSI attachment successes within the SGSN.	Average	Average, hustrafbh
%_GPRS_attach_accept	$100 * \frac{\{\text{GPRS\_attach\_accept}\}}{\{\text{GPRS\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS attachment successes within the SGSN.	Average	Average, hustrafbh
Attach_reject_Ge_fail	hua_gb_mode_attach_rai_t ab.v334ia4rdybxcc22effxa qu34k	INTEGER	#	Number of GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh, Sum
Attach_reject_GPRS_srvc_no_t_allow	hua_gb_mode_attach_rai_t ab.tq4pa05o55cnhtv6tcb0f 3bxlq	INTEGER	#	Number of GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hustrafbh, Sum
Attach_reject_	hua_gb_mode_attach_rai_t	INTEGER	#	Number of	Sum	hustrafbh

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Gr_fail	ab.wxofumtxx2cg4cflcil3s4lwvl	ER		GPRS attachment failures within SGSN due to Gr protocol error.		, Sum
Attach_reject_LA_not_allowed	hua_gb_mode_attach_rai_t ab.vox3mhbtuyuc6dtap2ffh pod10m	INTEGER	#	Number of GPRS attachment rejects due to Location Area not allowed.	Sum	hustrafbh , Sum
Attach_reject_protocol_error	hua_gb_mode_attach_rai_t ab.rmy3wn5tiqbaytxi5jm4i c6qui	INTEGER	#	Number of GPRS attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
Attach_reject_roam_not_allowed	hua_gb_mode_attach_rai_t ab.xsqxls662bb2astmssmti k4nm6	INTEGER	#	Number of GPRS attachment failures within SGSN due to LA roaming restriction.	Sum	hustrafbh , Sum
Attach_reject_times_illegal_ME	hua_gb_mode_attach_rai_t ab.wjes5yvmytcmns3f44r mveryoj	INTEGER	#	Number of GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh , Sum
Com_attach_accept	hua_gb_mode_attach_rai_t ab.w00s6byvslcn1edbxvdt 6n5tta	INTEGER	#	Number of GPRS/IMSI attachment successes within the SGSN.	Sum	hustrafbh , Sum
Com_attach_rej_Ge_fail	hua_gb_mode_attach_rai_t ab.sfbvulk1iqc2rb1rtrjyfxn nap	INTEGER	#	Number of combined GPRS/IMSI attachment failures within	Sum	hustrafbh , Sum

				SGSN due to Ge protocol error.		
Com_attach_rej_GPRS_not_allowed	hua_gb_mode_attach_rai_t ab.sncsi2blylcvyuti2r312gr v0k	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh , Sum
Com_attach_rej_GPRS_srvc_not_allow	hua_gb_mode_attach_rai_t ab.rynlm6lgghb0wbxfxyft degw0u	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to GPRS services not allowed.	Sum	hustrafbh , Sum
Com_attach_rej_Gr_fail	hua_gb_mode_attach_rai_t ab.r1bsj5p0keb1ie4achv3jl s0o3	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Gr protocol error.	Sum	hustrafbh , Sum
Com_attach_rej_LA_not_allowed	hua_gb_mode_attach_rai_t ab.rq1ndhpl45cxgrlflsn4nd vmfs	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to Location Area not allowed.	Sum	hustrafbh , Sum
Com_attach_rej_No_suit_Cells	hua_gb_mode_attach_rai_t ab.stec4rc5x1b2fdd2jlesgn s3al	INTEGER	#	Number of combined GPRS/IMSI attachment	Sum	hustrafbh , Sum

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				failures within SGSN due to no suitable cells in LA.		
Com_attach_rej_protocol_error	hua_gb_mode_attach_rai_t ab.yivr5c25gnbswedfkmnf vj2ycf	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
Com_attach_rej_roam_not_allowed	hua_gb_mode_attach_rai_t ab.vwupr0si5cb4yu550lyg grtojs	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to LA roaming restriction.	Sum	hustrafbh , Sum
Com_attach_rej_times_ill_ME	hua_gb_mode_attach_rai_t ab.utyblpkqfhcqr6malry2j sukf	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to illegal ME.	Sum	hustrafbh , Sum
Com_attach_rej_times_ill_MS	hua_gb_mode_attach_rai_t ab.vsxmsyghy2bv3ruwsdq vjwolok	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to illegal mobile station.	Sum	hustrafbh , Sum
Com_attach_request	hua_gb_mode_attach_rai_t ab.rxsiejbxjkbldscsw5fcq dshbi	INTEGER	#	Number of combined GPRS/IMAI attachment requests within the SGSN.	Sum	hustrafbh , Sum
Gb_GPRS_Att_rej_per_RA	hua_gb_mode_attach_rai_t ab.saan6f43xa2airvh002in d6wbq	INTEGER	#	The number of GPRS attachment	Sum	hustrafbh , Sum

				rejects within the SGSN.		
GPRS_att_ref_ill_ME_IMSI_attached	hua_gb_mode_attach_rai_t ab.rcuidvirjtbqmcomodiwu xh3ux	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh , Sum
GPRS_att_ref_ill_MS_IMSI_attached	hua_gb_mode_attach_rai_t ab.voj0staqgrbm2c0jlau6g ktuel	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to illegal mobile station.	Sum	hustrafbh , Sum
GPRS_attach_acc_while_IMSI_attached	hua_gb_mode_attach_rai_t ab.tubrt10wxgcuecrkoel6e 6ameg	INTEGER	#	Number of IMSI-attached GPRS attachment successes within the SGSN.	Sum	hustrafbh , Sum
GPRS_attach_accept	hua_gb_mode_attach_rai_t ab.vxbu4fygsuca2enbmjav 03uecw	INTEGER	#	Number of GPRS attachment successes within the SGSN.	Sum	hustrafbh , Sum
GPRS_attach_reject_GPRS_not_allow	hua_gb_mode_attach_rai_t ab.wmopsdohocbm3ut2jyl pij2v26	INTEGER	#	Number of GPRS attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh , Sum
GPRS_Attach_reject_No_suit	hua_gb_mode_attach_rai_t ab.uylvl5intamboisijrrkpmc	INTEGER	#	Number of GPRS	Sum	hustrafbh , Sum

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_Cells	r05l			attachment failures within SGSN due to no suitable cells in LA.		
GPRS_attach_reject_times_illegal_MS	hua_gb_mode_attach_rai_t ab.vinljskunoc10ur4ubeq0 sj2h5	INTEGER	#	Number of GPRS attachment rejects due to illegal mobile station.	Sum	hustrafbh , Sum
GPRS_attach_req_while_IMSI_attached	hua_gb_mode_attach_rai_t ab.stggjxyh6ccsutjcymbfht htdl	INTEGER	#	Number of IMSI-attached GPRS attachment requests within the SGSN.	Sum	hustrafbh , Sum
GPRS_attach_request	hua_gb_mode_attach_rai_t ab.swxym4j5w1c4sbguli6v oh5tsk	INTEGER	#	Number of GPRS attachment requests within the SGSN.	Sum	hustrafbh , Sum
GPRS_IMSI_attach_failed_MSC_unreach	hua_gb_mode_attach_rai_t ab.spda6obhw1cr6dtqwme agk44ok	INTEGER	#	The number of times GPRS attachment succeeds but IMSI attachment fails (MSC presently unreachable).	Sum	hustrafbh , Sum
GPRS_IMSI_attach_failed_VLR_reject	hua_gb_mode_attach_rai_t ab.urq1kj5ryuc5idx5jbxh6 uorbq	INTEGER	#	The GPRS attachment succeeds while the IMSI attachment fails (rejected by VLR).	Sum	hustrafbh , Sum
IMSI_att_GPRS_att_rej_LA_not_allow	hua_gb_mode_attach_rai_t ab.tjednfabepckaukbnlbfkft k3gv	INTEGER	#	Number of IMSI-attached GPRS attachment of HPLMN users	Sum	hustrafbh , Sum

				rejects due to Location Area not allowed.		
IMSI_att_reject_GPRS_srvc_not_allow	hua_gb_mode_attach_rai_t ab.r2t4wmc3ddbmt530dv ho33lrd	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hustrafbh, Sum
IMSI_att_reject_No_suit_Cells	hua_gb_mode_attach_rai_t ab.w4ysibyilsci3bf5fghcyk kxat	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to no suitable Cells in LA.	Sum	hustrafbh, Sum
IMSI_att_reject_roam_not_allow	hua_gb_mode_attach_rai_t ab.wpf2vli03qckueclad0sa h2uvw	INTEGER	#	Number of IMSI-attached GPRS attachment of non-HPLMN users failures within SGSN due to LA roaming restriction.	Sum	hustrafbh, Sum
IMSI_attach_reject_Ge_fail	hua_gb_mode_attach_rai_t ab.rxew4jmv5obhgctelcs 4g36bn	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh, Sum
IMSI_attach_re	hua_gb_mode_attach_rai_t	INTEGER	#	Number of	Sum	hustrafbh

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ject_Gr_fail	ab.xnf3df13mtceksmybaqk bnxmea	ER		IMSI-attached GPRS attachment failures within SGSN due to Gr protocol error.		, Sum
IMSI_attach_re ject_protocol_e rr	hua_gb_mode_attach_rai_t ab.sc4ybwh6v1bmntkperjtj 3lmrh	INTEG ER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
IMSI_reject_G PRS_not_allow	hua_gb_mode_attach_rai_t ab.xdlxudtq1db5hs0xdj0alt ongj	INTEG ER	#	Number of IMSI-attached GPRS attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh , Sum

### 6.30.2 Routing\_Area.Huawei.GPRS.Gb\_Mode\_Detach\_with\_RAI

Gb Mode Detach with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Detach_accept_message_sent	hua_gb_mode_detach_rai_ tab.xxj3qlm4l2cjcqxvpan lt5jpp	INTEG ER	#	Number of "detach accept" messages sent to MS.	Sum	hustrafbh , Sum
HLR_init_detach_request	hua_gb_mode_detach_rai_ tab.y6chajbichbhmcp1go2 bbqkb5p	INTEG ER	#	Number of detachment requests due to subscriber deletion by HLR.	Sum	hustrafbh , Sum
MS_init_combined_detach_req	hua_gb_mode_detach_rai_ tab.upuaieulcfcms6b1v3c	INTEG ER	#	Number of MS- initiated	Sum	hustrafbh , Sum

uest	pajl0x			requests for combined GPRS/IMSI detachment within the SGSN.		
MS_init_GPRS_detach_request	hua_gb_mode_detach_rai_tab.slnapc0hjlbwwt4jkpnbhqdmvx	INTEGER	#	Number of MS-initiated requests for GPRS detachment within the SGSN.	Sum	hustrafbh, Sum
MS_init_IMSI_detach_request	hua_gb_mode_detach_rai_tab.yvx1rsbit1cdjrxamfxpsnlxot	INTEGER	#	Number of MS-initiated requests for IMSI detachment within the SGSN.	Sum	hustrafbh, Sum
SGSN_init_detach_request	hua_gb_mode_detach_rai_tab.umfwljlkpbgbmjdvkiqkt14r3au	INTEGER	#	Number of SGSN-initiated requests for GPRS detachment.	Sum	hustrafbh, Sum
Successful_of_SGSN_init_detach	hua_gb_mode_detach_rai_tab.rdj0wec1qhbjrpsvvg3ao0mvd	INTEGER	#	Number of SGSN-initiated GPRS detachment successes.	Sum	hustrafbh, Sum

### 6.30.3 Routing\_Area.Huawei.GPRS.Gb\_Mode\_Inter\_SGSN\_RAU\_with\_RAI

Gb Mode Inter SGSN RAU with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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%_Com_RAU_success	$100 * \frac{\{\text{Com\_RAU\_success}\}}{\{\text{Com\_RAU\_request}\}}$	FLOAT	%	Percentage of successful combined inter-SGSN RAU updates.	Average	Average, huStrafbh
%_RAU_successes	$100 * \frac{\{\text{RAU\_success}\}}{\{\text{RAU\_request}\}}$	FLOAT	%	Percentage of inter-SGSN RAU successes within this SGSN area.	Average	Average, huStrafbh
Com_RAU_reject_Ge_fail	hua_gb_inter_rau_rai_tab.s oqxaf5pbncgdd133aufgoto 1w	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	huStrafbh, Sum
Com_RAU_reject_GPRS_not_allowed	hua_gb_inter_rau_rai_tab.r j0kssk2fxca6t5ncyrtistqmt	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service not allowed in this PLMN.	Sum	huStrafbh, Sum
Com_RAU_reject_GPRS_srvc_not_allow	hua_gb_inter_rau_rai_tab.t gbgx51q5pc3xum0x4ue50 vmcl	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal ME.	Sum	huStrafbh, Sum
Com_RAU_reject_Gr_fail	hua_gb_inter_rau_rai_tab. yysorr3qo4b0gdnc5xy6xs uvu	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	huStrafbh, Sum
Com_RAU_reject_illegal_ME	hua_gb_inter_rau_rai_tab. vjyg63oy5jc3fb41jbbywqg qmc	INTEGER	#	Number of inter-SGSN combined RA/LA update	Sum	huStrafbh, Sum

				failures due to illegal ME.		
Com_RAU_reject_illegal_MS	hua_gb_inter_rau_rai_tab.xyiy2t1aglcngtixdpqps64pfs	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hustrafbh, Sum
Com_RAU_reject_implicitly_detached	hua_gb_inter_rau_rai_tab.tk3bdxhhcwbltt0g33xi44e20w	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service not allowed.	Sum	hustrafbh, Sum
Com_RAU_reject_LA_not_allowed	hua_gb_inter_rau_rai_tab.xdimr5f5loc3qustkfjfce2rqa	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hustrafbh, Sum
Com_RAU_reject_protocol_error	hua_gb_inter_rau_rai_tab.rlb6yrfah0b1qr6xtjumevnuj	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_roam_not_allowed	hua_gb_inter_rau_rai_tab.s66l4nctsmcndtyg63wbdk23y	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.	Sum	hustrafbh, Sum
Com_RAU_reje	hua_gb_inter_rau_rai_tab.	INTEGER	#	Number of	Sum	hustrafbh

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ct_times_no_suit_Cells	x56qjpvjlbbbehbglw132y3gigk	ER		inter-SGSN combined RA/LA update failures due to no suitable cells in LA.		, Sum
Com_RAU_request	hua_gb_inter_rau_rai_tab.xonp1yg16scgpcco0ft14vp2sk	INTEGER	#	Number of inter-SGSN combined RA/LA update requests.	Sum	hustrafbh, Sum
Com_RAU_success	hua_gb_inter_rau_rai_tab.uapfedvkpscmcu4wkp1tjwyg3j	INTEGER	#	Number of successful combined inter-SGSN RAU updates.	Sum	hustrafbh, Sum
Gb_inter_SG_RAU_fail_per_RA	hua_gb_inter_rau_rai_tab.saan6f63xa2airvh002ind6wbg	INTEGER	#	The number of inter-SGSN RAU fail within This SGSN area.	Sum	hustrafbh, Sum
Gb_mode_inter_SGSN_Com_RAU_reject_MS_identity_cant_derived_by_network_per_RA	hua_gb_inter_rau_rai_tab.vey2h0kvwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of inter-SGSN combined RA/LA update failures due to MS identity cannot be derived by the network.	Sum	hustrafbh, Sum
Gb_mode_inter_SGSN_RAU_reject_MS_identity_cant_derived_by_network_per_RA	hua_gb_inter_rau_rai_tab.vey2h0ivwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of inter-SGSN RAU failures due to MS identity cannot be derived by the network.	Sum	hustrafbh, Sum

InterSGRAU_out_rej_per_RA	hua_gb_inter_rau_rai_tab.saan6fd3xa2airvh002ind6wbg	INTEGER	#	The number of times fail to out of the old SGSN in inter-SGSN RAU procedures.	Sum	hustrafbh , Sum
InterSGRAU_out_succ_per_RA	hua_gb_inter_rau_rai_tab.saan6fb3xa2airvh002ind6wbg	INTEGER	#	The number of times out of the old SGSN in inter-SGSN RAU procedures.	Sum	hustrafbh , Sum
RAU_accept_LAU_reject_MS C_unreach	hua_gb_inter_rau_rai_tab.uft5htkb52ctjtm01qn4c135v4	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined inter-SGSN updates.	Sum	hustrafbh , Sum
RAU_accept_LAU_reject_VLR_reject	hua_gb_inter_rau_rai_tab.t4tkh3yv0dbvjchryhonqm4g4j	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined inter-SGSN updates.	Sum	hustrafbh , Sum
RAU_complete_msg_rec	hua_gb_inter_rau_rai_tab.wte0bmoc65cfft42fc0s5hv3	INTEGER	#	Number of times inter-SGSN RAU is completed .	Sum	hustrafbh , Sum
RAU_reject_Ge_fail	hua_gb_inter_rau_rai_tab.t5rdra1ylwcbos1xa5jvhrccv o	INTEGER	#	Number of inter-SGSN RAU failures	Sum	hustrafbh , Sum

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				due to Ge protocol error.		
RAU_reject_GPRS_not_allowed_in_PLMN	hua_gb_inter_rau_rai_tab.xu4q02iryacj5eucqf6m525m1d	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service not allowed in this PLMN.	Sum	hustrafbh , Sum
RAU_reject_GPRS_service_not_allowed	hua_gb_inter_rau_rai_tab.xt02wy32kmbsfdppy6fu2at2w2	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service not allowed.	Sum	hustrafbh , Sum
RAU_reject_Gr_fail	hua_gb_inter_rau_rai_tab.uukrtsf1qlbikbqyf5pcq44k5	INTEGER	#	Number of inter-SGSN RAU failures due to Gr protocol error.	Sum	hustrafbh , Sum
RAU_reject_illegal_ME	hua_gb_inter_rau_rai_tab.wfwyeshsxsc4yeucpkmxv34k3b	INTEGER	#	Number of inter-SGSN RAU failures due to illegal ME.	Sum	hustrafbh , Sum
RAU_reject_illegal_MS	hua_gb_inter_rau_rai_tab.rjtnyoi0awc45e5vcoigv065gl	INTEGER	#	Number of inter-SGSN RAU failures due to illegal mobile station.	Sum	hustrafbh , Sum
RAU_reject_implicitly_detached	hua_gb_inter_rau_rai_tab.uhx212dcaubahb33tvejwc hu4i	INTEGER	#	Number of inter-SGSN RAU failures due to implicitly detached.	Sum	hustrafbh , Sum
RAU_reject_LA_not_allowed	hua_gb_inter_rau_rai_tab.xfoiw460l6bm5c4xrng3tre3iy	INTEGER	#	Number of inter-SGSN RAU failures due to location area not	Sum	hustrafbh , Sum

				allowed.		
RAU_reject_no_suitable_Cells_in_LA	hua_gb_inter_rau_rai_tab.y2qdjtw2ubxtcfonfsnr1md1r	INTEGER	#	Number of inter-SGSN RAU failures due to no suitable cells in LA.	Sum	hustrafbh, Sum
RAU_reject_protocol_error	hua_gb_inter_rau_rai_tab.y6i0tbq5snbuqbi5hsv5lnoy34	INTEGER	#	Number of inter-SGSN RAU failures due to protocol error.	Sum	hustrafbh, Sum
RAU_reject_roam_not_allowed	hua_gb_inter_rau_rai_tab.syx6qt4adhbh0saup6r6bncifd	INTEGER	#	Number of inter-SGSN RAU failures due to roaming not allowed in this Location area.	Sum	hustrafbh, Sum
RAU_request	hua_gb_inter_rau_rai_tab.todb0pb0a0crwbaeh61urhuxtq	INTEGER	#	Number of inter-SGSN RAU requests within the SGSN area.	Sum	hustrafbh, Sum
RAU_success	hua_gb_inter_rau_rai_tab.vm0qgvs6jtc1eutgytuurrtuy1	INTEGER	#	Number of inter-SGSN RAU successes within this SGSN area.	Sum	hustrafbh, Sum

#### 6.30.4 Routing\_Area.Huawei.GPRS.Gb\_Mode\_Intra\_SGSN\_RAU\_with\_RAI

Gb Mode Intra SGSN RAU with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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%_Com_RAU_success	$100 * \frac{\{\text{Com\_RAU\_success}\}}{\{\text{Com\_RAU\_request}\}}$	FLOAT	%	Percentage of successful combined intra-SGSN RAU updates.	Average	Average, hustrafbh
%_Periodic_RA_U_success	$100 * \frac{\{\text{Periodic\_RAU\_success}\}}{\{\text{Periodic\_RAU\_request}\}}$	FLOAT	%	Percentage of Periodic RAU successes within this SGSN area.	Average	Average, hustrafbh
%_RAU_successes	$100 * \frac{\{\text{RAU\_success}\}}{\{\text{RAU\_request}\}}$	FLOAT	%	Percentage of intra-SGSN RAU successes within this SGSN area.	Average	Average, hustrafbh
Com_RAU_reject_Ge_fail	hua_gb_intra_rau_rai_tab.ydwyp0na2mcilbtd2hdjnadid4	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_Gr_fail	hua_gb_intra_rau_rai_tab.w2wnahks1ubyabxqg3uevkqcd2	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_illegal_MS	hua_gb_intra_rau_rai_tab.uds4rpk66xbosb2l6g0igkf0rw	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hustrafbh, Sum
Com_RAU_reject_implicitly_detached	hua_gb_intra_rau_rai_tab.tw152qiwmncocd6tr0aevxifs3	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to implicitly	Sum	hustrafbh, Sum

				detached.		
Com_RAU_reject_LA_not_allowed	hua_gb_intra_rau_rai_tab.vnv2nuapnhbidsk4pwpbiig2vi	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hustrafbh, Sum
Com_RAU_reject_No_suit_Cells	hua_gb_intra_rau_rai_tab.ug0aa3tskvc2aurmrk6dp4qryk	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to no suitable cells in LA.	Sum	hustrafbh, Sum
Com_RAU_reject_protocol_error	hua_gb_intra_rau_rai_tab.ux6y0vjsnfb66rxt04ranasisa	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_roam_not_allowed	hua_gb_intra_rau_rai_tab.vbwlbahsegcnhce13m552to5u2	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.	Sum	hustrafbh, Sum
Com_RAU_request	hua_gb_intra_rau_rai_tab.r2rsrqeaiyb6rb3vs1elapeeqn	INTEGER	#	Number of intra-SGSN combined RA/LA update requests.	Sum	hustrafbh, Sum
Com_RAU_success	hua_gb_intra_rau_rai_tab.v0vl46mjuncbqsg24k5qp4buhb	INTEGER	#	Number of successful combined intra-SGSN	Sum	hustrafbh, Sum

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				RAU updates.		
Periodic_RAU_request	hua_gb_intra_rau_rai_tab.wf2pv0pi5kcm4d15cwkea0o5vt	INTEGER	#	Number of Periodic RAU requests within the SGSN area.	Sum	hustrafbh , Sum
Periodic_RAU_success	hua_gb_intra_rau_rai_tab.sfrx5vakblbxydcapagu1d1dj4	INTEGER	#	Number of Periodic RAU successes within this SGSN area.	Sum	hustrafbh , Sum
RAU_accept_LAU_reject_MSC_unreach	hua_gb_intra_rau_rai_tab.uvn2s5pqt1bx6blqg3nrk2oalw	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined intra-SGSN updates.	Sum	hustrafbh , Sum
RAU_accept_LAU_reject_VLR_reject	hua_gb_intra_rau_rai_tab.uvckp2ipyybepcf5wct0xjemqr	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined intra-SGSN updates.	Sum	hustrafbh , Sum
RAU_complete_message_rec	hua_gb_intra_rau_rai_tab.rutnalrsg6cawr6ulwtjaeam2t	INTEGER	#	Number of times intra-SGSN RAU is completed .	Sum	hustrafbh , Sum
RAU_reject_Ge_fail	hua_gb_intra_rau_rai_tab.yhm1l2gtkcbp2bn1o2sffj3r tt	INTEGER	#	Number of intra-SGSN RAU failures due to Ge protocol error.	Sum	hustrafbh , Sum
RAU_reject_Gr_fail	hua_gb_intra_rau_rai_tab.uutkmrk3ahcaqertoa5fe121	INTEGER	#	Number of intra-SGSN	Sum	hustrafbh , Sum

	13			RAU failures due to Gr protocol error.		
RAU_reject_illegal_MS	hua_gb_intra_rau_rai_tab.rht4psilgucxkcgbhmvpo2vrc	INTEGER	#	Number of intra-SGSN RAU failures due to illegal mobile station.	Sum	hustrafbh, Sum
RAU_reject_implicitly_detached	hua_gb_intra_rau_rai_tab.vviyn1xpaccaub4ye1rem1won5	INTEGER	#	Number of intra-SGSN RAU failures due to implicitly detached.	Sum	hustrafbh, Sum
RAU_reject_LA_not_allowed	hua_gb_intra_rau_rai_tab.v0ot1suyn6cn2sbgbagc0v0yam	INTEGER	#	Number of intra-SGSN RAU failures due to location area not allowed.	Sum	hustrafbh, Sum
RAU_reject_no_suitable_Cells_in_LA	hua_gb_intra_rau_rai_tab.sqaks5x1iuc16c6ly5cd3vn1gx	INTEGER	#	Number of intra-SGSN RAU failures due to no suitable cells in LA.	Sum	hustrafbh, Sum
RAU_reject_protocol_error	hua_gb_intra_rau_rai_tab.uoasl5crngbsgev3pj5moq2fxo	INTEGER	#	Number of intra-SGSN RAU failures due to protocol error.	Sum	hustrafbh, Sum
RAU_reject_roam_not_allowed	hua_gb_intra_rau_rai_tab.wkfhwnjrj1b60enqmif541cini	INTEGER	#	Number of intra-SGSN RAU failures due to roaming not allowed in this Location area.	Sum	hustrafbh, Sum

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RAU_request	hua_gb_intra_rau_rai_tab.s5gdfeg4kvc3ydxlcra5ekvtr0	INTEGER	#	Number of intra-SGSN RAU requests within the SGSN area.	Sum	hustrafbh, Sum
RAU_success	hua_gb_intra_rau_rai_tab.uudac1tuu5caabuu6aw161t20k	INTEGER	#	Number of intra-SGSN RAU successes within this SGSN area.	Sum	hustrafbh, Sum

### 6.30.5 Routing\_Area.Huawei.GPRS.Gb\_Mode\_Paging\_with\_RAI

Gb Mode Paging with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Gb_mode_packet_paging_request_by_UTRAN_times_per_RA	hua_gb_mode_page_rai_tab.vey2h0mvwr2air02b04u3bm6j	INTEGER	times	This measurement provides the number of attempts of GPRS packet paging within a specified RA, which is sent through UTRAN and does not include the re-paging process.	Sum	hustrafbh, Sum
Gb_mode_packet_paging_response_by_3G_RAU_times_per_RA	hua_gb_mode_page_rai_tab.vey2h0ovwr2air02b04u3bm6j	INTEGER	times	This measurement provides the number of GPRS packet paging responses by 3G RAU within a specified RA.	Sum	hustrafbh, Sum
Gb_mode_packet_paging_res	hua_gb_mode_page_rai_tab.vey2h0qvwr2air02b04u3	INTEGER	times	This measurement	Sum	hustrafbh, Sum

ponse_by_LL C_PDU_times _per_RA	bmv6j			provides the number of GPRS packet paging responses by uplink LLC PDU within a specified RA.		
Pkt_paging_fail	hua_gb_mode_page_rai_t b.s0tapa3fenb2mcqkdfnjfjd soq	INTEGER	#	Number of failed GPRS packet pagings within a specified RA such as paging timeout.	Sum	hustrafbh , Sum
Pkt_paging_request	hua_gb_mode_page_rai_t b.ug61jkl121cpvr0wai5me kjnc	INTEGER	#	Number of attempts of GPRS packet paging within a specified RA, which includes the initial paging and re-paging process.	Sum	hustrafbh , Sum

### 6.30.6 Routing\_Area.Huawei.GPRS.Gb\_Mode\_Radio\_Resource\_with\_RAI

Gb Mode Radio Resource with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Att_avg_SIM_user_per_RA	hua_gb_mode_radio_rai_t ab.saan6ff3xa2airvh002in d6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Average number of Gb mode attached	Average	Average, hustrafbh , Maximum, Minimum, Sum

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				SIM user per RA		
Att_avg_USIM_user_per_RA	hua_gb_mode_radio_rai_t ab.saan6fh3xa2airvh002in d6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Average number of Gb mode attached USIM user per RA	Average	Average, hustrafbh, Maximum, Minimum, Sum
Attached_Max_user	hua_gb_mode_radio_rai_t ab.wkegkn06upccwc14xi3 fpgilng	INTEGER	#	Maximum 2G subscribers that can be attached in a routing area.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Attached_user	hua_gb_mode_radio_rai_t ab.rlc36tpbd6b0gelrsriw4s su3s	INTEGER	#	Number of attached mobile users in specific RA.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_mode_attached_Average_user_number_per_RA	hua_gb_mode_radio_rai_t ab.tl63xpyny42ahc3lr02in cnmdw	INTEGER	#	Mean 2G subscribers that can be attached in a routing area.	Average	Average, hustrafbh, Maximum, Minimum, Sum

### 6.30.7 Routing\_Area.Huawei.GPRS.Gb\_Mode\_SM\_Resource\_with\_RAI

Gb Mode SM Resource with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Gb_mode_PDP_number_wit	hua_gb_mode_sm_res_rai tab.vjo1rhi060cdeu2nd21	INTEGER	#	Number of PDP contexts of Gb	Average	Average, hustrafbh

h_specific_RA	ot363cm			mode in active status.		, Maximum, Minimum, Sum
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### 6.30.8 Routing\_Area.Huawei.GPRS.Inter\_System\_Switch\_with\_RAI

Inter System Switch with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_GSM_to_UMTS_change_success	$100 * \frac{\{\text{GSM\_to\_UMTS\_change\_success}\}}{\{\text{GSM\_to\_UMTS\_change\_request}\}}$	FLOAT	%	Percentage of successful 2G-3G system changes within SGSN.	Average	Average, hustrafbh
%_UMTS_to_GSM_change_success	$100 * \frac{\{\text{UMTS\_to\_GSM\_change\_success}\}}{\{\text{UMTS\_to\_GSM\_change\_request}\}}$	FLOAT	%	Percentage of successful 3G-2G changes within SGSN.	Average	Average, hustrafbh
GSM_to_UMTS_change_request	hua_inter_switch_rai_tab.xkjef0msc3bcece50yseeqjw4	INTEGER	#	Number of received requests for 2G-3G change within SGSN.	Sum	hustrafbh, Sum
GSM_to_UMTS_change_success	hua_inter_switch_rai_tab.vnshcn5nnhchscgi2ih4yv5qpww	INTEGER	#	Number of successful 2G-3G system changes within SGSN.	Sum	hustrafbh, Sum
UMTS_to_GSM_change_request	hua_inter_switch_rai_tab.wqjx0atnl3c6mryd1sivv1njo0	INTEGER	#	Number of requests for received 3G-2G system change within SGSN.	Sum	hustrafbh, Sum

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UMTS_to_GSM_change_success	hua_inter_switch_rai_tab.uoscs6ionnbrlc3a1k16rv541	INTEGER	#	Number of successful 3G-2G changes within SGSN.	Sum	hustrafbh, Sum
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### 6.30.9 Routing\_Area.Huawei.GPRS.Iu\_Mode\_Attach\_with\_RAI

Iu Mode Attach with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Com_attach_accept	100 * {Com_attach_accept}/ {Com_attach_request}	FLOAT	%	Percentage of GPRS/IMSI attachment successes within the SGSN.	Average	Average, hustrafbh
%_GPRS_attach_success	100 * {GPRS_attach_success}/ {GPRS_attach_request}	FLOAT	%	Percentage of GPRS attachment successes within the SGSN.	Average	Average, hustrafbh
Att_rej_roamNot Allow_LA_per_RA	hua_iu_mode_attach_rai_tab.saan6k63xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of rejected Iu mode GPRS attach (roaming not allowed in LA) per RA	Sum	hustrafbh, Sum
Attach_reject_Ge_fail	hua_iu_mode_attach_rai_tab.ske5knhn5pcrvrabixkyjrox3e	INTEGER	#	Number of GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh, Sum

Attach_reject_GPRS_srv_not_allowed	hua_iu_mode_attach_rai_talb.wqq3wbqv2kbmbbksptnk0pdxwm	INTEGER	#	Number of GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hustrafbh, Sum
Attach_reject_Gr_fail	hua_iu_mode_attach_rai_talb.wjpcqd3g4bcgxcfdqpnkpegnub	INTEGER	#	Number of GPRS attachment failures within SGSN due to Gr protocol error.	Sum	hustrafbh, Sum
Attach_reject_LA_not_allowed	hua_iu_mode_attach_rai_talb.x233hj0cmhew2tvnvcswq4xwya	INTEGER	#	Number of GPRS attachment rejects due to Location Area not allowed.	Sum	hustrafbh, Sum
Attach_reject_protocol_error	hua_iu_mode_attach_rai_talb.xienb2q25uc6md5unq6ngk5ktc	INTEGER	#	Number of GPRS attachment failures within SGSN due to protocol error.	Sum	hustrafbh, Sum
Attach_reject_tmes_illegal_ME	hua_iu_mode_attach_rai_talb.x6rtkmrfbpbcod2jibfevkl2dh	INTEGER	#	Number of GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh, Sum
Attrej_IMSI_roamNotAllowLA_RA	hua_iu_mode_attach_rai_talb.saan6kd3xa2airvh002ind6wbq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of	Sum	hustrafbh, Sum

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				rejected Iu mode IMSI-attached GPRS attach (roaming not allowed in LA)per RA		
Com_attach_acc ept	hua_iu_mode_attach_rai_t a.b.scls6pch4kcnermvdf2jeou imp	INTEG ER	#	Number of GPRS/IMSI attachment successes within the SGSN.	Sum	hustrafbh , Sum
Com_attach_rej_ Ge_fail	hua_iu_mode_attach_rai_t a.b.vs1tjwh06kcxhreamf6fan m3sl	INTEG ER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
Com_attach_rej_ Gprs_not_allow	hua_iu_mode_attach_rai_t a.b.u3tegv2oabhmca0d53h6 6wrny	INTEG ER	#	Number of combined GPRS/IMSI attachment rejects due to GPRS service not allowed in this PLMN.	Sum	hustrafbh , Sum
Com_attach_rej_ GPRS_srvc_not_ allow	hua_iu_mode_attach_rai_t a.b.s63kgwljuibr3dhuifo5me5 yya	INTEG ER	#	The GPRS attachment succeeds while the IMSI attachment fails (rejected by VLR).	Sum	hustrafbh , Sum
Com_attach_rej_ Gr_fail	hua_iu_mode_attach_rai_t a.b.s46rsyfn41bcqueca05r10 w162	INTEG ER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to GPRS	Sum	hustrafbh , Sum

				services not allowed.		
Com_attach_rej_illegal_ME	hua_iu_mode_attach_rai_talb.vvuhbfrsuackmdd1sc3g6rsh1e	INTEGER	#	Number of GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh, Sum
Com_attach_rej_illegal_MS	hua_iu_mode_attach_rai_talb.vyburh5qenc46bbni050p3vxkc	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to illegal mobile station.	Sum	hustrafbh, Sum
Com_attach_rej_LA_not_allowed	hua_iu_mode_attach_rai_talb.wxyq40hjwpchwef2ofg5dkmlga	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to Location Area not allowed.	Sum	hustrafbh, Sum
Com_attach_rej_no_suit_cell	hua_iu_mode_attach_rai_talb.y4ktx2qibyba4rhx2bfbjuk1ad	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to no suitable cell in LA.	Sum	hustrafbh, Sum
Com_attach_rej_protocol_error	hua_iu_mode_attach_rai_talb.xkfn4xclikbfrd5cc5cwjdplfq	INTEGER	#	The number of times GPRS attachment succeeds but IMSI attachment fails (MSC	Sum	hustrafbh, Sum

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				presently unreachable).		
Com_attach_request	hua_iu_mode_attach_rai_t b.ugwk0rkotdcr1u4b00f6xs q5fg	INTEGER	#	Number of combined GPRS/IMSI attachment requests within the SGSN.	Sum	hustrafbh , Sum
ComAttrej_roam NotAllowLA_perRA	hua_iu_mode_attach_rai_t b.saan6kb3xa2airvh002ind6 wbq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of rejected Iu mode combined attach (roaming not allowed in LA) per RA	Sum	hustrafbh , Sum
GPRS_attach_after_IMSI_attachment_request	hua_iu_mode_attach_rai_t b.wv5c0vmybsc2sch0b3vn0 jmwc5	INTEGER	#	Number of IMSI-attached GPRS attachment requests within the SGSN.	Sum	hustrafbh , Sum
GPRS_attach_failure_MSC_unreach	hua_iu_mode_attach_rai_t b.w6dno20e01brlb4qjeoe1s ei41	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh , Sum
GPRS_attach_failure_VLR_reject	hua_iu_mode_attach_rai_t b.w0oytop2v3bsrc0ledkxto xvef	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Gr protocol	Sum	hustrafbh , Sum

				error.		
GPRS_attach_reject_Gprs_not_allowed	hua_iu_mode_attach_rai_talb.wg0r5e4chfcu5cenv4aq1r4s26	INTEGER	#	Number of GPRS attachment rejects due to GPRS service not allowed in this PLMN.	Sum	hustrafbh, Sum
GPRS_attach_reject_no_suit_cell	hua_iu_mode_attach_rai_talb.vyvummkvx1b20tqnigao5ihl3x	INTEGER	#	Number of GPRS attachment failures within SGSN due to no suitable cell in LA.	Sum	hustrafbh, Sum
GPRS_attach_reject_times_illegal_MS	hua_iu_mode_attach_rai_talb.vafvgc6pc0bb4dm1wcj0hfptvu	INTEGER	#	Number of GPRS attachment rejects due to illegal mobile station.	Sum	hustrafbh, Sum
GPRS_attach_request	hua_iu_mode_attach_rai_talb.u53n211nuicwgdouxkbpq5mg6v	INTEGER	#	Number of GPRS attachment requests within the SGSN.	Sum	hustrafbh, Sum
GPRS_attach_success_after_IMSI_attach	hua_iu_mode_attach_rai_talb.vtcbcgvv1bbdj42hlqssow21f	INTEGER	#	Number of IMSI-attached GPRS attachment successes within the SGSN.	Sum	hustrafbh, Sum
GPRS_attach_success	hua_iu_mode_attach_rai_talb.vxvjnscdvuberetap1frhok03b	INTEGER	#	Number of GPRS attachment successes	Sum	hustrafbh, Sum

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				within the SGSN.		
IMSI_att_GPRS_att_rej_LA_not_allow	hua_iu_mode_attach_rai_talb.tu4qvuyomtbqxb5opup1e15h6o	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to Location Area not allowed.	Sum	hustrafbh , Sum
IMSI_att_GPRS_att_rej_protocol_err	hua_iu_mode_attach_rai_talb.ul3usyaa32cahr3hc2xa056lmp	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
IMSI_att_GPRS_att_reject_Ge_fail	hua_iu_mode_attach_rai_talb.to456m2wy2bowr4v16iwbkgdge	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh , Sum
IMSI_att_GPRS_att_reject_Gr_fail	hua_iu_mode_attach_rai_talb.sjisx0cnkubk0ubspt00hfi51	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Gr protocol error.	Sum	hustrafbh , Sum
IMSI_att_reject_Gprs_not_allowed	hua_iu_mode_attach_rai_talb.usm5tjdeccymurabmpg3xpceu	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to GPRS service not allowed in this PLMN.	Sum	hustrafbh , Sum
IMSI_att_reject_GPRS_srvc_not_	hua_iu_mode_attach_rai_talb.yuornkjercb55dc4w6hdko	INTEGER	#	Number of IMSI-attached	Sum	hustrafbh , Sum

allow	eexc			GPRS attachment failures within SGSN due to GPRS services not allowed.		
IMSI_att_reject_no_suit_cell	hua_iu_mode_attach_rai_talb.uao163hbtycw1ujvg4rwx5n6op	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to no suitable cell in LA.	Sum	hustrafbh, Sum
IMSI_attached_GPRS_att_rej_ill_ME	hua_iu_mode_attach_rai_talb.yqev4babj5bsndcm63jh113f43	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh, Sum
IMSI_attached_GPRS_att_rej_ill_MS	hua_iu_mode_attach_rai_talb.rjxrqfxof3bjit5c3q6y4yfoqf	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to illegal mobile station.	Sum	hustrafbh, Sum
Iu_mode_GPRS_Att_fail_per_RA	hua_iu_mode_attach_rai_talb.saan6k43xa2airvh002ind6wbq	INTEGER	#	Number of GPRS attachment rejects within the SGSN.	Sum	hustrafbh, Sum

### 6.30.10 Routing\_Area.Huawei.GPRS.Iu\_Mode\_Detach\_with\_RAI

Iu Mode Detach with RAI measurement

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KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_SGSN_init_detach_success	100 * {SGSN_init_detach_success}/ {SGSN_init_detach_request}	FLOAT	%	Percentage of SGSN-initiated GPRS detachment successes.	Average	Average, hustrafbh
Detach_accept_message_sent	hua_iu_mode_detach_rai_t ab.u3xjddsvjqbmyutnack2 qyfdp2	INTEGER	#	Number of "detach accept" messages sent to MS.	Sum	hustrafbh, Sum
HLR_init_detach_request	hua_iu_mode_detach_rai_t ab.yeokkunuescwvcwbcdet hj3nmm	INTEGER	#	Number of detachment requests due to subscriber deletion by HLR.	Sum	hustrafbh, Sum
MS_init_combined_detach_request	hua_iu_mode_detach_rai_t ab.rhaaavjsschnbbkbynpe qyxxb	INTEGER	#	Number of MS-initiated requests for combined GPRS/IMSI detachment within the SGSN.	Sum	hustrafbh, Sum
MS_init_GPRS_detach_request	hua_iu_mode_detach_rai_t ab.xldv4s2ehncrgsw5pind or2wd	INTEGER	#	Number of MS-initiated requests for GPRS detachment within the SGSN.	Sum	hustrafbh, Sum
MS_init_IMSI_detach_request	hua_iu_mode_detach_rai_t ab.ua1s6pnlhwb6nshbqjaw 2npcxu	INTEGER	#	Number of MS-initiated requests for IMSI detachment within the SGSN.	Sum	hustrafbh, Sum
SGSN_init_det	hua_iu_mode_detach_rai_t	INTEGER	#	Number of	Sum	hustrafbh

ach_request	ab.wefbrfmjdicjgrlg1gk2mtash5	ER		SGSN-initiated requests for GPRS detachment.		, Sum
SGSN_init_det ach_success	hua_iu_mode_detach_rai_t ab.xmk5slffdnbk1rslalceg 6fupw	INTEG ER	#	Number of SGSN-initiated GPRS detachment successes.	Sum	hustrafbh , Sum

### 6.30.11 Routing\_Area.Huawei.GPRS.Iu\_Mode\_Inter\_SGSN\_RAU\_with\_RAI

Iu Mode Inter SGSN RAU with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Com_RAU_success	$100 * \frac{\text{Com\_RAU\_success}}{\text{Com\_RAU\_request}}$	FLOAT	%	Number of successful combined inter-SGSN RAU updates.	Average	Average, hustrafbh
%_RAU_success	$100 * \frac{\text{RAU\_success}}{\text{RAU\_request}}$	FLOAT	%	Percentage of inter-SGSN RAU successes within this SGSN area.	Average	Average, hustrafbh
Com_RAU_reject_Ge_fail	hua_iu_inter_rai_tab.rj x5bh6ltkcpbrkpralilolwpf	INTEG ER	#	Number of inter-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hustrafbh , Sum
Com_RAU_reject_Gprs_not_allowed	hua_iu_inter_rai_tab.y ap6bdaea0btyboat43uq32x ai	INTEG ER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS not allowed.	Sum	hustrafbh , Sum

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				LA update failures due to GPRS service is not allowed in this PLMN.		
Com_RAU_reject_GPRS_srvc_not_allow	hua_iu_inter_rau_rai_tab.x33a3lhlk1cm3tlogwc3hysdly	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service not allowed.	Sum	hustrafbh, Sum
Com_RAU_reject_Gr_fail	hua_iu_inter_rau_rai_tab.uhxcjftmbcladwmurumhhruvq	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_illegal_ME	hua_iu_inter_rau_rai_tab.yoonrtspgpbnesujpkwlhm6bnm	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal ME.	Sum	hustrafbh, Sum
Com_RAU_reject_illegal_MS	hua_iu_inter_rau_rai_tab.yb4w6m6bykbqweqq5qxultjhe	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hustrafbh, Sum
Com_RAU_reject_implicitly_detached	hua_iu_inter_rau_rai_tab.r2n2uk3kdacgccv1te3qin1f0o	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to implicitly detached.	Sum	hustrafbh, Sum
Com_RAU_reject_LA_not_allowed	hua_iu_inter_rau_rai_tab.tk6qxi3h5ccv4uphixfl5vfsuc	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to implicitly detached.	Sum	hustrafbh, Sum

				LA update failures due to location area not allowed.		
Com_RAU_reject_no_suit_cell	hua_iu_inter_rau_rai_tab.v0a1ujnmq4cjhduuribesr2mgr	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to no suitable cell in LA.	Sum	hustrafbh, Sum
Com_RAU_reject_protocol_error	hua_iu_inter_rau_rai_tab.rxi352dg6lb15rxqrqcrm5ej4a	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to protocol error.	Sum	hustrafbh, Sum
Com_RAU_request	hua_iu_inter_rau_rai_tab.t4f45wft61beucjoqlusephy1r	INTEGER	#	Number of inter-SGSN combined RA/LA update requests.	Sum	hustrafbh, Sum
Com_RAU_success	hua_iu_inter_rau_rai_tab.rteaqp152acvrtbfoomp0vuuvw4	INTEGER	#	Number of successful combined inter-SGSN RAU updates.	Sum	hustrafbh, Sum
InterRAU_rejected_roamNotAllowLA_RA	hua_iu_inter_rau_rai_tab.saan6kp3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of rejected Iu mode inter-SGSN RAU (roaming not allowed in LA) per RA	Sum	hustrafbh, Sum

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InterSGRAU_fail_per_RA	hua_iu_inter_rau_rai_tab.s aan6kj3xa2airvh002ind6w bg	INTEG ER	#	Number of inter-SGSN RAU fail within this SGSN area.	Sum	hustrafbh , Sum
InterSGRAU_out_fail_per_RA	hua_iu_inter_rau_rai_tab.s aan6kn3xa2airvh002ind6w bg	INTEG ER	#	Number of outgoing Iu mode inter- SGSN RAU failures per RA	Sum	hustrafbh , Sum
InterSGRAU_out_succ_per_RA	hua_iu_inter_rau_rai_tab.s aan6kl3xa2airvh002ind6w bg	INTEG ER	#	Number of successful outgoing Iu mode inter- SGSN RAU per RA	Sum	hustrafbh , Sum
ItrComRAUrej_roamNotAllowLA_RA	hua_iu_inter_rau_rai_tab.s aan6kr3xa2airvh002ind6w bg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode inter- SGSN Com- RAU (roaming not allowed in LA) per RA	Sum	hustrafbh , Sum
Iu_mode_inter_SGSN_Com_RAU_reject_MS_identity_cant_derived_by_network_per_RA	hua_iu_inter_rau_rai_tab. wey2h1evwr2air02b04u3b mv6j	INTEG ER	times	This measurement provides the number of inter-SGSN combined RA/ LA update failures due to MS identity cannot be derived by the network.	Sum	hustrafbh , Sum
Iu_mode_inter_SGSN_RAU_rejec	hua_iu_inter_rau_rai_tab. wey2h1cvwr2air02b04u3b	INTEG ER	times	This measurement	Sum	hustrafbh , Sum

t_MS_identity_cant_derived_by_network_per_RA	mv6j			provides the number of inter-SGSN RAU failures due to MS identity cannot be derived by the network.		
RAU_accept_LAU_reject_MSC_unreach	hua_iu_inter_rau_rai_tab.viwl0ibv4bfncn44cjkd3b6m	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined inter-SGSN updates.	Sum	hustrafbh, Sum
RAU_accept_LAU_reject_VLR_reject	hua_iu_inter_rau_rai_tab.rmjfsvjkybc22rb3xiat36egpx	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined inter-SGSN updates.	Sum	hustrafbh, Sum
RAU_complete_msg_rec	hua_iu_inter_rau_rai_tab.whalmdgmiqbnnndt02ypy32alpf	INTEGER	#	Number of times inter-SGSN RAU is completed .	Sum	hustrafbh, Sum
RAU_reject_Ge_fail	hua_iu_inter_rau_rai_tab.xbc2mvg3yebs6c21krfxu3ve1f	INTEGER	#	Number of inter-SGSN RAU failures due to Ge protocol error.	Sum	hustrafbh, Sum
RAU_reject_Gpr	hua_iu_inter_rau_rai_tab.y	INTEGER	#	Number of	Sum	hustrafbh

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s_not_allowed_in_PLMN	3uw0qpm1ib0wtyqp5f6uqf qpb	ER		inter-SGSN RAU failures due to GPRS service is not allowed in this PLMN.		, Sum
RAU_reject_GPRS_service_not_allowed	hua_iu_inter_rau_rai_tab.xrsyjp0hopbm2eits6numaxmg0	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service not allowed.	Sum	hustrafbh, Sum
RAU_reject_Gr_fail	hua_iu_inter_rau_rai_tab.x64dd4aiqebnktire4fe1oooj	INTEGER	#	Number of inter-SGSN RAU failures due to Gr protocol error.	Sum	hustrafbh, Sum
RAU_reject_illegal_ME	hua_iu_inter_rau_rai_tab.te4am6echxc2abs6uc2ero6mda	INTEGER	#	Number of inter-SGSN RAU failures due to illegal ME.	Sum	hustrafbh, Sum
RAU_reject_illegal_MS	hua_iu_inter_rau_rai_tab.t22msjxhdpcosd205pvoue6ttj	INTEGER	#	Number of inter-SGSN RAU failures due to illegal mobile station.	Sum	hustrafbh, Sum
RAU_reject_implicitly_detached	hua_iu_inter_rau_rai_tab.y2m4dvqw1wcdoeop6tyyi3vynm	INTEGER	#	Number of inter-SGSN RAU failures due to implicitly detached.	Sum	hustrafbh, Sum
RAU_reject_LA_not_allowed	hua_iu_inter_rau_rai_tab.v1qm5hs2h1brrr5kk0ff2kiqsr	INTEGER	#	Number of inter-SGSN RAU failures due to location area not allowed.	Sum	hustrafbh, Sum
RAU_reject_no_suitable_cell_in_	hua_iu_inter_rau_rai_tab.wojljdwcpkcfvumx3tneltx	INTEGER	#	Number of inter-SGSN	Sum	hustrafbh, Sum

LA	qws			RAU failures due to no suitable cell in LA.		
RAU_reject_protocol_error	hua_iu_inter_rau_rai_tab.tx00s140i4bcecohtoesx2xoa5	INTEGER	#	Number of inter-SGSN RAU failures due to protocol error.	Sum	hustrafbh, Sum
RAU_request	hua_iu_inter_rau_rai_tab.w63of04gpice3boqx4wuakca4x	INTEGER	#	Number of inter-SGSN RAU requests within the SGSN area.	Sum	hustrafbh, Sum
RAU_success	hua_iu_inter_rau_rai_tab.vabbveel1m5cwvc562jpu2ovohd	INTEGER	#	Number of inter-SGSN RAU successes within this SGSN area.	Sum	hustrafbh, Sum

### 6.30.12 Routing\_Area.Huawei.GPRS.lu\_Mode\_Intra\_SGSN\_RAU\_with\_RAI

Iu Mode Intra SGSN RAU with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_COM_RAU_success	$100 * \frac{\{COM\_RAU\_success\}}{\{COM\_RAU\_request\}}$	FLOAT	%	Percentage of successful combined intra-SGSN RAU updates.	Average	Average, hustrafbh
%_Periodic_RAU_success	$100 * \frac{\{Periodic\_RAU\_success\}}{\{Periodic\_RAU\_request\}}$	FLOAT	%	Percentage of Periodic RAU successes within this SGSN area.	Average	Average, hustrafbh

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%_RAU_success	$100 * \{RAU\_success\} / \{RAU\_request\}$	FLOAT	%	Percentage of intra-SGSN RAU successes within this SGSN area.	Average	Average, hustrafbh
Com_RAU_reject_Ge_fail	hua_iu_intra_rau_rai_tab.uwy6vs5oasb0etiqpkeicmlbcs	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_Gr_fail	hua_iu_intra_rau_rai_tab.xvy3xq05yhb0yrabmlg0wutim5	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hustrafbh, Sum
COM_RAU_reject_illegal_MS	hua_iu_intra_rau_rai_tab.v4v0b4m46bcahec6njppfk5vw4	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hustrafbh, Sum
Com_RAU_reject_implicitly_detached	hua_iu_intra_rau_rai_tab.rmfv6vjnwhce2tylhtx426afq6	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to implicitly detached.	Sum	hustrafbh, Sum
Com_RAU_reject_LA_not_allowed	hua_iu_intra_rau_rai_tab.xljfc6m0bqc6vrow6cfbd3ek54	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hustrafbh, Sum
Com_RAU_reject	hua_iu_intra_rau_rai_tab.s	INTEGER	#	Number of	Sum	hustrafbh

t_no_suit_cell	6rka35tw6cxodjmdx2gbq msrp	ER		intra-SGSN combined RA/ LA update failures due to no suitable cell in LA.		, Sum
Com_RAU_rejec t_protocol_error	hua_iu_intra_rau_rai_tab.v w53kdu5tgbihuk0byfp633 2be	INTEG ER	#	Number of intra-SGSN combined RA/ LA update failures due to protocol error.	Sum	hustrafbh , Sum
COM_RAU_req uest	hua_iu_intra_rau_rai_tab.s 13ffe10inbikukl5skyoanrjs	INTEG ER	#	Number of intra-SGSN combined RA/ LA update requests.	Sum	hustrafbh , Sum
COM_RAU_suc cess	hua_iu_intra_rau_rai_tab.y bu33fay4xc1ts4v1tlroxmw dw	INTEG ER	#	Number of successful combined intra-SGSN RAU updates.	Sum	hustrafbh , Sum
IntraRAUrej_roa mNotAllowLA_ RA	hua_iu_intra_rau_rai_tab.s aan6kf3xa2airvh002ind6w bg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode intra- SGSN RAU (roaming not allowed in LA) per RA	Sum	hustrafbh , Sum
ItaComRAUrej_r oamNotAllowLA _RA	hua_iu_intra_rau_rai_tab.s aan6kh3xa2airvh002ind6w bg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of	Sum	hustrafbh , Sum

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				rejected Iu mode intra-SGSN COM-RAU (roaming not allowed in LA) per RA		
Periodic_RAU_request	hua_iu_intra_rau_rai_tab.wox0lh4iqkbbpsw4xls3iu1cja	INTEGER	#	Number of Periodic RAU requests within the SGSN area.	Sum	hustrafbh , Sum
Periodic_RAU_success	hua_iu_intra_rau_rai_tab.ycajcjnoebbboosh0cea3tf1110	INTEGER	#	Number of Periodic RAU successes within this SGSN area.	Sum	hustrafbh , Sum
RAU_accept_LAU_reject_MSC_unreach	hua_iu_intra_rau_rai_tab.urwigtqyxfcalrvabg53c2robi	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined intra-SGSN updates.	Sum	hustrafbh , Sum
RAU_accept_LAU_reject_VLR_reject	hua_iu_intra_rau_rai_tab.vtpuywivevcfjqaw1glyrbsfr	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined intra-SGSN updates.	Sum	hustrafbh , Sum
RAU_complete_rec	hua_iu_intra_rau_rai_tab.ugr4wxstspcetsjsv6y5txrd0v	INTEGER	#	Number of times intra-SGSN RAU is completed .	Sum	hustrafbh , Sum
RAU_reject_Ge_	hua_iu_intra_rau_rai_tab.y	INTEGER	#	Number of	Sum	hustrafbh

fail	3terraqejbcl1dlygtiqqirpyn	ER		intra-SGSN RAU failures due to Ge protocol error.		, Sum
RAU_reject_Gr_fail	hua_iu_intra_rau_rai_tab.u 1j03lswxkbg0b6j3sa652oq fx	INTEG ER	#	Number of intra-SGSN RAU failures due to Gr protocol error.	Sum	hustrafbh , Sum
RAU_reject_illegal_MS	hua_iu_intra_rau_rai_tab.y u53oqs3yncleudslkylgqylak	INTEG ER	#	Number of intra-SGSN RAU failures due to illegal mobile station.	Sum	hustrafbh , Sum
RAU_reject_implicitly_detached	hua_iu_intra_rau_rai_tab.r x03pp2y05cjdejta6fcycuuu d	INTEG ER	#	Number of intra-SGSN RAU failures due to implicitly detached.	Sum	hustrafbh , Sum
RAU_reject_LA_not_allowed	hua_iu_intra_rau_rai_tab.t wiomwf41pcodrik614r2k2 lbi	INTEG ER	#	Number of intra-SGSN RAU failures due to location area not allowed.	Sum	hustrafbh , Sum
RAU_reject_no_suitable_cell_in_LA	hua_iu_intra_rau_rai_tab. wcmmqujpp6cv1uqe1nuxj h4rlt	INTEG ER	#	Number of intra-SGSN RAU failures due to no suitable cell in LA.	Sum	hustrafbh , Sum
RAU_reject_protocol_error	hua_iu_intra_rau_rai_tab.y 03lyc0laucxtuww43iypck2 ml	INTEG ER	#	Number of intra-SGSN RAU failures due to protocol error.	Sum	hustrafbh , Sum

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RAU_request	hua_iu_intra_rau_rai_tab.u on26r63oabxlb4tg3crsjxuv u	INTEG ER	#	Number of intra-SGSN RAU requests within the SGSN area.	Sum	hustrafbh , Sum
RAU_success	hua_iu_intra_rau_rai_tab.y 610016ftcbiatlgvrivthqr3a	INTEG ER	#	Number of intra-SGSN RAU successes within this SGSN area.	Sum	hustrafbh , Sum

### 6.30.13Routing\_Area.Huawei.GPRS.Iu\_Mode\_Paging\_with\_RAI

Iu Mode Paging with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Pkt_paging_fail	$100 * \{Pkt\_paging\_fail\} / \{Pkt\_paging\_request\}$	FLOAT	%	Percentage of failed packet pagings in a specified routing area.	Average	Average, hustrafbh
Iu_mode_packet_paging_request_by_GERAN_times_per_RA	hua_iu_mode_paging_rai_tab.vey2h1gvwr2air02b04u3bm6j	INTEG ER	times	This measurement provides the number of attempts of GPRS packet paging in a specified routing area, which is sent through GERAN and does not include the re-paging process.	Sum	hustrafbh , Sum
Iu_mode_packet_paging_response_by_2G_RAU_times_p	hua_iu_mode_paging_rai_tab.vey2h1ivwr2air02b04u3bm6j	INTEG ER	times	This measurement provides the number of	Sum	hustrafbh , Sum

er_RA				GPRS packet paging responses by 2G RAU in a specified routing area.		
Iu_mode_packet_paging_response_by_service_request_times_per_RA	hua_iu_mode_paging_rai_tab.vey2h1kvwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of GPRS packet paging responses by service request in a specified routing area.	Sum	hustrafbh, Sum
Pkt_paging_failed	hua_iu_mode_paging_rai_tab.yoa2i602a2b5mtpjypnlqy02cx	INTEGER	#	Number of failed packet pagings in a specified routing area.	Sum	hustrafbh, Sum
Pkt_paging_request	hua_iu_mode_paging_rai_tab.uohr302qccb5le4qkjknjk0ynk	INTEGER	#	Number of delivered packet paging requests in a specified routing area, not including re-transmitted messages.	Sum	hustrafbh, Sum

### 6.30.14 Routing\_Area.Huawei.GPRS.Iu\_Mode\_Radio\_Resource\_with\_RAI

Iu Mode Radio Resource with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Attached_Max_user	hua_iu_mode_radio_rai_tab.urpyk2a41mbxve60qe5j	INTEGER	#	Maximum 3G subscribers in	Constant	Average, hustrafbh

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	m2a5v0			the specified routing area.		, Maximum, Minimum, Sum
Attached_user	hua_iu_mode_radio_rai_tab.ydu12vgofwbotoq61n6lw0aov	INTEGER	#	Number of attached mobile users in specific RA.	Sum	hustrafbh, Sum
Atted_avg_SIM_user_number_RA	hua_iu_mode_radio_rai_tab.saan6kt3xa2airvh002ind6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Average number of Iu mode attached SIM user per RA	Average	Average, hustrafbh, Maximum, Minimum, Sum
Atted_avg_USIM_user_number_RA	hua_iu_mode_radio_rai_tab.saan6kv3xa2airvh002ind6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Average number of Iu mode attached USIM user per RA	Average	Average, hustrafbh, Maximum, Minimum, Sum
Iu_mode_attached_Average_user_number_per_RA	hua_iu_mode_radio_rai_tab.tl63xquny42ahc3lr02incnmdw	INTEGER	#	Mean 3G subscribers in the specified routing area.	Average	Average, hustrafbh, Maximum, Minimum, Sum

### 6.30.15 Routing\_Area.Huawei.GPRS.Iu\_Mode\_Service\_Request\_with\_RAI

Iu Mode Service Request with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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%_Service_Request_signal_cause_suc	100 * {Service_Request_signal_cause_suc}/ {Service_Request_signalling_cause}	FLOAT	%	Percentage of subscriber successes in initiating service requests of the signaling type.	Average	Average, hustrafbh
%_Service_Request_suc	100 * {Service_Request_suc}/ {Service_Request}	FLOAT	%	Percentage of successful service requests initiated by the subscriber.	Average	Average, hustrafbh
Iu_service_request_data	hua_iu_mode_service_request_data.vv dv4h5tnn2ahcy4j02uaylag1	INTEGER	#	Iu mode Service Request data caused success times per RA	Sum	hustrafbh, Sum
Service_reject_msg_sent_by_SGSN	hua_iu_mode_service_reject_msg_sent_by_SGSN.ab.wbd24c2duhbbdufscymcdkhmq3	INTEGER	#	Number of rejected service requests initiated by the subscriber.	Sum	hustrafbh, Sum
Service_Request_Data_cause	hua_iu_mode_service_request_data.vxm3k4q2t4cpducfr5nn34qa55	INTEGER	#	Number of attempts by the subscriber in initiating service requests of the data type.	Sum	hustrafbh, Sum
Service_Request_signal_cause_suc	hua_iu_mode_service_request_signal_cause_suc.ab.yvnp5asig3bire45vtielqkrei	INTEGER	#	Number of subscriber successes in initiating service requests of the signaling type.	Sum	hustrafbh, Sum
Service_Request	hua_iu_mode_service_request	INTEGER	#	Number of	Sum	hustrafbh

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t_signalling_case	ab.yjjdpn3dspb5rdcit4lvnbtbdt	ER		attempts by the subscriber in initiating service requests of the signaling type.		, Sum
Service_Request_suc	hua_iu_mode_service_rai_t ab.u6knllare5cjjrg5k4vcgdqlqh	INTEGER	#	Number of successful service requests initiated by the subscriber.	Sum	hustrafbh, Sum
Service_Request	hua_iu_mode_service_rai_t ab.sftn5yy14rblfd6fxc3nf33qrn	INTEGER	#	Number of attempts by the subscriber in initiating service requests.	Sum	hustrafbh, Sum

#### 6.30.16 Routing\_Area.Huawei.GPRS.Iu\_Mode\_SM\_Resource\_with\_RAI

Iu Mode SM Resource with RAI measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
PDP_number_with_specific_RA	hua_iu_mode_sm_res_rai_tab.vbwlgf1qpucomdaxcjfbrkpy1x	INTEGER	#	The number of PDPs of Iu mode in active status.	Average	Average, hustrafbh, Maximum, Minimum, Sum

#### 6.30.17 Routing\_Area.Huawei.GPRS.Specific\_Routing\_Area\_SM\_2G

Specific Routing Area SM 2G measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_all_MS_init	100 * {_2G_MS_total_init_PDP	FLOAT	%	All MS initiated PDP context	Average	hustrafbh

_PDP_succ	$\frac{\text{act\_succ}}{\{\_2G\_MS\_totally\_init\_PDP\_act\}}$			activation success ratio in specific RAI		
%_MS_init_PDP_act_succ	$100 * \frac{\{MS\_init\_PDP\_context\_act\_success\}}{\{MS\_init\_PDP\_context\_act\}}$	FLOAT	%	MS initiated PDP context activation success ratio in specific RAI	Average	hustrafbh
%_MS_init_Second_PDP_succ	$100 * \frac{\{\_2G\_MS\_init\_PDP\_sec\_act\_succ\}}{\{\_2G\_MS\_init\_PDP\_sec\_context\_act\}}$	FLOAT	%	MS initiated Secondary PDP context activation success ratio in specific RAI	Average	hustrafbh
_2G_GGSN_init_PDP_context_deact	hua_specific_ra_sm_2g_talb.saan6qr3xa2airvh002ind6wbg	INTEGER	#	Number of GGSN-initiated PDP context deactivation attempts in a specified RAI.	Sum	hustrafbh, Sum
_2G_GGSN_init_PDP_deact_fail	hua_specific_ra_sm_2g_talb.saan6qv3xa2airvh002ind6wbg	INTEGER	#	Number of failed GGSN-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh, Sum
_2G_GGSN_init_PDP_deact_succ	hua_specific_ra_sm_2g_talb.saan6qt3xa2airvh002ind6wbg	INTEGER	#	Number of successful GGSN-initiated PDP context deactivations in a specified RAI	Sum	hustrafbh, Sum
_2G_Max_act_PDP_context	hua_specific_ra_sm_2g_talb.saan6rb3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Maximum number of 2G	Average	Average, hustrafbh, Maximum, Minimum

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				active PDP context		m, Sum
_2G_Mean_act_PDP_context	hua_specific_ra_sm_2g_talb.saan6r63xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Mean number of 2G active PDP context	Average	Average, hustrafbh, Maximum, Minimum, Sum
_2G_MS_init_PDP_context_dact	hua_specific_ra_sm_2g_talb.saan6qf3xa2airvh002ind6wbg	INTEGER	#	Number of MS-initiated PDP context deactivation attempts in a specified RAI.	Sum	hustrafbh, Sum
_2G_MS_init_PDP_deact_fail	hua_specific_ra_sm_2g_talb.saan6qj3xa2airvh002ind6wbg	INTEGER	#	Number of failed MS-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh, Sum
_2G_MS_init_PDP_deact_success	hua_specific_ra_sm_2g_talb.saan6qh3xa2airvh002ind6wbg	INTEGER	#	Number of successful MS-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh, Sum
_2G_MS_init_PDP_sec_act_fail	hua_specific_ra_sm_2g_talb.saan6px3xa2airvh002ind6wbg	INTEGER	#	Number of failed MS-initiated PDP context second activations in a specified RAI.	Sum	hustrafbh, Sum
_2G_MS_init_PDP_sec_act_success	hua_specific_ra_sm_2g_talb.saan6pv3xa2airvh002ind6wbg	INTEGER	#	Number of successful MS-initiated PDP context second activations in a specified RAI.	Sum	hustrafbh, Sum
_2G_MS_init_PDP_sec_cont	hua_specific_ra_sm_2g_talb.saan6pt3xa2airvh002ind	INTEGER	#	Number of MS-initiated PDP	Sum	hustrafbh, Sum

ext_act	6wbg			context second activation attempts in a specified RAI.		
_2G_MS_total_init_PDP_act_succ	hua_specific_ra_sm_2g_talb.saan6q23xa2airvh002ind6wbg	INTEGER	#	Number of successful MS-initiated PDP context activation and second activations in a specified RAI.	Sum	hustrafbh, Sum
_2G_MS_totally_init_PDP_act	hua_specific_ra_sm_2g_talb.saan6q03xa2airvh002ind6wbg	INTEGER	#	Number of MS-initiated PDP context activation and second activation attempts in a specified RAI.	Sum	hustrafbh, Sum
_2G_MS_totally_init_PDP_fail	hua_specific_ra_sm_2g_talb.saan6q43xa2airvh002ind6wbg	INTEGER	#	Number of failed MS-initiated PDP context activation and second activations in a specified RAI.	Sum	hustrafbh, Sum
_2G_NET_init_PDP_act_fail	hua_specific_ra_sm_2g_talb.saan6qd3xa2airvh002ind6wbg	INTEGER	#	Number of failed NET-initiated PDP context activations in a specified RAI.	Sum	hustrafbh, Sum
_2G_NET_init_PDP_act_suc	hua_specific_ra_sm_2g_talb.saan6qb3xa2airvh002ind6wbg	INTEGER	#	Number of successful NET-initiated PDP context	Sum	hustrafbh, Sum

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				activations in a specified RAI.		
_2G_NET_init_PDP_context_act	hua_specific_ra_sm_2g_tab.saan6q63xa2airvh002ind6wbg	INTEGER	#	Number of NET-initiated PDP context activation attempts in a specified RAI.	Sum	hustrafbh, Sum
_2G_NET_init_PDP_context_deact	hua_specific_ra_sm_2g_tab.saan6qx3xa2airvh002ind6wbg	INTEGER	#	Number of NET-initiated PDP context deactivation attempts in a specified RAI.	Sum	hustrafbh, Sum
_2G_NET_init_PDP_dact_success	hua_specific_ra_sm_2g_tab.saan6r03xa2airvh002ind6wbg	INTEGER	#	Number of successful NET-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh, Sum
_2G_NET_init_PDP_deact_fail	hua_specific_ra_sm_2g_tab.saan6r23xa2airvh002ind6wbg	INTEGER	#	Number of failed NET-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh, Sum
_2G_PDP_fail_APN_Restriction	hua_specific_ra_sm_2g_tab.saan6r43xa2airvh002ind6wbg	INTEGER	#	Number of activation failures in a specified RAI ( due to APN Restriction).	Sum	hustrafbh, Sum
_2G_SG_init_PDP_context_deact	hua_specific_ra_sm_2g_tab.saan6ql3xa2airvh002ind6wbg	INTEGER	#	Number of SGSN-initiated PDP context deactivation attempts in a specified RAI.	Sum	hustrafbh, Sum
_2G_SG_init_PDP_context_mod	hua_specific_ra_sm_2g_tab.saan6rd3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0	Sum	hustrafbh, Sum

				10.C01SPC022: Number of 2G SGSN initiated PDP context modification		
_2G_SG_init_ PDP_deact_fai l	hua_specific_ra_sm_2g_ta b.saan6qp3xa2airvh002ind 6wbg	INTEG ER	#	Number of failed SGSN- initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh , Sum
_2G_SG_init_ PDP_deact_su cc	hua_specific_ra_sm_2g_ta b.saan6qn3xa2airvh002ind 6wbg	INTEG ER	#	Number of successful SGSN-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh , Sum
_2G_SG_init_ PDP_mod_suc c	hua_specific_ra_sm_2g_ta b.saan6rf3xa2airvh002ind6 wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of 2G SGSN initiated PDP context modification success	Sum	hustrafbh , Sum
MS_init_PDP_ context_act_su ccess	hua_specific_ra_sm_2g_ta b.yh0y2ctkhobs1rbejnnheh b3mu	INTEG ER	#	Number of successful MS- initiated PDP context activations in a specified RAI.	Sum	hustrafbh , Sum
MS_init_PDP_ context_act	hua_specific_ra_sm_2g_ta b.yh46100ultbhmd06b46h yurrek	INTEG ER	#	Number of MS- initiated PDP context activation attempts in a specified RAI.	Sum	hustrafbh , Sum

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PDP_context_act_fail_missing_APN	hua_specific_ra_sm_2g_tab.trjnfvtwqcbmtxfnuuog5eics	INTEGER	#	Number of activation failures in a specified RAI (due to unknown APN).	Sum	hustrafbh , Sum
PDP_context_act_fail_service_unsubs	hua_specific_ra_sm_2g_tab.ujh1imtblkcd5syxvrojve xadh	INTEGER	#	Number of activation failures in a specified RAI (due to unsubscribed service).	Sum	hustrafbh , Sum
PDP_context_act_fail_service_unsupp	hua_specific_ra_sm_2g_tab.vkoe05y6dmc2csvq2veor kkn dr	INTEGER	#	Number of activation failures in a specified RAI (due to services not supported by the system).	Sum	hustrafbh , Sum
PDP_context_act_fail_unknown_PDP	hua_specific_ra_sm_2g_tab.uqeb4qi0tobmsdlnowof4oabmm	INTEGER	#	Number of activation failures in a specified RAI (due to unknown PDP address or type).	Sum	hustrafbh , Sum
PDP_context_act_fail_user_authentication_fail	hua_specific_ra_sm_2g_tab.x0s5b4he1rbrye6an1tbu2kfi2	INTEGER	#	Number of activation failures in a specified RAI (due to subscriber authentication failure).	Sum	hustrafbh , Sum
PDP_context_act_reject	hua_specific_ra_sm_2g_tab.ybr526al5ubkjsvvqg3jebhdhd	INTEGER	#	Number of activation rejects in a specified RAI.	Sum	hustrafbh , Sum

### 6.30.18Routing\_Area.Huawei.GPRS.Specific\_Routing\_Area\_SM\_3G

Specific Routing Area SM 3G measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_all_MS_init_PDP_act_succ	$100 * \frac{\{3G\_MS\_total\_init\_PDP\_act\_succ\}}{\{3G\_MS\_totally\_init\_PDP\_act\}}$	FLOAT	%	All MS initiated PDP context activation success ratio in specific RAI	Average	hustrafbh
%_all_NET_init_PDP_mod_succ	$100 * \frac{\{3G\_totally\_PDP\_mod\_succ\}}{\{3G\_totally\_PDP\_context\_mod\}}$	FLOAT	%	All Network initiated (SGSN + GGSN + RNC) PDP context modification success ratio in specific RAI	Average	hustrafbh
%_GGSN_init_PDP_mod_succ	$100 * \frac{\{3G\_GGSN\_init\_PDP\_mod\_succ\}}{\{3G\_GGSN\_init\_PDP\_context\_mod\}}$	FLOAT	%	GGSN initiated PDP context modification success ratio in specific RAI	Average	hustrafbh
%_MS_init_PDP_act_succ	$100 * \frac{\{3G\_MS\_init\_PDP\_act\_succ\}}{\{3G\_MS\_init\_PDP\_context\_act\}}$	FLOAT	%	MS initiated PDP context activation success ratio in specific RAI	Average	hustrafbh
%_MS_init_PDP_mod_succ	$100 * \frac{\{3G\_MS\_init\_PDP\_mod\_succ\}}{\{3G\_MS\_init\_PDP\_context\_mod\}}$	FLOAT	%	MS initiated PDP context modification success ratio in specific RAI	Average	hustrafbh
%_MS_init_sec_PDP_act_succ	$100 * \frac{\{3G\_MS\_init\_PDP\_sec\_act\_succ\}}{\{3G\_MS\_init\_PDP\_sec\_context\_act\}}$	FLOAT	%	MS initiated Secondary PDP context activation success ratio in specific RAI	Average	hustrafbh

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$\%_{\_NET\_init\_PDP\_act\_succ}$	$100 * \frac{\{\_3G\_NET\_init\_PDP\_act\_succ\}}{\{\_3G\_NET\_init\_PDP\_context\_act\}}$	FLOAT	%	Network initiated PDP context activation success ratio	Average	hustrafbh
$\%_{\_RNC\_init\_PDP\_mod\_succ}$	$100 * \frac{\{\_3G\_RNC\_init\_PDP\_mod\_succ\}}{\{\_3G\_RNC\_init\_PDP\_context\_mod\}}$	FLOAT	%	RNC initiated PDP context modification success ratio in specific RAI	Average	hustrafbh
$\%_{\_SGSN\_init\_PDP\_mod\_succ}$	$100 * \frac{\{\_3G\_SG\_init\_PDP\_mod\_succ\}}{\{\_3G\_SG\_init\_PDP\_context\_mod\}}$	FLOAT	%	SGSN initiated PDP context modification success ratio in specific RAI	Average	hustrafbh
$\_3G\_GGSN\_init\_PDP\_context\_mod$	hua_specific_ra_sm_3g_t ab.saan6uh3xa2airvh002i nd6wbg	INTEGER	#	Number of GGSN-initiated PDP context modifications attempts in a specified RAI.	Sum	hustrafbh
$\_3G\_GGSN\_init\_PDP\_deact\_fail$	hua_specific_ra_sm_3g_t ab.saan6vd3xa2airvh002i nd6wbg	INTEGER	#	Number of failed GGSN-initiated PDP context deactivations in a specified RAI	Sum	hustrafbh
$\_3G\_GGSN\_init\_PDP\_deact\_succ$	hua_specific_ra_sm_3g_t ab.saan6vb3xa2airvh002i nd6wbg	INTEGER	#	Number of successful GGSN-initiated PDP context deactivations in a specified RAI	Sum	hustrafbh
$\_3G\_GGSN\_init\_PDP\_deact$	hua_specific_ra_sm_3g_t ab.saan6v63xa2airvh002i nd6wbg	INTEGER	#	Number of GGSN-initiated PDP context deactivation attempts in a specified RAI.	Sum	hustrafbh
$\_3G\_GGSN\_init\_PDP\_mod\_f$	hua_specific_ra_sm_3g_t ab.saan6ul3xa2airvh002in	INTEGER	#	Number of failed GGSN-	Sum	hustrafbh

ail	d6wbg			initiated PDP context modifications in a specified RAI		
_3G_GGSN_init_PDP_mod_succ	hua_specific_ra_sm_3g_t ab.saan6uj3xa2airvh002in d6wbg	INTEGER	#	Number of successful GGSN-initiated PDP context modifications in a specified RAI.	Sum	hustrafbh
_3G_max_act_PDP_context	hua_specific_ra_sm_3g_t ab.saan6vt3xa2airvh002in d6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:3G Max act PDP context	Average	hustrafbh , Maximum, Sum, Minimum
_3G_mean_act_PDP_context	hua_specific_ra_sm_3g_t ab.saan6vr3xa2airvh002in d6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:3G Mean act PDP context	Average	hustrafbh , Sum, Minimum, Maximum
_3G_MS_init_PDP_act_fail	hua_specific_ra_sm_3g_t ab.saan6tb3xa2airvh002in d6wbg	INTEGER	#	Number of failed MS-initiated PDP context activations in a specified RAI.	Sum	hustrafbh
_3G_MS_init_PDP_act_succ	hua_specific_ra_sm_3g_t ab.saan6t63xa2airvh002in d6wbg	INTEGER	#	Number of successful MS-initiated PDP context activations in a specified RAI	Sum	hustrafbh
_3G_MS_init_PDP_context_act	hua_specific_ra_sm_3g_t ab.saan6t43xa2airvh002in d6wbg	INTEGER	#	Number of MS-initiated PDP context activation	Sum	hustrafbh

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				attempts in a specified RAI		
_3G_MS_init_PDP_context_mod	hua_specific_ra_sm_3g_t ab.saan6tv3xa2airvh002in d6wbg	INTEGER	#	Number of MS-initiated PDP context modifications attempts in a specified RAI	Sum	hustrafbh
_3G_MS_init_PDP_deact_fail	hua_specific_ra_sm_3g_t ab.saan6ux3xa2airvh002i nd6wbg	INTEGER	#	Number of failed MS-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh
_3G_MS_init_PDP_deact_suc c	hua_specific_ra_sm_3g_t ab.saan6uv3xa2airvh002i nd6wbg	INTEGER	#	Number of successful MS-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh
_3G_MS_init_PDP_deact	hua_specific_ra_sm_3g_t ab.saan6ut3xa2airvh002in d6wbg	INTEGER	#	Number of MS-initiated PDP context deactivation attempts in a specified RAI	Sum	hustrafbh
_3G_MS_init_PDP_mod_fail	hua_specific_ra_sm_3g_t ab.saan6u03xa2airvh002i nd6wbg	INTEGER	#	Number of failed MS-initiated PDP context modifications in a specified RAI.	Sum	hustrafbh
_3G_MS_init_PDP_mod_suc c	hua_specific_ra_sm_3g_t ab.saan6tx3xa2airvh002in d6wbg	INTEGER	#	Number of successful MS-initiated PDP context modifications in a specified RAI.	Sum	hustrafbh
_3G_MS_init_PDP_sec_act_f ail	hua_specific_ra_sm_3g_t ab.saan6th3xa2airvh002in d6wbg	INTEGER	#	Number of failed MS-initiated PDP	Sum	hustrafbh

				context second activations in a specified RAI		
_3G_MS_init_PDP_sec_act_succ	hua_specific_ra_sm_3g_t ab.saan6tf3xa2airvh002in d6wbg	INTEGER	#	Number of successful MS-initiated PDP context second activations in a specified RAI	Sum	hustrafbh
_3G_MS_init_PDP_sec_context_act	hua_specific_ra_sm_3g_t ab.saan6td3xa2airvh002in d6wbg	INTEGER	#	Number of MS-initiated PDP context second activation attempts in a specified RAI	Sum	hustrafbh
_3G_MS_total_init_PDP_act_succ	hua_specific_ra_sm_3g_t ab.saan6tl3xa2airvh002in d6wbg	INTEGER	#	Number of successful MS-initiated PDP context activation and second activations in a specified RAI.	Sum	hustrafbh
_3G_MS_totally_init_PDP_act	hua_specific_ra_sm_3g_t ab.saan6tj3xa2airvh002in d6wbg	INTEGER	#	Number of MS-initiated PDP context activation and second activation attempts in a specified RAI	Sum	hustrafbh
_3G_MS_totally_init_PDP_fail	hua_specific_ra_sm_3g_t ab.saan6tn3xa2airvh002in d6wbg	INTEGER	#	Number of failed MS-initiated PDP context activation and second activations in a	Sum	hustrafbh

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				specified RAI.		
_3G_NET_init_PDP_act_fail	hua_specific_ra_sm_3g_t ab.saan6tt3xa2airvh002in d6wbg	INTEGER	#	Number of failed NET-initiated PDP context activations in a specified RAI.	Sum	hustrafbh
_3G_NET_init_PDP_act_succ	hua_specific_ra_sm_3g_t ab.saan6tr3xa2airvh002in d6wbg	INTEGER	#	Number of successful NET-initiated PDP context activations in a specified RAI.	Sum	hustrafbh
_3G_NET_init_PDP_context_act	hua_specific_ra_sm_3g_t ab.saan6tp3xa2airvh002in d6wbg	INTEGER	#	Number of NET-initiated PDP context activation attempts in a specified RAI.	Sum	hustrafbh
_3G_NET_init_PDP_deact_fail	hua_specific_ra_sm_3g_t ab.saan6vj3xa2airvh002in d6wbg	INTEGER	#	Number of failed NET-initiated PDP context deactivations in a specified RAI	Sum	hustrafbh
_3G_NET_init_PDP_deact_succ	hua_specific_ra_sm_3g_t ab.saan6vh3xa2airvh002i nd6wbg	INTEGER	#	Number of successful NET-initiated PDP context deactivations in a specified RAI	Sum	hustrafbh
_3G_NET_init_PDP_deact	hua_specific_ra_sm_3g_t ab.saan6vf3xa2airvh002in d6wbg	INTEGER	#	Number of NET-initiated PDP context deactivation attempts in a specified RAI	Sum	hustrafbh
_3G_RNC_init_PDP_context_mod	hua_specific_ra_sm_3g_t ab.saan6u23xa2airvh002i nd6wbg	INTEGER	#	Number of RNC-initiated PDP context modifications	Sum	hustrafbh

				attempts in a specified RAI.		
_3G_RNC_init_PDP_mod_fail	hua_specific_ra_sm_3g_t ab.saan6u63xa2airvh002i nd6wbg	INTEGER	#	Number of failed RNC-initiated PDP context modifications in a specified RAI.	Sum	hustrafbh
_3G_RNC_init_PDP_mod_success	hua_specific_ra_sm_3g_t ab.saan6u43xa2airvh002i nd6wbg	INTEGER	#	Number of successful RNC-initiated PDP context modifications in a specified RAI	Sum	hustrafbh
_3G_SG_init_PDP_context_mod	hua_specific_ra_sm_3g_t ab.saan6ub3xa2airvh002i nd6wbg	INTEGER	#	Number of SGSN-initiated PDP context modifications attempts in a specified RAI	Sum	hustrafbh
_3G_SG_init_PDP_deact_fail	hua_specific_ra_sm_3g_t ab.saan6v43xa2airvh002i nd6wbg	INTEGER	#	Number of failed SGSN-initiated PDP context deactivations in a specified RAI	Sum	hustrafbh
_3G_SG_init_PDP_deact_success	hua_specific_ra_sm_3g_t ab.saan6v23xa2airvh002i nd6wbg	INTEGER	#	Number of successful SGSN-initiated PDP context deactivations in a specified RAI.	Sum	hustrafbh
_3G_SG_init_PDP_deact	hua_specific_ra_sm_3g_t ab.saan6v03xa2airvh002i nd6wbg	INTEGER	#	Number of SGSN-initiated PDP context deactivation attempts in a specified RAI.	Sum	hustrafbh

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_3G_SG_init_PDP_mod_fail	hua_specific_ra_sm_3g_t ab.saan6uf3xa2airvh002in d6wbg	INTEGER	#	Number of failed SGSN-initiated PDP context modifications in a specified RAI.	Sum	hustrafbh
_3G_SG_init_PDP_mod_success	hua_specific_ra_sm_3g_t ab.saan6ud3xa2airvh002i nd6wbg	INTEGER	#	Number of successful SGSN-initiated PDP context modifications in a specified RAI	Sum	hustrafbh
_3G_total_PDP_context_deact	hua_specific_ra_sm_3g_t ab.saan6vl3xa2airvh002in d6wbg	INTEGER	#	Number of PDP context deactivation attempts in a specified RAI	Sum	hustrafbh
_3G_total_PDP_dact_fail	hua_specific_ra_sm_3g_t ab.saan6vp3xa2airvh002i nd6wbg	INTEGER	#	Number of failed PDP context deactivations in a specified RAI	Sum	hustrafbh
_3G_total_PDP_deact_succ	hua_specific_ra_sm_3g_t ab.saan6vn3xa2airvh002i nd6wbg	INTEGER	#	Number of successful PDP context deactivations in a specified RAI	Sum	hustrafbh
_3G_totally_PDP_context_mod	hua_specific_ra_sm_3g_t ab.saan6un3xa2airvh002i nd6wbg	INTEGER	#	Number of PDP context modifications attempts in a specified RAI.	Sum	hustrafbh
_3G_totally_PDP_mod_fail	hua_specific_ra_sm_3g_t ab.saan6ur3xa2airvh002in d6wbg	INTEGER	#	Number of failed PDP context modifications attempts in a specified RAI.	Sum	hustrafbh
_3G_totally_PDP_mod_success	hua_specific_ra_sm_3g_t ab.saan6up3xa2airvh002i nd6wbg	INTEGER	#	Number of successful PDP context	Sum	hustrafbh

				modifications attempts in a specified RAI		
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### 6.31 SGSN Performance Indicators

- [SGSN.Huawei.GPRS.ADMF\\_Messages\\_for\\_LI\\_User](#)
- [SGSN.Huawei.GPRS.Alarms\\_sent\\_to\\_ADMF](#)
- [SGSN.Huawei.GPRS.BSSAP\\_Basic\\_Traffic](#)
- [SGSN.Huawei.GPRS.BSSAP\\_Signaling\\_Procedure\\_Error\\_and\\_Timeout](#)
- [SGSN.Huawei.GPRS.CAMEL](#)
- [SGSN.Huawei.GPRS.Dropped\\_GTP\\_packet](#)
- [SGSN.Huawei.GPRS.Dropped\\_IP\\_packet](#)
- [SGSN.Huawei.GPRS.Gb\\_mode\\_APN\\_correction](#)
- [SGSN.Huawei.GPRS.Gb\\_mode\\_attach\\_EDGE\\_user](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_Attach](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_Detach](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_Inter\\_SGSN\\_RAU](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_Intra\\_SGSN\\_RAU](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_L3\\_MM](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_Paging](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_PDP\\_Access\\_Reject](#)
- [SGSN.Huawei.GPRS.Gb\\_mode\\_PDP\\_act\\_EDGE\\_user](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_PDP\\_Context\\_Activation](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_PDP\\_Context\\_Deactivation](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_PDP\\_Context\\_Modification](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_Radio\\_Resource](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_Security](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_Service\\_Handover](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_SM\\_L3](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_SM\\_Resource](#)
- [SGSN.Huawei.GPRS.Gb\\_Mode\\_User\\_Access\\_Reject](#)
- [SGSN.Huawei.GPRS.GTP\\_Bearer](#)
- [SGSN.Huawei.GPRS.GTP\\_Message\\_Processing](#)
- [SGSN.Huawei.GPRS.GTP\\_System\\_NTP](#)
- [SGSN.Huawei.GPRS.GTPU\\_Bearer](#)
- [SGSN.Huawei.GPRS.GTPU\\_Data\\_Packets\\_Transfer\\_per\\_QoS](#)
- [SGSN.Huawei.GPRS.GTPU\\_Data\\_Packets\\_Transfer](#)
- [SGSN.Huawei.GPRS.GTPU\\_Gn\\_Interface](#)
- [SGSN.Huawei.GPRS.GTPU\\_Gp\\_Interface](#)
- [SGSN.Huawei.GPRS.GTPU\\_Message\\_Processing](#)

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- [SGSN.Huawei.GPRS.GTPU\\_Unknown\\_Interface](#)
- [SGSN.Huawei.GPRS.Inter\\_System\\_Switch](#)
- [SGSN.Huawei.GPRS.IP\\_NS](#)
- [SGSN.Huawei.GPRS.IPSec](#)
- [SGSN.Huawei.GPRS.Iu\\_mode\\_APN\\_correction](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Attach](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Detach](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Inter\\_SGSN\\_RAU](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Intra\\_SGSN\\_RAU](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_L3\\_MM](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Paging](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_PDP\\_Access\\_Reject](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_PDP\\_Context\\_Activation](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_PDP\\_Context\\_Deactivation](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_PDP\\_Context\\_Modification](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_PDP\\_Context\\_Reserve](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_RAB](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Radio\\_Resource](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Security](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Service\\_Handover](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_Service\\_Request](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_SM\\_L3](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_SM\\_Resource](#)
- [SGSN.Huawei.GPRS.Iu\\_mode\\_tunnel\\_SM](#)
- [SGSN.Huawei.GPRS.Iu\\_Mode\\_User\\_Access\\_Reject](#)
- [SGSN.Huawei.GPRS.LCS](#)
- [SGSN.Huawei.GPRS.LI\\_Messages\\_Sent](#)
- [SGSN.Huawei.GPRS.MAP\\_Basic\\_Traffic](#)
- [SGSN.Huawei.GPRS.MAP\\_Common\\_Traffic\\_Procedure\\_Error](#)
- [SGSN.Huawei.GPRS.MAP\\_Gc\\_Message\\_Transfer\\_Traffic](#)
- [SGSN.Huawei.GPRS.MAP\\_Signaling\\_Procedure\\_Error\\_and\\_Timeout](#)
- [SGSN.Huawei.GPRS.MBMS\\_Broadcast\\_Bearer\\_Resource](#)
- [SGSN.Huawei.GPRS.MBMS\\_Broadcast\\_Session\\_Start](#)
- [SGSN.Huawei.GPRS.MBMS\\_Broadcast\\_Session\\_Stop](#)
- [SGSN.Huawei.GPRS.MTP\\_Signalling\\_Link](#)
- [SGSN.Huawei.GPRS.PDP\\_context\\_deactivation\\_in\\_Gb\\_Mode](#)
- [SGSN.Huawei.GPRS.PDP\\_context\\_deactivation\\_in\\_Iu\\_Mode](#)
- [SGSN.Huawei.GPRS.RANAP](#)
- [SGSN.Huawei.GPRS.SCCP\\_Availability](#)
- [SGSN.Huawei.GPRS.SCCP\\_Performance](#)
- [SGSN.Huawei.GPRS.SCCP\\_Utilization](#)
- [SGSN.Huawei.GPRS.SGSN\\_BSSGP](#)
- [SGSN.Huawei.GPRS.SGSN\\_CDR](#)
- [SGSN.Huawei.GPRS.SGSN\\_Compression\\_Card](#)
- [SGSN.Huawei.GPRS.SGSN\\_DNS\\_Request](#)
- [SGSN.Huawei.GPRS.SGSN\\_Encryption](#)

- [SGSN.Huawei.GPRS.SGSN\\_FR](#)
- [SGSN.Huawei.GPRS.SGSN\\_Gb\\_Resource](#)
- [SGSN.Huawei.GPRS.SGSN\\_LLC](#)
- [SGSN.Huawei.GPRS.SGSN\\_NS](#)
- [SGSN.Huawei.GPRS.SGSN\\_Relocation](#)
- [SGSN.Huawei.GPRS.SGSN\\_SNDGP](#)
- [SGSN.Huawei.GPRS.SMS\\_in\\_Gb](#)
- [SGSN.Huawei.GPRS.SMS\\_in\\_Iu](#)
- [SGSN.Huawei.GPRS.SMS](#)
- [SGSN.Huawei.GPRS.Supplementary\\_Service](#)
- [SGSN.Huawei.GPRS.TCAP\\_Component\\_Utilization](#)
- [SGSN.Huawei.GPRS.TCAP\\_CSL](#)
- [SGSN.Huawei.GPRS.TCAP\\_Message](#)
- [SGSN.Huawei.GPRS.TCAP\\_TSL](#)
- [SGSN.Huawei.GPRS.UE\\_Transfer\\_Bandwidth](#)
- [SGSN.Huawei.GPRS.UGFU\\_NS\\_Transferred\\_IP\\_Packet](#)

### 6.31.1 SGSN.Huawei.GPRS.ADMF\_Messages\_for\_LI\_User

ADMF Messages for LI User measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Batch_operation_deact_LI_users	hua_admf_mess_li_user_talb.yb0wtnw1tcbmbr3f041rvti6hw	INTEGER	#	Obsolete from R007. Number of batch operation of deactivating LI users	Sum	hustrafbh, Sum
Msg_to_activate_LI_user	hua_admf_mess_li_user_talb.tgn30h4fb3bjec0w6a2nj2jhdy	INTEGER	#	Obsolete from R007. Number of messages to activate LI user	Sum	hustrafbh, Sum
Msg_to_deactivate_LI_user	hua_admf_mess_li_user_talb.w2vbvmxijbbrfu56xmomiegsa	INTEGER	#	Obsolete from R007. Number of messages to deactivate LI user	Sum	hustrafbh, Sum

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Msg_to_modify_LI_user_information	hua_admf_mess_li_user_tab.tpxo2g4adlbr5syph0xqi06vi	INTEGER	#	Obsolete from R007. Number of messages to modify LI user information	Sum	hustrafbh, Sum
Msg_to_query_LI_user_information	hua_admf_mess_li_user_tab.xmhdocrndebdf4cthvj5wnere	INTEGER	#	Obsolete from R007. Number of messages to query LI user information	Sum	hustrafbh, Sum

### 6.31.2 SGSN.Huawei.GPRS.Alarms\_sent\_to\_ADMF

Alarms sent to ADMF measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
IDP_buffer_overflow_alarm_cleared	hua_alarms_sent_to_admf_tab.xh12huy6skc2pe3dilb2rxh5kr	INTEGER	#	Obsolete from R007. Number of IDP buffer overflow alarm is cleared	Sum	hustrafbh, Sum
IDP_buffer_overflow_alarms	hua_alarms_sent_to_admf_tab.rcabfhyy5pbhmtsrsg64sspgdm	INTEGER	#	Obsolete from R007. Number of IDP buffer overflow alarms	Sum	hustrafbh, Sum
IDP_connection_fault_alarm_cleared	hua_alarms_sent_to_admf_tab.ydnogf6hyobm3diwvq63yosq0h	INTEGER	#	Obsolete from R007. Number of IDP connection fault alarm is cleared	Sum	hustrafbh, Sum
IDP_connection_fault_alarms	hua_alarms_sent_to_admf_tab.wivicwdvkibfsr2qwkpnafm1ny	INTEGER	#	Obsolete from R007. Number of IDP connection fault alarms	Sum	hustrafbh, Sum
IDP_pkt_discard_alarm_cleared	hua_alarms_sent_to_admf_tab.x6oul0a1xhcs3rbtc4w6wgluid	INTEGER	#	Obsolete from R007. Number of IDP packet	Sum	hustrafbh, Sum

				discard alarm is cleared		
IDP_pkt_discard_alarms	hua_alarms_sent_to_admf_tab.x0mkt2vmyycxrknu phxhatp5n	INTEGER	#	Obsolete from R007. Number of IDP packet discard alarms	Sum	hustrafbh , Sum
IDP_resp_time_length_alarm_cleared	hua_alarms_sent_to_admf_tab.tvl36dwavqbfbsqcag 00rduuk	INTEGER	#	Obsolete from R007. Number of IDP response time overlength alarm is cleared	Sum	hustrafbh , Sum
IDP_resp_time_length_alarms	hua_alarms_sent_to_admf_tab.y6lj01atywb0qepuxw vaksjju1	INTEGER	#	Obsolete from R007. Number of IDP response time overlength alarms	Sum	hustrafbh , Sum
IRI_buffer_overflow_alarm_cleared	hua_alarms_sent_to_admf_tab.tmmburim0mcalc6gu uhvx4gpp2	INTEGER	#	Obsolete from R007. Number of IRI buffer overflow alarm is cleared	Sum	hustrafbh , Sum
IRI_buffer_overflow_alarms	hua_alarms_sent_to_admf_tab.y1cd1oo2tnc40tc1yw nby50gud	INTEGER	#	Obsolete from R007. Number of IRI buffer overflow alarms	Sum	hustrafbh , Sum
IRI_connection_fault_alarm_cleared	hua_alarms_sent_to_admf_tab.rmfkp12dtbu0sop6txd ove6f5	INTEGER	#	Obsolete from R007. Number of IRI connection fault alarm is cleared	Sum	hustrafbh , Sum
IRI_connection_fault_alarms	hua_alarms_sent_to_admf_tab.sb51nv0y4bck1ejc1lv 3bgamuj	INTEGER	#	Obsolete from R007. Number of IRI	Sum	hustrafbh , Sum

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				connection fault alarms		
IRI_pkt_discard_alarm_cleared	hua_alarms_sent_to_admf_tab.ujq5n1hssqbmisvca32nyqeipu	INTEGER	#	Obsolete from R007. Number of IRI packet discard alarm is cleared	Sum	hustrafbh , Sum
IRI_pkt_discard_alarms	hua_alarms_sent_to_admf_tab.wtj36obasmcf5r330nakmft1r0	INTEGER	#	Obsolete from R007. Number of IRI packet discard alarms	Sum	hustrafbh , Sum
IRI_resp_time_length_alarm_cleared	hua_alarms_sent_to_admf_tab.wffisfwx34cx5te3ohxau13ity	INTEGER	#	Obsolete from R007. Number of IRI response time overlength alarm is cleared	Sum	hustrafbh , Sum
IRI_resp_time_over_length_alarms	hua_alarms_sent_to_admf_tab.t1uvsn6dwobbosp5a4budp0sm0	INTEGER	#	Obsolete from R007. Number of IRI response time overlength alarms	Sum	hustrafbh , Sum

### 6.31.3 SGSN.Huawei.GPRS.BSSAP\_Basic\_Traffic

BSSAP Basic Traffic measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
DL_TOM_message_number_received_from_Gs	hua_bssap_basic_traffic_tab.yc0xicep3ubfycuntjdisk2axd	INTEGER	#	Number of downlink TOM message received from Gs interface.	Sum	hustrafbh , Sum
Explicit_non_GPRS_service_detach_times	hua_bssap_basic_traffic_tab.rhxq5xargrc1beljfy3huhrrkl	INTEGER	#	Definition Number of times notifying VLR to perform service detachment and cancel the association due	Sum	hustrafbh , Sum

				to MS non-GPRS service detachment.		
Explicit_GPRS_service_detach_times	hua_bssap_basic_traffic_tab.sxl655t4ihbxxu1wy35xasqk3j	INTEGER	#	Number of times notifying VLR to cancel the association due to MS GPRS service detachment.	Sum	hustrafbh, Sum
Non_GPRS_location_update	hua_bssap_basic_traffic_tab.sseqeoox6ob5wubm0c060jrjl5	INTEGER	#	Number of times SGSN initiates the non-GPRS location update to VLR.	Sum	hustrafbh, Sum
Refuse_CS_paging	hua_bssap_basic_traffic_tab.wbmdfcs4dq3rcsakcug544ukr	INTEGER	#	Number of paging rejects when VLR initiates the circuit paging for the user is at the un-associated status.	Sum	hustrafbh, Sum
Refuse_non_GPRS_location_update	hua_bssap_basic_traffic_tab.udeduac2owc62br0dn1to2qsig	INTEGER	#	Number of times SGSN fails in initiating the non-GPRS location update to VLR.	Sum	hustrafbh, Sum
Request_CS_paging	hua_bssap_basic_traffic_tab.w60um46sp0cvrrhdycmon4v4y	INTEGER	#	Number of requests for circuit paging initiated by VLR.	Sum	hustrafbh, Sum
SGSN_rec_Location_update_accept_message	hua_bssap_basic_traffic_tab.yu5dxkn6mabxfcaioo6vn6kc43	INTEGER	#	Number of "LA UPDATE ACCEPT"	Sum	hustrafbh, Sum

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				message received by SGSN		
SGSN_rec_non_GPRS_ind_request	hua_bssap_basic_traffic_table.y6fovhwueuccds1160lloy56ab	INTEGER	#	Number of "Alert Request" message received by SGSN	Sum	hustrafbh , Sum
SGSN_receive_GPRS_detach_response	hua_bssap_basic_traffic_table.tg4h2dmnnwbuxb0h1hns6rbu6d	INTEGER	#	Number of "GPRS Detach Response" message received by SGSN	Sum	hustrafbh , Sum
SGSN_receive_IMSI_detach_response	hua_bssap_basic_traffic_table.st0vni2bxpc41t6m15pdcl0uws	INTEGER	#	Number of "IMSI Detach Response" message received by SGSN	Sum	hustrafbh , Sum
SGSN_receive_MM_message_request	hua_bssap_basic_traffic_table.swvicikb6jcmmsnchpanjjadqg	INTEGER	#	Number of "MM Information" message received by SGSN	Sum	hustrafbh , Sum
SGSN_receive_MS_message_request	hua_bssap_basic_traffic_table.y2h4yl4ajeb11tdjninrgu3bae	INTEGER	#	Number of "MS Information Request" message received by SGSN	Sum	hustrafbh , Sum
SGSN_receive_reset_indication	hua_bssap_basic_traffic_table.vmcfbfgxbyfbk3r5hwn dm5gfwv5	INTEGER	#	Number of "VLR reset indication" message received by SGSN	Sum	hustrafbh , Sum
SGSN_receive_reset_response	hua_bssap_basic_traffic_table.xq01me2kpm bn3tgvymp5qedgj	INTEGER	#	Number of "SGSN reset response" message	Sum	hustrafbh , Sum

				received by SGSN		
SGSN_send_MS_activity_related_notice	hua_bssap_basic_traffic_talb.r141hy46gpcb4ek63ws05sjs1m	INTEGER	#	Number of "MS Activity Indication" message sent from SGSN	Sum	hustrafbh, Sum
SGSN_send_MS_INFORMATION_RESPONSE_success	hua_bssap_basic_traffic_talb.vakblw0046cwptee4rfvkc115	INTEGER	#	Number of MS-INFORMATION-RESPONSE message sent by SGSN.	Sum	hustrafbh, Sum
SGSN_send_no_n_GPRS_ind_request_rej	hua_bssap_basic_traffic_talb.vo6v3t4t0jcund41f4x4nr0w3k	INTEGER	#	Number of "Alert Reject" message sent from SGSN	Sum	hustrafbh, Sum
SGSN_send_no_n_GPRS_ind_request_resp	hua_bssap_basic_traffic_talb.typeql11d2xbdsb1y1jw3y141bct	INTEGER	#	Number of "Alert Response" message sent from SGSN	Sum	hustrafbh, Sum
SGSN_send_reset_indication	hua_bssap_basic_traffic_talb.vu6mq15fgwbusrw3gb1oqsyt25	INTEGER	#	Number of "SGSN reset indication" message sent from SGSN	Sum	hustrafbh, Sum
SGSN_send_reset_response	hua_bssap_basic_traffic_talb.syhvpqw0lmbimtnv2ny5wfwqdv	INTEGER	#	Number of "VLR reset response" message sent from SGSN	Sum	hustrafbh, Sum
SGSN_send_TMSI_REALLOCATION_COMPLETE_success	hua_bssap_basic_traffic_talb.v1kfik6saibrfewogufqhrhp0o	INTEGER	#	Number of TMSI-REALLOCATION-COMplete message sent by	Sum	hustrafbh, Sum

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				SGSN.		
Times_of_detach_from_non_GPRS_service	hua_bssap_basic_traffic_talb.rs4h14t1hqccceupibfxqdjlv	INTEGER	#	Number of times notifying VLR to perform service detachment and cancel association when SGSN deletes the GMM context of the user or it is marked as DETACHED.	Sum	hustrafbh, Sum
UL_TOM_message_number_sent_from_Gs	hua_bssap_basic_traffic_talb.voqmnlw0lfcldgrhlavsgxbm4qy	INTEGER	#	Number of uplink TOM message to Gs interface sent from SGSN.	Sum	hustrafbh, Sum
User_unreachable_for_CS_paging	hua_bssap_basic_traffic_talb.snnee2rbwplrr3p0owqcwsxhl	INTEGER	#	Number of failed circuit pagings initiated by VLR (for the user is unreachable).	Sum	hustrafbh, Sum

#### 6.31.4 SGSN.Huawei.GPRS.BSSAP\_Signaling\_Procedure\_Error\_and\_Timeout

BSSAP Signaling Procedure Error and Timeout measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Gs_Cause_Ciphering_failed_number	hua_bssap_err_timeout_talb.rlfptfaoec4vsgit3taux6gu0	INTEGER	#	Number of Gs Cause Ciphering failed.	Sum	hustrafbh, Sum
IMSI_unknown_errors	hua_bssap_err_timeout_talb.t53mdntjxacgcd3nmbqsiw45y6	INTEGER	#	Number of BSSAP+ messages of times IMSI unknown errors	Sum	hustrafbh, Sum

				occur.		
Inconsistent_association_status_error_times	hua_bssap_err_timeout_tab.reu6qigckmbhkbjt4jqdenapqg	INTEGER	#	Number of BSSAP+ messages of times the error of association status inconsistency occurs.	Sum	hustrafbh, Sum
MSC_VLR_receiving_error_message	hua_bssap_err_timeout_tab.wr6ow4mlnctruolhwce5vep6q	INTEGER	#	Number of error BSSAP+ messages sent from this SGSN to the associated VLR.	Sum	hustrafbh, Sum
MSC_VLR_response_timeout_times	hua_bssap_err_timeout_tab.y5wmgiosw2c33ugxr4mxeqx1yl	INTEGER	#	Number of times SGSN does not receive the MSC/VLR response within the specified time.	Sum	hustrafbh, Sum
Number_of_TOM_functional_SGSN_not_supported	hua_bssap_err_timeout_tab.xki1j0xdrmbotrk4xesnifwogt	INTEGER	#	Number of TOM functionality not supported by SGSN.	Sum	hustrafbh, Sum
Rec_fail_notice_message_by_SCCP	hua_bssap_err_timeout_tab.xhy4la0ppib4kts5k02glgmorm	INTEGER	#	Number of failures of SCCP in sending the BSSAP+ message.	Sum	hustrafbh, Sum
SGSN_receiving_error_message	hua_bssap_err_timeout_tab.rfjqvon35ubhgr4t0mwqhbmpwi	INTEGER	#	Number of BSSAP+ messages	Sum	hustrafbh, Sum

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				received from VLR that do not comply with the protocol.		
Timeout_for_BSSAP_LU_req_msg	hua_bssap_err_timeout_tab.saan6ot3xa2airvh002ind6wbg	INTEGER	#	The number of times SGSN does not receive the MSC/VLR response within the specified time when it has sent location update request message.	Sum	hustrafbh, Sum
Timeout_Gprs_IMSI_Detach	hua_bssap_err_timeout_tab.saan6ov3xa2airvh002ind6wbg	INTEGER	#	The number of times SGSN does not receive the MSC/VLR response within the specified time when it has sent GPRS detach or IMSI detach message.	Sum	hustrafbh, Sum

### 6.31.5 SGSN.Huawei.GPRS.CAMEL

CAMEL measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
ActivityTestGPRS_oper_rec	hua_camel_tab.xah6enfjrubh6epele1nxukwej	INTEGER	#	Number of ActivityTestGPRS operations received by SGSN.	Sum	hustrafbh, Sum
ApplyChargingGPRS_oper_rec	hua_camel_tab.y5btj3gm4cg0dfuvm5uq23	INTEGER	#	Number of ApplyChargingGPRS	Sum	hustrafbh,

	wgo			operations received by SGSN.		Sum
ApplyChargingReport GPRS_oper_sent	hua_camel_tab.uyekw d33tvcburpme1nmte2 bri	INTE GER	#	Number of ApplyChargingRepor tGPRS operations transmitted by SGSN.	Sum	hustraf bh, Sum
Average_duration_of per_TCAP_dialogues	hua_camel_tab.vpkaaj 54rgcpoeaqv5ytsgsu1 2	INTE GER	seco nds	The arithmetic mean of the time for TCAP dialogues.	Avera ge	Averag e, hustraf bh, Maxim um, Minimu m, Sum
Avg_CAMEL_PDP_o f_scenario1	hua_camel_tab.xog5k crdxtbvkc0ff3ngcb ski w	INTE GER	#	The mean number of CAMEL PDP contexts in scenario 1	Avera ge	Averag e, hustraf bh, Maxim um, Minimu m, Sum
Avg_CAMEL_PDP_o f_scenario2	hua_camel_tab.u6uy0 vu6xbcgshq5gdcioex pf	INTE GER	#	The mean number of CAMEL PDP contexts in scenario 2	Avera ge	Averag e, hustraf bh, Maxim um, Minimu m, Sum
Avg_CAMEL_PDP	hua_camel_tab.rpacyb y1h5b3broic2bov4d2y m	INTE GER	#	The mean number of CAMEL PDP contexts in scenarios 1 and 2	Avera ge	Averag e, hustraf bh, Maxim um, Minimu

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						m, Sum
Avg_CAMEL_users_of_scenario1	hua_camel_tab.smxbu0idrkcervu0ftwa1h2hsg6	INTEGER	#	The mean number of CAMEL subscribers in scenario 1	Average	Average, hustraf bh, Maximum, Minimum, Sum
Avg_CAMEL_users_of_scenario2	hua_camel_tab.resvrc5chac0iryci3vywhla11	INTEGER	#	The mean number of CAMEL subscribers in scenario 2	Average	Average, hustraf bh, Maximum, Minimum, Sum
Avg_prepaid_users	hua_camel_tab.sspxiatiugb5tuam0f1sj0fx0j	INTEGER	#	The mean number of CAMEL subscribers in scenarios 1 and 2	Average	Average, hustraf bh, Maximum, Minimum, Sum
CancelGPRS_oper_rec	hua_camel_tab.ua0hjevqencbsnvl1yblh6xghr	INTEGER	#	Number of CancelGPRS operations received by SGSN.	Sum	hustraf bh, Sum
Communication_fail	hua_camel_tab.ys3vpu4uetbbndrxr2kl1k2knk	INTEGER	#	Number of unsuccessful TCAP dialogues between SGSN and SCP.	Sum	hustraf bh, Sum
Component_rec	hua_camel_tab.yij6uba6awbklcdk14vfifhk1s	INTEGER	#	Total number of elements received by SGSN.	Sum	hustraf bh, Sum
Component_sent	hua_camel_tab.wf2pucx0yrbruuunglqct1mlvf	INTEGER	#	Total number of elements transmitted by SGSN.	Sum	hustraf bh, Sum
ConnectGPRS_oper_rec	hua_camel_tab.tdnjyhi1nlcnwdgre4rr4cha5c	INTEGER	#	Number of connectGPRS	Sum	hustraf bh,

				operations received by SGSN.		Sum
ConnectSMS_oper_rec	hua_camel_tab.wy2xh3ip6nbapeb2h3jpqamkq3	INTEGER	#	Number of ConnectSMS operations received by SGSN.	Sum	hustrafbh, Sum
ContinueGPRS_oper_rec	hua_camel_tab.vssjjxt5p6bjulywmtwvokffg	INTEGER	#	Number of continueGPRS operations received by SGSN.	Sum	hustrafbh, Sum
ContinueSMS_oper_rec	hua_camel_tab.yov1ocqhwob0md5f1rc6mgb35e	INTEGER	#	Number of ContinueSMS operations received by SGSN.	Sum	hustrafbh, Sum
EntityReleasedGPRS_oper_sent	hua_camel_tab.ubdqgbvpibbdirhwmqw6l6iuhu	INTEGER	#	Number of EntityReleasedGPRS operations transmitted by SGSN.	Sum	hustrafbh, Sum
EventReportGPRS_operations_sent	hua_camel_tab.r6kf0xguhrbspuyn5fbkvgtn	INTEGER	#	Number of EventReportGPRS operations transmitted by SGSN.	Sum	hustrafbh, Sum
EventReportSMS_oper_sent	hua_camel_tab.rj1yv3ncoxbcvcplonvhvisrbw	INTEGER	#	Number of EventReportSMS operations transmitted by SGSN.	Sum	hustrafbh, Sum
FurnishChargingInformationGPRS_rec	hua_camel_tab.sn24tdi2nlbolbthrscejm5frv	INTEGER	#	Number of FurnishChargingInformationGPRS operations received by SGSN.	Sum	hustrafbh, Sum
FurnishChargingInformationSMS_rec	hua_camel_tab.siegcxdnv3c6ndhkd4udv4jo	INTEGER	#	Number of FurnishChargingInfo	Sum	hustrafbh,

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	2e			rmationSMS operations received by SGSN.		Sum
InitialDPGPRS_oper_ sent	hua_camel_tab.y6wh12ekxhctfcttvd1pv03ebh	INTE GER	#	Number of InitialDPGPRS operations transmitted by SGSN.	Sum	hustraf bh, Sum
InitialDPSMS_oper_s ent	hua_camel_tab.tn0o13birob0odej01m1m1q6f2	INTE GER	#	Number of InitialDPSMS operations transmitted by SGSN.	Sum	hustraf bh, Sum
Invalid_operations_re c	hua_camel_tab.sbidojgww2clvujyrusfls3voc	INTE GER	#	Number of invalid operations received from SCP.	Sum	hustraf bh, Sum
ReleaseGPRS_oper_r ec	hua_camel_tab.yu1n5qgnxyc65ukn0xt1cb0pn2	INTE GER	#	Number of ReleaseGPRS operations received by SGSN.	Sum	hustraf bh, Sum
ReleaseSMS_oper_re c	hua_camel_tab.snx2lcdf4jcuutp04j0ac1bclf	INTE GER	#	Number of ReleaseSMS operations received by SGSN.	Sum	hustraf bh, Sum
RequestReportGPRSE vent_oper_rec	hua_camel_tab.uthm3s6fhtc62rm0nl ds2u6rjs	INTE GER	#	Number of RequestReportGPRS Event operations received by SGSN.	Sum	hustraf bh, Sum
RequestReportSMSEv ent_rec	hua_camel_tab.ubgv4e6wddcs2rr4sv3onvujno	INTE GER	#	Number of RequestReportSMSE vent operations received by SGSN.	Sum	hustraf bh, Sum
ResetTimerGPRS_op er_rec	hua_camel_tab.uqt1dnkxnlb06cudmaujg0fj3p	INTE GER	#	Number of ResetTimerGPRS operations received by SGSN.	Sum	hustraf bh, Sum
ResetTimerSMS_oper ations_rec	hua_camel_tab.wyu3kd3u2ebqdrugo3glqturq	INTE GER	#	Number of ResetTimerSMS operations received by SGSN.	Sum	hustraf bh, Sum

SendChargingInformationGPRS_rec	hua_camel_tab.skf6su2nl2c36ehx6w4cy1s5gk	INTEGER	#	Number of SendChargingInformationGPRS operations received by SGSN.	Sum	hustrafbh, Sum
SGSN_init_TC_Aborts	hua_camel_tab.wnleeknbr3b22d45hcaseni43o	INTEGER	#	Number of times the TCAP dialogue released by SGSN due to exception.	Sum	hustrafbh, Sum
SGSN_init_TCAP_dialogues	hua_camel_tab.xlaciju1bdfucj065ddlmokj6	INTEGER	#	Number of TCAP dialogues originated by SGSN.	Sum	hustrafbh, Sum
SGSN_rec_TC_Aborts	hua_camel_tab.w4vrubybncvbtwtvj45smv1k6ol	INTEGER	#	Number of times the TCAP dialogue released by SCP or low layer due to exception released.	Sum	hustrafbh, Sum
SGSN_rec_TC_NOTICES	hua_camel_tab.unk0ujpcufbekun6e31hs5wjyi	INTEGER	#	Number of low level encounters errors.	Sum	hustrafbh, Sum
SGSN_rec_TCAP_dialogues	hua_camel_tab.xicqypynkvb1tds1bbmljagflv	INTEGER	#	Number of TCAP dialogues received by SGSN.	Sum	hustrafbh, Sum
TC_Cancels_rec	hua_camel_tab.vkihd02f14btiecgmptrkrwmii	INTEGER	#	Number of TC_Cancel messages received by SGSN.	Sum	hustrafbh, Sum
TC_Errors_rec	hua_camel_tab.xco5bsaulbd4u1adaycnhjpk	INTEGER	#	Number of TC_Error messages received by SGSN.	Sum	hustrafbh, Sum
TC_Errors_sent	hua_camel_tab.twjwyguvhtbhycld6yvfrq3s1w	INTEGER	#	Number of TC_Error messages transmitted by SGSN.	Sum	hustrafbh, Sum
TC_Guard_timer_expires	hua_camel_tab.tekgmfeljlcfgblnksbvtcrs5q	INTEGER	#	The times of the TC guard timer expires.	Sum	hustrafbh, Sum

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TC_Invokes_rec	hua_camel_tab.txwodr 1ljwclos4xt4m0ny3xr w	INTE GER	#	Number of TC_Invoke messages received by SGSN.	Sum	hustraf bh, Sum
TC_Invokes_sent	hua_camel_tab.umo1q 1ptvscxcudpseqgvfeg1 f	INTE GER	#	Number of TC_Invoke messages transmitted by SGSN.	Sum	hustraf bh, Sum
TC_Rejects_rec	hua_camel_tab.v0pm1 ophjrcm2s5my3knvup 5bh	INTE GER	#	Number of TC_Reject messages received by SGSN.	Sum	hustraf bh, Sum
TC_Rejects_sent	hua_camel_tab.uaha3e chfbc4brag0cpbjek3w y	INTE GER	#	Number of TC_Reject messages transmitted by SGSN.	Sum	hustraf bh, Sum
TC_Results_rec	hua_camel_tab.xohqe oux0ycqyuxd2rpg5t3x q6	INTE GER	#	Number of TC_Result messages received by SGSN.	Sum	hustraf bh, Sum
TC_Results_sent	hua_camel_tab.ysi1fp eao3bxarbsve2jxh0f1n	INTE GER	#	Number of TC_Result messages transmitted by SGSN.	Sum	hustraf bh, Sum
TCAP_total_dialogue s	hua_camel_tab.whh2c rr6bhclcdp42diwhqra3 q	INTE GER	#	Number of TCAP dialogues handled by SGSN.	Sum	hustraf bh, Sum
Total_duration_of_TC AP_dialogues	hua_camel_tab.vcxetk 65gxcx2dgha2vbosejo 2	INTE GER	seco nds	The time for all TCAP dialogues.	Sum	hustraf bh, Sum
Total_operations_rec	hua_camel_tab.tc3low ip3qc6jcwkpri3iqh0tt	INTE GER	#	Number of operations received by SGSN.	Sum	hustraf bh, Sum
Total_operations_sent	hua_camel_tab.ynh0o q0ueccgbdnxxne4qgq 4ee	INTE GER	#	Number of operations transmitted by SGSN.	Sum	hustraf bh, Sum
Tssf_timer_expires	hua_camel_tab.yg4i04 umeybrscx0cyrrppnbus j	INTE GER	#	The times of the Tssf timer expires.	Sum	hustraf bh, Sum

**6.31.6 SGSN.Huawei.GPRS.Dropped\_GTP\_packet**

Abnormal GTP packet measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Dropped_pkts_for_illegal_GTPC	hua_m117440717_tab.saa n6wj3xa2airvh002ind6wb g	INTEGER	Packets	Number of illegal GTPC packets	Sum	hustrafbh
Dropped_pkts_for_illegal_GTPU	hua_m117440717_tab.saa n6wl3xa2airvh002ind6wb g	INTEGER	Packets	Number of illegal GTPU packets	Sum	hustrafbh

**6.31.7 SGSN.Huawei.GPRS.Dropped\_IP\_packet**

Antivirus packet measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Drop_pkt_for_source_IP_check	hua_m117440716_tab.saa n6wh3xa2airvh002ind6wb g	INTEGER	Packets	Number of illegal source ip packets	Sum	hustrafbh
Dropped_pkts_for_virus_rules	hua_m117440716_tab.saa n6wf3xa2airvh002ind6wb g	INTEGER	Packets	Number of virus packets	Sum	hustrafbh

**6.31.8 SGSN.Huawei.GPRS.Gb\_mode\_APN\_correction**

APN correction measurement in Gb mode.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
_2G_APN_replace_to_default_APN	hua_m117440680_tab.tl63 xxqny42ahc3lr02incnmdw	INTEGER	#	Times of APN replacement to default APN in 2G procedure	Sum	hustrafbh, Sum

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_2G_APN_replacement_to_subscribed_APN	hua_m117440680_tab.tl63xxony42ahc3lr02incnmdw	INTEGER	#	Times of APN replacement to subscribed APN in 2G procedure	Sum	hustrafbh , Sum
_2G_MS_act_with_blank_APN	hua_m117440680_tab.tl63xxmny42ahc3lr02incnmdw	INTEGER	#	Times of blank APN carried in the 2G MS init act request	Sum	hustrafbh , Sum
_2G_MS_act_with_incorrect_APN	hua_m117440680_tab.tl63xxkny42ahc3lr02incnmdw	INTEGER	#	Times of incorrect APN carried in the 2G MS init act request	Sum	hustrafbh , Sum

#### 6.31.9 SGSN.Huawei.GPRS.Gb\_mode\_attach\_EDGE\_user

GPRS attachment procedures of EDGE user.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Gb_mode_GPRS_attach_accept_times_of_EDGE_user	hua_m117440678_tab.tl63xxgny42ahc3lr02incnmdw	INTEGER	#	Number of successful GPRS attachment procedures of EDGE user.	Sum	hustrafbh , Sum
GPRS_Att_acc_EDGE_user	hua_m117440678_tab.saan6rh3xa2airvh002ind6wb g	INTEGER	#	The numbers of successful GPRS attachment procedures of EDGE user.	Sum	hustrafbh , Sum

#### 6.31.10SGSN.Huawei.GPRS.Gb\_Mode\_Attach

Gb Mode Attach measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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%_Attach_accept	$100 * \frac{\{\text{Attach\_accept}\}}{\{\text{Attach\_request}\}}$	FLOAT	%	Percentage of GPRS attachment successes within the SGSN.	Average	Average, hustrafbh
%_Combined_attach_accept	$100 * \frac{\{\text{Combined\_att\_accept}\}}{\{\text{Combined\_att\_request}\}}$	FLOAT	%	Percentage of GPRS/IMSI attachment successes within the SGSN.	Average	Average, hustrafbh
Att_reject_Ge_fail	hua_gb_mode_attach_tab.yb24hwpuvrbvjejjfump6f543i	INTEGER	#	Number of GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh, Sum
Att_reject_GPRS_not_allowed_in_PLMN	hua_gb_mode_attach_tab.xp40ytnreucwgb5iwyuwjsotic	INTEGER	#	Number of GPRS attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh, Sum
Att_reject_GPRS_service_not_allowed	hua_gb_mode_attach_tab.yads3carhlbbhr5vkkemaa5slc	INTEGER	#	Number of GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hustrafbh, Sum
Att_reject_Gr_fail	hua_gb_mode_attach_tab.xsiboq4ewdbpfdtfigy6klocqu	INTEGER	#	Number of GPRS attachment failures within SGSN due to	Sum	hustrafbh, Sum

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				Gr protocol error.		
Att_reject_LA_not_allowed	hua_gb_mode_attach_tab.xku62ayllrcl0sicufw00bahio	INTEGER	#	Number of GPRS attachment failures within SGSN due to LA roaming restriction.	Sum	hustrafbh , Sum
Att_reject_no_suitable_Cells_in_LA	hua_gb_mode_attach_tab.r ef1pchc10blcbh0v43ldyijkf	INTEGER	#	Number of GPRS attachment rejects due to Location Area not allowed.	Sum	hustrafbh , Sum
Att_reject_protocol_error	hua_gb_mode_attach_tab.ubsk4svfyybwrrctylsqtr1rt	INTEGER	#	Number of GPRS attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
Att_reject_roaming_not_allowed	hua_gb_mode_attach_tab.txe0eegkeuccfcqmo5siwol6l0	INTEGER	#	Number of GPRS attachment rejects due to no suitable Cells in LA.	Sum	hustrafbh , Sum
Att_reject_times_illegal_ME	hua_gb_mode_attach_tab.xl6w45baj1b2ye1jjyom00r5df	INTEGER	#	Number of GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh , Sum
Att_reject_times_illegal_MS	hua_gb_mode_attach_tab.xc5kos50myblss45e3ii0kbixv	INTEGER	#	Number of GPRS attachment rejects due to illegal mobile station.	Sum	hustrafbh , Sum
Attach_accept	hua_gb_mode_attach_tab.ub5ajrec0ycf3rxbyyxlplw14	INTEGER	#	Number of GPRS	Sum	hustrafbh , Sum

	2a			attachment successes within the SGSN.		
Attach_request	hua_gb_mode_attach_tab. w5occ0re6lb5muv53a646b 4gqg	INTEGER	#	Number of GPRS attachment requests within the SGSN.	Sum	hustrafbh , Sum
Combined_att_accept	hua_gb_mode_attach_tab.r a4fwco3lvbarcsfhkb0ksrnq y	INTEGER	#	Number of GPRS/IMSI attachment successes within the SGSN.	Sum	hustrafbh , Sum
Combined_att_reject_Ge_fail	hua_gb_mode_attach_tab. uk4iwal1dte4ouixy0nvtrf2 k0	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh , Sum
Combined_att_reject_GPRS_not_allow	hua_gb_mode_attach_tab. vysr3pj16qb62uqa0y16f1v lao	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh , Sum
Combined_att_reject_Gr_fail	hua_gb_mode_attach_tab.r 0lnexc4i1baiuudidyv2pc6r n	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to Gr protocol	Sum	hustrafbh , Sum

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				error.		
Combined_att_reject_illegal_ME	hua_gb_mode_attach_tab.xu3elugr6obamd4bmrky03xuuc	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to illegal ME.	Sum	hustrafbh , Sum
Combined_att_reject_illegal_MS	hua_gb_mode_attach_tab.twxiawpogbvhe0h65khsrgtd5	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to illegal mobile station.	Sum	hustrafbh , Sum
Combined_att_reject_LA_not_allowed	hua_gb_mode_attach_tab.wojlrpdmy4ba2uyynu0n0v5gq3	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to LA roaming restriction.	Sum	hustrafbh , Sum
Combined_att_reject_No_suit_Cells	hua_gb_mode_attach_tab.vtqscrr31accrtdy1sgjc6dsgl	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to Location Area not allowed.	Sum	hustrafbh , Sum
Combined_att_reject_protocol_error	hua_gb_mode_attach_tab.rxnelaihvebqeb25q5vjohrlbd	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
Combined_att_reject_roam_not_allow	hua_gb_mode_attach_tab.v4tg2fybbgb1muu0baxbi0ahmt	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to	Sum	hustrafbh , Sum

				no suitable Cells in LA.		
Combined_att_reject_srvc_not_allow	hua_gb_mode_attach_tab.wxlgghd04hb0ebjui4c1y2uwvo	INTEGER	#	Number of combined GPRS/IMSI attachment failures within SGSN due to GPRS services not allowed.	Sum	hustrafbh, Sum
Combined_att_request	hua_gb_mode_attach_tab.vsxdljjpg1b26e4am3f503qiqj	INTEGER	#	Number of combined GPRS/IMAI attachment requests within the SGSN.	Sum	hustrafbh, Sum
Gb_max_Att_req_IMSI_Attd	hua_gb_mode_attach_tab.saan6c23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Maximum number of Gb mode GPRS attach request times while IMSI attached	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_max_combined_Att_req	hua_gb_mode_attach_tab.saan6c03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Maximum number of Gb mode combined attach request	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_max_GPRS_Att_req	hua_gb_mode_attach_tab.saan6bx3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0	Average	Average, hustrafbh,

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				10.C01SPC022 :Maximum number of Gb mode GPRS attach request		Maximum, Minimum, Sum
GPRS_att_accept_while_IMSI_att	hua_gb_mode_attach_tab. wv5fjo1d4jcxmd3nd4nqm3auvj	INTEGER	#	Number of IMSI-attached GPRS attachment successes within the SGSN.	Sum	hustrafbh, Sum
GPRS_att_refuse_due_illegal_MS	hua_gb_mode_attach_tab. s6xpyh2gs0cpfcart2n4iy6h6d	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to illegal mobile station.	Sum	hustrafbh, Sum
GPRS_att_refuse_ill_ME_wh_IMSI_att	hua_gb_mode_attach_tab. v1ug6br1nccekemyck65slug3v	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh, Sum
GPRS_att_request_while_IMSI_att	hua_gb_mode_attach_tab.r jeb0s2ym2c5ne6bjnt26mubc6	INTEGER	#	Number of IMSI-attached GPRS attachment requests within the SGSN.	Sum	hustrafbh, Sum
IMSI_att_failed_MSC_unreachable	hua_gb_mode_attach_tab. x45erdysxhcqhbdjgle4ympbje	INTEGER	#	Number of times GPRS attachment succeeds but IMSI attachment fails (MSC presently unreachable).	Sum	hustrafbh, Sum
IMSI_att_failed	hua_gb_mode_attach_tab.r	INTEGER	#	GPRS	Sum	hustrafbh

_VLR_reject	cyoe4k40sbertplpvabee2q ho	ER		attachment succeeds while the IMSI attachment fails (rejected by VLR).		, Sum
IMSI_GPRS_att _rej_srvc_not_al low	hua_gb_mode_attach_tab. yevuskps55bvpsbrrpkqnv t g2l	INTEG ER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hustrafbh , Sum
IMSI_GPRS_att _reject_Ge_fail	hua_gb_mode_attach_tab. s4tawhr0rxbxor5005am50 etpv	INTEG ER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh , Sum
IMSI_GPRS_att _reject_GPRS_n ot_allow	hua_gb_mode_attach_tab. uj4dgatbb3b3ht2h2bwsm5 ru4x	INTEG ER	#	Number of IMSI-attached GPRS attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh , Sum
IMSI_GPRS_att _reject_Gr_fail	hua_gb_mode_attach_tab. sdcawbakaub1pejj3s4tfx6r ha	INTEG ER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Gr protocol error.	Sum	hustrafbh , Sum

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IMSI_GPRS_att _reject_LA_not _allowed	hua_gb_mode_attach_tab. vbjlchexuhbitulsomwjmhv ota	INTEG ER	#	Number of IMSI-attached GPRS attachment of non-HPLMN users failures within SGSN due to LA roaming restriction.	Sum	hustrafbh , Sum
IMSI_GPRS_att _reject_No_suit _Cells	hua_gb_mode_attach_tab. xqk0cpwk4ubl6r6e4b6ga1 goal	INTEG ER	#	Number of IMSI-attached GPRS attachment of HPLMN users rejects due to Location Area not allowed.	Sum	hustrafbh , Sum
IMSI_GPRS_att _reject_protocol _error	hua_gb_mode_attach_tab. xth0v3wuovc1jubpriaokkt vue	INTEG ER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
IMSI_GPRS_att _reject_roam_n ot_allow	hua_gb_mode_attach_tab. vnrpjvmhx6cilc6rmgauv6 wis5	INTEG ER	#	Number of IMSI-attached GPRS attachment rejects due to no suitable Cells in LA.	Sum	hustrafbh , Sum
USPU_drop_Att _req_2G_flwctrl	hua_gb_mode_attach_tab. saan6bv3xa2airvh002ind6 wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :USPU drop Attach request packets of 2G due to flow control	Sum	hustrafbh , Sum

**6.31.11SGSN.Huawei.GPRS.Gb\_Mode\_Detach**

Gb Mode Detach measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Combined_detach_request_times	hua_gb_mode_detach_tab.ricnyejfajbarrfy00idigrabv	INTEGER	#	Number of MS-initiated requests for combined GPRS/IMSI detachment within the SGSN.	Sum	hustrafbh, Sum
Detach_accept_message_sent	hua_gb_mode_detach_tab.rm2ih1wxofbe0eedd4x6pvx2b1	INTEGER	#	Number of "detach accept" messages sent to MS.	Sum	hustrafbh, Sum
Detach_request_times	hua_gb_mode_detach_tab.uu4sthamsrcumssvldesmlc5qt	INTEGER	#	Number of MS-initiated requests for GPRS detachment within the SGSN.	Sum	hustrafbh, Sum
HLR_init_detach_request_times	hua_gb_mode_detach_tab.sfu jgofsujc0lcyvfw3deuoffg	INTEGER	#	Number of detachment requests due to subscriber deletion by HLR.	Sum	hustrafbh, Sum
MS_init_IMSI_detach_request_times	hua_gb_mode_detach_tab.tts1ucilktb01dwt6q2bbx0cjn	INTEGER	#	Number of MS-initiated requests for IMSI detachment within the SGSN.	Sum	hustrafbh, Sum

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SGSN_init_detach_request_times	hua_gb_mode_detach_tab.x512u202jmccrcdpqiksnh6imt	INTEGER	#	Number of SGSN-initiated requests for GPRS detachment.	Sum	hustrafbh, Sum
Successful_SGSN_init_detach	hua_gb_mode_detach_tab.xjns gl u46w cg3sj4pe0xhxr wnt	INTEGER	#	Number of SGSN-initiated GPRS detachment successes.	Sum	hustrafbh, Sum
Times_of_SGSN_implicitly_detraching_subscribers_in_Gb_Mode	hua_gb_mode_detach_tab. wey2gyyvwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of implicit detach in Gb Mode.	Sum	hustrafbh, Sum

### 6.31.12SGSN.Huawei.GPRS.Gb\_Mode\_Inter\_SGSN\_RAU

Gb Mode Inter SGSN RAU measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Com_RAU_success	$100 * \frac{\{\text{Com\_RAU\_success}\}}{\{\text{Com\_RAU\_request}\}}$	FLOAT	%	Percentage of successful combined inter-SGSN RAU updates.	Average	Average, hustrafbh
%_GPRS_attach_success_rate	hua_gb_mode_inter_rau_tab.ywyx2cnhv62ahd4ab00pg3rx00	FLOAT	%	Gb mode GPRS attach success rate	Average	Average, hustrafbh, Maximum, Minimum, Sum
%_RAU_success	$100 * \frac{\{\text{RAU\_success}\}}{\{\text{RAU\_request}\}}$	FLOAT	%	Percentage of inter-SGSN RAU successes within this SGSN area.	Average	Average, hustrafbh
_2G_to_2G_R	hua_gb_mode_inter_rau_tab	INTEGER	#	Obsolete from	Sum	hustrafbh

AU_accept	b.saan6dx3xa2airvh002ind6wbg	ER		CN- SGSN/V900R0 10.C01SPC022 :Number of successful Gb mode inter- SGSN 2G to 2G RAU		, Sum
_2G_to_2G_R AU_with_PDP _rej	hua_gb_mode_inter_rau_ta b.saan6e63xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of rejected Gb mode inter- SGSN 2G to 2G RAU with PDP	Sum	hustrafbh , Sum
_2G_to_2G_R AU_with_PDP _req	hua_gb_mode_inter_rau_ta b.saan6e23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of Gb mode inter- SGSN 2G to 2G RAU with PDP	Sum	hustrafbh , Sum
_2G_to_2G_R AU_with_PDP _succ	hua_gb_mode_inter_rau_ta b.saan6e43xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of successful Gb mode inter- SGSN 2G to 2G RAU with PDP	Sum	hustrafbh , Sum
_2G_to_2G_R AU_without_P	hua_gb_mode_inter_rau_ta b.saan6ef3xa2airvh002ind6	INTEGER	#	Obsolete from CN-	Sum	hustrafbh , Sum

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DP_rej	wbg			SGSN/V900R0 10.C01SPC022 :Number of rejected Gb mode inter- SGSN 2G to 2G RAU without PDP		
_2G_to_2G_R AU_without_P DP_req	hua_gb_mode_inter_rau_ta b.saan6eb3xa2airvh002ind 6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of Gb mode inter- SGSN 2G to 2G RAU without PDP request	Sum	hustrafbh , Sum
_2G_to_2G_R AU_without_P DP_succ	hua_gb_mode_inter_rau_ta b.saan6ed3xa2airvh002ind 6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of successful Gb mode inter- SGSN 2G to 2G RAU without PDP	Sum	hustrafbh , Sum
_3G_to_2G_R AU_accept	hua_gb_mode_inter_rau_ta b.saan6df3xa2airvh002ind 6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of successful Gb mode inter- SGSN 3G to 2G RAU	Sum	hustrafbh , Sum
_3G_to_2G_R AU_with_PDP _rej	hua_gb_mode_inter_rau_ta b.saan6dn3xa2airvh002ind 6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of rejected Gb	Sum	hustrafbh , Sum

				mode inter-SGSN 3G to 2G RAU with PDP		
_3G_to_2G_RAU_with_PDP_req	hua_gb_mode_inter_rau_talb.saan6dj3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of Gb mode inter-SGSN 3G to 2G RAU with PDP request	Sum	hustrafbh , Sum
_3G_to_2G_RAU_with_PDP_succ	hua_gb_mode_inter_rau_talb.saan6dl3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of successful Gb mode inter-SGSN 3G to 2G RAU with PDP	Sum	hustrafbh , Sum
_3G_to_2G_RAU_without_PDP_rej	hua_gb_mode_inter_rau_talb.saan6dt3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of rejected Gb mode inter-SGSN 3G to 2G RAU without PDP	Sum	hustrafbh , Sum
_3G_to_2G_RAU_without_PDP_req	hua_gb_mode_inter_rau_talb.saan6dp3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of Gb mode inter-	Sum	hustrafbh , Sum

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				SGSN 3G to 2G RAU without PDP request		
_3G_to_2G_RAU_without_PDP_succ	hua_gb_mode_inter_rau_table.saan6dr3xa2airvh002index6wbq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of successful Gb mode inter-SGSN 3G to 2G RAU without PDP	Sum	hustrafbh , Sum
Com_RAU_reject_Ge_fail	hua_gb_mode_inter_rau_table.uxtsyjqntb4yudvrer3kepkkoq	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hustrafbh , Sum
Com_RAU_reject_GPRS_not_allowed	hua_gb_mode_inter_rau_table.w0en5cp46b3ibqdp2uxrksnft	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh , Sum
Com_RAU_reject_Gr_fail	hua_gb_mode_inter_rau_table.rh6myt4hqvr2empakmpovqaou	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hustrafbh , Sum
Com_RAU_reject_illegal_ME	hua_gb_mode_inter_rau_table.yjyjfhsavxc0tdx6mugqi3hoa0	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal ME.	Sum	hustrafbh , Sum
Com_RAU_rej	hua_gb_mode_inter_rau_ta	INTEGER	#	Number of	Sum	hustrafbh

ect_illegal_MS	b.yhwifla4wfcwerunpuung ykhce	ER		inter-SGSN combined RA/ LA update failures due to illegal mobile station.		, Sum
Com_RAU_rej ect_implicitly_ detached	hua_gb_mode_inter_rau_ta b.u41gg6bn4yclabq0mn4dt et4ha	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to implicitly detached.	Sum	hustrafbh , Sum
Com_RAU_rej ect_LA_not_all owed	hua_gb_mode_inter_rau_ta b.wwawxjicfjcifcglw0m0rj d3e0	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to location area not allowed.	Sum	hustrafbh , Sum
Com_RAU_rej ect_no_suitable _Cells	hua_gb_mode_inter_rau_ta b.ytsuvh0elnbevcsjtunkpbd u2s	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh , Sum
Com_RAU_rej ect_protocol_er ror	hua_gb_mode_inter_rau_ta b.w0ouxdkj6eb4otycfph1h h1cny	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to protocol error.	Sum	hustrafbh , Sum
Com_RAU_rej ect_roaming_n ot_allowed	hua_gb_mode_inter_rau_ta b.w36ddxqxdab3idaex3sq0 i6mbi	INTEG ER	#	Number of inter-SGSN combined RA/ LA update	Sum	hustrafbh , Sum

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				failures due to roaming not allowed in this Location area.		
Com_RAU_reject_srvc_not_allowed	hua_gb_mode_inter_rau_talb.vff6wdueojc2drq0hvl0k bdl0	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service not allowed.	Sum	hustrafbh , Sum
Com_RAU_request	hua_gb_mode_inter_rau_talb.sds4uikue5cqwe0whbdf4fh1m1	INTEGER	#	Number of inter-SGSN combined RA/LA update requests.	Sum	hustrafbh , Sum
Com_RAU_success	hua_gb_mode_inter_rau_talb.xy1dvl15d4bp3rnq5sm6n0l2ph	INTEGER	#	Number of successful combined inter-SGSN RAU updates.	Sum	hustrafbh , Sum
Gb_inter_SG_2G_to_2G_RA_U_rej	hua_gb_mode_inter_rau_talb.saan6e03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of rejected Gb mode inter-SGSN 2G to 2G RAU	Sum	hustrafbh , Sum
Gb_inter_SG_2G_to_2G_RA_U_req	hua_gb_mode_inter_rau_talb.saan6dv3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of Gb mode inter-SGSN 2G to 2G RAU request	Sum	hustrafbh , Sum
Gb_inter_SG_3G_to_2G_RA_U_rej	hua_gb_mode_inter_rau_talb.saan6dh3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0	Sum	hustrafbh , Sum

				10.C01SPC022 :Number of rejected Gb mode inter-SGSN 3G to 2G RAU		
Gb_inter_SG_3G_to_2G_RA_U_req	hua_gb_mode_inter_rau_tab.saan6dd3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of Gb mode inter-SGSN 3G to 2G RAU request	Sum	hustrafbh, Sum
Gb_max_inter_SG_Com_RA_U_req	hua_gb_mode_inter_rau_tab.saan6d23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Maximum number of Gb mode inter-SGSN Com-RAU request	Average	hustrafbh, Sum, Minimum, Maximum
Gb_max_inter_SG_RAU_req	hua_gb_mode_inter_rau_tab.saan6d03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Maximum number of Gb mode inter-SGSN RAU request	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_mode_inter_SGSN_Com_RAU_reject_MS_identity_cannot_be_derived_by_the_netwo	hua_gb_mode_inter_rau_tab.vey2h03vwr2air02b04u3bm6vj	INTEGER	times	This measurement provides the number of inter-SGSN combined RAU/	Sum	hustrafbh, Sum

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rk				LA update failures due to MS identity cannot be derived by the network.		
Gb_mode_inter_SGSN_RAU_reject_MS_identity_cannot_be_derived_by_the_network	hua_gb_mode_inter_rau_talb.vey2h01vwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of inter-SGSN RAU failures due to MS identity cannot be derived by the network.	Sum	hustrafbh, Sum
IMSI_Attd_Com_RAU_rej	hua_gb_mode_inter_rau_talb.saan6db3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of rejected Gb mode inter-SGSN IMSI attached Com-RAU	Sum	hustrafbh, Sum
IMSI_Attd_Com_RAU_req	hua_gb_mode_inter_rau_talb.saan6d43xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of Gb mode inter-SGSN IMSI attached Com-RAU request	Sum	hustrafbh, Sum
IMSI_Attd_Com_RAU_succ	hua_gb_mode_inter_rau_talb.saan6d63xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of successful Gb mode inter-SGSN IMSI	Sum	hustrafbh, Sum

				attached Com- RAU		
RAU_accept_L AU_reject_MS C_unreach	hua_gb_mode_inter_rau_ta b.u6wfpvqbggbbrtw2kmhij dh1tn	INTEG ER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined inter- SGSN updates.	Sum	hustrafb h, Sum
RAU_accept_L AU_reject_VL R_reject	hua_gb_mode_inter_rau_ta b.yyeotlc0u5bwkcgpyg2hv rcaqq	INTEG ER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined inter-SGSN updates.	Sum	hustrafb h, Sum
RAU_complete _msg_rec	hua_gb_mode_inter_rau_ta b.vr56yls5otb1xtjff661kp2 611	INTEG ER	#	Number of inter-SGSN combined RA/ LA update failures due to no suitable Cells in LA.	Sum	hustrafb h, Sum
RAU_reject_G e_fail	hua_gb_mode_inter_rau_ta b.t3nfmmwushbajucjq5dnv d0vjin	INTEG ER	#	Number of inter-SGSN RAU failures due to Ge protocol error.	Sum	hustrafb h, Sum
RAU_reject_G PRS_not_allow ed_in_PLMN	hua_gb_mode_inter_rau_ta b.va61myucambits3h5d3el priqx	INTEG ER	#	Number of inter-SGSN combined RA/ LA update requests.	Sum	hustrafb h, Sum

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RAU_reject_GPRS_service_not_allowed	hua_gb_mode_inter_rau_tab.tkotcgd5jubvlutnn600vhhvff	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service not allowed.	Sum	hustrafbh , Sum
RAU_reject_Gr_fail	hua_gb_mode_inter_rau_tab.vfsw3t0yw6cjyb00gsnakirsgc	INTEGER	#	Number of inter-SGSN RAU failures due to Gr protocol error.	Sum	hustrafbh , Sum
RAU_reject_illegal_ME	hua_gb_mode_inter_rau_tab.y5mtxosir5byerv2cb4heabsoo	INTEGER	#	Number of inter-SGSN RAU failures due to illegal ME.	Sum	hustrafbh , Sum
RAU_reject_illegal_MS	hua_gb_mode_inter_rau_tab.x4ce4oks4dcfmeghnyovugjwhe	INTEGER	#	Number of inter-SGSN RAU failures due to illegal mobile station.	Sum	hustrafbh , Sum
RAU_reject_implicitly_detached	hua_gb_mode_inter_rau_tab.rgfcg2jim0cferoerf5kdjbk4j	INTEGER	#	Number of inter-SGSN RAU failures due to implicitly detached.	Sum	hustrafbh , Sum
RAU_reject_Location_not_allowed	hua_gb_mode_inter_rau_tab.yo46husuesboudklhncwg54gkd	INTEGER	#	Number of inter-SGSN RAU failures due to location area not allowed.	Sum	hustrafbh , Sum
RAU_reject_no_suitable_Cells_in_LA	hua_gb_mode_inter_rau_tab.r01nrcveerb0rtnfu5s4afrryh	INTEGER	#	Number of inter-SGSN RAU failures due to roaming not allowed in this Location area	Sum	hustrafbh , Sum
RAU_reject_pr	hua_gb_mode_inter_rau_ta	INTEGER	#	Number of	Sum	hustrafbh

otocol_error	b.w4wjv6pqd4bwgsvcnqek x6pywg	ER		inter-SGSN RAU failures due to protocol error.		, Sum
RAU_reject_ro aming_not_allo wed	hua_gb_mode_inter_rau_ta b.w5pgsxcd3jcryenwyt122 fka03	INTEG ER	#	Number of inter-SGSN RAU failures due to roaming not allowed in this Location area.	Sum	hustrafbh , Sum
RAU_request	hua_gb_mode_inter_rau_ta b.ue62qcogifchwu3v0ujtef npfl	INTEG ER	#	Number of inter-SGSN RAU requests within the SGSN area.	Sum	hustrafbh , Sum
RAU_success	hua_gb_mode_inter_rau_ta b.wwi06yvh4jc64ulile4afi 4nsx	INTEG ER	#	Number of inter-SGSN RAU successes within this SGSN area.	Sum	hustrafbh , Sum
USPU_drop_R Aureq_noPDP _flwctrl	hua_gb_mode_inter_rau_ta b.saan6cx3xa2airvh002ind 6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :USPU drop Inter RAU request without PDP packets of 2G due to flow control	Sum	hustrafbh , Sum

### 6.31.13SGSN.Huawei.GPRS.Gb\_Mode\_Intra\_SGSN\_RAU

Gb Mode Intra SGSN RAU measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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$\frac{\text{\_Com\_RAU\_success}}{\text{\_RAU\_request}}$	$100 * \frac{\{\text{Com\_RAU\_success}\}}{\{\text{Com\_RAU\_request}\}}$	FLOAT	%	Percentage of successful combined intra-SGSN RAU updates.	Average	Average, hustrafbh
$\frac{\text{\_RAU\_success}}{\text{\_RAU\_request}}$	$100 * \frac{\{\text{RAU\_success}\}}{\{\text{RAU\_request}\}}$	FLOAT	%	Percentage of intra-SGSN RAU successes within this SGSN area.	Average	Average, hustrafbh
$\frac{\text{\_2G2G\_RAU\_with\_PDP\_rej}}{\text{\_RAU\_request}}$	hua_gb_mode_intra_rau_talb.saan6cl3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of rejected Gb mode intra-SGSN 2G to 2G RAU with PDP	Sum	hustrafbh, Sum
$\frac{\text{\_2G2G\_RAU\_with\_PDP\_req}}{\text{\_RAU\_request}}$	hua_gb_mode_intra_rau_talb.saan6cp3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode intra-SGSN 2G to 2G RAU with PDP request	Sum	hustrafbh, Sum
$\frac{\text{\_2G2G\_RAU\_with\_PDP\_suc}}{\text{\_RAU\_request}}$	hua_gb_mode_intra_rau_talb.saan6ct3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of successful Gb mode intra-SGSN 2G to 2G RAU with PDP	Sum	hustrafbh, Sum
$\frac{\text{\_2G2G\_RAU\_without\_PDP\_rej}}{\text{\_RAU\_request}}$	hua_gb_mode_intra_rau_talb.saan6cn3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:	Sum	hustrafbh, Sum

				Number of Gb rejected mode intra-SGSN 2G to 2G RAU without PDP		
_2G2G_RAU_without_PDP_req	hua_gb_mode_intra_rau_talb.saan6cr3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Gb mode intra-SGSN 2G to 2G RAU without PDP request	Sum	hustrafbh, Sum
_2G2G_RAU_without_PDP_succ	hua_gb_mode_intra_rau_talb.saan6cv3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of successful Gb mode intra-SGSN 2G to 2G RAU without PDP	Sum	hustrafbh, Sum
Com_RAU_reject_Ge_fail	hua_gb_mode_intra_rau_talb.sf5typ5d63cdxcdwwjj4fvocr1	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_Gr_fail	hua_gb_mode_intra_rau_talb.x5qmng3e6pb02dip4tp2jc2xh3	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hustrafbh, Sum

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Com_RAU_reject_illegal_MS	hua_gb_mode_intra_rau_talb.u4kkmstpiwbrjsd0ie5rjvm4fq	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hustrafbh , Sum
Com_RAU_reject_implicitly_detached	hua_gb_mode_intra_rau_talb.y1xlkby4ttckbuvi6yktwmcrw4	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to implicitly detached.	Sum	hustrafbh , Sum
Com_RAU_reject_LA_not_allowed	hua_gb_mode_intra_rau_talb.rtyukhpbawcs4s0kt35wtwg5o6	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hustrafbh , Sum
Com_RAU_reject_no_suitable_Cells	hua_gb_mode_intra_rau_talb.wkhmlfl4vqclrbnh6efbafh0iw	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.	Sum	hustrafbh , Sum
Com_RAU_reject_protocol_error	hua_gb_mode_intra_rau_talb.x66mksc0uycx1d1sr4tcai03jh	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to protocol error.	Sum	hustrafbh , Sum
Com_RAU_reject_roaming_not_allowed	hua_gb_mode_intra_rau_talb.yaxeiw31vjcqoddf2uwv2t0rsx	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.	Sum	hustrafbh , Sum

Com_RAU_request	hua_gb_mode_intra_rau_talb.uim4tbxyygbwhcnaxlin0th56e	INTEGER	#	Number of request combined intra-SGSN RAU updates.	Sum	hustrafbh, Sum
Com_RAU_success	hua_gb_mode_intra_rau_talb.rk326dwtfxbuw6t6sf6dgu soljg	INTEGER	#	Number of successful combined intra-SGSN RAU updates.	Sum	hustrafbh, Sum
Gb_max_intra SG_Com_RA U_req	hua_gb_mode_intra_rau_talb.saan6cb3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Maximum number of Gb mode intra-SGSN Com-RAU request	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_max_intra SG_RA U_req	hua_gb_mode_intra_rau_talb.saan6c63xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Maximum number of Gb mode intra-SGSN RAU request	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_mode_cell_update_times	hua_gb_mode_intra_rau_talb.saan6cd3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of Gb mode cell update	Sum	hustrafbh, Sum
Gb_mode_Periodic_RA U_reject_Ge_fail	hua_gb_mode_intra_rau_talb.tl63xpmny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to	Sum	hustrafbh, Sum

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				Ge protocol error.		
Gb_mode_Periodic_RAU_reject_Gr_fail	hua_gb_mode_intra_rau_talb.tl63xpknny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to Gr protocol error.	Sum	hustrafbh , Sum
Gb_mode_Periodic_RAU_reject_illegal_MS	hua_gb_mode_intra_rau_talb.tl63xpany42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to illegal mobile station.	Sum	hustrafbh , Sum
Gb_mode_Periodic_RAU_reject_implicitly_detached	hua_gb_mode_intra_rau_talb.tl63xpgny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to implicitly detached.	Sum	hustrafbh , Sum
Gb_mode_Periodic_RAU_reject_LA_not_allowed	hua_gb_mode_intra_rau_talb.tl63xpcny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to location area not allowed.	Sum	hustrafbh , Sum
Gb_mode_Periodic_RAU_reject_No_suitable_Cells_in_LA	hua_gb_mode_intra_rau_talb.tl63xpony42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to no suitable cells in LA.	Sum	hustrafbh , Sum
Gb_mode_Periodic_RAU_reject_protocol_error	hua_gb_mode_intra_rau_talb.tl63xpiny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic failures due to protocol error.	Sum	hustrafbh , Sum
Gb_mode_Periodic_RAU_reject_roaming_not_allowed_in_LA	hua_gb_mode_intra_rau_talb.tl63xpeny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to roaming not allowed in this Location area	Sum	hustrafbh , Sum
Gb_mode_Periodic_RAU_request_times	hua_gb_mode_intra_rau_talb.tl63xp3ny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU requests within the SGSN area.	Sum	hustrafbh , Sum

Gb_mode_Periodic_RAU_success_times	hua_gb_mode_intra_rau_talb.tl63xp5ny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU successes within This SGSN area.	Sum	hustrafbh, Sum
IMSI_Attd_Com_RAU_rej	hua_gb_mode_intra_rau_talb.saan6cj3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of rejected Gb mode intra-SGSN IMSI attached Com-RAU	Sum	hustrafbh, Sum
IMSI_Attd_Com_RAU_succ	hua_gb_mode_intra_rau_talb.saan6ch3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of successful Gb mode intra-SGSN IMSI attached Com-RAU	Sum	hustrafbh, Sum
IMSI_Attd_Com_RAUreq	hua_gb_mode_intra_rau_talb.saan6cf3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of Gb mode intra-SGSN IMSI attached Com-RAU request	Sum	hustrafbh, Sum
RAU_accept_LAU_reject_MSC_unreach	hua_gb_mode_intra_rau_talb.twbsgbb45hbl4b2rynxavbimox	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC	Sum	hustrafbh, Sum

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				temporarily unreachable in the process of combined intra-SGSN updates.		
RAU_accept_LAU_reject_VLR_reject	hua_gb_mode_intra_rau_talb.thjjpgw5ifchpexanxmjwq4dw0	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined intra-SGSN updates.	Sum	hustrafbh , Sum
RAU_complete_message_received	hua_gb_mode_intra_rau_talb.yj6tka3e6nbo4sor3631d3i6ww	INTEGER	#	Number of times intra-SGSN RAU is completed .	Sum	hustrafbh , Sum
RAU_reject_Ge_fail	hua_gb_mode_intra_rau_talb.tl3gejfraab32c0a0yyiyjra3p	INTEGER	#	Number of intra-SGSN RAU failures due to Ge protocol error.	Sum	hustrafbh , Sum
RAU_reject_Gr_fail	hua_gb_mode_intra_rau_talb.w20cl23ccmb6qtkc64hfweuhkw	INTEGER	#	Number of intra-SGSN RAU failures due to Gr protocol error.	Sum	hustrafbh , Sum
RAU_reject_illegal_MS	hua_gb_mode_intra_rau_talb.rpta0mqna2c51rx0vtplbchgio	INTEGER	#	Number of intra-SGSN RAU failures due to illegal mobile station.	Sum	hustrafbh , Sum
RAU_reject_implicitly_detached	hua_gb_mode_intra_rau_talb.xuqkx2bjjocxmdtonohno21gm5	INTEGER	#	Number of intra-SGSN RAU failures due to implicitly detached.	Sum	hustrafbh , Sum
RAU_reject_LA_not_allowed	hua_gb_mode_intra_rau_talb.vao6c5xbbgcq6dk6p3liy	INTEGER	#	Number of intra-SGSN	Sum	hustrafbh , Sum

	dafak			RAU failures due to location area not allowed.		
RAU_reject_no_suitable_Cells_in_LA	hua_gb_mode_intra_rau_talb.uxahpo6ntkc6ecxaltoqdq6tix	INTEGER	#	Number of intra-SGSN RAU failures due to no suitable Cells in LA.	Sum	hustrafbh, Sum
RAU_reject_protocol_error	hua_gb_mode_intra_rau_talb.rvfpkrc6iwbd5rkpplgooiyete	INTEGER	#	Number of intra-SGSN RAU failures due to protocol error.	Sum	hustrafbh, Sum
RAU_reject_roaming_not_allowed	hua_gb_mode_intra_rau_talb.vs5dw5nfx1begt5xqywkt55cw3	INTEGER	#	Number of intra-SGSN RAU failures due to roaming not allowed in this Location area.	Sum	hustrafbh, Sum
RAU_request	hua_gb_mode_intra_rau_talb.wbk2ofbushbpqtjrvyam6rr1jm	INTEGER	#	Number of intra-SGSN RAU requests within the SGSN area.	Sum	hustrafbh, Sum
RAU_success	hua_gb_mode_intra_rau_talb.u0upwhug6cbh0r3n4b2n pderya	INTEGER	#	Number of intra-SGSN RAU successes within this SGSN area.	Sum	hustrafbh, Sum
USPU_drop_RAUreq_noPDP_flwctrl	hua_gb_mode_intra_rau_talb.saan6c43xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: USPU drop Intra RAU	Sum	hustrafbh, Sum

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				request without PDP packets of 2G due to flow control		
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#### 6.31.14SGSN.Huawei.GPRS.Gb\_Mode\_L3\_MM

Gb Mode L3 MM measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Attach_Acc_sent_to_foreign_subs	hua_gb_mode_l3_mm_tab.tlybrbagdabnws1aegixdiah26	INTEGER	#	Number of successful attachments within the SGSN by roaming subscribers of external networks .	Sum	hustrafbh , Sum
Attach_Rej_sent_to_foreign_subs	hua_gb_mode_l3_mm_tab.u6f6vegijac33bcr0ck1gv24xl	INTEGER	#	Number of attachment failures within the SGSN by roaming subscribers of external networks.	Sum	hustrafbh , Sum
Attach_Req_rec_from_foreign_subs	hua_gb_mode_l3_mm_tab.uvk4hro0rhbhvrtxmkan24e5kk	INTEGER	#	Number of requests within the SGSN for attachment initiated by roaming subscriber of external networks .	Sum	hustrafbh , Sum
L3_Message_received	hua_gb_mode_l3_mm_tab.x0nuaw13uvbm5dx2q1vrbklyb	INTEGER	#	Number of L3 signalling received by SGSN 3G MM.	Sum	hustrafbh , Sum

L3_Message_sent	hua_gb_mode_l3_mm_tab.v6423yrn1jcl3siw6fyg4hxpvm	INTEGER	#	Number of L3 signalling sent by SGSN 3G MM.	Sum	hustrafbh, Sum
RAU_Acc_sent_to_foreign_subs	hua_gb_mode_l3_mm_tab.tuwb2cjrcrbvyurxe0y6ckngd3	INTEGER	#	Number of successful RAUs by roaming subscribers of external networks within the SGSN.	Sum	hustrafbh, Sum
RAU_Compl_rec_from_foreign_subs	hua_gb_mode_l3_mm_tab.tdkeovkp31bvibci3a2cxgnsvl	INTEGER	#	Number of times SGSN receives the routing area updating complete message from roaming subscribers of external networks.	Sum	hustrafbh, Sum
RAU_Rej_sent_to_foreign_subs	hua_gb_mode_l3_mm_tab.tmtgsvcm5b16emerp10k0xp5b	INTEGER	#	Number of RAU failures by the roaming subscriber of external networks within the SGSN.	Sum	hustrafbh, Sum
RAU_Req_rec_from_foreign_subs	hua_gb_mode_l3_mm_tab.ycv6g4gd01bg2esd21l4s22v1q	INTEGER	#	Number of requests within the SGSN for RAU by roaming subscribers of external networks.	Sum	hustrafbh, Sum

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### 6.31.15SGSN.Huawei.GPRS.Gb\_Mode\_Paging

Gb Mode Paging measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Circuit_paging_request	hua_gb_mode_paging_tab.x2fujdjgruc5brbdqqjmgylc15	INTEGER	#	Number of circuit pagings delivered by SGSN.	Sum	hustrafbh, Sum
Gb_mode_packet_paging_request_by_UTRAN_times	hua_gb_mode_paging_tab.vey2h05vwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of attempts of GPRS packet paging within this SGSN, which is sent through UTRAN and does not include the re-paging process.	Sum	hustrafbh, Sum
Gb_mode_packet_paging_response_by_3G_RAU_times	hua_gb_mode_paging_tab.vey2h0avwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of GPRS packet paging responses by 3G RAU within this SGSN.	Sum	hustrafbh, Sum
Gb_mode_packet_paging_response_by_LLC_PDU_times	hua_gb_mode_paging_tab.vey2h0cvwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of GPRS packet paging responses by uplink LLC PDU within this SGSN.	Sum	hustrafbh, Sum

Pkt_paging_no ne_response	hua_gb_mode_paging_tab. r6te30q4h2bcwuco2r5mqe owmb	INTEG ER	#	Number of failed GPRS packet pagings within this SGSN such as paging timeout.	Sum	hustrafbh , Sum
Pkt_paging_re quest	hua_gb_mode_paging_tab. vlmot4uo55bdtbvh1cyieye enj	INTEG ER	#	Number of attempts of GPRS packet paging within this SGSN, which does not include the re- paging process.	Sum	hustrafbh , Sum
Resume_reque st_message_re c	hua_gb_mode_paging_tab. t6545njgtvbhmuyt6xhncxli f5	INTEG ER	#	Number of the "resume request" messages received.	Sum	hustrafbh , Sum
Suspend_reque st_message_re c	hua_gb_mode_paging_tab. xbqp2a51ufcevtr0b6616yi1 qg	INTEG ER	#	Number of the "suspend request" messages received.	Sum	hustrafbh , Sum

### 6.31.16SGSN.Huawei.GPRS.Gb\_Mode\_PDP\_Access\_Reject

Gb Mode PDP Access Reject measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregat or	Other Aggrega tors
High_level_us er_PDP_acc_r eject	hua_gb_mode_pdp_reject _tab.vrrdf3lb2bb4pevby3y thohwds	INTEG ER	#	Number of times that the PDP context activation is rejected for high class users in Gb mode.	Sum	hustrafbh , Sum

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Low_level_user_PDP_access_reject	hua_gb_mode_pdp_reject_tab.xutd1pfp1b3kugrkxh3nj4khi	INTEGER	#	Number of times that the PDP context activation is rejected for low class users in Gb mode.	Sum	hustrafbh, Sum
Normal_user_PDP_access_reject	hua_gb_mode_pdp_reject_tab.vkj4kqu2dkbgrttuik0h4h1mm2	INTEGER	#	Number of times that the PDP context activation is rejected for normal class users in Gb mode.	Sum	hustrafbh, Sum

#### 6.31.17SGSN.Huawei.GPRS.Gb\_mode\_PDP\_act\_EDGE\_user

PDP context activate procedures of EDGE user.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Gb_mode_MS_init_PDP_context_act_success_times_of_EDGE_user	hua_m117440679_tab.tl63xxiny42ahc3lr02incnmdw	INTEGER	#	Number of successful PDP context activate procedures of EDGE user.	Sum	hustrafbh, Sum
MS_init_PDP_act_succ_EDGE_user	hua_m117440679_tab.saan6rj3xa2airvh002ind6wbg	INTEGER	#	The numbers of successful PDP context activate procedures of EDGE user.	Sum	hustrafbh, Sum

#### 6.31.18SGSN.Huawei.GPRS.Gb\_Mode\_PDP\_Context\_Activation

Gb Mode PDP Context Activation measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_MS_init_IP	100 * {MS_init_IPV4_PDP_ctx_	FLOAT	%	Percentage of successful	Average	Average, hustrafbh

V4_PDP_ctx_act_suc	act_suc}/ {MS_init_IPV4_PDP_ctx_act}			MS-initiated IPv4 PDP context primary activations in a specified BSS		
%_MS_init_IPV6_PDP_ctx_act_suc	100 * {MS_init_IPV6_PDP_ctx_act_suc}/ {MS_init_IPV6_PDP_ctx_act}	FLOAT	%	Percentage of successful MS-initiated IPv6 PDP context activations in a specified BSS	Average	Average, hustrfbh
%_MS_init_PDP_act_suc_with_dynamic_addr	100 * {MS_init_PDP_act_suc_with_dynamic_addr}/ {MS_init_PDP_act_with_dynamic_addr}	FLOAT	%	Percentage of successful MS-initiated dynamic PDP context activations in a specified BSS	Average	Average, hustrfbh
%_MS_init_PDP_context_act_success	100 * {MS_init_PDP_context_act_success}/ {MS_init_PDP_context_act}	FLOAT	%	Percentage of successful MS-initiated PDP context activations in a specified BSS	Average	Average, hustrfbh
%_Network_init_IPV4_PDP_ctx_act_suc	100 * {Network_init_IPV4_PDP_ctx_act_suc}/ {Network_init_IPV4_PDP_ctx_act}	FLOAT	%	Percentage of successful MS-initiated IPv4 PDP context network activations in a specified BSS	Average	Average, hustrfbh

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$\frac{\text{Network\_init\_IPV6\_PDP\_ctx\_act\_suc}}{\text{Network\_init\_IPV6\_PDP\_ctx\_act}}$	$100 * \frac{\text{Network\_init\_IPV6\_PDP\_ctx\_act\_suc}}{\text{Network\_init\_IPV6\_PDP\_ctx\_act}}$	FLOAT	%	Percentage of successful MS-initiated IPv6 PDP context network activations in a specified BSS	Average	Average, hustrfbh
$\frac{\text{Network\_init\_PDP\_context\_act\_suc}}{\text{Network\_init\_PDP\_context\_act}}$	$100 * \frac{\text{Network\_init\_PDP\_context\_act\_suc}}{\text{Network\_init\_PDP\_context\_act}}$	FLOAT	%	Percentage of successful MS-initiated PDP context network activations in a specified BSS	Average	Average, hustrfbh
$\frac{\text{Secondary\_IPV4\_PDP\_ctx\_act\_suc}}{\text{Secondary\_IPV4\_PDP\_ctx\_act}}$	$100 * \frac{\text{Secondary\_IPV4\_PDP\_ctx\_act\_suc}}{\text{Secondary\_IPV4\_PDP\_ctx\_act}}$	FLOAT	%	Number of successful secondary IPv4 PDP context activations in a specified BSS.	Average	Average, hustrfbh
$\frac{\text{Secondary\_IPV6\_PDP\_ctx\_act\_suc}}{\text{Secondary\_IPV6\_PDP\_ctx\_act}}$	$100 * \frac{\text{Secondary\_IPV6\_PDP\_ctx\_act\_suc}}{\text{Secondary\_IPV6\_PDP\_ctx\_act}}$	FLOAT	%	Percentage of successful secondary IPv6 PDP context activations in a specified BSS.	Average	Average, hustrfbh
$\frac{\text{Secondary\_PDP\_context\_act\_suc}}{\text{Secondary\_PDP\_context\_act}}$	$100 * \frac{\text{Secondary\_PDP\_context\_act\_suc}}{\text{Secondary\_PDP\_context\_act}}$	FLOAT	%	Percentage of successful secondary PDP context activations in a specified BSS.	Average	Average, hustrfbh
Foreign_subscriptions_act_PDP_context_acc	hualgbmodepdp_act_table.sjggasp0j5ceceudgd5aneyybb	INTEGER	#	Number of foreign MS initiated PDP	Sum	hustrfbh, Sum

				context activation successes (including first and secondary activation).		
Foreign_subs_act_PDP_context_reject	hua_gb_mode_pdp_act_talb.wmnsru0v24bwtsig0yljfy5mdy	INTEGER	#	Number of foreign MS initiated PDP context activation failures (including first and secondary activation).	Sum	hustrafbh, Sum
Foreign_subs_act_PDP_context_req	hua_gb_mode_pdp_act_talb.sa5jgm4gxebrxulp03m6n5pc4l	INTEGER	#	Number of foreign MS initiated PDP context activation attempts (including first and secondary activation).	Sum	hustrafbh, Sum
Gb_max_MS_init_PDP_context_act	hua_gb_mode_pdp_act_talb.saan6l23xa2airvh002ind6wbq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Maximum number of Gb mode MS init PDP context act	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_mode_MS_init_PDP_context_Max_act	hua_gb_mode_pdp_act_talb.tl63xqwny42ahc3lr02incnmdw	INTEGER	Milliseconds	Maximum MS initiated primary PDP	Average	Average, hustrafbh,

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time_delay				context activation duration in Gb mode.		Maximum, Minimum, Sum
Gb_mode_MS_init_PDP_context_Mean_act_time_delay	hua_gb_mode_pdp_act_tab.tl63xqyny42ahc3lr02incnmdw	FLOAT	Milliseconds	Average primary MS activated PDP context establishment duration in Gb mode.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_mode_Ms_PDP_Context_act_complete_Total_times	hua_gb_mode_pdp_act_tab.tl63xr1ny42ahc3lr02incnmdw	INTEGER	#	Number of successful primary PDP context activations initiated by MSs.	Sum	hustrafbh, Sum
Gb_mode_Ms_PDP_Context_Total_act_time_delay	hua_gb_mode_pdp_act_tab.tl63xr3ny42ahc3lr02incnmdw	INTEGER	Milliseconds	Total duration of the MS initiated 2G PDP context activations in the measurement period.	Sum	hustrafbh, Sum
Gb_PDP_act_fail_APN_Restrict	hua_gb_mode_pdp_act_tab.saan6kx3xa2airvh002ind6wbg	INTEGER	#	Number of PDP context activation failures due to APN Restriction	Sum	hustrafbh, Sum
MS_init_IPV4_PDP_ctx_act_reject	hua_gb_mode_pdp_act_tab.rrkcvjytd3bu3eqe0namnfydoy	INTEGER	#	Number of rejected MS-initiated IPv4 PDP context activations.	Sum	hustrafbh, Sum
MS_init_IPV4_PDP_ctx_act_suc	hua_gb_mode_pdp_act_tab.siayisklqbtrumosis2vn4iyp	INTEGER	#	Number of successful MS-initiated IPv4 PDP context	Sum	hustrafbh, Sum

				primary activations in a specified BSS		
MS_init_IPV4_PDP_ctx_act	hua_gb_mode_pdp_act_talb.tjotejto2tbgkcetkvguiyr4cm	INTEGER	#	Number of MS-initiated IPv4 PDP context primary activation attempts in a specified BSS	Sum	hustrafbh, Sum
MS_init_IPV6_PDP_ctx_act_reject	hua_gb_mode_pdp_act_talb.sp2vlycfmjwbkjbwx5hp5gfdvg	INTEGER	#	Number of rejected MS-initiated IPv6 PDP context activations.	Sum	hustrafbh, Sum
MS_init_IPV6_PDP_ctx_act_suc	hua_gb_mode_pdp_act_talb.wk4hv66wugb0dd2hcvbkh2ncl6	INTEGER	#	Number of successful MS initiated IPv6 PDP context activations in a specified BSS	Sum	hustrafbh, Sum
MS_init_IPV6_PDP_ctx_act	hua_gb_mode_pdp_act_talb.v6ja24aujnbkfule1352i21boa	INTEGER	#	Number of MS-initiated IPv6 PDP context activation attempts in a specified BSS	Sum	hustrafbh, Sum
MS_init_PDP_act_rej_w_dynamic_addr	hua_gb_mode_pdp_act_talb.sjp6f20rhccusc115jq3hyv0co	INTEGER	#	Number of reject of MS-initiated PDP context activation using	Sum	hustrafbh, Sum

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				dynamic PDP address.		
MS_init_PDP_act_suc_with_dynamic_addr	hua_gb_mode_pdp_act_tab.rdbqm0u6d3bhkup0bjv6fusrcm	INTEGER	#	Number of successful MS-initiated dynamic PDP context activations in a specified BSS	Sum	hustrafbh , Sum
MS_init_PDP_act_with_dynamic_addr	hua_gb_mode_pdp_act_tab.r5cyqh5h2cc1it4hrvpwmlrp5	INTEGER	#	Number of MS-initiated PDP context activation requests using dynamic address in a specified BSS.	Sum	hustrafbh , Sum
MS_init_PDP_context_act_success	hua_gb_mode_pdp_act_tab.waolilyevqccabfhklv3ectfea	INTEGER	#	Number of successful MS-initiated PDP context activations in a specified BSS	Sum	hustrafbh , Sum
MS_init_PDP_context_act	hua_gb_mode_pdp_act_tab.r6efw6ywhmbwqcgprkxjwprjr5	INTEGER	#	Number of MS-initiated PDP context activation attempts in a specified BSS	Sum	hustrafbh , Sum
Network_init_IPv4_PDP_ctx_act_suc	hua_gb_mode_pdp_act_tab.xm2owxycsubv5s4wxxj152ue20	INTEGER	#	Number of successful MS-initiated IPv4 PDP context network activations in a specified BSS	Sum	hustrafbh , Sum
Network_init_I	hua_gb_mode_pdp_act_ta	INTEGER	#	Number of	Sum	hustrafbh

PV4_PDP_ctx_act	b.usciyopjxvcveeq3x5o4ca a4es	ER		MS-initiated IPv4 PDP context network activation attempts in a specified BSS		, Sum
Network_init_IPV6_PDP_ctx_act_suc	hua_gb_mode_pdp_act_talb.ua25hpj461cjldftob44t50f3l	INTEGER	#	Number of successful MS-initiated IPv6 PDP context network activations in a specified BSS	Sum	hustrafbh, Sum
Network_init_IPV6_PDP_ctx_act	hua_gb_mode_pdp_act_talb.wfhokltctlc0gepvycy2x3ra4u	INTEGER	#	Number of MS-initiated IPv6 PDP context network activation attempts in a specified BSS	Sum	hustrafbh, Sum
Network_init_PDP_context_act_suc	hua_gb_mode_pdp_act_talb.veqxryrth3cflbd4bg6djce2n3	INTEGER	#	Number of successful MS-initiated PDP context network activations in a specified BSS	Sum	hustrafbh, Sum
Network_init_PDP_context_act	hua_gb_mode_pdp_act_talb.wnrmp4y5n5cperbkdljuo3ojaf	INTEGER	#	Number of MS-initiated PDP context network activation attempts in a specified BSS	Sum	hustrafbh, Sum

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PDP_context_fail_DNS_resolution_fail	hua_gb_mode_pdp_act_talb.taw4ld4rlfbh1unvtdj5njmx1a	INTEGER	#	Number of activation failures in a specified BSS ( due to DNS resolution failure).	Sum	hustrafbh , Sum
PDP_context_fail_due_PDP_type	hua_gb_mode_pdp_act_talb.ubes3nnp15co5caoscinuy3o4g	INTEGER	#	Number of activation failures in a specified BSS ( due to unknown PDP address or type).	Sum	hustrafbh , Sum
PDP_context_fail_Ge_fail	hua_gb_mode_pdp_act_talb.saxpkm3mhhbkvellsdj5pawnh	INTEGER	#	Number of activation failures in a specified BSS ( due to Ge interface failure).	Sum	hustrafbh , Sum
PDP_context_fail_GGSN_reject	hua_gb_mode_pdp_act_talb.rpk2jtoadic5buwv3aguimwtbu	INTEGER	#	Number of activation failures in a specified BSS ( due to GGSN reject).	Sum	hustrafbh , Sum
PDP_context_fail_insuff_res	hua_gb_mode_pdp_act_talb.yxtppl16jyb0kr4qsmqo0n0s0n	INTEGER	#	Number of activation failures in a specified BSS ( due to insufficient network resource).	Sum	hustrafbh , Sum
PDP_context_fail_missing_APN	hua_gb_mode_pdp_act_talb.yxblr204omcaquximn1orx4p2i	INTEGER	#	Number of activation failures in a specified BSS ( due to unknown	Sum	hustrafbh , Sum

				APN).		
PDP_context_fail_QoS_negotiation_fail	hua_gb_mode_pdp_act_table.tcw2yjnkgnb31sgokv6h0gp2sl	INTEGER	#	Number of activation failures in a specified BSS ( due to QoS negotiation failure).	Sum	hustrafbh , Sum
PDP_context_fail_srvc_unsubscribed	hua_gb_mode_pdp_act_table.t25asvlfxcwtd0rleke3eectk	INTEGER	#	Number of activation failures in a specified BSS ( due to unsubscribed service).	Sum	hustrafbh , Sum
PDP_context_fail_srvc_unsupported	hua_gb_mode_pdp_act_table.sq0kar2sxhbeac0oty bqo60hqr	INTEGER	#	Number of activation failures in a specified BSS ( due to services not supported by the system).	Sum	hustrafbh , Sum
PDP_context_fail_user_authentication_fail	hua_gb_mode_pdp_act_table.xddntvwxt4bpptanuqgpsqb6h4	INTEGER	#	Number of activation failures in a specified BSS ( due to subscriber authentication failure).	Sum	hustrafbh , Sum
PDP_context_reject	hua_gb_mode_pdp_act_table.u6kmxxhb5ycfrrcenvyhw12kgs	INTEGER	#	Number of activation rejects in a specified BSS.	Sum	hustrafbh , Sum
PDP_context_secondary_act_reject	hua_gb_mode_pdp_act_table.y3w3gxgghxb4kuidg4jn4	INTEGER	#	Number of secondary	Sum	hustrafbh , Sum

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	wcx0t			PDP context activation rejects in a specified BSS.		
PDP_context_sec_fail_Ge_fail	hua_gb_mode_pdp_act_talb.s555oy36yqbkwtb2cul05i6m1x	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS ( due to Ge interface failure).	Sum	hustrafbh , Sum
PDP_context_sec_fail_GGSN_reject	hua_gb_mode_pdp_act_talb.tjayj0npeybs6t3px6bahklg45	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS ( due to GGSN reject).	Sum	hustrafbh , Sum
PDP_context_sec_fail_net_res_insuff	hua_gb_mode_pdp_act_talb.xwe4jbvqetcnkb2wg2ohqyqeml	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS ( due to insufficient network resource).	Sum	hustrafbh , Sum
PDP_context_sec_fail_unknown_PDP	hua_gb_mode_pdp_act_talb.v56odwelqubhmswf0shu3paqkc	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS (due to unknown PDP context)	Sum	hustrafbh , Sum
PDP_ctx_act_f	hua_gb_mode_pdp_act_ta	INTEGER	#	Number of	Sum	hustrafbh

ail_Op_Det_Bar	b.ucuhttnk5hbpfcvbk5grremmo	ER		activation failures (due to ODB).		, Sum
PDP_ctx_act_fail_Unspecific_reason	hua_gb_mode_pdp_act_talb.w1l4sqaiabblds6hjim2qnrtais	INTEGER	#	2G PDP ctx act fail (Unspecified Reason) in BSS.	Sum	hustrafbh, Sum
PDP_ctx_sec_act_fail_No_Reason	hua_gb_mode_pdp_act_talb.towj41432dcc0riprcifdc0ikt	INTEGER	#	2G PDP ctx sec act fail (Unspecified Reason) in BSS.	Sum	hustrafbh, Sum
PDP_ctx_sec_act_fail_Op_Det_Bar	hua_gb_mode_pdp_act_talb.s0pd0x0520c3gbmbwflb2ksauc	INTEGER	#	Number of secondary PDP context activation failures (due to ODB).	Sum	hustrafbh, Sum
PDP_ctx_sec_act_fail_Ugbi_PDP_Cong	hua_gb_mode_pdp_act_talb.v3wwdo1b2ycxjetk0evqt3eaum	INTEGER	#	Number of secondary PDP context activation failures in a specified BSS (due to PDP congestion of UGBI)	Sum	hustrafbh, Sum
PDP_ctx_sec_act_fail_Ugbi_PDP_Cong	hua_gb_mode_pdp_act_talb.rqt0hnsi52c21uw1os52jmxftk	INTEGER	#	Number of activation failures (due to UGBI and PDP congestion).	Sum	hustrafbh, Sum
Secondary_IP_V4_PDP_ctx_act_suc	hua_gb_mode_pdp_act_talb.xotal1uu3abo3ubufqt02gmmcf	INTEGER	#	Number of successful secondary IPv4 PDP	Sum	hustrafbh, Sum

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				context activations in a specified BSS.		
Secondary_IP V4_PDP_ctx_act	hua_gb_mode_pdp_act_tab.sxc2gdw5c0bxmcs6a2h2n3s6qu	INTEGER	#	Number of secondary IPv4 PDP context activation requests in a specified BSS.	Sum	hustrafbh , Sum
Secondary_IP V6_PDP_ctx_act_suc	hua_gb_mode_pdp_act_tab.ypymrkhhmmqcb0e05d6mpfrqls6	INTEGER	#	Number of successful secondary IPv6 PDP context activations in a specified BSS.	Sum	hustrafbh , Sum
Secondary_IP V6_PDP_ctx_act	hua_gb_mode_pdp_act_tab.ulxmqq5dpccsneqduqwn34msc3	INTEGER	#	Number of secondary IPv6 PDP context activation requests in a specified BSS.	Sum	hustrafbh , Sum
Secondary_PDP_context_act_suc	hua_gb_mode_pdp_act_tab.rmww2g6ne56b5qcvhockctgyyaa	INTEGER	#	Number of successful secondary PDP context activations in a specified BSS.	Sum	hustrafbh , Sum
Secondary_PDP_context_act	hua_gb_mode_pdp_act_tab.trifi3nkgbsbk1cie2lvpegcs5x	INTEGER	#	Number of secondary PDP context activation requests in a specified BSS.	Sum	hustrafbh , Sum

USPU_drop_PDP_act_req_flowctrl	hua_gb_mode_pdp_act_tab.saan6l03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:USPU drop PDP activation request packets of 2G due to flow control	Sum	hustrafbh, Sum
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### 6.31.19SGSN.Huawei.GPRS.Gb\_Mode\_PDP\_Context\_Deactivation

Gb Mode PDP Context Deactivation measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_GGSN_init_PDP_context_deact_success	$100 * \frac{\{\text{GGSN\_init\_PDP\_context\_deact\_success}\}}{\{\text{GGSN\_init\_PDP\_context\_deact}\}}$	FLOAT	%	Percentage of successes of GGSN-initiated PDP context deactivation.	Average	Average, hustrafbh
%_MS_init_PDP_context_deact_success	$100 * \frac{\{\text{MS\_init\_PDP\_context\_deact\_success}\}}{\{\text{MS\_init\_PDP\_context\_deact}\}}$	FLOAT	%	Percentage of successes of MS-initiated PDP context deactivation.	Average	Average, hustrafbh
%_SGSN_init_PDP_context_deact_success	$100 * \frac{\{\text{SGSN\_init\_PDP\_context\_deact\_success}\}}{\{\text{SGSN\_init\_PDP\_context\_deact}\}}$	FLOAT	%	Percentage of successes of SGSN-initiated PDP context deactivation.	Average	Average, hustrafbh
Gb_max_MS_init_PDP_deact	hua_gb_mode_pdp_deact_tab.saan6l43xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Maximum	Average	Average, hustrafbh, Maximum

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				number of Gb mode MS init PDP context deact		Minimum, Sum
GGSN_init_PDP_context_deact_success	hua_gb_mode_pdp_deact_tab.wbvoufxv0rcg4r5xyxowmpmnfl	INTEGER	#	Number of successes of GGSN-initiated PDP context deactivation.	Sum	hustrafbh, Sum
GGSN_init_PDP_context_deact	hua_gb_mode_pdp_deact_tab.wt5rlojltbvcrw3dwpc0atwco	INTEGER	#	Number of GGSN-initiated requests for PDP context deactivation.	Sum	hustrafbh, Sum
MS_init_PDP_context_deact_success	hua_gb_mode_pdp_deact_tab.s5ev0ewb2jcm4c3kakv4e6xxlh	INTEGER	#	Number of successes of MS-initiated PDP context deactivation.	Sum	hustrafbh, Sum
MS_init_PDP_context_deact	hua_gb_mode_pdp_deact_tab.yg1fn0kna0btvsd216o1sawion	INTEGER	#	Number of MS-initiated requests for PDP context deactivation	Sum	hustrafbh, Sum
SGSN_init_PDP_context_deact_success	hua_gb_mode_pdp_deact_tab.rl c66pmiapccusm5nt5j3ku5ng	INTEGER	#	Number of successes of SGSN-initiated PDP context deactivation.	Sum	hustrafbh, Sum
SGSN_init_PDP_context_deact	hua_gb_mode_pdp_deact_tab.tkyiwomnpxco3s0jhlablebsd	INTEGER	#	Number of SGSN-initiated requests for PDP context deactivation.	Sum	hustrafbh, Sum

### 6.31.20SGSN.Huawei.GPRS.Gb\_Mode\_PDP\_Context\_Modification

Gb Mode PDP Context Modification measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Gb_mode_SG SN_modify_P DP_context_re quest	hua_gb_mode_pdp_modif_ tab.tl63xr5ny42ahc3lr02in cnmdw	INTEG ER	#	Number of Modify PDP Context Request message sent by SGSN to MS.	Sum	hustrafbh , Sum
Gb_mode_SG SN_modify_P DP_context_s uccess	hua_gb_mode_pdp_modif_ tab.tl63xrany42ahc3lr02inc nmdw	INTEG ER	#	Number of Modify PDP context accept message received by SGSN from MS.	Sum	hustrafbh , Sum
Gb_mode_SG SN_update_P DP_context_re quest	hua_gb_mode_pdp_modif_ tab.tl63xrcny42ahc3lr02inc nmdw	INTEG ER	#	Number of Update PDP Context Request message sent by SGSN to GGSN.	Sum	hustrafbh , Sum
Gb_mode_SG SN_update_P DP_context_s uccess	hua_gb_mode_pdp_modif_ tab.tl63xreny42ahc3lr02inc nmdw	INTEG ER	#	Number of Update PDP Context Response message with cause of "Request Accepted" received by SGSN from MS.	Sum	hustrafbh , Sum
GGSN_init_P DP_context_m odify_suc	hua_gb_mode_pdp_modif_ tab.s4dsyfnvr4bs1t1st4e5rx htla	INTEG ER	#	Number of successes of GGSN-initiated requests for PDP context modification.	Sum	hustrafbh , Sum
GGSN_init_P DP_context_m odify	hua_gb_mode_pdp_modif_ tab.v1lxlw0svabpmcoixbw 4fwmd20	INTEG ER	#	Number of GGSN-initiated requests for	Sum	hustrafbh , Sum

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				PDP context modification.		
MS_init_PDP_context_modify_suc	hua_gb_mode_pdp_modify_tab.x16fsicviycmurp3mafvslibi6m	INTEGER	#	Number of successes of MS-initiated requests for PDP context modification.	Sum	hustrafbh , Sum
MS_init_PDP_context_modify	hua_gb_mode_pdp_modify_tab.t6j5qgbp4mbcws1pqqa xhaibdf	INTEGER	#	Number of MS-initiated requests for PDP context modification.	Sum	hustrafbh , Sum
SGSN_init_PDP_context_modify_suc	hua_gb_mode_pdp_modify_tab.rbrfy0cojwbmbvb2yeqgr5l0amr	INTEGER	#	Number of successes of SGSN-initiated PDP context modification	Sum	hustrafbh , Sum
SGSN_init_PDP_context_modify	hua_gb_mode_pdp_modify_tab.uf1nabbwgbbfsgs2vr1hba0xq4	INTEGER	#	Number of SGSN-initiated requests for PDP context modification.	Sum	hustrafbh , Sum

### 6.31.21SGSN.Huawei.GPRS.Gb\_Mode\_Radio\_Resource

Gb Mode Radio Resource measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Att_avg_SIM_user_number	hua_gb_mode_radio_tab.saan6ex3xa2airvh002ind6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Average number of Gb mode attached SIM user	Average	Average, hustrafbh , Maximum, Minimum, Sum
Att_avg_USIM_user_number	hua_gb_mode_radio_tab.saan6f03xa2airvh002ind6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R0	Average	Average, hustrafbh ,

				10.C01SPC022 :Average number of Gb mode attached USIM user		Maximum, Minimum, Sum
Average_users_ at_READY_ status	hua_gb_mode_radio_tab.y 312js3ihvby2tsc5cnqiej1 u	FLOAT	#	The average number of subscribers in the "READY" status within the SGSN area.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Average_users_ at_STANDBY_ status	hua_gb_mode_radio_tab.t 6ypbsryiacjyr1bg65dtfad6 4	FLOAT	#	The average number of subscribers in the "STANDBY" status within the SGSN area	Average	Average, hustrafbh , Maximum, Minimum, Sum
Avg_Att_user_ connectPLMN	hua_gb_mode_radio_tab.s aan6et3xa2airvh002ind6w bg	INTEGER	#	The arithmetical mean of the number of attached subscribers of connect PLMN within this SGSN.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Avg_Att_user_ homePLMN	hua_gb_mode_radio_tab.s aan6en3xa2airvh002ind6w bg	INTEGER	#	The arithmetical mean of the number of attached subscribers of home PLMN within this SGSN	Average	Average, hustrafbh , Maximum, Minimum, Sum
Gb_mode_aver	hua_gb_mode_radio_tab.u	INTEGER	second	Mean attaching	Average	Average,

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age_attach_duration	21s5fyxwjbards55hi5b3fle1	ER	s	duration of 2G users within the measurement period.		hustrafbh , Maximum, Minimum, Sum
Gb_mode_average_attached_users	hua_gb_mode_radio_tab.uxmlrgmh5ecy3rto0kwsjx0odo	INTEGER	#	The arithmetical mean of the number of attached subscribers within this SGSN.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Gb_mode_max_attached_users	hua_gb_mode_radio_tab.xbgoa3nrdjbknuv11qxkiheuf0	INTEGER	#	The recorded maximum value of the number of attached subscribers within this SGSN.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Gb_mode_new_attach_success_times	hua_gb_mode_radio_tab.hu2hrd0opb0btnwvx5n4o35n6	INTEGER	#	Number of successful GPRS attachment procedures.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Gb_mode_realtime_attached_users	hua_gb_mode_radio_tab.ym3vly5b3wb36bpqueccn2hat3	INTEGER	#	The realtime number of 2G attached subscribers within this SGSN.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Gb_mode_total_attach_duration	hua_gb_mode_radio_tab.sjvkh5svj3boqcnnx4gkyl3nf v	INTEGER	seconds	Total attached time length of the 2G subscribers in the measuring period.	Average	Average, hustrafbh , Maximum, Minimum, Sum

Max_Att_user_connectPLMN	hua_gb_mode_radio_tab.saan6ev3xa2airvh002ind6wbg	INTEGER	#	The recorded maximum value of the number of attached subscribers of connect PLMN withinThis SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Max_Att_user_homePLMN	hua_gb_mode_radio_tab.saan6ep3xa2airvh002ind6wbg	INTEGER	#	The recorded maximum value of the number of attached subscribers of home PLMN withinThis SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Max_users_at_READY_status	hua_gb_mode_radio_tab.s45b5dbfmicjicg3ojr0mdrylr	INTEGER	#	The recorded maximum number of subscribers in the "READY" status within the SGSN area.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Max_users_at_STANDBY_status	hua_gb_mode_radio_tab.x0ysye1n23cyneuh5anl1dbhai	INTEGER	#	The recorded maximum number of subscribers at in the "STANDBY" status within the SGSN area.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Number_subs_using_GEA1_encryption	hua_gb_mode_radio_tab.rq06ctqcjocdar32egphwr6kui	INTEGER	#	Number of subscribers that use GEA1 encryption	Average	Average, hustrafbh, Maximum, Minimum

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						m, Sum
Number_subs_using_GEA2_encryption	hua_gb_mode_radio_tab.rpyrnw4orbc5xbiawaetlowl5m	INTEGER	#	Number of subscribers that use GEA2 encryption	Average	Average, hustrafbh , Maximum, Minimum, Sum
Realtime_Att_user_connectPLMN	hua_gb_mode_radio_tab.saan6er3xa2airvh002ind6wb	INTEGER	#	The real-time number of 2G attached subscribers of connect PLMN within this SGSN.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Realtime_Att_user_homePLMN	hua_gb_mode_radio_tab.saan6el3xa2airvh002ind6wb	INTEGER	#	The real-time number of 2G attached subscribers of home PLMN within this SGSN	Average	Average, hustrafbh , Maximum, Minimum, Sum
Realtime_users_at_READY_status	hua_gb_mode_radio_tab.ykhlivc5jmbs6c4iim4sn34kvl	INTEGER	#	The realtime number of subscribers in the "READY" status within the SGSN area.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Realtime_users_at_STANDBY_status	hua_gb_mode_radio_tab.xv0m0pmjfpbn2tdgldmr02kfbw	INTEGER	#	The realtime number of subscribers in the "STANDBY" status within the SGSN area.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Subs_using_GEA3_encryption	hua_gb_mode_radio_tab.saan6f23xa2airvh002ind6wb	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:the number of subscribers	Average	Average, hustrafbh , Maximum, Minimum

				using GEA3 encryption		m, Sum
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### 6.31.22SGSN.Huawei.GPRS.Gb\_Mode\_Security

Gb Mode Security measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Authentication_success	$100 * \frac{\{\text{Authentication\_success}\}}{\{\text{Authentication\_request}\}}$	FLOAT	%	Percentage of successful authentications within this SGSN.	Average	Average, hustrafbh
%_Identity_success	$100 * \frac{\{\text{Identity\_success}\}}{\{\text{Identity\_request}\}}$	FLOAT	%	Percentage of successful identification processes initiated by this SGSN.	Average	Average, hustrafbh
%_IMEI_check_response	$100 * \frac{\{\text{IMEI\_check\_response}\}}{\{\text{IMEI\_check\_request}\}}$	FLOAT	%	Percentage of successful IMEI check processes initiated by this SGSN.	Average	Average, hustrafbh
%_P_TMSI_reallocation_success	$100 * \frac{\{\text{P\_TMSI\_reallocation\_success}\}}{\{\text{P\_TMSI\_reallocation\_request}\}}$	FLOAT	%	Percentage of successfully executed P-TMSI reallocation processes within this SGSN.	Average	Average, hustrafbh
%_Security_mode_control_success	$100 * \frac{\{\text{Security\_mode\_control\_success}\}}{\{\text{Security\_mode\_control\_request}\}}$	FLOAT	%	Percentage of successful ciphering mode control procedures initiated by this	Average	Average, hustrafbh

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				SGSN.		
Auth_and_cypher_reject	hua_gb_mode_security_tab .xnjjd0riq3ceuccc2dk25ainam	INTEGER	#	Number of "AUTHENTICATION AND CIPHERING REJECT" messages sent.	Sum	hustrafbh , Sum
Auth_and_cypher_response	hua_gb_mode_security_tab .wqo5dkpqegbordwmcmx214sdh3	INTEGER	#	Number of "AUTHENTICATION AND CIPHERING RESPONSE" messages received.	Sum	hustrafbh , Sum
Authentication_request	hua_gb_mode_security_tab .rxsnogcl5sctjtosewac33oe po	INTEGER	#	Number of authentications started within this SGSN.	Sum	hustrafbh , Sum
Authentication_success	hua_gb_mode_security_tab .wnvfytq01bh4u2thhudntv 01b	INTEGER	#	Number of successful authentications within this SGSN.	Sum	hustrafbh , Sum
Gb_mode_SIM_authentication_request_times	hua_gb_mode_security_tab .tl63xpqny42ahc3lr02incnmdw	INTEGER	#	Number of authentications started withinThis SGSN.	Sum	hustrafbh , Sum
Gb_mode_SIM_authentication_success_times	hua_gb_mode_security_tab .tl63xpsny42ahc3lr02incnmdw	INTEGER	#	Number of successful authentications withinThis SGSN.	Sum	hustrafbh , Sum
Gb_mode_USIM_authentication_request_times	hua_gb_mode_security_tab .tl63xpuny42ahc3lr02incnmdw	INTEGER	#	Number of authentications started withinThis SGSN.	Sum	hustrafbh , Sum
Gb_mode_USIM_authentication_success_time	hua_gb_mode_security_tab .tl63xpwny42ahc3lr02incnmdw	INTEGER	#	Number of successful authentications	Sum	hustrafbh , Sum

s				withinThis SGSN.		
Identity_req_I MEI_IMEISV	hua_gb_mode_security_tab .saan6eh3xa2airvh002ind6 wbq	INTEG ER	#	Number of requests for identification initiated by this SGSN(with IMEI or IMEISV).	Sum	hustrafbh , Sum
Identity_request	hua_gb_mode_security_tab .uqrld1m6xrb2ujqs4p6du mrb3	INTEG ER	#	Number of requests for identification initiated by this SGSN.	Sum	hustrafbh , Sum
Identity_succ_I MEI_IMEISV	hua_gb_mode_security_tab .saan6ej3xa2airvh002ind6 wbq	INTEG ER	#	Number of successful identification processes initiated by this SGSN(with IMEI or IMEISV).	Sum	hustrafbh , Sum
Identity_succes s	hua_gb_mode_security_tab .rokvmevni5cpfsncxqg2mh mq62	INTEG ER	#	Number of successful identification processes initiated by this SGSN.	Sum	hustrafbh , Sum
IMEI_check_re quest	hua_gb_mode_security_tab .uertqeam1ycyurblbcrhgsn y66	INTEG ER	#	Number of IMEI check processes initiated by this SGSN.	Sum	hustrafbh , Sum
IMEI_check_re sponse	hua_gb_mode_security_tab .tbskf55ceiby0s5nld0mchs 6vx	INTEG ER	#	Number of successful IMEI check processes initiated by this SGSN.	Sum	hustrafbh , Sum
P_TMSI_reallo cation_request	hua_gb_mode_security_tab .u2pi5f5xjnby2eqpa4phaap	INTEG ER	#	Number of requests for P-	Sum	hustrafbh , Sum

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	qvx			TMSI reallocation displayed within this SGSN or included in the location update process.		
P_TMSI_reallocation_success	hua_gb_mode_security_tab .xef5d1ppgpbpsct4lxvt35f0ma	INTEGER	#	Number of successfully executed P-TMSI reallocation processes within this SGSN.	Sum	hustrafbh , Sum
Security_mode_control_request	hua_gb_mode_security_tab .snq30ldsetbase6jsiw5fplrw1	INTEGER	#	Number of requests for ciphering mode control initiated by this SGSN.	Sum	hustrafbh , Sum
Security_mode_control_success	hua_gb_mode_security_tab .whkiumnkwwbktb5yfgsqhjm3sy	INTEGER	#	Number of successful ciphering mode control procedures initiated by this SGSN.	Sum	hustrafbh , Sum

### 6.31.23SGSN.Huawei.GPRS.Gb\_Mode\_Service\_Handover

Gb Mode Service Handover measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
HO_to_WCDMA_shall_not_be_performed	hua_gb_mode_serv_ho_tab.xmuqeedtykblsd3ffrpo15byq1	INTEGER	#	Number of Gb service handovers that the result is "shall not be" handed over to 3G UNTRAN.	Sum	hustrafbh , Sum
HO_to_WCDMA_should_be	hua_gb_mode_serv_ho_tab.xrwktwmbr0cybr0kxa1k	INTEGER	#	Number of Gb service	Sum	hustrafbh , Sum

_performed	a6ocd6			handovers that the result is "should be" handed over to 3G UNTRAN.		
HO_to_WCDMA_should_not_be_performed	hua_gb_mode_serv_ho_tab.u6epiajry0crnsxkc054g6m2th	INTEGER	#	Number of Gb service handovers that the result is "should not be" handed over to 3G UNTRAN.	Sum	hustrafbh, Sum

### 6.31.24SGSN.Huawei.GPRS.Gb\_Mode\_SM\_L3

Gb Mode SM L3 measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
L3_SM_msg_rec	hua_gb_mode_sm_l3_tab.vssjiob6a3bribh6p1niguv6r6	INTEGER	#	Number of L3 signalling received by SGSN 2G SM.	Sum	hustrafbh, Sum
L3_SM_msg_sent	hua_gb_mode_sm_l3_tab.tmbd1vgvuvbvru3p0cy15bpwe3	INTEGER	#	Number of L3 signalling sent by SGSN 2G SM.	Sum	hustrafbh, Sum

### 6.31.25SGSN.Huawei.GPRS.Gb\_Mode\_SM\_Resource

Gb Mode SM Resource measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Act_PDP_context_success	hua_gb_mode_sm_resource_tab.x1vbdva4wybakdes4	INTEGER	#	Number of successful 3G	Average	Average, hustrafbh

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	dfqoyumca			PDP contexts activation.		, Maximum, Minimum, Sum
Ave_act_PDP_Sessions_background	hua_gb_mode_sm_resource_tab.r4x0323ea1b4le1u3vwhhlssfe	INTEGER	#	The arithmetical mean of active PDP contexts for QoS class Background.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Ave_act_PDP_Sessions_conversation	hua_gb_mode_sm_resource_tab.wksdr6svkjcgfeuhbnumk3hi3j	INTEGER	#	The arithmetical mean of active PDP contexts for QoS class Conversation.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Ave_act_PDP_Sessions_interactive	hua_gb_mode_sm_resource_tab.slieqpore3cxwr0dhfiix5mol2	INTEGER	#	The arithmetical mean of active PDP contexts for QoS class Interactive.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Ave_act_PDP_Sessions_streaming	hua_gb_mode_sm_resource_tab.yh3p4avujqch2sbi2viiqvjiwg	INTEGER	#	The arithmetical mean of active PDP contexts for QoS class Streaming.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Average_act_PDP_context	hua_gb_mode_sm_resource_tab.s2hk6siahyguhdbdtbn6behkpx	INTEGER	#	The maximum recorded number of active PDP contexts .	Average	Average, hustrafbh, Maximum, Minimum, Sum
Average_PDP_act_duration	hua_gb_mode_sm_resource_tab.sawjioquubcfndk2qf	INTEGER	seconds	Mean activation	Average	Average, hustrafbh

	kqfuywv2			duration of 3G sessions within the measurement period.		, Maximum, Minimum, Sum
Average_users_with_act_PDP_context	hua_gb_mode_sm_resource_tab.ymsbjgvp0wbioshelcwy2hwh2n	INTEGER	#	The arithmetical mean of mobile users with PDP context activated (i.e. the users are able to transmit/receive GPRS packet data).	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_user_with_PDP_onnectPLMN	hua_gb_mode_sm_resource_tab.saan6lb3xa2airvh002ind6wbg	INTEGER	#	The arithmetical mean number of connect PLMN subscribers with activated PDP context.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_avg_act_PDP_of_connectPLMN	hua_gb_mode_sm_resource_tab.saan6lh3xa2airvh002ind6wbg	INTEGER	#	The arithmetical mean of connect PLMN active PDP contexts.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_max_act_PDP_of_connectPLMN	hua_gb_mode_sm_resource_tab.saan6lj3xa2airvh002ind6wbg	INTEGER	#	The maximum recorded number of connect PLMN active PDP contexts.	Average	Average, hustrafbh, Maximum, Minimum, Sum

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Max_act_PDP_context	hua_gb_mode_sm_resource_tab.v5fjq2m5osch3ceivmbqb32hkv	INTEGER	#	Maximum recorded number of the active PDP contexts.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Max_user_with_PDP_connect_PLMN	hua_gb_mode_sm_resource_tab.saan6ld3xa2airvh002ind6wbg	INTEGER	#	The maximum recorded number of connect PLMN subscribers with activated PDP context.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Max_users_with_act_PDP_context	hua_gb_mode_sm_resource_tab.ygdt0t65eqcevt1rlle505n3r4	INTEGER	#	The maximum recorded number of mobile users with PDP context activated (i.e. the users are able to transmit/receive GPRS packet data).	Average	Average, hustrafbh, Maximum, Minimum, Sum
Realtime_act_PDP_connectPLMN	hua_gb_mode_sm_resource_tab.saan6lf3xa2airvh002ind6wbg	INTEGER	#	The real-time number of connect PLMN activated PDP contexts	Average	Average, hustrafbh, Maximum, Minimum, Sum
Realtime_act_PDP_context	hua_gb_mode_sm_resource_tab.v55ff4ba0hcyhuv4ya1elh6evt	INTEGER	#	The arithmetical mean of active PDP contexts.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Realtime_user_PDP_connectPLMN	hua_gb_mode_sm_resource_tab.saan6l63xa2airvh002ind6wbg	INTEGER	#	The real-time number of connect PLMN	Average	Average, hustrafbh,

				subscribers with activated PDP context.		Maximum, Minimum, Sum
Realtime_users_with_act_PDP_context	hua_gb_mode_sm_resource_tab.w0crjnpahchcelimwt4cpid35	INTEGER	#	Real-time number of subscribers with activated PDP context within This SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Total_PDP_act_duration	hua_gb_mode_sm_resource_tab.ykqd2un0hlcmoeaux3cjgf4q3	INTEGER	seconds	Total number of 2G sessions ever activated within the measurement period.	Average	Average, hustrafbh, Maximum, Minimum, Sum

### 6.31.26SGSN.Huawei.GPRS.Gb\_Mode\_User\_Access\_Reject

Gb Mode User Access Reject measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
High_level_user_access_reject	hua_gb_mode_user_reject_tab.xoqx3bduujbqgr3xaeabvd5v2s	INTEGER	#	Number of times that the PDP context activation is rejected for high class users in Gb mode.	Sum	hustrafbh, Sum
Low_level_user_access_reject	hua_gb_mode_user_reject_tab.xgndtvhssfbyru5bbslatxngt	INTEGER	#	Number of times that the PDP context activation is rejected for low class users in	Sum	hustrafbh, Sum

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				Gb mode.		
Normal_user_access_reject	hua_gb_mode_user_reject_tab.ts3g30eagpbdcuvoc10dneu2uo	INTEGER	#	Number of times that the PDP context activation is rejected for normal class users in Gb mode.	Sum	hustrafbh, Sum

### 6.31.27SGSN.Huawei.GPRS.GTP\_Bearer

GTP Bearer measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
GTP_C_path_down	hua_gtp_bearer_tab.v2tppiryrcv6enbw1saje3ub2	INTEGER	#	Number of GTP path interrupts.	Sum	hustrafbh, Sum
GTP_C_path_numbers	hua_gtp_bearer_tab.xwqsfga0o2b5jsqbenemypf2e4	FLOAT	#	The average number of GTP-C path.	Average	Average, hustrafbh, Maximum, Minimum, Sum
GTP_C_peer_restart	hua_gtp_bearer_tab.vjmejn3ka5bxbe205b262qqrmy	INTEGER	#	Number of the peer end of GTP path restarts.	Sum	hustrafbh, Sum

### 6.31.28SGSN.Huawei.GPRS.GTP\_Message\_Processing

GTP Message Processing measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Session_Update_Request_success_rec	100 * {Session_Update_Request_success_rec}/ {Session_Update_Request}	FLOAT	%	Percentage of session update acknowledge messages	Average	Average, hustrafbh

	s_sent}			received from GGSN.		
Error_GTP_C_Message_pkts_rec	hua_gtp_mess_process_tab.yhydikieghbwttdfdggbqsvh	INTEGER	#	Number of invalid packets received through the Gn/Gp interface.	Sum	hustrafbh, Sum
GGSN_GTPC_V0_path_numbers	hua_gtp_mess_process_tab.saan6bd3xa2airvh002ind6wbq	INTEGER	#	GGSN GTPC V0 path numbers	Average	Average, hustrafbh, Maximum, Minimum, Sum
GGSN_GTPC_V1_path_numbers	hua_gtp_mess_process_tab.saan6bf3xa2airvh002ind6wbq	INTEGER	#	GGSN GTPC V1 path numbers	Average	Average, hustrafbh, Maximum, Minimum, Sum
GTP_C_data_bytes_rec	hua_gtp_mess_process_tab.xbheyvtsh5cwmb516k53rk34h0	INT8	bytes	GTP-C message traffic received from GGSN.	Sum	hustrafbh, Sum
GTP_C_data_bytes_sent	hua_gtp_mess_process_tab.tsmk2ni35nclsdogik4q4qtrc5	INT8	bytes	GTP-C message traffic sent to GGSN.	Sum	hustrafbh, Sum
GTP_C_data_kbytes_Processed_Peak_throughput	hua_gtp_mess_process_tab.w5jkix2rhmc2e2bi1edt05qn5	INT8	KByte s/s	Maximum recorded value of packets processed throughput over Gn interface .	Average	Average, hustrafbh, Maximum, Minimum, Sum
GTP_C_data_k	hua_gtp_mess_process_tab	INT8	KByte	GTP-C	Average	Average,

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bytes_Processed_throughput	.u1kp63vgwjbwpuwurgsudmlb0e		s	message traffic sent through Gn/Gp interface.		hustrafbh , Maximum, Minimum, Sum
GTP_C_data_kbytes_rec_from_Gn_Gp	hua_gtp_mess_process_tab.x5kdqscovobjyc00ltagonqj1l	INT8	KBytes	GTP-C message traffic received through Gn/Gp interface.	Sum	hustrafbh , Sum
GTP_C_data_kbytes_sent_to_Gn_Gp	hua_gtp_mess_process_tab.tjbnp0vutkc1teasi2pf2ivlgx	INT8	KBytes	GTP-C message traffic sent through Gn/Gp interface.	Sum	hustrafbh , Sum
GTP_C_data_pkts_rec	hua_gtp_mess_process_tab.xaamshpvx1bhitnuivmjsj0xvo	INTEGER	#	Number of GTP-C messages received from GGSN.	Sum	hustrafbh , Sum
GTP_C_data_pkts_sent	hua_gtp_mess_process_tab.vneegvue6fb0xb5f2p0xibemfo	INTEGER	#	Number of GTP-C messages sent to GGSN.	Sum	hustrafbh , Sum
GTP_C_Message_pkts_Peak_Processed	hua_gtp_mess_process_tab.u4y6vndugrcsnrvf0umw4m2coi	INT8	Packet s/s	Peak number of GTP-C message packets processed via Gn interface. The message packets here include maintenance message packet and service message packet.	Average	Average, hustrafbh , Maximum, Minimum, Sum
GTP_C_Message	hua_gtp_mess_process_tab	INTEGER	#	Number of	Sum	hustrafbh

ge_pkts_Processed	.rea4l2q3lybigutt1v3n0xyy4b	ER		GTP-C message packets processed via Gn interface. The message packets here include maintenance message packet and service message packet.		, Sum
GTP_C_Message_pkts_rec	hua_gtp_mess_process_tab.ttualcxhmbykblhiptmep15yb	INTEGER	#	Total number of GTP-C message packets received via Gn interface.	Sum	hustrafbh, Sum
GTP_C_Message_pkts_sent	hua_gtp_mess_process_tab.wek4uonioacobjbopxmq4i5qfoc	INTEGER	#	Total number of GTP-C message packets send via Gn interface.	Sum	hustrafbh, Sum
GTP_SGSN_Context_Acknowledges_rec	hua_gtp_mess_process_tab.x3mqcbieqpbgvemswi43lm4fcw	INTEGER	#	Number of SGSN context acknowledge messages received through the Gn/Gp interface.	Sum	hustrafbh, Sum
GTP_SGSN_Context_Acknowledges_sent	hua_gtp_mess_process_tab.upnainibbucn2todfl2fayqy06	INTEGER	#	Number of SGSN context acknowledge messages sent through the	Sum	hustrafbh, Sum

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				Gn/Gp interface.		
GTP_SGSN_Context_requests_rec	hua_gtp_mess_process_tab.ytuo4mjf5ebg4esbgp0axhgymj	INTEGER	#	Number of SGSN context request messages received through the Gn/Gp interface.	Sum	hustrafbh , Sum
GTP_SGSN_Context_Requests_sent	hua_gtp_mess_process_tab.wrdb22k55sb5uuse02wao uaneg	INTEGER	#	Number of SGSN context request messages sent through the Gn/Gp interface.	Sum	hustrafbh , Sum
GTP_SGSN_Context_Responses_rec	hua_gtp_mess_process_tab.yvvtbxybp3briscyonmjdik2gw	INTEGER	#	Number of SGSN context response messages received through the Gn/Gp interface.	Sum	hustrafbh , Sum
GTP_SGSN_Context_Responses_sent	hua_gtp_mess_process_tab.xj5jtayjp1bn4cmtl54kvjb6uh	INTEGER	#	Number of SGSN context response messages sent through the Gn/Gp interface.	Sum	hustrafbh , Sum
Gtp_Version_Not_Supported_PDU_s_rec_from_Gn_Gp	hua_gtp_mess_process_tab.u3ynhiidrubxasq0sbeaqck4hi	INTEGER	#	Number of "GTP version not supported" messages received through the Gn/Gp interface.	Sum	hustrafbh , Sum
Gtp_Version_Not_Supported_PDU_s	hua_gtp_mess_process_tab.vkepj4swdgcgv5bp6wihr5ll	INTEGER	#	Number of "GTP version	Sum	hustrafbh , Sum

DUs_sent_to_Gn_Gp	g21			not supported" messages sent through the Gn/Gp interface.		
Location_management_msg_pkts_rec	hua_gtp_mess_process_tab.wfbxtpplyhct4cq220gdx2nccf	INTEGER	#	Number of location management packets received through the Gn/Gp interface.	Sum	hustrafbh, Sum
Location_management_msg_pkts_sent	hua_gtp_mess_process_tab.w3tnyobdpibq3rpaiodsiqy6dt	INTEGER	#	Number of location management packets sent through the Gn/Gp interface.	Sum	hustrafbh, Sum
Mobile_management_msg_pkts_rec	hua_gtp_mess_process_tab.rayqbvidv1cx0bxt44oog0rdhc	INTEGER	#	Number of mobile management packets received through the Gn/Gp interface.	Sum	hustrafbh, Sum
Mobile_management_msg_pkts_sent	hua_gtp_mess_process_tab.yt1c14rhc3cxhtdhlkd4mavee3	INTEGER	#	Number of mobile management packets sent through the Gn/Gp interface.	Sum	hustrafbh, Sum
Path_management_msg_pkts_rec	hua_gtp_mess_process_tab.ry3xacpwg5bqnbhkwlj262k16l	INTEGER	#	Number of path management	Sum	hustrafbh, Sum

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				packets received through the Gn/Gp interface		
Path_management_msg_pkts_sent	hua_gtp_mess_process_tab.xey56u1hmlcj2d4ca13lmc cy3n	INTEGER	#	Number of path management packets sent through the Gn/Gp interface	Sum	hustrafbh , Sum
Pkts_discarded_due_buffer_overflow	hua_gtp_mess_process_tab.wbvf55o2l2b22s5vfpowjg 5kn1	INTEGER	#	Number of packets discarded due to buffer overflow.	Sum	hustrafbh , Sum
Protocol_errors_msg_too_short	hua_gtp_mess_process_tab.rkgvi4lroicymtwjlnmnmy pphs	INTEGER	#	Number of messages with too short GTP header received by SGSN.	Sum	hustrafbh , Sum
Protocol_errors_msg_unexpected_msg	hua_gtp_mess_process_tab.s1cfwjn2ekbmtuyvlbr2uju s43	INTEGER	#	Number of unexpected messages received by SGSN.	Sum	hustrafbh , Sum
Protocol_errors_msg_unknown_or_erroneous_header	hua_gtp_mess_process_tab.skqodg53yscljurdidcdbduf en	INTEGER	#	Number of unknown messages or messages with erroneous GTP header received by SGSN.	Sum	hustrafbh , Sum
Session_msg_pkts_rec	hua_gtp_mess_process_tab.svmuhtmywfb1tumfotixd nnvi	INTEGER	#	Number of session message received through Gn/Gp	Sum	hustrafbh , Sum

				interface.		
Session_msg_pkts_sent	hua_gtp_mess_process_tab.tw4wmp40usboiebltqjgl66pop	INTEGER	#	Number of session message sent through Gn/Gp interface.	Sum	hustrafbh, Sum
Session_Update_Request_success_rec	hua_gtp_mess_process_tab.umi3t4tgocbxqevpt5pg5x2a0c	INTEGER	#	Number of session update acknowledge messages received from GGSN.	Sum	hustrafbh, Sum
Session_Update_Requests_sent	hua_gtp_mess_process_tab.ym12oaiuhlbb6tsk5kp2w1m0e2	INTEGER	#	Number of session update request messages sent to GGSN.	Sum	hustrafbh, Sum
SG_GTPC_V0_path_numbers	hua_gtp_mess_process_tab.saan6b63xa2airvh002ind6wbq	INTEGER	#	SGSN GTPC V0 path numbers	Average	Average, hustrafbh, Maximum, Minimum, Sum
SG_GTPC_V1_path_numbers	hua_gtp_mess_process_tab.saan6bb3xa2airvh002ind6wbq	INTEGER	#	SGSN GTPC V1 path numbers	Average	Average, hustrafbh, Maximum, Minimum, Sum

### 6.31.29SGSN.Huawei.GPRS.GTP\_System\_NTP

GTP System NTP measurement

KPI Name	Expression	Data	Units	Description	Default	Other
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		Type			Aggregator	Aggregators
Invalid_NTP_pkts_rec	hua_gtp_system_ntp_tab.xqi2dhqr0ncdgeeyjpptutyxqx	INTEGER	#	Number of invalid NTP packets received.	Sum	hustrafbh , Sum
NTP_pkts_rec	hua_gtp_system_ntp_tab.xhwdg60mimcjm5vvus2e1iqia	INTEGER	#	Number of NTP packets received.	Sum	hustrafbh , Sum
NTP_queries_on_server_non_response	hua_gtp_system_ntp_tab.t3g4cafbfecgfb3twm23aos1c1	INTEGER	#	Number of times SGSN does not receive the response message from the NTP server.	Sum	hustrafbh , Sum
NTP_reports_to_update_system_times	hua_gtp_system_ntp_tab.sildp351wgccke3glvtgj1i1mw	INTEGER	#	Number of request for system time update by the NTP module.	Sum	hustrafbh , Sum
NTP_request_pkt_sent	hua_gtp_system_ntp_tab.sumvqcrkscsadi16qaqi4etf	INTEGER	#	Number of NTP request packets sent.	Sum	hustrafbh , Sum

### 6.31.30SGSN.Huawei.GPRS.GTPU\_Bearer

GTPU Bearer measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
_3G_DL_data_sent_to_RNC_average_pkts	hua_gtpu_bearer_tab.tjgqta t33octkbg35rsmcb5px	FLOAT	Kbytes/s	The peak rate of the uplink data packet sent from the RNC (including the protocol head) (unit: kbps).	Average	Average, hustrafbh , Maximum, Minimum, Sum
_3G_DL_data_sent_to_RNC_peak_pkts	hua_gtpu_bearer_tab.wl0545yfambokc3mm3bfy0wc2a	FLOAT	Kbytes/s	The peak rate of the uplink data packet sent	Average	Average, hustrafbh ,

				from the RNC (including the protocol head) (unit: kbps).		Maximum, Minimum, Sum
_3G_UL_data_from_RNC_average_pkts	hua_gtpu_bearer_tab.tsuccuv2uxbesbkra2x2m1a1o0	FLOAT	Kbytes/s	The average rate of the downlink data packet sent from the RNC (including the protocol head) (unit: Kbps).	Average	Average, Maximum, Minimum, Sum
_3G_UL_data_from_RNC_peak_pkts	hua_gtpu_bearer_tab.tygq5qmkhqbppc53j15p3ax2wr	FLOAT	Kbytes/s	The peak rate of the downlink data packet sent from the RNC (including the protocol head) (unit: kbps).	Average	Average, Maximum, Minimum, Sum
DL_data_kbytes_sent_to_RNC	hua_gtpu_bearer_tab.y6trjqb2qfcqjdd6xnj3bko2lg	INT8	KBytes/s	The kbytes of the downlink data packets (including protocol header) transmitted to RNC.	Sum	Maximum, Sum
DL_data_kbytes_sent_to_SNDP	hua_gtpu_bearer_tab.ycly6io0sdbtceey33hrfvhtse	INT8	KBytes/s	The Kbytes of downlink data packets (including protocol header) transmitted to the SNDP layer.	Sum	Maximum, Sum
DL_data_pkts_sent_to_RNC	hua_gtpu_bearer_tab.vhv5kf0qfvbh5dcdbep3rh1jvr	INT8	#	Number of downlink data	Sum	Maximum, Sum

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				packets transmitted to RNC.		
DL_data_pkts_sent_to_SNDP	hua_gtpu_bearer_tab.rfknvfmitwbc1dk5ncyqc2b30k	INT8	#	Number of downlink data packets transmitted to the SNDCP layer.	Sum	hustrafbh , Sum
DL_pkts_discarded	hua_gtpu_bearer_tab.wpb1hk0m01corbblwhf4vt0qdp	INT8	#	Number of downlink packets discarded by UHPU.	Sum	hustrafbh , Sum
GTP_kbytes_received_from_GGSN	hua_gtpu_bearer_tab.ttcataohu3cokt6mkyoixxcow6	INT8	KBytes	The Kbytes of GTP packets (including protocol header) received from GGSN.	Sum	hustrafbh , Sum
GTP_kbytes_sent_to_GGSN	hua_gtpu_bearer_tab.s0x55w4ajlct2expksqedijb6q	INT8	KBytes	The Kbytes of GTP packets (including protocol header) transmitted to GGSN.	Sum	hustrafbh , Sum
GTP_pkts_received_from_GGSN	hua_gtpu_bearer_tab.wr1n453ewdca3tyov5q46u4v6q	INT8	#	Number of GTP packets received from GGSN.	Sum	hustrafbh , Sum
GTP_pkts_sent_to_GGSN	hua_gtpu_bearer_tab.v5smnf264tbaku0jdw3fvsjt3x	INT8	#	Number of GTP packets transmitted to GGSN.	Sum	hustrafbh , Sum
GTP_U_path_interrupts	hua_gtpu_bearer_tab.umtg24ucidbkqs4sf5fsc5b0mg	INT8	#	Number of times GTP-U path is interrupted.	Sum	hustrafbh , Sum
IP_msg_sent_i	hua_gtpu_bearer_tab.sxnb6	INT8	#	Number of IP	Sum	hustrafbh

n_segments	k4qyjcw6e1nfrxxmoeuq			messages to be sent as fragments.		, Sum
IP_pkts_rec	hua_gtpu_bearer_tab.tvla4bcc5yclut22br0yxuntcg	INT8	#	Total number of IP packets received by UHPU.	Sum	hustrafbh, Sum
IPV4_ACL_DENY_pkt	hua_gtpu_bearer_tab.wgeef3eec4cdjc2jblleyfpr5	INT8	#	Total number of messages whose IPv4 ACL processing result is DENY.	Sum	hustrafbh, Sum
IPv4_ACL_Permit_pkt	hua_gtpu_bearer_tab.uibk40qedwsys4mtv3cnp150s	INT8	#	Total number of messages whose IPv4 ACL processing result is PERMIT.	Sum	hustrafbh, Sum
Pkts_discarded	hua_gtpu_bearer_tab.vece3g4apncc3drs1kscsbjq02	INT8	#	Number of packets discarded by UHPU, including uplink, downlink and internal packets.	Sum	hustrafbh, Sum
Pkts_rec	hua_gtpu_bearer_tab.tlrh5no4qjcricul1fb3dqilot	INT8	#	Total number of packets received by UHPU.	Sum	hustrafbh, Sum
Pkts_sent	hua_gtpu_bearer_tab.sqggdledjwb5ju1nmvsra04rqa	INT8	#	Total number of packets transmitted by UHPU.	Sum	hustrafbh, Sum

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Protocol_error _msg_too_short	hua_gtpu_bearer_tab.whhxcnh4tkcwjewqoemuokbe4j	INT8	#	Number of GTP-U data packets with error "Message too short".	Sum	hustrafbh , Sum
Protocol_error _msg_unknown_or_errored_header	hua_gtpu_bearer_tab.uuklob4u6fcgccnkp0u62putx1	INT8	#	Number of GTP-U packets discarded due to unknown or errored header.	Sum	hustrafbh , Sum
Protocol_errors _msg_msg_unknown	hua_gtpu_bearer_tab.t4rcvvdhuxclysjdfg5ct1r4wp	INT8	#	Number of unexpected GTP packets received.	Sum	hustrafbh , Sum
Segments_rec	hua_gtpu_bearer_tab.vef2s2ubaybppt1l5od55bbtuw	INT8	#	Number of IP messages received as fragments.	Sum	hustrafbh , Sum
SNDP_kbytes_GTP_rec_from_SNDP	hua_gtpu_bearer_tab.tpjxos0ekvbiwd00ruaiyfswyw	INT8	KBytes	The kbytes of packets (including protocol header) received by GTP from the SNDP layer.	Sum	hustrafbh , Sum
SNDP_kbytes_GTP_sent_to_SNDP	hua_gtpu_bearer_tab.tqnmq5jg5oc3sran6d0rbwgh6h	INT8	KBytes	The kbytes of data packets (including protocol header) forwarded from GTP to the SNDP layer.	Sum	hustrafbh , Sum
SNDP_pkts_GTP_rec_from_SNDP	hua_gtpu_bearer_tab.y0ix05twggc1lcanjdq0app2tf	INT8	#	Number of packets received by GTP from the SNDP layer.	Sum	hustrafbh , Sum
SNDP_pkts_GTP_sent_to_SNDP	hua_gtpu_bearer_tab.sslj4tvhgdcyeci3jyr0cnpjp2	INT8	#	Number of data packets	Sum	hustrafbh , Sum

SNDP				forwarded from GTP to the SNDP layer.		
UL_data_kbytes_rec_from_RNC	hua_gtpu_bearer_tab.tomii vndfgcr6tqd66cn3tiigt	INT8	KBytes	The kbytes of the uplink data packets (including protocol header) received from RNC.	Sum	hustrafbh, Sum
UL_data_kbytes_rec_from_SNDP	hua_gtpu_bearer_tab.upv01 reasybwfsnauuugtkpw2x	INT8	KBytes	The Kbytes of the uplink data packets (including protocol header) received from the SNDP layer.	Sum	hustrafbh, Sum
UL_data_pkts_rec_from_RNC	hua_gtpu_bearer_tab.reikqr bodpc3pde2cf6q464h3m	INT8	#	Number of uplink data packets received from RNC.	Sum	hustrafbh, Sum
UL_data_pkts_rec_from_SNDP	hua_gtpu_bearer_tab.raofv c4cdhctwbyve3r62emjit	INT8	#	Number of uplink data packets received from the SNDP layer.	Sum	hustrafbh, Sum
UL_pkts_discarded	hua_gtpu_bearer_tab.ty02a afojocsgbqbomhmngxhy4	INT8	#	Number of uplink packets discarded by UHPU.	Sum	hustrafbh, Sum

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### 6.31.31SGSN.Huawei.GPRS.GTPU\_Data\_Packets\_Transfer\_per\_QoS

GTPU Data Packets Transfer per QoS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Average_background_queue_length	hua_gtpu_pkt_transf_qos_tab.urvc0hratyhgcgisedoajf4jp	INTEGER	Packets	The arithmetic mean length of incoming BACKGROUND queue.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Average_conversational_queue_length	hua_gtpu_pkt_transf_qos_tab.whqqpbfd63csjeii3m2ekqw0sj	INTEGER	Packets	The arithmetic mean length of incoming CONVERSATIONAL queue.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Average_interactive_queue_length	hua_gtpu_pkt_transf_qos_tab.wd2nrexdgecb3sdncmv6l2axli	INTEGER	Packets	The arithmetic mean length of incoming INTERACTIVE queue.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Average_streaming_queue_length	hua_gtpu_pkt_transf_qos_tab.vwacp3ds5bc50ed5i6sye434hl	INTEGER	Packets	The arithmetic mean length of incoming STREAMING queue.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Background_kbytes	hua_gtpu_pkt_transf_qos_tab.tyhfenyxbqcqeu2011sffxsvcv	INT8	#	This measurement provides bytes of received packets at the Background class (including uplink/downlink).	Sum	hustrafbh, Sum

Background_pkts	hua_gtpu_pkt_transf_qos_tab.xhvfhpvrjdchuuqt1a1c usph4c	INTEGER	#	Number of received packets at the Background class (including uplink/downlink).	Sum	hustrafbh, Sum
Conversational_kbytes	hua_gtpu_pkt_transf_qos_tab.r5absorctjb01uj60l0nx lrfij	INT8	#	This measurement provides bytes of received packets at the Conversational class (including uplink/downlink).	Sum	hustrafbh, Sum
Conversational_pkts	hua_gtpu_pkt_transf_qos_tab.sfc3f4uof3b6ydr1mwq uijndx3	INTEGER	#	Number of received packets at the Conversational class (including uplink/downlink).	Sum	hustrafbh, Sum
DL_background_kbytes	hua_gtpu_pkt_transf_qos_tab.vqxeg35v11bydcehiu5 1bukubb	INT8	#	The bytes of received packets at the BACKGROUND class (downlink).	Sum	hustrafbh, Sum
DL_background_pkts	hua_gtpu_pkt_transf_qos_tab.ssdg6vuq1lcdyuc4kdb n6twmmf	INTEGER	#	Number of received packets at the BACKGROUND class (downlink).	Sum	hustrafbh, Sum
DL_conversational_kbytes	hua_gtpu_pkt_transf_qos_tab.twpliqqp3rcy2sxicsf6a lti5t	INT8	#	The bytes of received packets at the Conversational class (downlink).	Sum	hustrafbh, Sum
DL_conversational_pkts	hua_gtpu_pkt_transf_qos_tab.x3nqwhiqibc3grueeqk 3jd1obn	INTEGER	#	Number of received packets at the	Sum	hustrafbh, Sum

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				Conversational class (downlink).		
DL_interactive_kbytes	hua_gtpu_pkt_transf_qos_tab.wn4vnxvvocbxebw3m6jkl6fiw4	INT8	#	The bytes of received packets at the INTERACTIVE class (downlink).	Sum	hustrafbh , Sum
DL_interactive_pkts	hua_gtpu_pkt_transf_qos_tab.wovvjs0cn6b2icmome nykrh4nr	INTEGER	#	Number of received packets at the INTERACTIVE class (downlink).	Sum	hustrafbh , Sum
DL_streaming_kbytes	hua_gtpu_pkt_transf_qos_tab.srh25qtkd1c11cmxe63qy16oma	INT8	#	The bytes of received packets at the STREAMING class (downlink).	Sum	hustrafbh , Sum
DL_streaming_pkts	hua_gtpu_pkt_transf_qos_tab.yv045yxosrcoiejqewfte6vvyn	INTEGER	#	Number of received packets at the STREAMING class (downlink).	Sum	hustrafbh , Sum
Interactive_kbytes	hua_gtpu_pkt_transf_qos_tab.re0n14c0o4bqjtbseff12x1tgq	INT8	#	This measurement provides bytes of received packets at the Interactive class (including uplink/downlink).	Sum	hustrafbh , Sum
Interactive_pkts	hua_gtpu_pkt_transf_qos_tab.sobfnplmufcs3tbivs1r41e6ur	INTEGER	#	Number of received packets at the Interactive class (including uplink/downlink).	Sum	hustrafbh , Sum
Max_available_background_bw	hua_gtpu_pkt_transf_qos_tab.yj4a2rvk4obterafuqic61ssas	FLOAT	KBytes/s	The highest recorded available bandwidth for BACKGROUND packets	Constant	Average, hustrafbh , Maximum, Minimum, Sum

Max_avail_conversational_bw	hua_gtpu_pkt_transf_qos_tab.t4dvhnm2lbr5debuspk0wq663	FLOAT	KBytes/s	The highest recorded available bandwidth for CONVERSATIONAL packets .	Constant	Average, hustrafbh , Maximum, Minimum, Sum
Max_avail_interactive_bw	hua_gtpu_pkt_transf_qos_tab.y5gwrfr4vcqku1q2hf0kere6d	FLOAT	KBytes/s	The highest recorded available bandwidth for INTERACTIVE packets	Constant	Average, hustrafbh , Maximum, Minimum, Sum
Max_avail_streaming_bw	hua_gtpu_pkt_transf_qos_tab.upkbrt10nvc46do44e64pq0c6r	FLOAT	KBytes/s	The highest recorded available bandwidth for STREAMING packets	Constant	Average, hustrafbh , Maximum, Minimum, Sum
Max_background_queue_length	hua_gtpu_pkt_transf_qos_tab.tsvn0kcwrxcgvb5hq35qrjbphe	INTEGER	Packets	The highest recorded length for the incoming BACKGROUND queue .	Constant	Average, hustrafbh , Maximum, Minimum, Sum
Max_conversational_queue_length	hua_gtpu_pkt_transf_qos_tab.yefmr5xrlkc33uqxnu4gwt5rch	INTEGER	Packets	The highest recorded length for the incoming CONVERSATIONAL queue .	Constant	Average, hustrafbh , Maximum, Minimum, Sum
Max_interactive_queue_length	hua_gtpu_pkt_transf_qos_tab.uksnbsmah2c24thnn1q3frkb0v	INTEGER	Packets	The highest recorded length for the incoming	Constant	Average, hustrafbh ,

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				INTERACTIVE queue .		Maximum, Minimum, Sum
Max_streaming_queue_length	hua_gtpu_pkt_transf_qos_tab.vn6f6hwc5pc0lct65fm1bhd3q	INTEGER	Packets	The highest recorded length for the incoming STREAMING queue .	Constant	Average, hustrafbh, Maximum, Minimum, Sum
MBMS_Bytes_of_Background_class_received_from_GGSN	hua_gtpu_pkt_transf_qos_tab.tl63xogny42ahc3lr02inncmdw	INT8	Kilobytes	Number of MBMS bytes of Background class received from GGSN.	Sum	hustrafbh, Sum
MBMS_Bytes_of_Streaming_class_received_from_GGSN	hua_gtpu_pkt_transf_qos_tab.tl63xocny42ahc3lr02incnmdw	INT8	Kilobytes	Number of MBMS bytes of Streaming class received from GGSN.	Sum	hustrafbh, Sum
MBMS_Packets_of_Background_class_received_from_GGSN	hua_gtpu_pkt_transf_qos_tab.tl63xoiny42ahc3lr02incnmdw	INT8	#	Number of MBMS packets of Background class received from GGSN.	Sum	hustrafbh, Sum
MBMS_Packets_of_Streaming_class_received_from_GGSN	hua_gtpu_pkt_transf_qos_tab.tl63xoeny42ahc3lr02incnmdw	INT8	#	Number of MBMS packets of Streaming class received from GGSN.	Sum	hustrafbh, Sum
Overflowed_background_kbytes	hua_gtpu_pkt_transf_qos_tab.ytrcr6fm6mc2fresv45wom3c0h	INT8	#	The Kbytes of packets discarded due to overflow of the BACKGROUND class message buffer area (including uplink/downlink).	Sum	hustrafbh, Sum
Overflowed_b	hua_gtpu_pkt_transf_qos_	INTEGER	#	Number of	Sum	hustrafbh

ackground_pkts	tab.s6hlbfu6dvcu2daii3ri6fdqpg	ER		packets discarded due to overflow of the BACKGROUND class message buffer area (including uplink/downlink).		, Sum
Overflowed_conversational_pkts	hua_gtpu_pkt_transf_qos_tab.xxj21it42tbaidon4jappyv0j6	INTEGER	#	Number of packets discarded due to overflow of the Conversational class message buffer area (including uplink/downlink).	Sum	hustrafbh, Sum
Overflowed_interactive_kbytes	hua_gtpu_pkt_transf_qos_tab.wp5bp0xamebwxtpl05lj1j2yy	INT8	#	The Kbytes of packets discarded due to overflow of the Interactive class message buffer area (including uplink/downlink).	Sum	hustrafbh, Sum
Overflowed_interactive_pkts	hua_gtpu_pkt_transf_qos_tab.wrv5ob4dlpcxybrtv4lgfkxgut	INTEGER	#	Number of packets discarded due to overflow of the Interactive class message buffer area (including uplink/downlink).	Sum	hustrafbh, Sum
Overflowed_streaming_pkts	hua_gtpu_pkt_transf_qos_tab.ubijst4j6ob6ucwnm02w6enxtt	INTEGER	#	Number of packets discarded due to overflow of the Streaming class message buffer area	Sum	hustrafbh, Sum

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				(including uplink/downlink).		
Remarkeds	hua_gtpu_pkt_transf_qos_tab.yy05vtxisubqxtq63egww1xop0	INTEGER	#	Number of packets remarked as the BACKGROUND class (uplink/downlink).	Sum	hustrafbh , Sum
Remarked_conversational_pkts	hua_gtpu_pkt_transf_qos_tab.x4i5x1vsw1bghumiyfre0dphkl	INTEGER	#	Number of packets remarked as the Conversational class ( uplink/downlink ).	Sum	hustrafbh , Sum
Remarked_interactive_pkts	hua_gtpu_pkt_transf_qos_tab.sqoydwhu0cbtpd14qe6mlbonjl	INTEGER	#	Number of packets remarked as the INTERACTIVE class (uplink/downlink ).	Sum	hustrafbh , Sum
Remarked_streaming_pkts	hua_gtpu_pkt_transf_qos_tab.yceke4mam0bdckktge0p4kltrt	INTEGER	#	Number of packets remarked as the STREAMING class (uplink/downlink ).	Sum	hustrafbh , Sum
Streaming_kbytes	hua_gtpu_pkt_transf_qos_tab.y5h4ln1savctrdh1kfrre5hf01	INT8	#	This measurement provides bytes of received packets at the Streaming class (including uplink/downlink).	Sum	hustrafbh , Sum
Streaming_pkts	hua_gtpu_pkt_transf_qos_tab.txjk0441dscvnsty354nangxo0	INTEGER	#	Number of received packets at the Streaming class (including uplink/downlink).	Sum	hustrafbh , Sum

SWITCH_background_kbytes	hua_gtpu_pkt_transf_qos_tab.ufcjd4jxy2bh2dq14knb5xkwyx	INT8	#	The bytes of received packets at the BACKGROUND class (SWITCH).	Sum	hustrafbh, Sum
SWITCH_background_pkts	hua_gtpu_pkt_transf_qos_tab.seyeyakjweccessj0x1bosueb5	INTEGER	#	Number of received packets at the BACKGROUND class (SWITCH).	Sum	hustrafbh, Sum
SWITCH_conversational_kbytes	hua_gtpu_pkt_transf_qos_tab.v5k1t1cdvbbnudiryagl0ktvfc	INT8	#	The bytes of received packets at the Conversational class (SWITCH).	Sum	hustrafbh, Sum
SWITCH_conversational_pkts	hua_gtpu_pkt_transf_qos_tab.yrlkgpgddicsos50a1hfr aaf00	INTEGER	#	Number of received packets at the Conversational class (SWITCH).	Sum	hustrafbh, Sum
SWITCH_interactive_kbytes	hua_gtpu_pkt_transf_qos_tab.t1t2p6g20tbvdb6s51i0sbtv4m	INT8	#	The bytes of received packets at the INTERACTIVE class (SWITCH).	Sum	hustrafbh, Sum
SWITCH_interactive_pkts	hua_gtpu_pkt_transf_qos_tab.xyp5rf11xhcc1u06fakymol6wt	INTEGER	#	Number of received packets at the INTERACTIVE class (SWITCH).	Sum	hustrafbh, Sum
SWITCH_streaming_kbytes	hua_gtpu_pkt_transf_qos_tab.r16r654quybthexqomu1fy43kc	INT8	#	The bytes of received packets at the STREAMING class (SWITCH).	Sum	hustrafbh, Sum
SWITCH_streaming_pkts	hua_gtpu_pkt_transf_qos_tab.wokfbxobqecitsao13na	INTEGER	#	Number of received packets	Sum	hustrafbh, Sum

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	rvgrdj			at the STREAMING class (SWITCH).		
UL_backgrou nd_kbytes	hua_gtpu_pkt_transf_qos_ tab.sv4ewedssjqasnvdm1 5kcyuu5	INT8	#	The bytes of received packets at the BACKGROUND class (uplink).	Sum	hustrafbh , Sum
UL_backgrou nd_pkts	hua_gtpu_pkt_transf_qos_ tab.uyvmdgvt6cy4c0x5j6 q2hj2vv	INTEG ER	#	Number of received packets at the BACKGROUND class (uplink).	Sum	hustrafbh , Sum
UL_conversat ional_kbytes	hua_gtpu_pkt_transf_qos_ tab.uy033aieggc3irjqoy0c 5jfkol	INT8	#	The bytes of received packets at the Conversational class (uplink).	Sum	hustrafbh , Sum
UL_conversat ional_pkts	hua_gtpu_pkt_transf_qos_ tab.u33c0xuyxxceqbvwfc 3bo3563r	INTEG ER	#	Number of received packets at the Conversational class (uplink).	Sum	hustrafbh , Sum
UL_interactiv e_kbytes	hua_gtpu_pkt_transf_qos_ tab.tplun2eteuc6gtuvt0vw ecyexa	INT8	#	The bytes of received packets at the INTERACTIVE class (uplink).	Sum	hustrafbh , Sum
UL_interactiv e_pkts	hua_gtpu_pkt_transf_qos_ tab.wceskr2gpvcu0brxfxf kibinf	INTEG ER	#	Number of received packets at the INTERACTIVE class (uplink).	Sum	hustrafbh , Sum
UL_streaming _kbytes	hua_gtpu_pkt_transf_qos_ tab.vb2mlaejtlcgorgywgrsj ywrco	INT8	#	The bytes of received packets at the STREAMING class (uplink).	Sum	hustrafbh , Sum
UL_streaming _pkts	hua_gtpu_pkt_transf_qos_ tab.tk44td3gy0cecuqhuhe xj2et3b	INTEG ER	#	Number of received packets at the	Sum	hustrafbh , Sum

				STREAMING class (uplink).		
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### 6.31.32SGSN.Huawei.GPRS.GTPU\_Data\_Packets\_Transfer

GTPU Data Packets Transfer measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
CAR_remarking_pkt_of_contrv_class	hua_gtpu_pkt_transf_tab.r5it6mwuxvbnuyknxwa5j6gb6	INTEGER	#	Number of CAR Remarking Packets for the Conversational QoS Class.	Sum	hustrafbh, Sum
CAR_remarking_pkt_of_stream_class	hua_gtpu_pkt_transf_tab.vftv2hsbrfcqme5g51o02yx0bf	INTEGER	#	Number of CAR Remarking Packets for the Streaming QoS Class.	Sum	hustrafbh, Sum
Dropped_MBMS_GTP_U_Packets_by_SGSN	hua_gtpu_pkt_transf_tab.tl63xo3ny42ahc3lr02incnmdw	INT8	#	Number of dropped MBMS packets in SGSN.	Sum	hustrafbh, Sum
Dropped_MBMS_GTP_U_Packets_due_to_invalid_MGIB	hua_gtpu_pkt_transf_tab.tl63xo5ny42ahc3lr02incnmdw	INT8	#	Number of dropped MBMS packets in SGSN due to MBMS GIB invalid.	Sum	hustrafbh, Sum
Dropped_MBMS_GTP_U_Packets_due_to_invalid_TEID	hua_gtpu_pkt_transf_tab.tl63xoany42ahc3lr02incnmdw	INT8	#	Number of dropped MBMS packets in SGSN due to MBMS TEID invalid.	Sum	hustrafbh, Sum

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Gb_mode_DL_kbytes	hua_gtpu_pkt_transf_tab.ylqsucvieobcaeffi2j4jnrqoo	INT8	KBytes	Bytes of 2G downlink packets forwarded successfully from GTP.	Sum	hustrafbh , Sum
Gb_mode_DL_pkts	hua_gtpu_pkt_transf_tab.tjjfdbhb21cyot5ihhsqcm6odv	INTEGER	#	Number of 2G downlink packets forwarded successfully from GTP.	Sum	hustrafbh , Sum
Gb_mode_han_dover_bytes	hua_gtpu_pkt_transf_tab.v111n1fsvebq0riiwmel5wdij	INT8	bytes	Bytes of 2G packets forwarded during the handover process.	Sum	hustrafbh , Sum
Gb_mode_han_dover_pkts	hua_gtpu_pkt_transf_tab.uaq00joavlbgpsjtb6jmf115ag	INTEGER	#	Number of 2G packets forwarded during the handover process.	Sum	hustrafbh , Sum
Gb_mode_UL_kbytes	hua_gtpu_pkt_transf_tab.y5vvr0fqilbcmebqaa1unly4sr	INT8	KBytes	Bytes of 2G uplink packets forwarded successfully from GTP.	Sum	hustrafbh , Sum
Gb_mode_UL_pkts	hua_gtpu_pkt_transf_tab.sp2hhgg52ebkmtawx4p0ln6lmj	INTEGER	#	Number of 2G uplink packets forwarded successfully from GTP.	Sum	hustrafbh , Sum
Gn_DL_data_pkts_dropped_buf_overload	hua_gtpu_pkt_transf_tab.ujqm6ucuwebcvrhdq0u0y3djrl	INTEGER	Packets	Number of Gn downlink data packets dropped due to buffer overload.	Sum	hustrafbh , Sum
Gn_mean_pkts	hua_gtpu_pkt_transf_tab.vxndljlw53tckdda0po6slvnn	FLOAT	Packets /s	The arithmetic mean of	Average	Average, hustrafbh

	mq			number of GTP packets processed by SGSN.		, Maximum, Minimum, Sum
Gn_mean_rec_pkts	hua_gtpu_pkt_transf_tab.ru3ftpisdbb5nblku4a1pw4paa	FLOAT	Packets /s	The arithmetic mean of number of GTP packets received from GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gn_mean_rec_throughput	hua_gtpu_pkt_transf_tab.vgmxtcr5b6bs2twts2ldnotp10	FLOAT	KBytes /s	The arithmetic mean of bytes of GTP packets received from GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gn_mean_sent_pkts	hua_gtpu_pkt_transf_tab.scw3licnagc3ksxbxt6r3d3ib0	FLOAT	Packets /s	The arithmetic mean of number of GTP packets sent to GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gn_mean_sent_throughput	hua_gtpu_pkt_transf_tab.uvsyrp43rxbyruf3e565u3xtq0	FLOAT	KBytes /s	The arithmetic mean of bytes of GTP packets sent to GGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gn_mean_throughput	hua_gtpu_pkt_transf_tab.ub4pmf4c3dckadfqn04jar30oc	FLOAT	KBytes /s	The arithmetic mean of bytes of GTP packets processed by SGSN.	Average	Average, hustrafbh, Maximum,

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						Minimum, Sum
Gn_operated_kbytes	hua_gtpu_pkt_transf_tab.wyne34o6cnccocwhe4wfok6dvu	INT8	KBytes	The bytes of GTP packets processed by SGSN.	Sum	hustrafbh, Sum
Gn_operated_pkts	hua_gtpu_pkt_transf_tab.umfokrnwn4cg4uhr243jb43ra5	INTEGER	#	Number of GTP packets processed by SGSN.	Sum	hustrafbh, Sum
Gn_peak_pkts	hua_gtpu_pkt_transf_tab.tmrxeqmthcifd42eo63wybvxx	FLOAT	Packets/s	The maximum recorded value of packets processed over Gn interface .	Constant	Average, hustrafbh, Maximum, Minimum, Sum
Gn_peak_rec_pkts	hua_gtpu_pkt_transf_tab.ueurhrflvqbkkrlilhqv23impq	FLOAT	Packets/s	The maximum recorded value of packets received over Gn interface .	Constant	Average, hustrafbh, Maximum, Minimum, Sum
Gn_peak_rec_throughput	hua_gtpu_pkt_transf_tab.xs2rnkuqs5c5dekm0bv6f2i521	FLOAT	KBytes/s	The maximum recorded value of packets received throughput over Gn interface .	Constant	Average, hustrafbh, Maximum, Minimum, Sum
Gn_peak_sent_pkts	hua_gtpu_pkt_transf_tab.u4gkbighrwbldgo2qxlfgmk0eo	FLOAT	Packets/s	The maximum recorded value of packets sent over Gn interface .	Constant	Average, hustrafbh, Maximum, Minimum, Sum
Gn_peak_sent_throughput	hua_gtpu_pkt_transf_tab.xgr3g2flucm2e4vn2nfgsu4fb	FLOAT	KBytes/s	The maximum recorded value of packets sent	Constant	Average, hustrafbh,

				throughput over Gn interface.		Maximum, Minimum, Sum
Gn_peak_throughput	hua_gtpu_pkt_transf_tab.yuildy0tlycqedclo5mmrts0se	FLOAT	KBytes/s	The maximum recorded value of packets processed throughput over Gn interface.	Constant	Average, hustrafb, Maximum, Minimum, Sum
Gn_rec_kbytes	hua_gtpu_pkt_transf_tab.xsjt36lfuncovb50lbliygxm6	INT8	KBytes	The bytes of GTP packets received from GGSN.	Sum	hustrafb, Sum
Gn_rec_pkts	hua_gtpu_pkt_transf_tab.wkdsdyxxtlcqnej616xd4ebhgs	INTEGER	#	Number of GTP packets received from GGSN.	Sum	hustrafb, Sum
Gn_sent_kbytes	hua_gtpu_pkt_transf_tab.rr22uwnghfbawr0yu51hyxm kfl	INT8	KBytes	The bytes of GTP packets sent to GGSN.	Sum	hustrafb, Sum
Gn_sent_pkts	hua_gtpu_pkt_transf_tab.r0htyu1plabgptxod6nssmhydy	INTEGER	#	Number of GTP packets sent to GGSN.	Sum	hustrafb, Sum
Gn_UL_data_pkts_dropped_buf_overload	hua_gtpu_pkt_transf_tab.t0emhki62ubrydrvqtt0blx42r	INTEGER	Packets	Number of Gn uplink data packets dropped due to buffer overload.	Sum	hustrafb, Sum
GTP_U_pkts_forwarded	hua_gtpu_pkt_transf_tab.sw2ib0tk45b51cvldjv6thh044	INTEGER	#	Number of all packets forwarded.	Sum	hustrafb, Sum
GTP_U_pkts_rec	hua_gtpu_pkt_transf_tab.u5e6hnnrcjbpfrwxlrbsf1d1b	INTEGER	#	Number of GTP-U packet received from	Sum	hustrafb, Sum

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				GSN/RNC.		
Iu_mode_DL_max_pkts	hua_gtpu_pkt_transf_tab.saan6bl3xa2airvh002indwbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Iu mode downlink max packets	Average	Average, hustrafbh, Maximum, Minimum, Sum
Iu_mode_DL_pkts	hua_gtpu_pkt_transf_tab.vf03hcfdq6chdbllurgtx0pxnjf	INTEGER	#	Number of 3G downlink packets forwarded successfully from GTP.	Sum	hustrafbh, Sum
Iu_mode_downlink_kbytes	hua_gtpu_pkt_transf_tab.yyxsc23t2xbyqcvy6m5ph21gg4	INT8	KBytes	Bytes of 3G downlink packets forwarded successfully from GTP.	Sum	hustrafbh, Sum
Iu_mode_handover_bytes	hua_gtpu_pkt_transf_tab.y5dm31hwybbnmrg6vnlblugv6u	INT8	bytes	Bytes of 3G packets forwarded during the handover process.	Sum	hustrafbh, Sum
Iu_mode_handover_pkts	hua_gtpu_pkt_transf_tab.si55cvqlsackht4k0kefe5hfm0	INTEGER	#	Number of 3G packets forwarded during the handover process.	Sum	hustrafbh, Sum
Iu_mode_UL_kbytes	hua_gtpu_pkt_transf_tab.ra62oxas4tbduktms3lcqayxcp	INT8	KBytes	Bytes of 3G uplink packets forwarded successfully from GTP.	Sum	hustrafbh, Sum
Iu_mode_UL_max_pkts	hua_gtpu_pkt_transf_tab.saan6bj3xa2airvh002indwbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022	Average	Average, hustrafbh, Maximum

				Iu mode uplink max packets		m, Minimu m, Sum
Iu_mode_UL_ pkts	hua_gtpu_pkt_transf_tab.y xlr0ihqa2b23sab114xgx3q pe	INTEG ER	#	Number of 3G uplink packets forwarded successfully from GTP.	Sum	hustrafbh , Sum
MBMS_GTP_ U_Kbytes_for warded_to_R NC	hua_gtpu_pkt_transf_tab.tl 63xnyny42ahc3lr02incnmd w	INT8	Kilobyt es	Number of bytes MBMS packets forwarded to RNC.	Sum	hustrafbh , Sum
MBMS_GTP_ U_Kbytes_rec eived_from_G GSN	hua_gtpu_pkt_transf_tab.tl 63xnuny42ahc3lr02incnmd w	INT8	Kilobyt es	Number of bytes MBMS packets from GGSN.	Sum	hustrafbh , Sum
MBMS_GTP_ U_Packets_re ceived_from_ GGSN	hua_gtpu_pkt_transf_tab.tl 63xnwny42ahc3lr02incnm dw	INT8	#	Number of MBMS packets from GGSN.	Sum	hustrafbh , Sum
MBMS_GTP_ U_Pakets_for warded_to_R NC	hua_gtpu_pkt_transf_tab.tl 63xo1ny42ahc3lr02incnmd w	INT8	#	Number of MBMS packets forwarded to RNC.	Sum	hustrafbh , Sum
Pkts_dropped _wrong_teid	hua_gtpu_pkt_transf_tab.tf uou6c4aicpheiy1russeuyd2	INTEG ER	#	Number of packets dropped due to wrong TEID.	Sum	hustrafbh , Sum
Pkts_dropped	hua_gtpu_pkt_transf_tab.y s2u2006uhc6gt4knwqfeqf3 dv	INTEG ER	#	Number of packets dropped due to error.	Sum	hustrafbh , Sum
UL_pkts_rec	hua_gtpu_pkt_transf_tab.x wiaqrclu4cd6tyihhs3yepf4 y	INTEG ER	#	Number of received uplink packets.	Sum	hustrafbh , Sum

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### 6.31.33SGSN.Huawei.GPRS.GTPU\_Gn\_Interface

GTPU Gn Interface measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Echo_req_pkts_rec_by_SGSN_on_Gn	hua_gtpu_gn_interface_tab.tav0dqihlvce1syeksjr1po4l	INTEGER	#	Number of GTP Echo Request PDUs received by SGSN on the Gn interface	Sum	hustrafbh, Sum
Echo_req_pkts_sended_by_SGSN_on_Gn	hua_gtpu_gn_interface_tab.tfphr1ioyacildqcqhcgylxrvh	INTEGER	#	Number of GTP Echo Request PDUs transmitted by SGSN on the Gn interface	Sum	hustrafbh, Sum
Error_ind_pkts_sended_by_SGSN_on_Gn	hua_gtpu_gn_interface_tab.xopxx4j6vhbutc4h0q3sx2il0t	INTEGER	#	Number of GTP Error Indication PDUs sent by SGSN	Sum	hustrafbh, Sum
GTPU_kb_dropped_due_deleted_PDP_ctxt	hua_gtpu_gn_interface_tab.udabbnlucxcxxecb34tvkfkvo2	INT8	KBytes	Number of data bytes discarded by SGSN due to the associated PDP context being deleted on Gn interface	Sum	hustrafbh, Sum
GTPU_kb_dropped_due_unknown_TEID_TID	hua_gtpu_gn_interface_tab.tct2dr1sgcccgbmpbesuask2vj	INT8	KBytes	Number of data bytes discarded by SGSN due to the TEID/TID in the GTP header being unknown on Gn interface	Sum	hustrafbh, Sum
GTPU_pkts_discarded_by_SGSN_on_Gn	hua_gtpu_gn_interface_tab.ueipngvv4ac6oedpbuiavi6ytb	INTEGER	#	Number of GTP-U packets dropped at the receiving point of the Gn	Sum	hustrafbh, Sum

				interface		
GTPU_pkts_dropped_due_to_del_PDP_ctxt	hua_gtpu_gn_interface_tab.u0sbw45511b0ss21t45dlthq0q	INTEGER	#	Number of data packets discarded by SGSN due to the associated PDP context being deleted on Gn interface	Sum	hustrafbh, Sum
GTPU_pkts_dropped_due_to_msg_short	hua_gtpu_gn_interface_tab.rughyp32kjb6pu1wg0pkjfxgv0	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being too short on Gn interface	Sum	hustrafbh, Sum
GTPU_pkts_dropped_due_to_unexp_msg	hua_gtpu_gn_interface_tab.tlgyuvtv62cv5rqs6xjvhn32og	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being expected on Gn interface	Sum	hustrafbh, Sum
GTPU_pkts_dropped_due_to_unknown_TEID_TID	hua_gtpu_gn_interface_tab.vq4ilymck4bpfwdx5xunv4nowx	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the TEID/TID in the GTP header being unknown on Gn interface	Sum	hustrafbh, Sum
GTPU_pkts_dropped_due_to_unknown_msg	hua_gtpu_gn_interface_tab.vchrgcdnqlcfwbpj4g2bopktn	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being unknown	Sum	hustrafbh, Sum

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				on Gn interface		
GTPU_pkts_received_by_SGSN_on_Gn	hua_gtpu_gn_interface_table.v1fym06po0biocvlvnteyo5i3e	INTEGER	#	Total number of GTP-U packets (including corrupted packets) received by the SGSN at the Gn interface	Sum	hustrafbh , Sum
Kbytes_of_DL_background_class_on_Gn	hua_gtpu_gn_interface_table.w5nv5n4seiby4uhn5quocg2u6u	INT8	KBytes	Number of forwarded kbytes on the Downlink for the Background QoS Class for the Gn interface	Sum	hustrafbh , Sum
Kbytes_of_DL_conv_class_on_Gn	hua_gtpu_gn_interface_table.v3x2cpen0mcs6tk0t41flu0brt	INT8	KBytes	Number of forwarded kbytes on the Downlink for the conversational QoS Class for the Gn interface.	Sum	hustrafbh , Sum
Kbytes_of_DL_interactive_class_on_Gn	hua_gtpu_gn_interface_table.wccmbwtnbrcigdrvelebs0rebd	INT8	KBytes	Number of forwarded kbytes on the Uplink for the Interactive QoS Class for the Gn interface	Sum	hustrafbh , Sum
Kbytes_of_DL_streaming_class_on_Gn	hua_gtpu_gn_interface_table.yakwx3hii2cketmb1e4pmkuvgs	INT8	KBytes	Number of forwarded kbytes on the Downlink for the Streaming QoS Class for the Gn interface.	Sum	hustrafbh , Sum
Kbytes_of_UL_background_c	hua_gtpu_gn_interface_table.js2031geu0bngdlkiscukeb	INT8	KBytes	Number of forwarded	Sum	hustrafbh , Sum

lass_on_Gn	tc4			kbytes on the Uplink for the Background QoS Class for the Gn interface		
Kbytes_of_UL_conv_class_on_Gn	hua_gtpu_gn_interface_tab.rdfxv5q0kgcwidrauwit1lqtb6	INT8	KByte s	Number of forwarded kbytes on the Uplink for the Conversational QoS Class for the Gn interface	Sum	hustrafbh, Sum
Kbytes_of_UL_Interac_class_on_Gn	hua_gtpu_gn_interface_tab.wo32i06ktnbunrijbpotpexlxa	INT8	KByte s	Number of forwarded kbytes on the Uplink for the Interactive QoS Class for the Gn interface	Sum	hustrafbh, Sum
Kbytes_of_UL_streaming_class_on_Gn	hua_gtpu_gn_interface_tab.vxknl3tjnbo6dnsjyjsx554rf	INT8	KByte s	Number of forwarded kbytes on the Uplink for the Streaming QoS Class for the Gn interface	Sum	hustrafbh, Sum
Pkts_of_DL_background_class_on_Gn	hua_gtpu_gn_interface_tab.rs4t3fmeqqb2pdwd4p6n4ky2ui	INTEGER	#	Number of forwarded packets on the Downlink for the Background QoS Class for the Gn interface	Sum	hustrafbh, Sum
Pkts_of_DL_conv_class_on_Gn	hua_gtpu_gn_interface_tab.t6x1ouiclr0skeynx50geqph	INTEGER	#	Number of forwarded packets on the Downlink for the	Sum	hustrafbh, Sum

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				Conversational QoS Class for the Gn interface.		
Pkts_of_DL_interactive_class_on_Gn	hua_gtpu_gn_interface_tab.thb03hngshck0d6mtbhcol0t5b	INTEGER	#	Number of forwarded packets on the Uplink for the Interactive QoS Class for the Gn interface	Sum	hustrafbh , Sum
Pkts_of_DL_streaming_class_on_Gn	hua_gtpu_gn_interface_tab.uhnh6gero2c2fdxhm0dj5vulbc	INTEGER	#	Number of forwarded packets on the Downlink for the Streaming QoS Class for the Gn interface.	Sum	hustrafbh , Sum
Pkts_of_UL_background_class_on_Gn	hua_gtpu_gn_interface_tab.thyjot6it4cyorfk3voboy1vi2	INTEGER	#	Number of forwarded packets on the Uplink for the Background QoS Class for the Gn interface	Sum	hustrafbh , Sum
Pkts_of_UL_conversation_class_on_Gn	hua_gtpu_gn_interface_tab.uxmvhe2ux6bvvyui2mejb0cljy	INTEGER	#	Number of forwarded packets on the Uplink for the Conversational QoS Class for the Gn interface	Sum	hustrafbh , Sum
Pkts_of_UL_interactive_class_on_Gn	hua_gtpu_gn_interface_tab.unakrreq4octiumgc40r4ver63	INTEGER	#	Number of forwarded packets on the Uplink for the Interactive QoS Class for the Gn interface	Sum	hustrafbh , Sum
Pkts_of_UL_streaming_class_on_Gn	hua_gtpu_gn_interface_tab.wlg3crl5qmcyvthe3qytdgf	INTEGER	#	Number of forwarded	Sum	hustrafbh , Sum

on_Gn	rig			packets on the Uplink for the Streaming QoS Class for the Gn interface		
QoS1_pkts_dropped_due_queue_overflow_Gn	hua_gtpu_gn_interface_tab.wef642aug5c32c542sbmh wsiyk	INTEGER	#	Number of Conversational class data packets discarded by the SGSN due to queue overflow on Gn interface	Sum	hustrafbh , Sum
QoS2_pkts_dropped_due_queue_overflow_Gn	hua_gtpu_gn_interface_tab.rc3xky26cnbk0snnfrpamx 4lqe	INTEGER	#	Number of Streaming class data packets discarded by the SGSN due to queue overflow on Gn interface	Sum	hustrafbh , Sum
QoS3_pkts_dropped_due_queue_overflow_Gn	hua_gtpu_gn_interface_tab.rfj0mi33rwc6e5bvscio2u vox	INTEGER	#	Number of Interactive class data packets discarded by the SGSN due to queue overflow on Gn interface	Sum	hustrafbh , Sum
QoS4_pkts_dropped_due_queue_overflow_Gn	hua_gtpu_gn_interface_tab.v2ac0102ocb6crc4e3oty5j h3j	INTEGER	#	Number of Background class data packets discarded by the SGSN due to queue overflow on Gn interface	Sum	hustrafbh , Sum

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### 6.31.34SGSN.Huawei.GPRS.GTPU\_Gp\_Interface

GTPU Gp Interface measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Echo_req_pkts_rec_by_SGSN_on_Gp	hua_gtpu_gp_interface_tab.t2f1n6h2pwcpurmqik1yjn3gac	INTEGER	#	Number of GTP Echo Request PDUs received by SGSN on the Gp interface	Sum	hustrafbh, Sum
Echo_req_pkts_sended_by_SGSN_on_Gp	hua_gtpu_gp_interface_tab.s31uvxderkbiwck0qpp2ixn1ti	INTEGER	#	Number of GTP Echo Request PDUs sent by SGSN on the Gp interface	Sum	hustrafbh, Sum
Error_ind_pkts_sended_by_SGSN_on_Gp	hua_gtpu_gp_interface_tab.y50tgxcgjkcnmcb35vuycpm6jq	INTEGER	#	Number of GTP Error Indication PDUs sent by SGSN	Sum	hustrafbh, Sum
GTPU_kb_dropped_due_deleted_PDP_ctxt	hua_gtpu_gp_interface_tab.wkqonjg4twcmes3ii0bwvkiyih	INT8	KBytes	Number of data bytes discarded by SGSN due to the associated PDP context being deleted on Gp interface	Sum	hustrafbh, Sum
GTPU_kb_dropped_due_unknown_TEID_TID	hua_gtpu_gp_interface_tab.ure3nqfw6vbxcroto5nfmkeaja	INT8	KBytes	Number of data bytes discarded by SGSN due to the TEID/TID in the GTP header being unknown on Gp interface	Sum	hustrafbh, Sum
GTPU_pkts_discarded_by_SGSN	hua_gtpu_gp_interface_tab.xpy4da566tccparwvjbxqxfok	INTEGER	#	Number of GTP-U packets	Sum	hustrafbh, Sum

GSN_on_Gp	023			dropped at the receiving point of the Gp interface		
GTPU_pkts_dropped_due_deleted_PDP_ctxt	hua_gtpu_gp_interface_tab.tbti3fo0y2birtgj6mrnf26d61	INTEGER	#	Number of data packets discarded by SGSN due to the associated PDP context being deleted on Gp interface	Sum	hustrafbh, Sum
GTPU_pkts_dropped_due_message_short	hua_gtpu_gp_interface_tab.yif3uhjy6nbl4ctijkc5wo4wkn	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being too short on Gp interface	Sum	hustrafbh, Sum
GTPU_pkts_dropped_due_unknown_exp_msg	hua_gtpu_gp_interface_tab.yailmu3ahabhddvgnygderm0ym	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being expected on Gp interface	Sum	hustrafbh, Sum
GTPU_pkts_dropped_due_unknown_message	hua_gtpu_gp_interface_tab.rq0s2ql3gocp5tn2vmfraehn2t	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being unknown on Gp interface	Sum	hustrafbh, Sum
GTPU_pkts_dropped_due_unknown_TEID_TID	hua_gtpu_gp_interface_tab.tkbaorv1lgcdlrhuiyc3bhcx1	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the TEID/TID	Sum	hustrafbh, Sum

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				in the GTP header being unknown on Gp interface		
GTPU_pkts_received_by_SGSN_on_Gp	hua_gtpu_gp_interface_tab.ra0cwrvip2b6wckj1qgcdr3pe	INTEGER	#	Total number of GTP-U packets (including corrupted packets) received by the SGSN at the Gp interface	Sum	hustrafbh , Sum
Kbytes_of_DL_background_class_on_Gp	hua_gtpu_gp_interface_tab.w4i31fqgtmcfgskwmpm4gshmg1	INT8	KBytes	Number of forwarded bytes on the Downlink for the Background QoS Class for the Gp interface	Sum	hustrafbh , Sum
Kbytes_of_DL_conv_class_on_Gp	hua_gtpu_gp_interface_tab.xedcjswbeibagern1ngcrsqdd4	INT8	KBytes	Number of forwarded bytes on the Downlink for the Conversational QoS Class for the Gp interface	Sum	hustrafbh , Sum
Kbytes_of_DL_interactive_class_on_Gp	hua_gtpu_gp_interface_tab.stmhm01w0abopueeggv0m3ucgb	INT8	KBytes	Number of forwarded bytes on the Uplink for the Interactive QoS Class for the Gp interface	Sum	hustrafbh , Sum
Kbytes_of_UL_background_class_on_Gp	hua_gtpu_gp_interface_tab.vvtpkbefigc5kcy1lbeat12av4	INT8	KBytes	Number of forwarded bytes on the Uplink for the Background QoS Class for the Gp interface	Sum	hustrafbh , Sum

Kbytes_of_UL_conv_class_on_Gp	hua_gtpu_gp_interface_tab.u3jyeoorqdb3nun0fh1lvbaitm	INT8	KBytes	Number of forwarded bytes on the Uplink for the Conversational QoS Class for the Gp interface	Sum	hustrafbh, Sum
Kbytes_of_UL_Interac_class_on_Gp	hua_gtpu_gp_interface_tab.w1bf2uxioac0gbgexo5gh1bjfw	INT8	KBytes	Number of forwarded bytes on the Uplink for the Interactive QoS Class for the Gp interface	Sum	hustrafbh, Sum
Kbytes_of_UL_streaming_class_on_Gp	hua_gtpu_gp_interface_tab.ufj6ujl3bdcgqrf6hier2t021q	INT8	KBytes	Number of forwarded bytes on the Uplink for the Streaming QoS Class for the Gp interface	Sum	hustrafbh, Sum
Kbytes_on_DL_streaming_class_for_Gp	hua_gtpu_gp_interface_tab.rkngygqqbubr2ca0jf1q103dln	INT8	KBytes	Number of forwarded packets on the Downlink for the Streaming QoS Class for the Gp interface	Sum	hustrafbh, Sum
Pkts_of_DL_background_class_on_Gp	hua_gtpu_gp_interface_tab.vkk31bocl0cqye5rn4hdo5lwe	INTEGER	#	Number of forwarded packets on the Downlink for the Background QoS Class for the Gp interface	Sum	hustrafbh, Sum
Pkts_of_DL_conv_class_on_Gp	hua_gtpu_gp_interface_tab.tdn36khrrobfacj0haqksr22ap	INTEGER	#	Number of forwarded packets on the	Sum	hustrafbh, Sum

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				Downlink for the conversational QoS Class for the Gp interface		
Pkts_of_DL_interactive_classes_on_Gp	hua_gtpu_gp_interface_tab.sqamnjggr0bwauxld40fexvxp0	INTEGER	#	Number of forwarded packets on the Uplink for the Interactive QoS Class for the Gp interface	Sum	hustrafbh , Sum
Pkts_of_DL_streaming_class_on_Gp	hua_gtpu_gp_interface_tab.vexyny42gacwatsd1kggelqlnv	INTEGER	#	Number of forwarded packets on the Downlink for the Streaming QoS Class for the Gp interface	Sum	hustrafbh , Sum
Pkts_of_UL_background_class_on_Gp	hua_gtpu_gp_interface_tab.v6v06dadiebioeatq3b4nlbkut	INTEGER	#	Number of forwarded packets on the Uplink for the Background QoS Class for the Gp interface	Sum	hustrafbh , Sum
Pkts_of_UL_conversation_class_on_Gp	hua_gtpu_gp_interface_tab.r06egwth6fbeeulpkwbwvtgf4r	INTEGER	#	Number of forwarded packets on the Uplink for the Conversational QoS Class for the Gp interface	Sum	hustrafbh , Sum
Pkts_of_UL_interactive_classes_on_Gp	hua_gtpu_gp_interface_tab.una4oc0di5bcjce5mnpmg0kxw6	INTEGER	#	Number of forwarded packets on the Uplink for the Interactive QoS Class for the Gp interface	Sum	hustrafbh , Sum
Pkts_of_UL_streaming_class	hua_gtpu_gp_interface_tab.tb6pa1h3m2b3trabvyk61ht	INTEGER	#	Number of forwarded	Sum	hustrafbh , Sum

_on_Gp	2jj			packets on the Uplink for the Streaming QoS Class for the Gp interface		
QoS1_pkts_dropped_due_queue_overflow_Gp	hua_gtpu_gp_interface_tab.yd3erx4pgncwwewjggkpf3drnn	INTEGER	#	Number of Conversational class data packets discarded by the SGSN due to queue overflow on Gp interface	Sum	hustrafbh, Sum
QoS2_pkts_dropped_due_queue_overflow_Gp	hua_gtpu_gp_interface_tab.umudshio1uc1bdgvw5hdki syne	INTEGER	#	Number of Streaming class data packets discarded by the SGSN due to queue overflow on Gp interface	Sum	hustrafbh, Sum
QoS3_pkts_dropped_due_queue_overflow_Gp	hua_gtpu_gp_interface_tab.wmvgihe6lnboluakm3gmfyxftp	INTEGER	#	Number of Interactive class data packets discarded by the SGSN due to queue overflow on Gp interface	Sum	hustrafbh, Sum
QoS4_pkts_dropped_due_queue_overflow_Gp	hua_gtpu_gp_interface_tab.un5oty30k3b0ceibabg1cm a5jv	INTEGER	#	Number of Background class data packets discarded by the SGSN due to queue overflow on Gp	Sum	hustrafbh, Sum

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				interface		
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### 6.31.35SGSN.Huawei.GPRS.GTPU\_Message\_Processing

GTPU Message Processing measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Echo_req_pkts_received_from_Gn_Gp	hua_gtpu_mess_process_ta b.y6aqfsb2t4bvabfnd652a4djfu	INTEGER	#	Number of echo request message packets received from the GGSN.	Sum	hustrafbh, Sum
Echo_req_pkts_sent_to_Gn_Gp	hua_gtpu_mess_process_ta b.utbawkx45wbsjb0xmo2jdqwx4x	INTEGER	#	Number of echo request message packets sent to the GGSN.	Sum	hustrafbh, Sum
Error_GTP_U_Message_pkts_received	hua_gtpu_mess_process_ta b.wejassapoeblvuvdryn3mrdhem	INTEGER	#	Number of invalid message packets received from the Gn/Gp interface.	Sum	hustrafbh, Sum
Error_indication_msg_received_from_GGSN	hua_gtpu_mess_process_ta b.sptwrqq2ltsutomdjvcb2d4va	INTEGER	#	Number of error indication message packets received from the GGSN.	Sum	hustrafbh, Sum
Error_indication_pkts_sent	hua_gtpu_mess_process_ta b.uxvfsfryhmbulefglukdwh4b4i	INTEGER	#	Number of error indication message sent to the GGSN.	Sum	hustrafbh, Sum
GGSN_GTPU_V0_normal_path_no	hua_gtpu_mess_process_ta b.saan6br3xa2airvh002ind6wbg	INTEGER	#	GGSN GTPU V0 normal path numbers	Average	Average, hustrafbh, Maximum,

						Minimum, Sum
GGSN_GTPU_V1_normal_path_no	hua_gtpu_mess_process_talb.saan6bt3xa2airvh002ind6wbg	INTEGER	#	GGSN GTPU V1 normal path numbers	Average	Average, hustrafbh, Maximum, Minimum, Sum
GTP_U_msg_pkts_rec	hua_gtpu_mess_process_talb.r1qi4lwru5cv0sg1w1cry4f2vo	INTEGER	#	Number of non-T-PDU packets received from the Gn/Gp interface.	Sum	hustrafbh, Sum
GTP_U_msg_pkts_sent	hua_gtpu_mess_process_talb.udqrj6dkyxbkrctf0itrhoipq	INTEGER	#	Number of non-T-PDU packets sent to the Gn/Gp interface.	Sum	hustrafbh, Sum
Overflow_msg_sent	hua_gtpu_mess_process_talb.yclnooyavucw4tg0gs4o4udhwq	INTEGER	#	Number of message packets discarded due to cache overflow.	Sum	hustrafbh, Sum
Path_management_msg_rec	hua_gtpu_mess_process_talb.xuxwkngghy5cpjdqfbljr53eypk	INTEGER	#	Number of path management message packets received from the Gn/Gp interface.	Sum	hustrafbh, Sum
Path_management_msg_sent	hua_gtpu_mess_process_talb.tnwj4aqi2abvyrrpqyq6blf6350	INTEGER	#	Number of path management message packets sent to the Gn/Gp	Sum	hustrafbh, Sum

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				interface.		
SG_GTPU_V0 _normal_path_ no	hua_gtpu_mess_process_ta b.saan6bn3xa2airvh002ind 6wbg	INTEG ER	#	SGSN GTPU V0 normal path numbers	Average	Average, hustrafbh , Maximu m, Minimu m, Sum
SG_GTPU_V1 _normal_path_ no	hua_gtpu_mess_process_ta b.saan6bp3xa2airvh002ind 6wbg	INTEG ER	#	SGSN GTPU V1 normal path numbers	Average	Average, hustrafbh , Maximu m, Minimu m, Sum
Tunnel_manage ment_msg_rec	hua_gtpu_mess_process_ta b.yuhild65msbhxe1clbfolg uj04	INTEG ER	#	Number of tunnel management message packets sent to the Gn/Gp interface.	Sum	hustrafbh , Sum
Tunnel_manage ment_msg_sent	hua_gtpu_mess_process_ta b.vtndfgc4cdbb0takgtbcm4 lymf	INTEG ER	#	Number of tunnel management message packets received from the Gn/Gp interface.	Sum	hustrafbh , Sum

### 6.31.36SGSN.Huawei.GPRS.GTPU\_Unknown\_Interface

GTPU Unknown Interface measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Echo_req_pkts _rec_by_SGS N	hua_gtpu_unkwn_iface_ta b.wadwdwpblib15dmvmj1 xmhgrhn	INTEG ER	#	Number of GTP Echo Request PDUs received by	Sum	hustrafbh , Sum

				SGSN on the unknown interface		
Echo_req_pkts_sended_by_SGSN	hua_gtpu_unknwn_iface_talb.ykph2tsuohbb6eh1egiegtuq3m	INTEGER	#	Number of GTP Echo Request PDUs transmitted by SGSN on the unknown interface	Sum	hustrafbh, Sum
Error_ind_pkts_sended_by_SGSN	hua_gtpu_unknwn_iface_talb.t1vtsmphbtbshctb6fjrtuwolc	INTEGER	#	Number of GTP Error Indication PDUs sent by SGSN	Sum	hustrafbh, Sum
GTPU_kb_dropped_due_del_PDP_ctxt	hua_gtpu_unknwn_iface_talb.w4slo1u0g1ct6bc6enmq40jobu	INT8	KBytes	Number of data bytes discarded by SGSN due to the associated PDP context being deleted on the unknown interface	Sum	hustrafbh, Sum
GTPU_kb_dropped_due_unknown_TEID_TID	hua_gtpu_unknwn_iface_talb.xl4mygidnbcdestek3mcxsfhyb	INT8	KBytes	Number of data bytes discarded by SGSN due to the TEID/TID in the GTP header being unknown on the unknown interface	Sum	hustrafbh, Sum
GTPU_pkts_discarded_by_SGSN	hua_gtpu_unknwn_iface_talb.u2yr44yxhwck2s53fwcxm1t0jq	INTEGER	#	Number of GTP-U packets dropped at the receiving point of the unknown	Sum	hustrafbh, Sum

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				interface		
GTPU_pkts_dropped_due_to_del_PDP_ctxt	hua_gtpu_unknwn_iface_tab.usnrpgc2h4bkxrlug6dbir0pqb	INTEGER	#	Number of data packets discarded by SGSN due to the associated PDP context being deleted on the unknown interface	Sum	hustrafbh , Sum
GTPU_pkts_dropped_due_to_msg_short	hua_gtpu_unknwn_iface_tab.y0n1i6sj63bphtd35xllmtwj6q	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being too short on the unknown interface	Sum	hustrafbh , Sum
GTPU_pkts_dropped_due_to_unexp_msg	hua_gtpu_unknwn_iface_tab.tmtcfv2dfobotr6t3uit4eslvs	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being expected on the unknown interface	Sum	hustrafbh , Sum
GTPU_pkts_dropped_due_to_unkn_msg	hua_gtpu_unknwn_iface_tab.xtw2sjgm03cgws3snjcdkr363x	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the message being unknown on the unknown interface	Sum	hustrafbh , Sum
GTPU_pkts_dropped_due_to_unkn_TEID_TID	hua_gtpu_unknwn_iface_tab.ywsvuhc22ec0dbuumf4hly2fto	INTEGER	#	Number of GTP-U PDUs discarded by SGSN due to the TEID/TID in the GTP header being unknown on the unknown	Sum	hustrafbh , Sum

				interface		
GTPU_pkts_received_by_SGSN	hua_gtpu_unknwn_iface_table.tjx2sntmd0bfleboofqbqrg6	INTEGER	#	Total number of GTP-U packets (including corrupted packets) received by the SGSN at the unknown interface	Sum	hustrafbh, Sum
Kbytes_of_DL_background_class	hua_gtpu_unknwn_iface_table.vm0x256uk3cg5th26lpw61523n	INT8	KBytes	Number of forwarded bytes on the Downlink for the Background QoS Class for the unknown interface	Sum	hustrafbh, Sum
Kbytes_of_DL_conv_class	hua_gtpu_unknwn_iface_table.sm5ol34vfnb1gbq3pxf0ls611s	INT8	KBytes	Number of forwarded bytes on the Downlink for the Conversational QoS Class for the unknown interface	Sum	hustrafbh, Sum
Kbytes_of_DL_interactive_class	hua_gtpu_unknwn_iface_table.xhflxxounqbq4bfxn516km3g60	INT8	KBytes	Number of forwarded bytes on the Uplink for the Interactive QoS Class for the unknown interface	Sum	hustrafbh, Sum
Kbytes_of_DL_streaming_class	hua_gtpu_unknwn_iface_table.sjf03kfbolcxobksmjr12du	INT8	KBytes	Number of forwarded	Sum	hustrafbh, Sum

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ss	xl4			bytes on the Downlink for the Streaming QoS Class for the unknown interface		
Kbytes_of_UL_background_class	hua_gtpu_unkwn_iface_tab.wkicqt531wcehsajtfillroumn	INT8	KBytes	Number of forwarded bytes on the Uplink for the Background QoS Class for the unknown interface	Sum	hustrafbh , Sum
Kbytes_of_UL_conv_class	hua_gtpu_unkwn_iface_tab.wdvmukoeb0bpkc2yna0ospfrg	INT8	KBytes	Number of forwarded bytes on the Uplink for the Conversational QoS Class for the unknown interface	Sum	hustrafbh , Sum
Kbytes_of_UL_interactive_class	hua_gtpu_unkwn_iface_tab.r06ssnxm5qbkyce1ou5k2v20ed	INT8	KBytes	Number of forwarded bytes on the Uplink for the Interactive QoS Class for the unknown interface	Sum	hustrafbh , Sum
Kbytes_of_UL_streaming_class	hua_gtpu_unkwn_iface_tab.wb0yqejgotb46bbbpsdp0eyjb0	INT8	KBytes	Number of forwarded bytes on the Uplink for the Streaming QoS Class for the unknown interface	Sum	hustrafbh , Sum
Pkts_of_DL_background_class	hua_gtpu_unkwn_iface_tab.so6j0d0fsic1lsreitdg0wlbkf	INTEGER	#	Number of forwarded packets on the Downlink for the Background	Sum	hustrafbh , Sum

				QoS Class for the unknown interface		
Pkts_of_DL_conv_class	hua_gtpu_unkwn_iface_tab.rsm6w1pfrtcxeboa6w2r5jvm6c	INTEGER	#	Number of forwarded packets on the Downlink for the conversational QoS Class for the unknown interface	Sum	hustrafbh, Sum
Pkts_of_DL_interactive_classes	hua_gtpu_unkwn_iface_tab.xkojta5xwpcngdkutxfm4rdlnw	INTEGER	#	Number of forwarded packets on the Uplink for the Interactive QoS Class for the unknown interface	Sum	hustrafbh, Sum
Pkts_of_the_DL_streaming_class	hua_gtpu_unkwn_iface_tab.vnnw6mac41cmcb5pnu0m52dfe	INTEGER	#	Number of forwarded packets on the Downlink for the Streaming QoS Class for the unknown interface	Sum	hustrafbh, Sum
Pkts_of_UL_background_classes	hua_gtpu_unkwn_iface_tab.u3ggqf01hfcn0uaaqnbni1iall	INTEGER	#	Number of forwarded packets on the Uplink for the Background QoS Class for the unknown interface	Sum	hustrafbh, Sum
Pkts_of_UL_conv_class	hua_gtpu_unkwn_iface_tab.rvh0h24d10cmt6kyecde	INTEGER	#	Number of forwarded	Sum	hustrafbh, Sum

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	ixcqc			packets on the Uplink for the Conversational QoS Class for the unknown interface		
Pkts_of_UL_interactive_classes	hua_gtpu_unknwn_iface_tab.ulmxtjt0tybpdthkwf5vkly6l2	INTEGER	#	Number of forwarded packets on the Uplink for the Interactive QoS Class for the unknown interface	Sum	hustrafbh , Sum
Pkts_of_UL_streaming_class	hua_gtpu_unknwn_iface_tab.r6w6ggtux3bltegix3wo44pww2	INTEGER	#	Number of forwarded packets on the Uplink for the Streaming QoS Class for the unknown interface	Sum	hustrafbh , Sum
QoS1_pkts_drop_due_queue_overflow_UIF	hua_gtpu_unknwn_iface_tab.ruuauu2xrlb52cd0hubrd56jno	INTEGER	#	Number of Conversational class data packets discarded by the SGSN due to queue overflow on the unknown interface	Sum	hustrafbh , Sum
QoS2_pkts_drop_due_queue_overflow_UIF	hua_gtpu_unknwn_iface_tab.tiap2h4l5fbsnumdy3pyqx6hvs	INTEGER	#	Number of Streaming class data packets discarded by the SGSN due to queue overflow on the unknown interface	Sum	hustrafbh , Sum
QoS3_pkts_drop_due_queue	hua_gtpu_unknwn_iface_tab.vpohvweadicrpsnlv0ty64	INTEGER	#	Number of Interactive	Sum	hustrafbh , Sum

_overflow_UI F	c0fp			class data packets discarded by the SGSN due to queue overflow on the unknown interface		
QoS4_pkts_dr op_due_queue _overflow_UI F	hua_gtpu_unkwn_iface_t a.b.sve2ih6gtdcqitll641f4mlh sh	INTEG ER	#	Number of Background class data packets discarded by the SGSN due to queue overflow on the unknown interface	Sum	hustrafbh , Sum

### 6.31.37SGSN.Huawei.GPRS.Inter\_System\_Switch

Inter System Switch measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
_Intra_SGSN_GSM_to_UMTS_change_suc	100 * {Intra_SGSN_GSM_to_UMTS_change_suc}/ {Intra_SGSN_GSM_to_UMTS_change_req}	FLOAT	%	Percentage of successful 2G-3G system changes within SGSN.	Average	Average, hustrafbh
_Intra_SGSN_UMTS_to_GSM_change_suc	100 * {Intra_SGSN_UMTS_to_GSM_change_suc}/ {Intra_SGSN_UMTS_to_GSM_change_req}	FLOAT	%	Percentage of successful 3G-2G changes within SGSN.	Average	Average, hustrafbh
Intra_GBIn_change_noPDP_acc	hua_inter_sys_switch_tab. saan6jn3xa2airvh002ind6wbg	INTEG ER	#	Obsolete from CN-SGSN/V900R0	Sum	hustrafbh , Sum

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				10.C01SPC022: Number of successful Intra-SGSN Gb to Iu change without PDP		
Intra_SGSN_GSM_to_UMTS_change_req	hua_inter_sys_switch_tab.v1bq5olbrmbcgdmxy1n14eqnji	INTEGER	#	Number of received requests for 2G-3G change within SGSN	Sum	hustrafbh , Sum
Intra_SGSN_GSM_to_UMTS_change_suc	hua_inter_sys_switch_tab.u5wdryafnwbpvu6gvewk4utke3	INTEGER	#	Number of successful 2G-3G system changes within SGSN.	Sum	hustrafbh , Sum
Intra_SGSN_UMTS_to_GSM_change_req	hua_inter_sys_switch_tab.rya2b6sut5bndro2xaaopmi64a	INTEGER	#	Number of requests for received 3G-2G system change within SGSN.	Sum	hustrafbh , Sum
Intra_SGSN_UMTS_to_GSM_change_suc	hua_inter_sys_switch_tab.yf1xvwa04cb46ro50e3i5wfk3p	INTEGER	#	Number of successful 3G-2G changes within SGSN.	Sum	hustrafbh , Sum
IntraSG_Gb_to_change_noPDP_rej	hua_inter_sys_switch_tab.saan6jp3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of rejected Intra-SGSN Gb to Iu change without PDP	Sum	hustrafbh , Sum
IntraSG_Gb_to_change_noPDP_req	hua_inter_sys_switch_tab.saan6jl3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of Intra-SGSN Gb to Iu change without PDP	Sum	hustrafbh , Sum

				request		
IntraSG_GB <u>Iu</u> _change_PDP_ accept	hua_inter_sys_switch_tab. saan6jh3xa2airvh002ind6 wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of successful Intra-SGSN Gb to Iu change with PDP	Sum	hustrafb h, Sum
IntraSG_GB <u>Iu</u> _change_PDP_ rej	hua_inter_sys_switch_tab. saan6jj3xa2airvh002ind6w bg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of rejected Intra- SGSN Gb to Iu change with PDP	Sum	hustrafb h, Sum
IntraSG_GB <u>Iu</u> _change_PDP_ req	hua_inter_sys_switch_tab. saan6jf3xa2airvh002ind6w bg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of Intra-SGSN Gb to Iu change with PDP request	Sum	hustrafb h, Sum
IntraSG_IuGB _change_noPD P_succ	hua_inter_sys_switch_tab. saan6k03xa2airvh002ind6 wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022: Number of successful Intra-SGSN Iu to Gb change without PDP	Sum	hustrafb h, Sum
IntraSG_IuGB	hua_inter_sys_switch_tab.	INTEG	#	Obsolete from	Sum	hustrafb

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_change_PDP_rej	saan6jv3xa2airvh002ind6wbg	ER		CN-SGSN/V900R0 10.C01SPC022: Number of rejected Intra-SGSN Iu to Gb change with PDP		, Sum
IntraSG_IuGB_change_PDP_req	hua_inter_sys_switch_tab.saan6jr3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of Intra-SGSN Iu to Gb change with PDP request	Sum	hustrafbh, Sum
IntraSG_IuGB_change_PDP_succ	hua_inter_sys_switch_tab.saan6jt3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of successful Intra-SGSN Iu to Gb change with PDP	Sum	hustrafbh, Sum
IntraSG_to_Gb_change_noPDP_rej	hua_inter_sys_switch_tab.saan6k23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of rejected Intra-SGSN Iu to Gb change without PDP	Sum	hustrafbh, Sum
IntraSG_to_Gb_change_noPDP_req	hua_inter_sys_switch_tab.saan6jx3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of Intra-SGSN Iu to Gb change without PDP	Sum	hustrafbh, Sum

				request		
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**6.31.38SGSN.Huawei.GPRS.IP\_NS**

IP NS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
NS_DL_data_kbytes_sent_to_IP	hua_ip_ns_tab.xwfr2csxljcrtdghl3y033h4hs	INT8	KBytes	DL data flow that the NS layer receives from the lower IP network layer.	Sum	hustrafbh, Sum
NS_DL_IP_data_kbytes_discarded	hua_ip_ns_tab.wh2q4phpvwcn1ry4thr6ar14sm	INT8	KBytes	DL IP data flow that is discarded by the NS layer.	Sum	hustrafbh, Sum
NS_DL_IP_pkts_discarded	hua_ip_ns_tab.sg3yhfunkcbkeeu5aw5sndc0q	INTEGER	#	Number of DL IP data packets that are discarded by the NS layer.	Sum	hustrafbh, Sum
NS_DL_pkts_sent_to_IP	hua_ip_ns_tab.wdj3rfqtrjbt5uc4upfff0lmgv	INTEGER	#	Number of DL data packets that the NS layer sends to the lower IP network layer.	Sum	hustrafbh, Sum
NS_UL_data_kbytes_rec_from_IP	hua_ip_ns_tab.w2glpaiootcb1d0yl41hqfhxnu	INT8	KBytes	UL data flow that the NS layer receives from the lower IP network layer.	Sum	hustrafbh, Sum
NS_UL_IP_data	hua_ip_ns_tab.u6xbua1lbe	INT8	KByte	UL IP data flow	Sum	hustrafbh

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ta_kbytes_discarded	cbqb3aep14ibhwlb		s	that is discarded by the NS layer.		, Sum
NS_UL_IP_pkts_discarded	hua_ip_ns_tab.tqxbxek226bimtc5gtfxpbqory	INTEGER	#	Number of UL IP data packets that are discarded by the NS layer.	Sum	hustrafbh, Sum
NS_UL_pkts_received_from_IP	hua_ip_ns_tab.yn0esmrxx4caqe6ngjvp5pjpg43	INTEGER	#	Number of UL data packets that the NS layer receives from the lower IP network layer.	Sum	hustrafbh, Sum

### 6.31.39SGSN.Huawei.GPRS.IPSec

IPSec measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
AH_discarded_msg_replay	hua_ipsec_tab.vgvuc4cqmkbsjrie0ier02r	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of AH messages discarded due to replay during reception.	Sum	hustrafbh, Sum
AH_input_msg_discarded	hua_ipsec_tab.spntpcfs5lc5arminxuv0aa6vk	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of AH messages discarded during reception.	Sum	hustrafbh, Sum
AH_msg_disca	hua_ipsec_tab.wdjxdw1dl	INTEGER	#	Obsolete from	Sum	hustrafbh

rded_breach_of_security_policy	bsurrfgaadaxipkk	ER		CN-SGSN/V900R010.C01SPC022: Number of AH messages discarded as per the security policy during reception.		, Sum
AH_msg_discarded_errored_header	hua_ipsec_tab.yki4u4fxofbmtcp2qco6vjg163	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of AH messages discarded due to header error during transmission and reception.	Sum	hustrafbh, Sum
AH_msg_discarded_errored_verification_word_len	hua_ipsec_tab.u0xwutuyesbugdlup6x1d4an11	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of AH messages discarded due to wrong verification word length during reception.	Sum	hustrafbh, Sum
AH_msg_discarded_full_IPSec_queue	hua_ipsec_tab.sm6epy4njacsc6dxr1641ai0w	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of AH messages discarded due to full IPSec	Sum	hustrafbh, Sum

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				queue during transmission and reception.		
AH_msg_discarded_invalid_security_association	hua_ipsec_tab.s2wgbivdx0bpirth0uw66k4whq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of AH messages discarded due to the use of invalid security association during reception.	Sum	hustrafbh , Sum
AH_msg_discarded_lack_of_conversation_mode	hua_ipsec_tab.vaqombxm4lc4uscf3xkufsivu	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of AH messages discarded due to no available transform name during reception.	Sum	hustrafbh , Sum
AH_msg_discarded_lack_of_security_association	hua_ipsec_tab.wyvplusdbibe6rnt3p04yal2gh	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of AH messages discarded due no available security association during transmission and reception.	Sum	hustrafbh , Sum
AH_msg_discarded_seq_No_rolling_over_back_to_0	hua_ipsec_tab.tmestvoc60c60ruidfldxwqe5	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022	Sum	hustrafbh , Sum

				:Number of AH messages discarded because the sequence No. rolls back to 0 during transmission and reception.		
AH_msg_discarded_too_long_IP	hua_ipsec_tab.xw33f56cirbkrd5wn1yg1f6i5g	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of AH messages discarded due to IP message overlength during transmission.	Sum	hustrafbh , Sum
AH_msg_discarded_verification_fail	hua_ipsec_tab.vh3vvilyribsocg3r21cifq5xv	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number AH messages discarded due to verification failure during reception.	Sum	hustrafbh , Sum
AH_msg_inputted	hua_ipsec_tab.w012wwoe20cnpcb3aq4f3ie4xj	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of AH messages received.	Sum	hustrafbh , Sum
AH_msg_kbytes_inputted	hua_ipsec_tab.ugcooq4qkybtdd0ydaqtv23ff30	INT8	KBytes	Obsolete from CN-	Sum	hustrafbh , Sum

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				SGSN/V900R010.C01SPC022: The Kbytes of AH messages received.		
AH_msg_kbytes_outputed	hua_ipsec_tab.vp6dydosj6boftf1fo246fgshs	INT8	KBytes	Obsolete from CN-SGSN/V900R010.C01SPC022: The Kbytes of AH messages transmitted.	Sum	hustrafbh, Sum
AH_msg_outputed	hua_ipsec_tab.ybqkks3rhec1trht6k6aup2xfx	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of AH messages transmitted.	Sum	hustrafbh, Sum
AH_output_msgs_discarded	hua_ipsec_tab.vffxc5yxp1cndergfneis2dlqs	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of AH messages discarded during transmission.	Sum	hustrafbh, Sum
Compr_IP_packets_disc_due_inv_policy	hua_ipsec_tab.rgrjysiey3cst1341ia22ufll	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of input compressed IP packets discarded due to invalid policy.	Sum	hustrafbh, Sum
Compr_IP_packets_disc_due_oversize	hua_ipsec_tab.ynry0k630dbs4eeswwawuh2gm2	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022	Sum	hustrafbh, Sum

				:Number of output compressed IP packets discarded due to oversize length.		
Compr_IP_pkts_discard_due_head_err	hua_ipsec_tab.v66qvcabpibh5swdoffls0i223	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of compressed IP packets discarded due to packet head error.	Sum	hustrafbh, Sum
Compr_IP_pkts_dropped_null_mode	hua_ipsec_tab.tdiwx2ma6byperhkrv4wtyach	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of input compressed IP packets due to null transform mode.	Sum	hustrafbh, Sum
ESP_discarded_msg_replay	hua_ipsec_tab.s3h6mo6a4eco3t2wlsywdfmgyh	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded due to replay during reception.	Sum	hustrafbh, Sum
ESP_input_msg_discarded	hua_ipsec_tab.xdekoam0oebfecshpj24c4fpjk	INTEGER	#	Obsolete from CN-SGSN/V900R0	Sum	hustrafbh, Sum

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				10.C01SPC022 :Number of ESP messages discarded during reception.		
ESP_msg_discarded_breach_of_security_policy	hua_ipsec_tab.ufwwhk3astct5rx2w3kbxqarw	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded as per the security policy during reception.	Sum	hustrafbh , Sum
ESP_msg_discarded_errored_header	hua_ipsec_tab.xkbhsbdfldbtec4wevahhkg5mc	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded due to header error during transmission and reception.	Sum	hustrafbh , Sum
ESP_msg_discarded_full_IPSEC_queue	hua_ipsec_tab.sl01fxcc33bqnd6jo22lrhh3bn	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded because the IPSec queue is full during transmission and reception.	Sum	hustrafbh , Sum
ESP_msg_discarded_invalid_security_association	hua_ipsec_tab.vgc3rcrgcsbbldqu4rhk3ce00k	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022	Sum	hustrafbh , Sum

				:Number of ESP messages discarded due to the use of invalid security association during reception.		
ESP_msg_discarded_lack_of_conversation_mode	hua_ipsec_tab.rn4adbv2ku b6lew62nrgcxh0lo	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded due to no corresponding transform name during reception.	Sum	hustrafbh, Sum
ESP_msg_discarded_lack_of_security_association	hua_ipsec_tab.shopbtjupbci 2upyopmamqp5ox	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded due to no available security association during transmission and reception.	Sum	hustrafbh, Sum
ESP_msg_discarded_length_error	hua_ipsec_tab.vc3qdmhcbd cdrej1cvtctqe62t	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded due	Sum	hustrafbh, Sum

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				to wrong message length during reception.		
ESP_msg_discarded_seq_No_roll_over_back_to_0	hua_ipsec_tab.s0qeg0vt46bb6rwo5nk4ai3ouy	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded because the sequence No. rolls back to 0 during transmission and reception.	Sum	hustrafbh , Sum
ESP_msg_discarded_too_long_IP	hua_ipsec_tab.ykkbn135flby4sy115bhtda2cr	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded due to IP message overlength during transmission.	Sum	hustrafbh , Sum
ESP_msg_discarded_verification_fail	hua_ipsec_tab.vdc0bgbowbcsoty4jllsus200	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded due to verification failure during reception.	Sum	hustrafbh , Sum
ESP_msg_input	hua_ipsec_tab.x61ymvhsembjls4cb1pt6yar2t	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of	Sum	hustrafbh , Sum

				ESP messages received.		
ESP_msg_kbytes_inputed	hua_ipsec_tab.rlihotuhmjby6bnrqes0ng0gdr	INT8	KBytes	Obsolete from CN-SGSN/V900R010.C01SPC022 :The Kbytes of ESP messages received.	Sum	hustrafbh , Sum
ESP_msg_kbytes_outputed	hua_ipsec_tab.xniyfinew5c3yt5gqkjiqjlkym	INT8	KBytes	Obsolete from CN-SGSN/V900R010.C01SPC022 :The Kbytes of ESP messages transmitted.	Sum	hustrafbh , Sum
ESP_msg_outputed	hua_ipsec_tab.vqsn2yhflcvfsd3gp5kvu2yna	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages transmitted.	Sum	hustrafbh , Sum
ESP_output_message_discarded	hua_ipsec_tab.tfga4vnwlgbsedc4k0se4lu0gc	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of ESP messages discarded during transmission.	Sum	hustrafbh , Sum
IKE_pkts_discarded_due_to_US_EC_fault	hua_ipsec_tab.twtmr33h5vbseudhibvt0o304j	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of IKE packets	Sum	hustrafbh , Sum

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				discarded due to USEC fault.		
IKE_pkts_forw arded_to_USE C_by_UGTP	hua_ipsec_tab.uq1ypgs4v0 bu3ry0bj0qx3rlsg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of IKE packets forwarded from the UGTP to the USEC.	Sum	hustrafbh , Sum
IKE_pkts_rec_ from_USEC_b y_UGTP	hua_ipsec_tab.t3wo4eg5bd cifulplp0kxyp3am	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of UGTP-received IKE packets from the USEC.	Sum	hustrafbh , Sum
In_Compr_IP_ pkts_dropped_l ength_err	hua_ipsec_tab.rqgyl0qkf6c xveq0sro44l2p30	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of compressed IP packets received but discarded due to length error.	Sum	hustrafbh , Sum
In_pkts_forwar ded_to_USEC_ _by_UGTP	hua_ipsec_tab.rnufstpov5b 3btukw0khfffbfk	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Number of input packets forwarded from UGTP to the USEC.	Sum	hustrafbh , Sum
Inbound_Com pr_IP_pkts_in_ kilobyte	hua_ipsec_tab.wrdorlpvl2c 4mbq236c5okm1yw	INT8	KByte s	Obsolete from CN- SGSN/V900R0 10.C01SPC022	Sum	hustrafbh , Sum

				:Number of compressed IP packets (in kilobytes) input.		
Inbound_Compr_IP_pkts	hua_ipsec_tab.w2xn34662ibnasoswhg6ype4ey	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of compressed IP packets input.	Sum	hustrafbh, Sum
Inbound_pkts_disc_due_USEC_fault	hua_ipsec_tab.wk5awnjkibbukuwd4ldavddd6t	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of input compressed IP packets discarded due to USEC fault.	Sum	hustrafbh, Sum
Inbound_pkts_rec_from_USEC_by_UGTP	hua_ipsec_tab.wdh6hyqkvacjqun1lvsd0r03hg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of UGTP-received input packets processed by the USEC	Sum	hustrafbh, Sum
IP_pkts_discarded_due_null_compr_SA	hua_ipsec_tab.rljqw2jltwcu4uj2hl1li0fr4v	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of input and output IP packets	Sum	hustrafbh, Sum

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				discarded due to null compression SA.		
IP_pkts_dropped_due_decompression_error	hua_ipsec_tab.sfc66sq5bob64sidscqpk6l6h	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of compressed IP packets discarded due to decompression error.	Sum	hustrafbh , Sum
IP_pkts_dropped_due_invalid_compression_SA	hua_ipsec_tab.ug13hngqhbshtafsgvy4qtcxd	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of input compressed IP packets discarded due to invalid compression SA.	Sum	hustrafbh , Sum
IPSEC_input_msg_discarded	hua_ipsec_tab.ymhixg0phbcavdxkp0fd3ysagm	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of IPSec messages discarded during transmission.	Sum	hustrafbh , Sum
IPSEC_output_msg_discarded	hua_ipsec_tab.u4bete0sj5crfseudhlyloduuh	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of IPSec messages discarded	Sum	hustrafbh , Sum

				during reception.		
Msg_discarded_unspecified_IPSec_protocol_No	hua_ipsec_tab.vcjs34lj5ub5wr46y4kdobk1c6	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :The messages discarded and with unidentified IP Sec protocol No. during reception.	Sum	hustrafbh , Sum
Out_pkts_disc_due_USEC_fault	hua_ipsec_tab.sgitjnkrscqfemyxhmkkkywo4a	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of output compressed IP packets discarded due to USEC fault.	Sum	hustrafbh , Sum
Out_pkts_forwarded_to_USEC_by_UGTP	hua_ipsec_tab.rfiaqgchuuc1wd1afppct6pwkq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of output packets that require IPsec processing forwarded from the UGTP to the USEC.	Sum	hustrafbh , Sum
Outbound_Compr_IP_pkts_in_kilobyte	hua_ipsec_tab.sd3gbmx2m mcgsuhk0iwueyb0o2	INT8	KBytes	Obsolete from CN-SGSN/V900R010.C01SPC022	Sum	hustrafbh , Sum

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				:Number of compressed IP packets (in kilobytes) output.		
Outbound_Compr_IP_pkts	hua_ipsec_tab.uywi136o6gcwbuboxe4oari2h1	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of compressed IP packets output.	Sum	hustrafbh, Sum
Outbound_pkts_rec_from_USEC_by_UGTP	hua_ipsec_tab.uuqkhambh2c12sfxil6sg3euug	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of UGTP-received output packets processed by the USEC.	Sum	hustrafbh, Sum
Output_msg_unspecified_IPSec_protocol_No	hua_ipsec_tab.tduqaq22twcqltqyd1fkr6vqmo	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :The messages discarded and with unidentified IP Sec protocol No. during transmission.	Sum	hustrafbh, Sum
Pkts_disc_unknown_protocol_dir	hua_ipsec_tab.uqgktx6tqybfxtj2ifrerfs1qo	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of compressed IP packets discarded due to unknown protocol and direction.	Sum	hustrafbh, Sum

Sum_of_input_Compr_IP_pkts_dropped	hua_ipsec_tab.xqg2vgaddv bdltk012lmb0meyh	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of compressed IP packets input but discarded.	Sum	hustrafbh , Sum
Sum_of_output_Compr_IP_pkts_dropped	hua_ipsec_tab.rywgomapa ybq0uidn4kbxckvef	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of compressed IP packets output but discarded.	Sum	hustrafbh , Sum

#### 6.31.40SGSN.Huawei.GPRS.lu\_mode\_APN\_correction

APN correction measurement in Iu mode.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
_3G_APN_replace_to_default_APN	hua_m117440681_tab.tl63 xxyny42ahc3lr02incnmdw	INTEGER	#	Times of APN replacement to default APN in 3G procedure.	Sum	hustrafbh , Sum
_3G_APN_replace_to_subscribed_APN	hua_m117440681_tab.tl63 xxwny42ahc3lr02incnmdw	INTEGER	#	Times of APN replacement to subscribed APN in 3G procedure.	Sum	hustrafbh , Sum
_3G_MS_act_with_blank_APN	hua_m117440681_tab.tl63 xxuny42ahc3lr02incnmdw	INTEGER	#	Times of blank APN carried in the 3G MS init act request.	Sum	hustrafbh , Sum
_3G_MS_act_	hua_m117440681_tab.tl63	INTEGER	#	Times of	Sum	hustrafbh

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with_incorrect_ APN	xxsny42ahc3lr02incnmdw	ER		incorrect APN carried in the 3G MS init act request.		, Sum
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#### 6.31.41SGSN.Huawei.GPRS.lu\_Mode\_Attach

Iu Mode Attach measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Combined_attach_accept	$100 * \frac{\{\text{Combined\_attach\_accept}\}}{\{\text{Combined\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS/IMSI attachment successes within the SGSN.	Average	Average, hustrafbh
%_GPRS_attach_success	$100 * \frac{\{\text{GPRS\_attach\_success}\}}{\{\text{GPRS\_attach\_request}\}}$	FLOAT	%	Percentage of GPRS attachment successes within the SGSN.	Average	Average, hustrafbh
Att_rej_IMSI_roam_not_allowed	hua_iu_mode_attach_tab.saan6g03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of Iu mode IMSI-attached GPRS attach reject(roaming not allowed in LA)	Sum	hustrafbh, Sum
Attach_reject_Ge_fail	hua_iu_mode_attach_tab.rtktfenxdpcafbrcblaakqki45	INTEGER	#	Number of GPRS attachment failures within SGSN due to Ge protocol error.	Sum	hustrafbh, Sum

Attach_reject_Gr_fail	hua_iu_mode_attach_tab.s ysooegirsbwxbbpmnqtpag ypb	INTEGER	#	Number of GPRS attachment failures within SGSN due to Gr protocol error.	Sum	hustrafbh , Sum
Attach_reject_LA_not_allowed	hua_iu_mode_attach_tab.ri e2r5krp0c0jtcmxcl0r4ykr4	INTEGER	#	Number of GPRS attachment rejects due to Location Area not allowed.	Sum	hustrafbh , Sum
Attach_reject_protocol_error	hua_iu_mode_attach_tab.x s6tq0huogcyerj4rh2ijoiq22	INTEGER	#	Number of GPRS attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum
Attach_reject_svc_not_allowed	hua_iu_mode_attach_tab.v b1kywub1ob5krbkqd0n1x ohbk	INTEGER	#	Number of GPRS attachment failures within SGSN due to GPRS services not allowed.	Sum	hustrafbh , Sum
Attach_reject_times_illegal_ME	hua_iu_mode_attach_tab.v 6likk3g0lcdrt13umpeqay6 ur	INTEGER	#	Number of GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh , Sum
Com_Att_rej_roam_not_allow_LA	hua_iu_mode_attach_tab.s aan6fx3xa2airvh002ind6w bg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of Iu mode	Sum	hustrafbh , Sum

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				combined attach reject(roaming not allowed in LA)		
Comb_att_reject_Gprs_not_allowed	hua_iu_mode_attach_tab.vpwrolmucobvdrmjvax1o2b iia	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh , Sum
Comb_att_reject_no_suitable_cell	hua_iu_mode_attach_tab.vn6306t36tcfydagmx3ggpj wjd	INTEGER	#	Number of combined GPRS/IMSI attachment rejects due to no suitable Cells in LA.	Sum	hustrafbh , Sum
Combined_att_reject_protocol_error	hua_iu_mode_attach_tab.srjrhwyao3c5sbeaogrgaliex b	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to protocol error.	Sum	hustrafbh , Sum
Combined_att_reject_srvc_not_allow	hua_iu_mode_attach_tab.u3cfkxqwmwcb5e24k4f3ws i6vl	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service not allowed.	Sum	hustrafbh , Sum
Combined_attach_accept	hua_iu_mode_attach_tab.ysvkbbwiimlbfeyarxd6rfu2y c	INTEGER	#	Number of GPRS/IMSI attachment successes within the SGSN.	Sum	hustrafbh , Sum
Combined_Attach_Complete_Times	hua_iu_mode_attach_tab.s3yyl5gw52bsotdlrptlwoitv l	INTEGER	#	Number of combined attaches.	Average	Average, hustrafbh ,

						Maximum, Minimum, Sum
Combined_attach_reject_Ge_fail	hua_iu_mode_attach_tab. ww2ixugrchce2sd6mqyxka va4d	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hustrafbh , Sum
Combined_attach_reject_Gr_fail	hua_iu_mode_attach_tab.x bfa1gxrvncfesqqt1iftqc5t	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hustrafbh , Sum
Combined_attach_reject_illegal_ME	hua_iu_mode_attach_tab.ts svc1hmlib4nsc255vm5p5q s0	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal ME.	Sum	hustrafbh , Sum
Combined_attach_reject_illegal_MS	hua_iu_mode_attach_tab.t vluanmwhuctleq0hp40j010 e1	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hustrafbh , Sum
Combined_attach_reject_LA_not_allow	hua_iu_mode_attach_tab.r 0acdutv0gcd3s5he4teepcx p0	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hustrafbh , Sum

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Combined_attach_request	hua_iu_mode_attach_tab.wevjkkf5mbbjhef44gip5sstts	INTEGER	#	Number of inter-SGSN combined RA/LA update requests.	Sum	hustrafbh , Sum
Combined_Max_attach_time_delay	hua_iu_mode_attach_tab.x2os5yovr1cnienjebky2fodgp	INTEGER	ms	Maximum duration of the combined attach.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Combined_Mean_attach_time_delay	hua_iu_mode_attach_tab.yo42ontdk1cttu4xu0qxb14n2	FLOAT	ms	Average duration of the combined attach based on all subscribers.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Combined_Total_Attach_time_delay	hua_iu_mode_attach_tab.wj4dg0koiicvlua3ye0p3julfp	INTEGER	ms	Total combined attach duration.	Average	Average, hustrafbh , Maximum, Minimum, Sum
GPRS_attach_IMSI_attached_request	hua_iu_mode_attach_tab.sx1uyej0htbkb5esr6y41xbu0	INTEGER	#	Number of IMSI-attached GPRS attachment requests within the SGSN.	Sum	hustrafbh , Sum
GPRS_Att_reject_roam_not_allowed_LA	hua_iu_mode_attach_tab.saan6fv3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of Lu mode GPRS attach reject(roaming not allowed in LA)	Sum	hustrafbh , Sum

GPRS_att_success_aft_IMSI_attached	hua_iu_mode_attach_tab.ykf3r2bkjbbg3desdfsbggboi4	INTEGER	#	Number of IMSI-attached GPRS attachment successes within the SGSN.	Sum	hustrafbh, Sum
GPRS_Attach_Complete_Times	hua_iu_mode_attach_tab.spqnylik51c1pe1ec11i6ss4dg	INTEGER	#	Number of GPRS attaches.	Sum	hustrafbh, Sum
GPRS_attach_reject_Gprs_not_allowed	hua_iu_mode_attach_tab.wv0ah0pq2obxgcitnshehdk55c	INTEGER	#	Number of GPRS attachment rejects due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh, Sum
GPRS_attach_reject_no_suitable_cell	hua_iu_mode_attach_tab.s2trm13vlabjisdloppej2coks	INTEGER	#	Number of GPRS attachment rejects due to no suitable Cells in LA.	Sum	hustrafbh, Sum
GPRS_attach_reject_times_illegal_MS	hua_iu_mode_attach_tab.wwcrls0wgtb2hcnv5165t1uu0u	INTEGER	#	Number of GPRS attachment rejects due to illegal mobile station.	Sum	hustrafbh, Sum
GPRS_attach_request	hua_iu_mode_attach_tab.xfomr3rodpc1we1gtyhhwghf2r	INTEGER	#	Number of GPRS attachment requests within the SGSN.	Sum	hustrafbh, Sum
GPRS_attach_success	hua_iu_mode_attach_tab.rmtmqph4a4chmbj6yue0nk12si	INTEGER	#	Number of GPRS attachment successes	Sum	hustrafbh, Sum

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				within the SGSN.		
GPRS_IMSI_attach_fail_MSC_unreach	hua_iu_mode_attach_tab.s g3wfexhd3cv4elvxxvg3b6 wgd	INTEGER	#	The number of times GPRS attachment succeeds but IMSI attachment fails (MSC presently unreachable).	Sum	hustrafbh , Sum
GPRS_IMSI_attach_fail_VLR_reject	hua_iu_mode_attach_tab.v 6midvjb6cbitenkidnt2xu2l g	INTEGER	#	GPRS attachment succeeds while the IMSI attachment fails (rejected by VLR).	Sum	hustrafbh , Sum
GPRS_Max_attach_time_delay	hua_iu_mode_attach_tab. wrjey6l135bkku0hmyh2w xlnog	INTEGER	ms	Maximum duration of the GPRS attach.	Average	Average, hustrafbh , Maximum, Minimum, Sum
GPRS_Mean_attach_time_delay	hua_iu_mode_attach_tab.u xfgk6q1gscw3ss5tj4xajr6g g	FLOAT	ms	Average duration of the GPRS attach based on all subscribers.	Average	Average, hustrafbh , Maximum, Minimum, Sum
GPRS_Total_Attach_time_delay	hua_iu_mode_attach_tab.y seivvrdsyblwbocvw2mppa ofe	INTEGER	ms	Total GPRS attach duration.	Sum	hustrafbh , Sum
IMSI_attach_reject_Gprs_not_allowed	hua_iu_mode_attach_tab.y 10avg6pl1bfotendo0vr6bd dl	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to GPRS service is not allowed	Sum	hustrafbh , Sum

				in this PLMN.		
IMSI_att_reject_GPRS_srvc_no_t_allow	hua_iu_mode_attach_tab.rdd5sl2wqrb4nteyhbd6y2qlg4	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to implicitly detached.	Sum	hustrafbh, Sum
IMSI_att_reject_no_suitable_cell	hua_iu_mode_attach_tab.yicfv6nttubl5tb1rxd263mrpp	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to no suitable Cells in LA.	Sum	hustrafbh, Sum
IMSI_attached_GPRS_attach_complete	hua_iu_mode_attach_tab.wk46vy0r0xcwtu113weucj5omy	INTEGER	#	Number of IMSI attached GPRS attaches.	Sum	hustrafbh, Sum
IMSI_attached_GPRS_attach_max_dur	hua_iu_mode_attach_tab.u1c0hnuwvocexbh15ssjta4ost	INTEGER	ms	Maximum duration of the IMSI attached GPRS attach.	Average	Average, hustrafbh, Maximum, Minimum, Sum
IMSI_attached_GPRS_attach_mean_dur	hua_iu_mode_attach_tab.xkfsqog6wxcvdcbrh0qts02b6	FLOAT	ms	Average duration of the IMSI attached GPRS attach based on all subscribers.	Average	Average, hustrafbh, Maximum, Minimum, Sum
IMSI_attached_GPRS_Attach_total_dur	hua_iu_mode_attach_tab.wy5ifw1ojkc4cowreqliluko	INTEGER	ms	Total IMSI attached GPRS attach duration.	Sum	hustrafbh, Sum
IMSI_GPRS_att_reject_Ge_fail	hua_iu_mode_attach_tab.xwin4fo6wqcjpsjnh23enh	INTEGER	#	Number of IMSI-attached	Sum	hustrafbh, Sum

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	wws			GPRS attachment failures within SGSN due to Ge protocol error.		
IMSI_GPRS_att_reject_Gr_fail	hua_iu_mode_attach_tab.wcl3k2n2g5cuvdnbtp5cthn ggd	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to Gr protocol error.	Sum	hustrafbh , Sum
IMSI_GPRS_att_reject_illegal_ME	hua_iu_mode_attach_tab.wp4rcry352ciycb3wacysr1 uma	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to illegal ME.	Sum	hustrafbh , Sum
IMSI_GPRS_att_reject_illegal_MS	hua_iu_mode_attach_tab.rl iy5byuh6bn1cree1c2vxlysx	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to roaming not allowed in this Location area.	Sum	hustrafbh , Sum
IMSI_GPRS_att_reject_LA_not_allow	hua_iu_mode_attach_tab.tf cfyg31bscxtu5clmeokeu6cf	INTEGER	#	Number of IMSI-attached GPRS attachment rejects due to Location Area not allowed.	Sum	hustrafbh , Sum
IMSI_GPRS_att_reject_protocol_error	hua_iu_mode_attach_tab.v 2hlq2kltxbnpuqimpmmao wok0	INTEGER	#	Number of IMSI-attached GPRS attachment failures within SGSN due to protocol error.	Sum	hustrafbh , Sum

Iu_mode_max_combined_Att_req	hua_iu_mode_attach_tab.s aan6fr3xa2airvh002ind6w bg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Maximum number of Iu mode combined attach request	Average	Average, hustrafbh , Maximum, Minimum, Sum
Iu_mode_max_GPRS_Att_req	hua_iu_mode_attach_tab.s aan6fp3xa2airvh002ind6w bg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Maximum number of Iu mode GPRS attach request	Average	Average, hustrafbh , Maximum, Minimum, Sum
Max_GPRS_Att_req_IMSI_Attd	hua_iu_mode_attach_tab.s aan6ft3xa2airvh002ind6wb g	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :Maximum number of Iu mode GPRS attach request after IMSI attached	Average	Average, hustrafbh , Maximum, Minimum, Sum
USPU_drop_Att_req_pkt_flw_ctrl	hua_iu_mode_attach_tab.s aan6fn3xa2airvh002ind6w bg	INTEGER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :USPU drop Attach request packets of 3G due to flow control	Sum	hustrafbh , Sum

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### 6.31.42SGSN.Huawei.GPRS.lu\_Mode\_Detach

Iu Mode Detach measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_SGSN_init_detach_success	100 * {SGSN_init_detach_success}/ {SGSN_init_detach_request}	FLOAT	%	Percentage of SGSN-initiated GPRS detachment successes.	Average	Average, huStrafbh
Detach_accept_message_sent	hua_iu_mode_detach_tab. xfmjh0sqcbdotrwd0bqqp wtwv	INTEGER	#	Number of "detach accept" messages sent to MS.	Sum	huStrafbh, Sum
HLR_init_detach_request	hua_iu_mode_detach_tab. ypo1l6ldgmbovu4svxdgix ukb6	INTEGER	#	Number of detachment requests due to subscriber deletion by HLR.	Sum	huStrafbh, Sum
MS_init_combined_detach_request	hua_iu_mode_detach_tab. umm5xb23fqcfyegw1hirhb pla5	INTEGER	#	Number of MS-initiated requests for combined GPRS/IMSI detachment within the SGSN.	Sum	huStrafbh, Sum
MS_init_GPRS_detach_request	hua_iu_mode_detach_tab. u6exlm4m3abxyrq1kod21 xranw	INTEGER	#	Number of MS-initiated requests for GPRS detachment within the SGSN.	Sum	huStrafbh, Sum
MS_init_IMSI_detach_request	hua_iu_mode_detach_tab. xrxaqnlllybnargovornph6xl q	INTEGER	#	Number of MS-initiated requests for IMSI detachment within the	Sum	huStrafbh, Sum

				SGSN.		
SGSN_init_detach_request	hua_iu_mode_detach_tab.txnasmr21ibmbv3j6coj0te5u0	INTEGER	#	Number of SGSN-initiated requests for GPRS detachment.	Sum	hustrafbh, Sum
SGSN_init_detach_success	hua_iu_mode_detach_tab.v5m3t4obacb4ceg160kk1txtr4	INTEGER	#	Number of SGSN-initiated GPRS detachment successes.	Sum	hustrafbh, Sum
Times_of_SGSN_implicitly_detraching_subscribers_in_Iu_Mode	hua_iu_mode_detach_tab.vey2h0wvwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of implicit detach in Iu Mode.	Sum	hustrafbh, Sum

### 6.31.43SGSN.Huawei.GPRS.Iu\_Mode\_Inter\_SGSN\_RAU

Iu Mode Inter SGSN RAU measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Com_RAU_success	$100 * \frac{\{\text{Com\_RAU\_success}\}}{\{\text{Com\_RAU\_request}\}}$	FLOAT	%	Percentage of successful combined inter-SGSN RAU updates.	Average	Average, hustrafbh
%_RAU_successes	$100 * \frac{\{\text{RAU\_success}\}}{\{\text{RAU\_request}\}}$	FLOAT	%	Percentage of inter-SGSN RAU successes within this SGSN area.	Average	Average, hustrafbh
Com_RAU_reje	hua_iu_mode_inter_rau_ta	INTEGER	#	Number of	Sum	hustrafbh

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ct_Ge_fail	b.r5t1n6lgwvcxcuj56igj1603sy	ER		inter-SGSN combined RA/LA update failures due to Ge protocol error.		, Sum
Com_RAU_reject_Gprs_not_allowed	hua_iu_mode_inter_rau_talb.su6mikkkesclguy5ojsbsmdxdm	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh, Sum
Com_RAU_reject_GPRS_srvc_not_allow	hua_iu_mode_inter_rau_talb.sk2x2nohqjbcydq2yxtvstg5wk	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to GPRS service not allowed.	Sum	hustrafbh, Sum
Com_RAU_reject_Gr_fail	hua_iu_mode_inter_rau_talb.wcrodp23abb3nrexywcu22y3ti	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_illegal_ME	hua_iu_mode_inter_rau_talb.v0mh2hp3q6c3ws2jnacia05avg	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal ME.	Sum	hustrafbh, Sum
Com_RAU_reject_illegal_MS	hua_iu_mode_inter_rau_talb.vd33dcja2ab0dbqk3dexk6xy0m	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hustrafbh, Sum
Com_RAU_reje	hua_iu_mode_inter_rau_ta	INTEG	#	Number of	Sum	hustrafbh

ct_implicitly_detached	b.xeddhjkb4b4gcb6rcnwi4yjoe	ER		inter-SGSN combined RA/LA update failures due to GPRS service implicitly detached.		, Sum
Com_RAU_reject_LA_not_allowed	hua_iu_mode_inter_rau_talb.us1udibiy3bexc6ifa3gcfu40d	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hustrafbh, Sum
Com_RAU_reject_no_suitable_cell	hua_iu_mode_inter_rau_talb.ya6vib4x50b1lrp3bu3m1pfsyh	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to no suitable Cells in LA.	Sum	hustrafbh, Sum
Com_RAU_reject_protocol_error	hua_iu_mode_inter_rau_talb.yg6v2wsyxxb6scljnyw0d3kmwd	INTEGER	#	Number of inter-SGSN combined RA/LA update failures due to protocol error.	Sum	hustrafbh, Sum
Com_RAU_request	hua_iu_mode_inter_rau_talb.rhrcf46564cfodmy3utc0yahnghg	INTEGER	#	Number of inter-SGSN combined RA/LA update requests.	Sum	hustrafbh, Sum
Com_RAU_success	hua_iu_mode_inter_rau_talb.w2vrccerc0csrraieb51poj3ue	INTEGER	#	Number of successful combined inter-SGSN RAU updates.	Sum	hustrafbh, Sum
Inter_2G3G_RA	hua_iu_mode_inter_rau_ta	INTEGER	#	Obsolete from	Sum	hustrafbh

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U_noPDP_accept	b.saan6ht3xa2airvh002ind6wbg	ER		CN- SGSN/V900R 010.C01SPC0 22: Number of successful Iu mode inter- SGSN 2G to 3G RAU without PDP		, Sum
Inter_2G3G_RAU_with_PDP_accept	hua_iu_mode_inter_rau_talb.saan6hn3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of successful Iu mode inter- SGSN 2G to 3G RAU with PDP	Sum	hustrafbh , Sum
Inter_2G3G_RAU_with_PDP_rej	hua_iu_mode_inter_rau_talb.saan6hp3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode inter- SGSN 2G to 3G RAU with PDP	Sum	hustrafbh , Sum
Inter_2G3G_RAU_with_PDP_req	hua_iu_mode_inter_rau_talb.saan6hl3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of Iu mode inter- SGSN 2G to 3G RAU with PDP request	Sum	hustrafbh , Sum
Inter_2G3G_RAU_without_PDP_rej	hua_iu_mode_inter_rau_talb.saan6hv3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of	Sum	hustrafbh , Sum

				rejected Iu mode inter-SGSN 2G to 3G RAU without PDP		
Inter_2G3G_RA U_without_PDP_req	hua_iu_mode_inter_rau_t b.saan6hr3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of Iu mode inter-SGSN 2G to 3G RAU without PDP request	Sum	hustrafbh, Sum
Inter_3G3G_RA U_noPDP_accept	hua_iu_mode_inter_rau_t b.saan6if3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of successful Iu mode inter-SGSN 3G to 3G RAU without PDP	Sum	hustrafbh, Sum
Inter_3G3G_RA U_with_PDP_accept	hua_iu_mode_inter_rau_t b.saan6i63xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of successful Iu mode inter-SGSN 3G to 3G RAU with PDP	Sum	hustrafbh, Sum
Inter_3G3G_RA U_with_PDP_rej	hua_iu_mode_inter_rau_t b.saan6ib3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC0	Sum	hustrafbh, Sum

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				22: Number of rejected Iu mode inter-SGSN 3G to 3G RAU with PDP		
Inter_3G3G_RA U_with_PDP_req	hua_iu_mode_inter_rau_t a.b.saan6i43xa2airvh002ind 6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of Iu mode inter-SGSN 3G to 3G RAU with PDP request	Sum	hustrafbh , Sum
Inter_3G3G_RA U_without_PDP_rej	hua_iu_mode_inter_rau_t a.b.saan6ih3xa2airvh002ind 6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode inter-SGSN 3G to 3G RAU without PDP	Sum	hustrafbh , Sum
Inter_3G3G_RA U_without_PDP_req	hua_iu_mode_inter_rau_t a.b.saan6id3xa2airvh002ind 6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of Iu mode inter-SGSN 3G to 3G RAU without PDP request	Sum	hustrafbh , Sum
Inter_IMSI_Att ed_Com_RAUsucc	hua_iu_mode_inter_rau_t a.b.saan6h63xa2airvh002ind 6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of successful Iu mode inter-SGSN IMSI	Sum	hustrafbh , Sum

				attached Com- RAU		
InterSG_2G_to_3G_RAU_accept	hua_iu_mode_inter_rau_talb.saan6hf3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of successful Iu mode inter-SGSN 2G to 3G RAU	Sum	hustrafbh, Sum
InterSG_2G_to_3G_RAU_rej	hua_iu_mode_inter_rau_talb.saan6hj3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode inter-SGSN 2G to 3G RAU	Sum	hustrafbh, Sum
InterSG_2G_to_3G_RAU_req	hua_iu_mode_inter_rau_talb.saan6hd3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of Iu mode inter-SGSN 2G to 3G RAU request	Sum	hustrafbh, Sum
InterSG_3G_to_3G_RAU_accept	hua_iu_mode_inter_rau_talb.saan6i03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of successful Iu mode inter-SGSN 3G to 3G RAU	Sum	hustrafbh, Sum

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InterSG_3G_to_3G_RAU_rej	hua_iu_mode_inter_rau_talb.saan6i23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode inter-SGSN 3G to 3G RAU	Sum	hustrafbh, Sum
InterSG_3G_to_3G_RAU_req	hua_iu_mode_inter_rau_talb.saan6hx3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of Iu mode inter-SGSN 3G to 3G RAU request	Sum	hustrafbh, Sum
InterSG_IMSI_Attd_Com_RA_U_rej	hua_iu_mode_inter_rau_talb.saan6hb3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode inter-SGSN IMSI attached Com-RAU	Sum	hustrafbh, Sum
InterSG_IMSI_Attd_Com_RA_U_req	hua_iu_mode_inter_rau_talb.saan6hh3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of Iu mode inter-SGSN IMSI attached Com-RAU request	Sum	hustrafbh, Sum
IntrComRAUrej_roam_notallow_LA	hua_iu_mode_inter_rau_talb.saan6hh3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22: Number of rejected Iu	Sum	hustrafbh, Sum

				mode inter-SGSN Com-RAU (roaming not allowed in LA)		
Iu_mode_inter_SGSN_Com_RAU_reject_MS_identity_cannot_be_derived_by_the_network	hua_iu_mode_inter_rau_talb.vey2h11vwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of inter-SGSN combined RA/LA update failures due to MS identity cannot be derived by the network.	Sum	hustrafbh, Sum
Iu_mode_inter_SGSN_RAU_reject_MS_identity_cannot_be_derived_by_the_network	hua_iu_mode_inter_rau_talb.vey2h0yvwr2air02b04u3bmv6j	INTEGER	times	This measurement provides the number of inter-SGSN RAU failures due to MS identity cannot be derived by the network.	Sum	hustrafbh, Sum
Iu_mode_max_inter_SG_RAU_req	hua_iu_mode_inter_rau_talb.saan6h03xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Maximum number of Iu mode inter-SGSN RAU request	Average	Average, hustrafbh, Maximum, Minimum, Sum
max_interSG_Com_RAU_req	hua_iu_mode_inter_rau_talb.saan6h23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R	Average	Average, hustrafbh,

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				010.C01SPC022:Maximum number of Iu mode inter-SGSN Com-RAU request		Maximum, Minimum, Sum
RAU_accept_LAU_reject_MSC_unreach	hua_iu_mode_inter_rau_talb.xx6jqbre5icawtjhjvsgih22cl	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined inter-SGSN updates.	Sum	hustrafbh, Sum
RAU_accept_LAU_reject_VLR_reject	hua_iu_mode_inter_rau_talb.ywuc2ofy03bwsc1glpqspl64c5	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined inter-SGSN updates.	Sum	hustrafbh, Sum
RAU_complete_msg_rec	hua_iu_mode_inter_rau_talb.vs0iu65exnb6bt4q3jmb1s34c5	INTEGER	#	Number of times inter-SGSN RAU is completed .	Sum	hustrafbh, Sum
RAU_reject_Ge_fail	hua_iu_mode_inter_rau_talb.xy2k6pl4eibmxs2ehaq51qe433	INTEGER	#	Number of inter-SGSN RAU failures due to Ge protocol error.	Sum	hustrafbh, Sum
RAU_reject_Gprs_not_allowed_in_PLMN	hua_iu_mode_inter_rau_talb.t0jjyc24mtb6wdlssb6mbts3li	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service is not allowed in this PLMN.	Sum	hustrafbh, Sum

RAU_reject_GPRS_service_not_allowed	hua_iu_mode_inter_rau_talb.t0vckb4ty5bnyeilv0ohrq5f25	INTEGER	#	Number of inter-SGSN RAU failures due to GPRS service not allowed.	Sum	hustrafbh, Sum
RAU_reject_Gr_fail	hua_iu_mode_inter_rau_talb.vejdfat30qcndfn5ncjwdbc0n	INTEGER	#	Number of inter-SGSN RAU failures due to Gr protocol error.	Sum	hustrafbh, Sum
RAU_reject_illegal_ME	hua_iu_mode_inter_rau_talb.rhq3wpewebc6reaqddw0mbodlk	INTEGER	#	Number of inter-SGSN RAU failures due to illegal ME.	Sum	hustrafbh, Sum
RAU_reject_illegal_MS	hua_iu_mode_inter_rau_talb.r244tw2txtco6epees4vibp4fu	INTEGER	#	Number of inter-SGSN RAU failures due to illegal mobile station.	Sum	hustrafbh, Sum
RAU_reject_implicitly_detached	hua_iu_mode_inter_rau_talb.uuaejbu2ivcxwc0nojvow444i0	INTEGER	#	Number of inter-SGSN RAU failures due to implicitly detached.	Sum	hustrafbh, Sum
RAU_reject_LA_not_allowed	hua_iu_mode_inter_rau_talb.xby3kopjxvb5kr12ceje5wlse2	INTEGER	#	Number of inter-SGSN RAU failures due to location area not allowed.	Sum	hustrafbh, Sum
RAU_reject_no_suitable_cell_in_LA	hua_iu_mode_inter_rau_talb.x5ql0tlk4fentbrfat3jeiv1gc	INTEGER	#	Number of inter-SGSN RAU failures due to no suitable Cells	Sum	hustrafbh, Sum

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				in LA.		
RAU_reject_protocol_error	hua_iu_mode_inter_rau_talb.ys6ncrp3u1bp3ci4lkjayjrhdm	INTEGER	#	Number of inter-SGSN RAU failures due to protocol error.	Sum	hustrafbh, Sum
RAU_reject_roam_not_allow	hua_iu_mode_inter_rau_talb.vwb2ewbcqxb22tbmamryhvaf2	INTEGER	#	Number of inter-SGSN RAU failures due to roaming not allowed in this Location area.	Sum	hustrafbh, Sum
RAU_request	hua_iu_mode_inter_rau_talb.yc51h5dru1bctrvqgjiyu6g26k6	INTEGER	#	Number of inter-SGSN RAU requests within the SGSN area.	Sum	hustrafbh, Sum
RAU_success	hua_iu_mode_inter_rau_talb.s4cjwyhsmcc6mdmanp0pdfunfv	INTEGER	#	Number of inter-SGSN RAU successes within this SGSN area.	Sum	hustrafbh, Sum
USPU_drop_RAReq_noPDP_flowctrl	hua_iu_mode_inter_rau_talb.saan6gx3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:USPU drop Inter RAU request without PDP packets of 3G due to flow control	Sum	hustrafbh, Sum

#### 6.31.44SGSN.Huawei.GPRS.Iu\_Mode\_Intra\_SGSN\_RAU

Iu Mode Intra SGSN RAU measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggrega	Other Aggrega
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					tor	tors
Com_RAU_reject_Ge_fail	hua_iu_mode_intra_rau_talb.u4nodsho14bskufnf4d4cgmec4c	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Ge protocol error.	Sum	hustrafbh, Sum
Com_RAU_reject_Gr_fail	hua_iu_mode_intra_rau_talb.sjy61llgtccmccpbjv2aqhhqpi	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to Gr protocol error.	Sum	hustrafbh, Sum
COM_RAU_reject_illegal_MS	hua_iu_mode_intra_rau_talb.uy4rv65tdmclnrcunqq02n455r	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to illegal mobile station.	Sum	hustrafbh, Sum
Com_RAU_reject_implicitly_detached	hua_iu_mode_intra_rau_talb.vp4drnj126bsotmvn0ltuq1fgo	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to implicitly detached.	Sum	hustrafbh, Sum
Com_RAU_reject_LA_not_allowed	hua_iu_mode_intra_rau_talb.v1nu6l2jbrcc0tkscm5bv3bxby	INTEGER	#	Number of intra-SGSN combined RA/LA update failures due to location area not allowed.	Sum	hustrafbh, Sum
Com_RAU_reject_no_suitable_cell	hua_iu_mode_intra_rau_talb.yx0vs5h21nbnhs3mf21h	INTEGER	#	Number of intra-SGSN	Sum	hustrafbh, Sum

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l	kgilg4			combined RA/ LA update failures due to no suitable Cells in LA.		
Com_RAU_reject_protocol_error	hua_iu_mode_intra_rau_t b.ro3hvsuvgtcl4tmvh5bvxsja06	INTEGER	#	Number of intra-SGSN combined RA/ LA update failures due to protocol error.	Sum	hustrafbh , Sum
COM_RAU_request_times	hua_iu_mode_intra_rau_t b.yay32v26vgbpxdg2ygdgjhtbcr	INTEGER	#	Number of intra-SGSN combined RA/ LA update requests.	Sum	hustrafbh , Sum
COM_RAU_success_times	hua_iu_mode_intra_rau_t b.vjep3avqptbilrjy3ffmoy6epx	INTEGER	#	Number of successful combined intra-SGSN RAU updates.	Sum	hustrafbh , Sum
Intra_3G3G_RA U_noPDP_accept	hua_iu_mode_intra_rau_t b.saan6gv3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of successful Iu mode intra- SGSN 3G to 3G RAU without PDP	Sum	hustrafbh , Sum
Intra_3G3G_RA U_with_PDP_accept	hua_iu_mode_intra_rau_t b.saan6gt3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of successful Iu mode intra- SGSN 3G to 3G RAU with PDP	Sum	hustrafbh , Sum
Intra_3G3G_RA	hua_iu_mode_intra_rau_t	INTEGER	#	Obsolete from	Sum	hustrafbh

U_with_PDP_rej	b.saan6gl3xa2airvh002ind6wbg	ER		CN- SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode intra- SGSN 3G to 3G RAU with PDP		, Sum
Intra_3G3G_RA U_with_PDP_re q	hua_iu_mode_intra_rau_ta b.saan6gp3xa2airvh002in d6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of Iu mode intra- SGSN 3G to 3G RAU with PDP request	Sum	hustrafbh , Sum
Intra_3G3G_RA U_without_PDP _rej	hua_iu_mode_intra_rau_ta b.saan6gn3xa2airvh002in d6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode intra- SGSN 3G to 3G RAU without PDP	Sum	hustrafbh , Sum
Intra_3G3G_RA U_without_PDP _req	hua_iu_mode_intra_rau_ta b.saan6gr3xa2airvh002ind 6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of Iu mode intra- SGSN 3G to 3G RAU without PDP request	Sum	hustrafbh , Sum
IntraComRAUrej	hua_iu_mode_intra_rau_ta	INTEG	#	Obsolete from	Sum	hustrafbh

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_roamNotAllow_ LA	b.saan6gj3xa2airvh002ind 6wbg	ER		CN- SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode intra- SGSN COM- RAU (roaming not allowed in LA)		, Sum
intraRAU_rej_ro am_not_allow_L A	hua_iu_mode_intra_rau_ta b.saan6gh3xa2airvh002in d6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode intra- SGSN RAU(roaming not allowed in LA)	Sum	hustrafbh , Sum
intraSG_IMSI_A tted_COM_RAU_ succ	hua_iu_mode_intra_rau_ta b.saan6gd3xa2airvh002in d6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of successful Iu mode intra- SGSN IMSI attached COM-RAU	Sum	hustrafbh , Sum
intraSG_IMSI_A tted_COM_RAU _rej	hua_iu_mode_intra_rau_ta b.saan6gf3xa2airvh002ind 6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Number of rejected Iu mode intra- SGSN IMSI attached COM-RAU	Sum	hustrafbh , Sum
intraSG_IMSI_A tted_COM_RAU	hua_iu_mode_intra_rau_ta b.saan6gb3xa2airvh002in	INTEG ER	#	Obsolete from CN-	Sum	hustrafbh , Sum

_req	d6wbg			SGSN/V900R 010.C01SPC0 22: Number of Iu mode intra- SGSN IMSI attached COM-RAU request		
Iu_mode_max_in traSG_RAU_req	hua_iu_mode_intra_rau_ta b.saan6g43xa2airvh002in d6wbg	INTEG ER	#	Obsolete from CN- SGSN/V900R 010.C01SPC0 22: Maximum number of Iu mode intra- SGSN RAU request	Average	Average, hustrafbh , Maximu m, Minimu m, Sum
Iu_mode_Periodi c_RAU_reject_G e_fail	hua_iu_mode_intra_rau_ta b.tl63xqiny42ahc3lr02inc nmdw	INTEG ER	#	Number of Periodic RAU failures due to Ge protocol error.	Sum	hustrafbh , Sum
Iu_mode_Periodi c_RAU_reject_G r_fail	hua_iu_mode_intra_rau_ta b.tl63xqgny42ahc3lr02inc nmdw	INTEG ER	#	Number of Periodic RAU failures due to Gr protocol error.	Sum	hustrafbh , Sum
Iu_mode_Periodi c_RAU_reject_il legal_MS	hua_iu_mode_intra_rau_ta b.tl63xq5ny42ahc3lr02inc nmdw	INTEG ER	#	Number of Periodic RAU failures due to illegal mobile station.	Sum	hustrafbh , Sum
Iu_mode_Periodi c_RAU_reject_i mplicitly_detach ed	hua_iu_mode_intra_rau_ta b.tl63xqcny42ahc3lr02inc nmdw	INTEG ER	#	Number of Periodic RAU failures due to implicitly detached.	Sum	hustrafbh , Sum
Iu_mode_Periodi	hua_iu_mode_intra_rau_ta	INTEG	#	Number of	Sum	hustrafbh

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c_RAU_reject_LA_not_allowed	b.tl63xqany42ahc3lr02incnmdw	ER		Periodic RAU failures due to location area not allowed.		, Sum
Iu_mode_Periodic_RAU_reject_no_suitable_cell_in_LA	hua_iu_mode_intra_rau_talb.tl63xqkny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to no suitable Cells in LA.	Sum	hustrafbh, Sum
Iu_mode_Periodic_RAU_reject_protocol_error	hua_iu_mode_intra_rau_talb.tl63xqeny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU failures due to protocol error.	Sum	hustrafbh, Sum
Iu_mode_Periodic_RAU_request_times	hua_iu_mode_intra_rau_talb.tl63xqlny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU requests within the SGSN area.	Sum	hustrafbh, Sum
Iu_mode_Periodic_RAU_success_times	hua_iu_mode_intra_rau_talb.tl63xq3ny42ahc3lr02incnmdw	INTEGER	#	Number of Periodic RAU successes within This SGSN area.	Sum	hustrafbh, Sum
Max_intraSG_COM_RAU_req	hua_iu_mode_intra_rau_talb.saan6g63xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Maximum number of Iu mode intra-SGSN COM-RAU request	Average	Average, hustrafbh, Maximum, Minimum, Sum
RAU_accept_LAU_reject_MSC_unreach	hua_iu_mode_intra_rau_talb.vq3v65kj44c5vchbva6nch4v2o	INTEGER	#	Number of times RAU is accepted but LAU fails due to MSC temporarily unreachable in the process of combined intra-SGSN	Sum	hustrafbh, Sum

				updates.		
RAU_accept_LAU_reject_VLR_reject	hua_iu_mode_intra_rau_talb.sypl0thnwpcqyrucj1bliqf3f6	INTEGER	#	Number of times RAU is accepted but LAU fails due to VLR reject in the process of combined intra-SGSN updates.	Sum	hustrafbh, Sum
RAU_complete_rec	hua_iu_mode_intra_rau_talb.xjr4ayxchybmfulwwbyj5dh6fr	INTEGER	#	Number of times intra-SGSN RAU is completed .	Sum	hustrafbh, Sum
RAU_reject_Ge_fail	hua_iu_mode_intra_rau_talb.vwhrfikf2ccjqc3nvkjo163ddr	INTEGER	#	Number of intra-SGSN RAU failures due to Ge protocol error.	Sum	hustrafbh, Sum
RAU_reject_Gr_fail	hua_iu_mode_intra_rau_talb.s1hesinog3bkuuq5nbxgfnvj5v	INTEGER	#	Number of intra-SGSN RAU failures due to Gr protocol error.	Sum	hustrafbh, Sum
RAU_reject_illegal_MS	hua_iu_mode_intra_rau_talb.xtoqdyhaiybo1tqkyk3xt y32pi	INTEGER	#	Number of intra-SGSN RAU failures due to illegal mobile station.	Sum	hustrafbh, Sum
RAU_reject_implicitly_detached	hua_iu_mode_intra_rau_talb.uyq4qnx6h1btactuhefxvwibhm	INTEGER	#	Number of intra-SGSN RAU failures due to implicitly detached.	Sum	hustrafbh, Sum
RAU_reject_LAU_not_allowed	hua_iu_mode_intra_rau_talb.vduap5ikbecy4cveeleqv	INTEGER	#	Number of intra-SGSN	Sum	hustrafbh, Sum

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	1300p			RAU failures due to location area not allowed.		
RAU_reject_no_suitable_cell_in_LA	hua_iu_mode_intra_rau_talb.xsbeiwoie4c0xtow11pjo ks3lq	INTEGER	#	Number of intra-SGSN RAU failures due to no suitable Cells in LA.	Sum	hustrafbh, Sum
RAU_reject_protocol_error	hua_iu_mode_intra_rau_talb.vesaufoft3bgfd1vj53cx4 sxc4	INTEGER	#	Number of intra-SGSN RAU failures due to protocol error.	Sum	hustrafbh, Sum
RAU_request_times	hua_iu_mode_intra_rau_talb.ywbxoj2qnybqlsq4e0a ajtdjg	INTEGER	#	Number of intra-SGSN RAU requests within the SGSN area.	Sum	hustrafbh, Sum
RAU_success_times	hua_iu_mode_intra_rau_talb.yyqes4mvtoc4lbjtb2fnx 43j6	INTEGER	#	Number of intra-SGSN RAU successes within this SGSN area.	Sum	hustrafbh, Sum
USPU_drop_RAReq_noPDP_flowctrl	hua_iu_mode_intra_rau_talb.saan6g23xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R 010.C01SPC0 22:USPU drop Intra RAU request without PDP packets of 3G due to flow control	Sum	hustrafbh, Sum

### 6.31.45SGSN.Huawei.GPRS.lu\_Mode\_L3\_MM

Iu Mode L3 MM measurement

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KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Att_Acc_sent_to_foreign_subscribers	hua_iu_mode_l3_mm_tab. upb2gudqkjbkvdmv6wbu6fn1fi	INTEGER	#	Number of successful attachments within the SGSN by roaming subscribers of external networks .	Sum	hustrafbh , Sum
Att_Rej_sent_to_foreign_subscribers	hua_iu_mode_l3_mm_tab. y5gs4aitcgqxtlwhronpo3t21	INTEGER	#	Number of attachment failures within the SGSN by roaming subscribers of external networks.	Sum	hustrafbh , Sum
Att_Req_rec_from_foreign_subscribers	hua_iu_mode_l3_mm_tab. xwd6gec5kwci1rqvvr6icrmjcj	INTEGER	#	Number of requests within the SGSN for attachment initiated by roaming subscriber of external networks.	Sum	hustrafbh , Sum
L3_message_received	hua_iu_mode_l3_mm_tab. wtqvtkbkc1cjkpvtxss1nqj51	INTEGER	#	Number of L3 signalling received by SGSN 3G MM.	Sum	hustrafbh , Sum
L3_message_sent	hua_iu_mode_l3_mm_tab. vtqp6kvq0ycjjbvr5ocolojh60	INTEGER	#	Number of L3 signalling sent by SGSN 3G MM.	Sum	hustrafbh , Sum
RAU_Acc_sent_to_foreign_subscribers	hua_iu_mode_l3_mm_tab. tn6epwlf5ncpotjffpr0atpyrc	INTEGER	#	Number of successful RAUs by roaming subscribers of external networks within the SGSN.	Sum	hustrafbh , Sum

RAU_Compl_rec_from_foreign_subs	hua_iu_mode_l3_mm_tab.rnajdd2qjhcx1c35vyug4csqh0	INTEGER	#	Number of times SGSN receives the routing area updating complete message from roaming subscribers of external networks.	Sum	hustrafbh, Sum
RAU_Rej_sent_to_foreign_sub	hua_iu_mode_l3_mm_tab.xmbvv51wqfcpusxuo65y1pdof6	INTEGER	#	Number of RAU failures by the roaming subscriber of external networks within the SGSN.	Sum	hustrafbh, Sum
RAU_Req_rec_from_foreign_sub	hua_iu_mode_l3_mm_tab.re6pasjwl3bcosfo5pormpjhe	INTEGER	#	Number of requests within the SGSN for RAU by roaming subscribers of external networks.	Sum	hustrafbh, Sum
Transferred_Gn_msg_for_other_SGSN	hua_iu_mode_l3_mm_tab.y6u6gbykjjbubc5iuait301bsp	INTEGER	#	Signaling messages that the SGSN receives for other SGSNs on the Gn interface	Sum	hustrafbh, Sum

### 6.31.46SGSN.Huawei.GPRS.Iu\_Mode\_Paging

Iu Mode Paging measurement

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KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Circuit_paging_request	hua_iu_mode_paging_tab. xfy3fr6ns4b4kupbr204yow omt	INTEG ER	#	Number of circuit pagings delivered by SGSN.	Sum	hustrafbh , Sum
Iu_mode_packet_paging_request_by_GERAN_times	hua_iu_mode_paging_tab. wey2h13vwr2air02b04u3b mv6j	INTEG ER	times	This measurement provides the number of attempts of GPRS packet paging, which is sent through GERAN and does not include the re-paging process.	Sum	hustrafbh , Sum
Iu_mode_packet_paging_response_by_2G_RAU_times	hua_iu_mode_paging_tab. wey2h15vwr2air02b04u3b mv6j	INTEG ER	times	This measurement provides the number of GPRS packet paging responses by 2G RAU.	Sum	hustrafbh , Sum
Iu_mode_packet_paging_response_by_service_request_times	hua_iu_mode_paging_tab. wey2h1avwr2air02b04u3b mv6j	INTEG ER	times	This measurement provides the number of GPRS packet paging responses by service request.	Sum	hustrafbh , Sum
Pkt_paging_no ne_response	hua_iu_mode_paging_tab. ucoi30i1hrcjptjbwoiq2tkly b	INTEG ER	#	Number of failed packet pagings.	Sum	hustrafbh , Sum
Pkt_paging_re quest	hua_iu_mode_paging_tab. y1wkiuqn1wbtedixndpyka gysc	INTEG ER	#	Number of delivered packet paging requests	Sum	hustrafbh , Sum

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				not including re-transmitted messages.		
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### 6.31.47SGSN.Huawei.GPRS.Iu\_Mode\_PDP\_Access\_Reject

Iu Mode PDP Access Reject measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
High_level_user_PDP_access_reject	hua_iu_mode_pdp_reject_tab.yaea22vc4mbw6c1seqi0gufxak	INTEGER	#	Number of times that the PDP context activation is rejected for high class users in Iu mode.	Sum	hustrafbh, Sum
Low_level_user_PDP_access_reject	hua_iu_mode_pdp_reject_tab.tui3dki4yjbuxel0n0cspy5gk6	INTEGER	#	Number of times that the PDP context activation is rejected for low class users in Iu mode.	Sum	hustrafbh, Sum
Normal_user_PDP_access_reject	hua_iu_mode_pdp_reject_tab.yghbnvccctquii2qd04ga3f2	INTEGER	#	Number of times that the PDP context activation is rejected for normal class users in Iu mode.	Sum	hustrafbh, Sum

### 6.31.48SGSN.Huawei.GPRS.Iu\_Mode\_PDP\_Context\_Activation

Iu Mode PDP Context Activation measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_MS_init_IP	100 * {MS_init_IPV4_PDP_ctx_	FLOAT	%	Percentage of successful MS-	Average	Average, hustrafbh

V4_PDP_ctx_act_suc	act_suc}/ {MS_init_IPV4_PDP_ctx_act}			initiated IPv4 PDP context activations		
%_MS_init_IPV6_PDP_ctx_act_suc	100 * {MS_init_IPV6_PDP_ctx_act_suc}/ {MS_init_IPV6_PDP_ctx_act}	FLOAT	%	Percentage of successful MS-initiated IPv6 PDP context activations	Average	Average, hustrafbh
%_MS_init_PDP_context_act_suc	100 * {MS_init_PDP_context_act_suc}/ {MS_init_PDP_context_act}	FLOAT	%	Percentage of successes of MS-initiated first PDP context activation.	Average	Average, hustrafbh
%_Network_init_IPV4_PDP_ctx_act_suc	100 * {Network_init_IPV4_PDP_ctx_act_suc}/ {Network_init_IPV4_PDP_ctx_act}	FLOAT	%	Percentage of successful GGSN-initiated IPv4 PDP context network activations	Average	Average, hustrafbh
%_Network_init_IPV6_PDP_ctx_act_suc	100 * {Network_init_IPV6_PDP_ctx_act_suc}/ {Network_init_IPV6_PDP_ctx_act}	FLOAT	%	Percentage of successful GGSN-initiated IPv6 PDP context network activations	Average	Average, hustrafbh
%_Network_init_PDP_context_act_suc	100 * {Network_init_PDP_context_act_suc}/ {Network_init_PDP_context_act}	FLOAT	%	Percentage of successes of network-initiated PDP context activation.	Average	Average, hustrafbh
%_Secondary_IPV4_PDP_ctx_act_suc	100 * {Secondary_IPV4_PDP_ctx_act_suc}/ {Secondary_IPV4_PDP_ctx_act}	FLOAT	%	Percentage of successful secondary IPv4 PDP context	Average	Average, hustrafbh

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	x_act}			activations		
%_Secondary_IPV6_PDP_ctx_act_suc	100 * {Secondary_IPV6_PDP_ctx_act_suc}/ {Secondary_IPV6_PDP_ctx_act}	FLOAT	%	Percentage of successful secondary IPv6 PDP context activations	Average	Average, hustrafbh
%_SGSN_update_PDP_context_success	100 * {SGSN_update_PDP_context_success}/ {SGSN_update_PDP_context_request}	FLOAT	%	Obsolete from R007. Percentage of the successful SGSN initiated PDP context modifications.	Average	Average, hustrafbh
Active_One_Tunnel_Pdp_fail	hua_iu_mode_pdp_act_tab.saan6of3xa2airvh002ind6wbgbg	INTEGER	#	The number of One Tunnel Pdp active failure	Sum	hustrafbh, Sum
Active_One_Tunnel_Pdp_succ	hua_iu_mode_pdp_act_tab.saan6ob3xa2airvh002ind6wbgbg	INTEGER	#	The number of One Tunnel Pdp active success	Sum	hustrafbh, Sum
Active_Two_Tunnel_Pdp_fail	hua_iu_mode_pdp_act_tab.saan6oh3xa2airvh002ind6wbgbg	INTEGER	#	The number of Two Tunnel Pdp active failure	Sum	hustrafbh, Sum
Active_Two_Tunnel_Pdp_succ	hua_iu_mode_pdp_act_tab.saan6od3xa2airvh002ind6wbgbg	INTEGER	#	The number of Two Tunnel Pdp active success	Sum	hustrafbh, Sum
Foreign_subscriber_PDP_context_accept	hua_iu_mode_pdp_act_tab.ushslp4c4tckmrlldgqtivet5x1	INTEGER	#	Number of foreign MS-initiated PDP context activation successes (including first and secondary activation).	Sum	hustrafbh, Sum
Foreign_subscriber_PDP_context_reject	hua_iu_mode_pdp_act_tab.sjfod1vtkscrgdu1fl1i2v50o36	INTEGER	#	Number of foreign MS-initiated PDP	Sum	hustrafbh, Sum

				context activation failures (including first and secondary activation).		
Foreign_subscriptions_init_PDP_context_act	hua_iu_mode_pdp_act_tab.y5j3vw5jaoc6bdqfoil6bsias	INTEGER	#	Number of foreign MS-initiated PDP context activation attempts (including first and secondary activation).	Sum	hustrafbh, Sum
Max_MS_init_PDP_context_act	hua_iu_mode_pdp_act_tab.saan6op3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Maximum number of Iu mode MS init PDP context act	Average	Average, hustrafbh, Maximum, Minimum, Sum
MS_init_IPV4_PDP_ctx_act_reject	hua_iu_mode_pdp_act_tab.t2eagbl36mb6xtn3xqx2ugguek	INTEGER	#	Number of rejected MS-initiated IPv4 PDP context activations.	Sum	hustrafbh, Sum
MS_init_IPV4_PDP_ctx_act_success	hua_iu_mode_pdp_act_tab.til04e02chbsab6bxpb2l4m5uj	INTEGER	#	Number of successful MS-initiated IPv4 PDP context activations	Sum	hustrafbh, Sum
MS_init_IPV4_PDP_ctx_act	hua_iu_mode_pdp_act_tab.rv0twhuudberccwup5dcfjdjlo	INTEGER	#	Number of MS-initiated IPv4 PDP context	Sum	hustrafbh, Sum

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				activation requests		
MS_init_IPV6_PDP_ctx_act_reject	hua_iu_mode_pdp_act_tab.t5c25ux22cbdmstuk6c5mcutr	INTEGER	#	Number of rejected MS-initiated IPv6 PDP context activations.	Sum	hustrafbh, Sum
MS_init_IPV6_PDP_ctx_act_success	hua_iu_mode_pdp_act_tab.s5xl3vi4mtca1dp0u31qinh y6p	INTEGER	#	Number of successful MS-initiated IPv6 PDP context activations	Sum	hustrafbh, Sum
MS_init_IPV6_PDP_ctx_act	hua_iu_mode_pdp_act_tab.uoqx2dkhgmb6btvm2mxe63ce02	INTEGER	#	Number of MS-initiated IPv6 PDP context activation requests	Sum	hustrafbh, Sum
MS_init_PDP_context_act_reject	hua_iu_mode_pdp_act_tab.vnuckkdu0cbc4umgxm415rkbp	INTEGER	#	Number of first PDP context activation failures	Sum	hustrafbh, Sum
MS_init_PDP_context_act_success	hua_iu_mode_pdp_act_tab.x32d0g61qyb06sc15vp5lyu30c	INTEGER	#	Number of successes of MS-initiated first PDP context activation.	Sum	hustrafbh, Sum
MS_init_PDP_context_act	hua_iu_mode_pdp_act_tab.u6g4k5cy5jbncelvwr1hurhlcl	INTEGER	#	Number of attempts of MS-initiated first PDP context activation using static or dynamic PDP address.	Sum	hustrafbh, Sum
MS_init_PDP_context_Max_act_dur	hua_iu_mode_pdp_act_tab.ug11yarmidbg3rcccknaxmr2e4	INTEGER	ms	Maximum MS initiated primary PDP context	Average	Average, hustrafbh, Maximum

				activation duration in Iu mode.		m, Minimum, Sum
MS_init_PDP_context_Mean_activation_dur	hua_iu_mode_pdp_act_tab.ukohw60pn3ctnrhgn5ninq3oob	FLOAT	ms	Average primary MS activated PDP context establishment duration in Iu mode.	Average	Average, hustrafbh, Maximum, Minimum, Sum
MS_init_PDP_context_sec_act_suc	hua_iu_mode_pdp_act_tab.ucchjm464lcdudu116tnxyyjjw	INTEGER	#	Number of successes of the MS initiated secondary PDP context activation.	Sum	hustrafbh, Sum
MS_init_PDP_context_act_suc_with_dyn_addr	hua_iu_mode_pdp_act_tab.uhgrtpejdbcfksf2fnpcpm1532	INTEGER	#	Number of successes of MS-initiated PDP context activation using dynamic PDP address.	Sum	hustrafbh, Sum
MS_init_PDP_context_act_with_dyn_addr	hua_iu_mode_pdp_act_tab.seigkeehwccirelennkhgxcovej	INTEGER	#	Number of MS-initiated PDP context activation attempts using dynamic PDP address.	Sum	hustrafbh, Sum
MS_init_PDP_context_reject_with_dyn_addr	hua_iu_mode_pdp_act_tab.twq5ctem2ebcyslfgft605qjyr	INTEGER	#	Number of reject of MS-initiated PDP context activation using dynamic PDP address.	Sum	hustrafbh, Sum

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MS_PDP_Context_act_complete	hua_iu_mode_pdp_act_tab.uhqc3nvhopboweyb4e1sjl0g5u	INTEGER	#	Number of successful primary PDP context activations initiated by MSs.	Sum	hustrafbh , Sum
MS_PDP_Context_total_act	hua_iu_mode_pdp_act_tab.vgx1bbtssuchfdgwh0nrrkxm	INTEGER	ms	Total duration of the MS initiated 3G PDP context activations in the measurement period.	Sum	hustrafbh , Sum
Net_PDP_context_act_fail_insuff_res	hua_iu_mode_pdp_act_tab.rf16x455wvcpguw2jj5d6khn2o	INTEGER	#	Number of activation failures due to insufficient net resources.	Sum	hustrafbh , Sum
NET_PDP_context_act_fail	hua_iu_mode_pdp_act_tab.xbsx5nej2tcs0s53lnht2eoeqg	INTEGER	#	Number of GGSN initiated PDP context activation failures.	Sum	hustrafbh , Sum
Net_PDP_context_fail_DNS_resolution_fail	hua_iu_mode_pdp_act_tab.yoj6d4i02lb04e545ljhdnpk4	INTEGER	#	Number of activation failures due to DNS resolution failure.	Sum	hustrafbh , Sum
Net_PDP_context_fail_Ge_fail	hua_iu_mode_pdp_act_tab.vhsik4wecbcxhb6uyk4k3ymvmg	INTEGER	#	Number of GGSN initiated PDP context activation failures caused by Ge interface failure.	Sum	hustrafbh , Sum
Net_PDP_context_fail_GGSN_reject	hua_iu_mode_pdp_act_tab.seh5ijvp3bcwsu1ybu4apvxsm	INTEGER	#	Number of activation failures due to GGSN rejection.	Sum	hustrafbh , Sum

Net_PDP_context_fail_missing_APN	hua_iu_mode_pdp_act_tab.wa6qj3hbo0c2bdo0h0tiv46gih	INTEGER	#	Number of activation failures due to the unknown APN.	Sum	hustrafbh, Sum
Net_PDP_context_fail_No_Reason	hua_iu_mode_pdp_act_tab.t6opm1ysxacbufajjpswkde6j	INTEGER	#	Number of activation failures due to unspecified reasons.	Sum	hustrafbh, Sum
Net_PDP_context_fail_Op_Det_Bar	hua_iu_mode_pdp_act_tab.yaad0oskrycamr1woj1qus65su	INTEGER	#	Number of activation failures due to the ODB.	Sum	hustrafbh, Sum
Net_PDP_context_fail_QoS_nego_fail	hua_iu_mode_pdp_act_tab.vocfdxdiebc4ccymc5b3bx3dly	INTEGER	#	Number of activation failures due to the QoS negotiation failure.	Sum	hustrafbh, Sum
Net_PDP_context_fail_srvc_not_supp	hua_iu_mode_pdp_act_tab.xa3st0htnctqu0dkl4eaoyngk	INTEGER	#	Number of activation failures due to that the service is not supported.	Sum	hustrafbh, Sum
Net_PDP_context_fail_srvc_unsubs	hua_iu_mode_pdp_act_tab.vskbstv2vxcggt6aiynhwexv52	INTEGER	#	Number of activation failures due to that the requested service is not subscribed.	Sum	hustrafbh, Sum
Net_PDP_context_fail_unknown_PDP	hua_iu_mode_pdp_act_tab.tsh2r2tk3abglcc1hgi1rpq6sp	INTEGER	#	Number of PDP context activation failures due to unknown PDP	Sum	hustrafbh, Sum

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				address or PDP type.		
Net_PDP_context_fail_user_authentication_fail	hua_iu_mode_pdp_act_tab.smppcqbqyrc1euh1uvkpkh6r5y	INTEGER	#	Number of activation failures due to user authentication failure.	Sum	hustrafbh, Sum
Net_PDP_ctxt_fail_RAB_assignment_fail	hua_iu_mode_pdp_act_tab.v5iitwtqj3c6qu4dgeg0oi5t mr	INTEGER	#	Number of activation failures due to the RAB assignment failure.	Sum	hustrafbh, Sum
NET_PDP_fail_APN_Restriction	hua_iu_mode_pdp_act_tab.saan6ol3xa2airvh002ind6w bg	INTEGER	#	Number of Net initiated activation failures (due to APN Restriction).	Sum	hustrafbh, Sum
Network_init_IPV4_PDP_ctxt_act_suc	hua_iu_mode_pdp_act_tab.xrqwovxytkcoabc6se3okry ujh	INTEGER	#	Number of successful GGSN-initiated IPv4 PDP context network activations	Sum	hustrafbh, Sum
Network_init_IPV4_PDP_ctxt_act	hua_iu_mode_pdp_act_tab.rted3aeqxvc2ld2okwnqhclj 6s	INTEGER	#	Number of GGSN-initiated IPv4 PDP context network activation attempts	Sum	hustrafbh, Sum
Network_init_IPV6_PDP_ctxt_act_suc	hua_iu_mode_pdp_act_tab.rq6stt5mqtbg5cfc6w3xnwri 3w	INTEGER	#	Number of successful GGSN-initiated IPv6 PDP context network activations	Sum	hustrafbh, Sum

Network_init_IPV6_PDP_ctx_act	hua_iu_mode_pdp_act_tab.ykrjlttee6ucqme40ovja26ncni	INTEGER	#	Number of GGSN-initiated IPv6 PDP context network activation attempts	Sum	hustrafbh, Sum
Network_init_PDP_context_act_suc	hua_iu_mode_pdp_act_tab.ygcynq24wsb12cqm1mfytajnao	INTEGER	#	Number of successes of network-initiated PDP context activation.	Sum	hustrafbh, Sum
Network_init_PDP_context_act	hua_iu_mode_pdp_act_tab.wnpf2hd4dubotbeu1mbxms5amb	INTEGER	#	Number of network-initiated PDP context activation requests.	Sum	hustrafbh, Sum
PDP_act_fail_APN_Restriction	hua_iu_mode_pdp_act_tab.saan6oj3xa2airvh002ind6wbg	INTEGER	#	Number of MS initiated activation failures (due to APN Restriction).	Sum	hustrafbh, Sum
PDP_context_activation_fail_DNS_resolution_fail	hua_iu_mode_pdp_act_tab.ynng6vye2mcatdmej0kus3uehu	INTEGER	#	Number of activation failures due to the DNS resolution failure.	Sum	hustrafbh, Sum
PDP_context_activation_fail_SCP_rejection	hua_iu_mode_pdp_act_tab.rgihxqxvkicpubrklqxjgp0ifl	INTEGER	#	Number of activation failures due to SCP rejection.	Sum	hustrafbh, Sum
PDP_context_activation_fail_GGSN_rejection	hua_iu_mode_pdp_act_tab.rxk4j5v5hgbk4uw5a5ogga0oia	INTEGER	#	Number of activation failures due to	Sum	hustrafbh, Sum

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				GGSN rejection.		
PDP_context_fail_insuff_res	hua_iu_mode_pdp_act_tab.wy0emmqe0wb1qrltd53hhwign	INTEGER	#	Number of activation failures due to insufficient net resources.	Sum	hustrafbh , Sum
PDP_context_fail_missing_APN	hua_iu_mode_pdp_act_tab.sfuwfbbpysbffbbsrlxkq1telyd	INTEGER	#	Number of PDP context activation failures due to APN unknown.	Sum	hustrafbh , Sum
PDP_context_fail_QoS_negotiation_fail	hua_iu_mode_pdp_act_tab.u4j1p2rjqscprutfl1wqlkedgo	INTEGER	#	Number of activation failures due to the QoS negotiation failure.	Sum	hustrafbh , Sum
PDP_context_fail_RAB_assignment_fail	hua_iu_mode_pdp_act_tab.tgslfq4dsacc2ujfpilipgftbrb	INTEGER	#	Number of activation failures due to RAB assignment failure.	Sum	hustrafbh , Sum
PDP_context_fail_srvc_not_supported	hua_iu_mode_pdp_act_tab.ygffqtwnlncicuk5uhbxfg60xd	INTEGER	#	Number of PDP context activation failures due to service unsupported.	Sum	hustrafbh , Sum
PDP_context_fail_srvc_unsubscribed	hua_iu_mode_pdp_act_tab.scgkk5xkkpcunrhyjiujhl6nec	INTEGER	#	Number of T PDP context activation failures due to requested service not subscribed.	Sum	hustrafbh , Sum
PDP_context_fail_unknown_PDP	hua_iu_mode_pdp_act_tab.th54owekercx3bhb10layxi6xy	INTEGER	#	Number of PDP context activation failures due to	Sum	hustrafbh , Sum

				unknown PDP address or PDP type.		
PDP_context_fail_unspecific_reason	hua_iu_mode_pdp_act_tab.s6v6dmnm5gcawdkblgwf3xsq4	INTEGER	#	Number of activation failures due to unspecified reasons.	Sum	hustrafbh, Sum
PDP_context_fail_user_auth_fail	hua_iu_mode_pdp_act_tab.u04a0isxvqcflcmtwnxjiil3my	INTEGER	#	Number of PDP context activation failures due to user authentication failure.	Sum	hustrafbh, Sum
PDP_context_sec_act_reject	hua_iu_mode_pdp_act_tab.vy3tj604twbpudckglppiu3fo5	INTEGER	#	Number of secondary PDP context activation failures.	Sum	hustrafbh, Sum
PDP_context_sec_act	hua_iu_mode_pdp_act_tab.rkvowypbhbk3dvl03v6brohgw	INTEGER	#	Number of attempts of MS-initiated secondary PDP context activation.	Sum	hustrafbh, Sum
PDP_context_sec_fail_Ge_fail	hua_iu_mode_pdp_act_tab.sktwewcj65bs6rc2wupsy2p2wt	INTEGER	#	Number of secondary PDP context activation failures due to Ge interface failed.	Sum	hustrafbh, Sum
PDP_context_sec_fail_GGSN_reject	hua_iu_mode_pdp_act_tab.r362srs22pcu0evkqnxnrxfnh	INTEGER	#	Number of secondary PDP context activation failures due to	Sum	hustrafbh, Sum

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				GGSN rejection.		
PDP_context_sec_fail_net_resource	hua_iu_mode_pdp_act_tab.ytnt34b64lcquokl3f4yibryh	INTEGER	#	Number of secondary PDP context activation failures due to insufficient network resources.	Sum	hustrafbh, Sum
PDP_context_sec_fail_No_Reason	hua_iu_mode_pdp_act_tab.ypsxax2gbmcbsr50msu56rdmj	INTEGER	#	Number of activation failures due to unspecified reasons.	Sum	hustrafbh, Sum
PDP_context_sec_fail_unknown_PDP	hua_iu_mode_pdp_act_tab.vmilso4dlici4rtgwdp5yjgcb2	INTEGER	#	Number of secondary PDP context activation failures due to unknown PDP address or PDP type.	Sum	hustrafbh, Sum
PDP_ctx_act_fail_Op_Det_Bar	hua_iu_mode_pdp_act_tab.xndv01s4tjbebtltvxbmxkci	INTEGER	#	Number of activation failures (due to ODB).	Sum	hustrafbh, Sum
PDP_ctx_sec_act_fail_Op_Det_Bar	hua_iu_mode_pdp_act_tab.ssdfr0knryckwuciu5sydrwf2	INTEGER	#	Number of secondary PDP context activation failures (due to ODB).	Sum	hustrafbh, Sum
Secondary_IPV4_PDP_ctx_act_suc	hua_iu_mode_pdp_act_tab.s5j4xqdidobrycelpod6hajtsj	INTEGER	#	Number of successful secondary IPv4 PDP context activations	Sum	hustrafbh, Sum
Secondary_IPV4_PDP_ctx_act	hua_iu_mode_pdp_act_tab.v2ifk65nr1bg3s1tv4gpiskayo	INTEGER	#	Number of secondary IPv4 PDP context	Sum	hustrafbh, Sum

				activation requests		
Secondary_IPV6_PDP_ctx_act_suc	hua_iu_mode_pdp_act_tab.wuxxuofatmbeisrc2amfqe wk2m	INTEGER	#	Number of successful secondary IPv6 PDP context activations	Sum	hustrafbh, Sum
Secondary_IPV6_PDP_ctx_act	hua_iu_mode_pdp_act_tab.rj6d0unxdcctud2k343sx6odu	INTEGER	#	Number of secondary IPv6 PDP context activation requests	Sum	hustrafbh, Sum
SGSN_update_PDP_context_request	hua_iu_mode_pdp_act_tab.sllcwe12jdbtvbg3o6g00kn4ne	INTEGER	#	Obsolete from R007. Number of the SGSN initiated PDP context modification requests.	Sum	hustrafbh, Sum
SGSN_update_PDP_context_success	hua_iu_mode_pdp_act_tab.w0rpvi4qplc24tnb0uvwkikx0t	INTEGER	#	Obsolete from R007. Number of the successful SGSN initiated PDP context modifications.	Sum	hustrafbh, Sum
USPU_drop_PDP_act_req_flow_ctrl	hua_iu_mode_pdp_act_tab.saan6on3xa2airvh002ind6wbq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:USPU drop PDP activation request packets of 3G due to flow control	Sum	hustrafbh, Sum

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### 6.31.49SGSN.Huawei.GPRS.lu\_Mode\_PDP\_Context\_Deactivation

Iu Mode PDP Context Deactivation measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_GGSN_init_PDP_context_deact_success	$100 * \frac{\{\text{GGSN\_init\_PDP\_context\_deact\_success}\}}{\{\text{GGSN\_init\_PDP\_context\_deact}\}}$	FLOAT	%	Percentage of successes of GGSN-initiated PDP context deactivation.	Average	Average, hustrafbh
%_MS_init_PDP_context_deact_success	$100 * \frac{\{\text{MS\_init\_PDP\_context\_deact\_success}\}}{\{\text{MS\_init\_PDP\_context\_deact}\}}$	FLOAT	%	Percentage of successes of MS-initiated PDP context deactivation.	Average	Average, hustrafbh
%_SGSN_init_PDP_context_deact_success	$100 * \frac{\{\text{SGSN\_init\_PDP\_context\_deact\_success}\}}{\{\text{SGSN\_init\_PDP\_context\_deact}\}}$	FLOAT	%	Percentage of successes of SGSN-initiated PDP context deactivation.	Average	Average, hustrafbh
GGSN_init_PDP_context_deact_success	hua_iu_mode_pdp_deact_tab.yydjbj05htc2xremfw5ss2xsd2	INTEGER	#	Number of successes of GGSN-initiated PDP context deactivation.	Sum	hustrafbh, Sum
GGSN_init_PDP_context_deact	hua_iu_mode_pdp_deact_tab.w5li6i1ytwcy0cyalaop4t0oob	INTEGER	#	Number of GGSN-initiated requests for PDP context deactivation.	Sum	hustrafbh, Sum
Max_MS_init_PDP_context_deact	hua_iu_mode_pdp_deact_tab.saan6or3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Maximum number of Iu mode MS init PDP context deact	Average	Average, hustrafbh, Maximum, Minimum, Sum
MS_init_PDP_context_deact_s	hua_iu_mode_pdp_deact_tab.u1kl1nxo30nburrktnilo	INTEGER	#	Number of successes of	Sum	hustrafbh, Sum

uccess	exi664			MS-initiated PDP context deactivation.		
MS_init_PDP_context_deact	hua_iu_mode_pdp_deact_tab.y0eoqcqjgfc34rrlseigmsofnf	INTEGER	#	Number of MS-initiated requests for PDP context deactivation.	Sum	hustrafbh, Sum
SGSN_init_PDP_context_deact_success	hua_iu_mode_pdp_deact_tab.sl1j0404fnbv0ermhci53rvgie	INTEGER	#	Number of successes of SGSN-initiated PDP context deactivation.	Sum	hustrafbh, Sum
SGSN_init_PDP_context_deact	hua_iu_mode_pdp_deact_tab.ur151fxpk0cdquuky1oxcvioci	INTEGER	#	Number of SGSN-initiated requests for PDP context deactivation.	Sum	hustrafbh, Sum

### 6.31.50SGSN.Huawei.GPRS.Iu\_Mode\_PDP\_Context\_Modification

Iu Mode PDP Context Modification measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_GGSN_init_PDP_context_modify_suc	$100 * \frac{\{GGSN\_init\_PDP\_context\_modify\_suc\}}{\{GGSN\_init\_PDP\_context\_modify\}}$	FLOAT	%	Percentage of successes of GGSN-initiated PDP context modification.	Average	Average, hustrafbh
%_IU_RAB_Rel_init_PDP_context_modify_suc	$100 * \frac{\{IU\_RAB\_Rel\_init\_PDP\_context\_modify\_suc\}}{\{IU\_RAB\_Rel\_init\_PDP\_context\_modify\}}$	FLOAT	%	Percentage of PDP context modification successes due to Iu/RAB release.	Average	Average, hustrafbh

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%_MS_init_PDP_context_modify_suc	100 * {MS_init_PDP_context_modify_suc}/ {MS_init_PDP_context_modify}	FLOAT	%	Percentage of MS-initiated PDP context modification successes.	Average	Average, hustrafbh
%_RNC_init_PDP_ctx_modify_suc	100 * {RNC_init_PDP_ctx_modify_suc}/ {RNC_init_PDP_ctx_modify}	FLOAT	%	Percentage of successful RNC-originated PDP modifications	Average	Average, hustrafbh
%_SGSN_init_PDP_context_modify_suc	100 * {SGSN_init_PDP_context_modify_suc}/ {SGSN_init_PDP_context_modify}	FLOAT	%	Percentage of successes of SGSN-initiated PDP context modification.	Average	Average, hustrafbh
GGSN_init_PDP_context_modify_suc	hua_iu_mode_pdp_modify_t ab.skjcksjiwlbwfeqew2akdl jmdm	INTEGER	#	Number of successes of GGSN-initiated PDP context modification.	Sum	hustrafbh, Sum
GGSN_init_PDP_context_modify	hua_iu_mode_pdp_modify_t ab.viafvdrnctblpcnxu3liw6 e0mb	INTEGER	#	Number of GGSN-initiated requests for PDP context modification.	Sum	hustrafbh, Sum
Iu_mode_SGSN_modify_PDP_context_request	hua_iu_mode_pdp_modify_t ab.tl63xrgny42ahc3lr02inc nmdw	INTEGER	#	Number of Modify PDP Context Request message sent by SGSN to MS.	Sum	hustrafbh, Sum
Iu_mode_SGSN_modify_PDP_context_success	hua_iu_mode_pdp_modify_t ab.tl63xriny42ahc3lr02inc mdw	INTEGER	#	Number of Modify PDP context accept message received by SGSN from MS.	Sum	hustrafbh, Sum
Iu_mode_SGSN_update_PDP	hua_iu_mode_pdp_modify_t ab.tl63xrkny42ahc3lr02inc	INTEGER	#	Number of Update PDP	Sum	hustrafbh, Sum

_context_request	nmdw			Context Request message sent by SGSN to GGSN.		
Iu_mode_SGSN_update_PDP_context_success	hua_iu_mode_pdp_modif_t ab.tl63xrmny42ahc3lr02inc nmdw	INTEGER	#	Number of Update PDP Context Response message with cause of "Request Accepted" received by SGSN from MS.	Sum	hustrafbh, Sum
IU_RAB_Rel_init_PDP_ctxt_modify_suc	hua_iu_mode_pdp_modif_t ab.y4nmhirhsjcuakdlero 4k2ln	INTEGER	#	Number of PDP context modification successes due to Iu/RAB release.	Sum	hustrafbh, Sum
IU_RAB_Rel_init_PDP_ctxt_modify	hua_iu_mode_pdp_modif_t ab.wnway6w1lfcyeuvvmcc gv0hocf	INTEGER	#	Number of PDP context modifications due to IU/RAB release.	Sum	hustrafbh, Sum
MS_init_PDP_context_modify_suc	hua_iu_mode_pdp_modif_t ab.swp6vmfu0nb0vd2a4qpi 4q2mw4	INTEGER	#	Number of MS-initiated PDP context modification successes.	Sum	hustrafbh, Sum
MS_init_PDP_context_modify	hua_iu_mode_pdp_modif_t ab.xmiyxmrb2ybiotbneqnth n1vtv	INTEGER	#	Number of MS-initiated requests for PDP context modification.	Sum	hustrafbh, Sum
RNC_init_PDP	hua_iu_mode_pdp_modif_t	INTEGER	#	Number of	Sum	hustrafbh

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_ctx_modify_suc	ab.uoe002qfjtcuic5rl0lbmvos6c	ER		successful RNC-originated PDP modifications		, Sum
RNC_init_PDP_ctx_modify	hua_iu_mode_pdp_modif_t ab.vte0qbypvsc42evcawgg uaslnh	INTEGER	#	Number of RNC-originated PDP modification attempts	Sum	hustrafbh, Sum
SGSN_init_PDP_context_modify_suc	hua_iu_mode_pdp_modif_t ab.sbt0eh4doybpriu5nkuyg gee61	INTEGER	#	Number of successes of SGSN-initiated PDP context modification.	Sum	hustrafbh, Sum
SGSN_init_PDP_context_modify	hua_iu_mode_pdp_modif_t ab.rjqwmo623cb1sc4cb23n w6m2tt	INTEGER	#	Number of SGSN-initiated requests for PDP context modification.	Sum	hustrafbh, Sum

### 6.31.51SGSN.Huawei.GPRS.Iu\_Mode\_PDP\_Context\_Reserve

Iu Mode PDP Context Reserve measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_SGSN_init_PDP_ctxt_preservation_suc	100 * {SGSN_init_PDP_ctxt_preservation_suc}/ {SGSN_init_PDP_ctxt_preservation}	FLOAT	%	Percentage of PDP context preservation successes.	Average	Average, hustrafbh
Avg_preserved_PDP_ctxt	hua_iu_mode_pdp_reserve _tab.stnk0tw30kcq6snx33y nx4v0dk	INTEGER	#	The arithmetical mean of the number of PDP contexts in preserved status.	Average	Average, hustrafbh, Maximum, Minimum, Sum
SGSN_init_PDP_ctxt_preservation_suc	hua_iu_mode_pdp_reserve _tab.xhfnbxi5ddc33uf05nu cih5pm0	INTEGER	#	Number of PDP context preservation	Sum	hustrafbh, Sum

				successes.		
SGSN_init_PD P_ctxt_preservation	hua_iu_mode_pdp_reserve tab.y52mopg5mqcudtu3t 01knyf2vm	INTEGER	#	Number of executions of the preservation process.	Sum	hustrafbh , Sum

### 6.31.52SGSN.Huawei.GPRS.lu\_Mode\_RAB

Iu Mode RAB measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_MS_init_RAB_re_establish_success	$100 * \frac{\{MS\_init\_RAB\_re\_establish\_success\}}{\{MS\_init\_RAB\_re\_establish\}}$	FLOAT	%	Percentage of MS-initiated RAB reestablishment successes.	Average	Average, hustrafbh
%_SGSN_init_RAB_re_establish_success	$100 * \frac{\{SGSN\_init\_RAB\_re\_establish\_success\}}{\{SGSN\_init\_RAB\_re\_establish\}}$	FLOAT	%	Percentage of SGSN-initiated RAB reestablishment successes.	Average	Average, hustrafbh
MS_init_RAB_re_establish_success	hua_iu_mode_rab_tab.uetx 5efjuebqpeo2rikaqkr4ye	INTEGER	#	Number of MS-initiated RAB reestablishment successes.	Sum	hustrafbh , Sum
MS_init_RAB_re_establish	hua_iu_mode_rab_tab.ubxc t2lrhlcpt2tar5y4w2x0n	INTEGER	#	Number of MS-initiated RAB reestablishment requests.	Sum	hustrafbh , Sum
RANAP_RAB_assign_att_background	hua_iu_mode_rab_tab.rmih tq1sqbbrodyoeja3325gk	INTEGER	#	Number of attempted assignments of Background QoS Class	Sum	hustrafbh , Sum

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				RANAP RAB.		
RANAP_RAB _assign_att_co nversational	hua_iu_mode_rab_tab.wgd 3fmrivrbyhbn26m4fwjqsm s	INTEG ER	#	Number of attempted assignments of Conversational QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB _assign_att_int eractive	hua_iu_mode_rab_tab.sa5v kgdpd0b40t64h2tlysovx	INTEG ER	#	Number of attempted assignments of Interactive QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB _assign_att_str eaming	hua_iu_mode_rab_tab.ted4 yirbo2bmxsy6xjna21f2b	INTEG ER	#	Number of attempted assignments of Streaming QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB _assign_rec_fai l_background	hua_iu_mode_rab_tab.tjcg ufgkbc14ucjln02rphwq	INTEG ER	#	Number of unsuccessful assignments of Background QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB _assign_rec_fai l_conversationa l	hua_iu_mode_rab_tab.xrep 12w1nebandfy3i1duvrnh1	INTEG ER	#	Number of unsuccessful assignments of Conversational QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB _assign_rec_fai l_interactive	hua_iu_mode_rab_tab.x4tk 0mwfspcjdsdr123ireptm1	INTEG ER	#	Number of unsuccessful assignments of Interactive QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB _assign_rec_fai l_streaming	hua_iu_mode_rab_tab.x14n 6s6r1jcbtsku6cbiy5bcq3	INTEG ER	#	Number of unsuccessful assignments of Streaming QoS	Sum	hustrafbh , Sum

				Class RANAP RAB.		
RANAP_RAB_assign_rec_suc_background	hua_iu_mode_rab_tab.xcvnwfdpnicp5tr3lsklomdlpy	INTEGER	#	Number of successful assignments of Background QoS Class RANAP RAB.	Sum	hustrafbh, Sum
RANAP_RAB_assign_rec_suc_conversational	hua_iu_mode_rab_tab.rsulmefitbcu2r3acsku2vsrct	INTEGER	#	Number of successful assignments of Conversational QoS Class RANAP RAB.	Sum	hustrafbh, Sum
RANAP_RAB_assign_rec_suc_interactive	hua_iu_mode_rab_tab.rg6rhmh104ckku1oelwuu3trid	INTEGER	#	Number of successful assignments of Interactive QoS Class RANAP RAB.	Sum	hustrafbh, Sum
RANAP_RAB_assign_rec_suc_streaming	hua_iu_mode_rab_tab.v5vm4e55iobkasvh4m13wqysw0	INTEGER	#	Number of successful assignments of Streaming QoS Class RANAP RAB.	Sum	hustrafbh, Sum
RANAP_RAB_mod_att_background	hua_iu_mode_rab_tab.rak0qnxsrjcorulikjken1a6mt	INTEGER	#	Number of attempted modifications to Background QoS Class RANAP RAB.	Sum	hustrafbh, Sum
RANAP_RAB_mod_att_conversational	hua_iu_mode_rab_tab.s3urm2djvdr0bvuu00shikd4ay	INTEGER	#	Number of attempted modifications to Conversational QoS Class	Sum	hustrafbh, Sum

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				RANAP RAB.		
RANAP_RAB_mod_att_interactive	hua_iu_mode_rab_tab.s6ae16y14pcbitewk55kjnnnrg	INTEGER	#	Number of attempted modifications to Interactive QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_mod_att_streaming	hua_iu_mode_rab_tab.uoay04e1q6comsl4qhuw3bd1p1	INTEGER	#	Number of attempted modifications to Streaming QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_mod_fail_background	hua_iu_mode_rab_tab.wdua0gef4bavrflqoqunriold	INTEGER	#	Number of unsuccessful modifications to Background QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_mod_fail_conversational	hua_iu_mode_rab_tab.ypnbx0okctbserhmugyng2cjc2	INTEGER	#	Number of unsuccessful modifications to Conversational QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_mod_fail_interactive	hua_iu_mode_rab_tab.ymv223solxbkhsgblljop61mf3	INTEGER	#	Number of unsuccessful modifications to Interactive QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_mod_fail_streaming	hua_iu_mode_rab_tab.xdwumlbpqwlbp1dcs1hian3kxrq	INTEGER	#	Number of unsuccessful modifications to Streaming QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_mod_success_background	hua_iu_mode_rab_tab.tnxmlysmd0kcqsug2ubj0n1jcef	INTEGER	#	Number of successful modifications	Sum	hustrafbh , Sum

				to Background QoS Class RANAP RAB.		
RANAP_RAB_mod_success_conversational	hua_iu_mode_rab_tab.ut5wu0y0sdbgubywq5xhg1yblf	INTEGER	#	Number of successful modifications to Conversational QoS Class RANAP RAB.	Sum	hustrafbh, Sum
RANAP_RAB_mod_success_interactive	hua_iu_mode_rab_tab.rq63sop4qkchcc4441fn2tl202	INTEGER	#	Number of successful modifications to Interactive QoS Class RANAP RAB.	Sum	hustrafbh, Sum
RANAP_RAB_mod_success_streaming	hua_iu_mode_rab_tab.xaeqmao3qnbhsbvntvwqjry016	INTEGER	#	Number of successful modifications to Streaming QoS Class RANAP RAB.	Sum	hustrafbh, Sum
RANAP_RAB_release_attempt_background	hua_iu_mode_rab_tab.w2rellgvlpf5rqialwgf2slv	INTEGER	#	Number of attempted releases of Background QoS Class RANAP RAB assignment.	Sum	hustrafbh, Sum
RANAP_RAB_release_attempt_conversational	hua_iu_mode_rab_tab.v0rx0xwvedcpebpbiut4yuma5h	INTEGER	#	Number of attempted releases of Conversational QoS Class RANAP RAB assignment.	Sum	hustrafbh, Sum
RANAP_RAB_release_attempt	hua_iu_mode_rab_tab.xv04vk01qmctusxmt0puyoh30f	INTEGER	#	Number of attempted	Sum	hustrafbh, Sum

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pt_interactive				releases of Interactive QoS Class RANAP RAB.		
RANAP_RAB_release_attempt_streaming	hua_iu_mode_rab_tab.wfcior4xf2beqrss1c4q26vktk	INTEGER	#	Number of attempted releases of Streaming QoS Class RANAP RAB assignment.	Sum	hustrafbh , Sum
RANAP_RAB_release_success_background	hua_iu_mode_rab_tab.w5ffw4wlydcbes1b5lnxkm5anr	INTEGER	#	Number of successful releases of Background QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_release_success_conversational	hua_iu_mode_rab_tab.s5rtl4ofxcigr1u3dy51dujyv	INTEGER	#	Number of successful releases of Conversational QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_release_success_interactive	hua_iu_mode_rab_tab.ytgajyfkqqccacrhxl33j540si	INTEGER	#	Number of successful releases of Interactive QoS Class RANAP RAB.	Sum	hustrafbh , Sum
RANAP_RAB_release_success_streaming	hua_iu_mode_rab_tab.xjmkkt06w5ckhdg6v4axmr415u	INTEGER	#	Number of successful releases of Streaming QoS Class RANAP RAB.	Sum	hustrafbh , Sum
SGSN_init_RAB_re_establish_success	hua_iu_mode_rab_tab.xlx4fqpdysbmorpri0wqvgoql	INTEGER	#	Number of SGSN-initiated RAB reestablishment successes.	Sum	hustrafbh , Sum
SGSN_init_RAB	hua_iu_mode_rab_tab.xmn	INTEGER	#	Number of	Sum	hustrafbh

B_re_establish	m65svm1bxfuwsv6x0obuqu5	ER		SGSN-initiated RAB reestablishment requests.		, Sum
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### 6.31.53SGSN.Huawei.GPRS.Iu\_Mode\_Radio\_Resource

Iu Mode Radio Resource measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Atted_avg_SIM_user_number	hua_iu_mode_radio_tab.saan6jb3xa2airvh002ind6wb g	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Average number of Iu mode attached SIM user	Average	Average, hustrafbh , Maximum, Minimum, Sum
Atted_avg_USIM_user_number	hua_iu_mode_radio_tab.saan6jb3xa2airvh002ind6wb g	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Average number of Iu mode attached USIM user	Average	Average, hustrafbh , Maximum, Minimum, Sum
Avg_attach_duration	hua_iu_mode_radio_tab.suwaanw2sbbwjrgy23iayes34g	INTEGER	seconds	Mean attaching duration of 3G users within the measurement period.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Avg_attached_users	hua_iu_mode_radio_tab.sw0y5mmevpbxvekerl6uyvqpah	INTEGER	#	The recorded maximum number of attached users	Average	Average, hustrafbh , Maximum

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				within the SGSN area.		m, Minimum, Sum
Avg_Attd_user_of_connectPLMN	hua_iu_mode_radio_tab.san6iv3xa2airvh002ind6wbhg	INTEGER	#	The arithmetical mean of the number of 3G attached subscribers of connect PLMN within this SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_Attd_users_of_home_PLMN	hua_iu_mode_radio_tab.san6ip3xa2airvh002ind6wbhg	INTEGER	#	The arithmetical mean of the number of 3G attached subscribers of home PLMN within this SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_users_at_PMM_CONNECTED_status	hua_iu_mode_radio_tab.u3c30box6ybisuw3dpcxyep02k	INTEGER	#	The mean of the number of users in the "PMM-CONNECTED" status within the SGSN area.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_users_at_PMM_IDLE_status	hua_iu_mode_radio_tab.unbfwi0s0ac3ttugwwm22alco	INTEGER	#	The mean of the number of users in the "PMM-IDLE" status within the SGSN area.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Max_attached_users	hua_iu_mode_radio_tab.y44xcftj1kbtwtuq2hdfqhu010	INTEGER	#	Maximum number of attached users within the SGSN area.	Constant	Average, hustrafbh, Maximum, Minimum, Sum

Max_Attd_use r_of_connectPL MN	hua_iu_mode_radio_tab.s an6ix3xa2airvh002ind6wb g	INTEG ER	#	The recorded maximum number of 3G attached subscrabers of connect PLMN within the SGSN area.	Average	Average, hustrafbh , Maximu m, Minimu m, Sum
Max_Attd_use rs_of_home_PL MN	hua_iu_mode_radio_tab.s an6ir3xa2airvh002ind6wb g	INTEG ER	#	The recorded maximum number of 3G attached subscrabers of home PLMN within the SGSN area.	Average	Average, hustrafbh , Maximu m, Minimu m, Sum
Max_users_at_ PMM_CONNE CTED_status	hua_iu_mode_radio_tab.ra sgmaemg0bmht1f3wrcaup die	INTEG ER	#	The recorded maximum number of users in the "PMM- CONNECTED " status within the SGSN area.	Constant	Average, hustrafbh , Maximu m, Minimu m, Sum
Max_users_at_ PMM_IDLE_st atus	hua_iu_mode_radio_tab.w dd6lisqthbdsc6c02nhh6nee d	INTEG ER	#	The recorded maximum number of users in the "PMM-IDLE" status within the SGSN area.	Constant	Average, hustrafbh , Maximu m, Minimu m, Sum
New_attach_su ccess	hua_iu_mode_radio_tab.rg myap5451bj5eginlha3mku xo	INTEG ER	#	Total number of successful GPRS attachments.	Sum	hustrafbh , Sum
Realtime_Att_u ser_connectPL MN	hua_iu_mode_radio_tab.s an6it3xa2airvh002ind6wb g	INTEG ER	#	The realtime total number of 3G attached	Average	Average, hustrafbh ,

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				subscrabers of connect PLMN in this SGSN.		Maximum, Minimum, Sum
Realtime_Att_user_homePLMN	hua_iu_mode_radio_tab.san6in3xa2airvh002ind6wb g	INTEGER	#	The realtime total number of 3G attached subscrabers of home PLMN in this SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Realtime_attached_users	hua_iu_mode_radio_tab.t4c1cr0raec4ptujj41flxn2n6	INTEGER	#	The arithmetical mean of the number of attached users within this SGSN.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Realtime_HSDPA_users	hua_iu_mode_radio_tab.san6j43xa2airvh002ind6wb g	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :The realtime number of HSDPA users	Average	Average, hustrafbh, Maximum, Minimum, Sum
Realtime_HSPA_users	hua_iu_mode_radio_tab.san6j03xa2airvh002ind6wb g	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :The realtime number of HSPA users	Average	Average, hustrafbh, Maximum, Minimum, Sum
Realtime_HSUPA_users	hua_iu_mode_radio_tab.san6j23xa2airvh002ind6wb g	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :The realtime number of HSUPA users	Average	Average, hustrafbh, Maximum, Minimum, Sum
Total_attach_duration	hua_iu_mode_radio_tab.vout3a63tec4uu5ebk3olqx ku	INTEGER	seconds	Total number of 3G users ever attached	Sum	hustrafbh, Sum

				within the measurement period.		
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### 6.31.54SGSN.Huawei.GPRS.lu\_Mode\_Security

Iu Mode Security measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Authentication_success	$100 * \frac{\{\text{Authentication\_success}\}}{\{\text{Authentication\_request}\}}$	FLOAT	%	Percentage of successful authentications within this SGSN.	Average	Average, hustrafbh
%_Identity_success	$100 * \frac{\{\text{Identity\_success}\}}{\{\text{Identity\_request}\}}$	FLOAT	%	Percentage of successful identification processes initiated by this SGSN.	Average	Average, hustrafbh
%_P_TMSI_reallocation_success	$100 * \frac{\{\text{P\_TMSI\_reallocation\_success}\}}{\{\text{P\_TMSI\_reallocation\_request}\}}$	FLOAT	%	Percentage of successfully executed P-TMSI reallocation processes within this SGSN.	Average	Average, hustrafbh
%_Security_mode_control_success	$100 * \frac{\{\text{Security\_mode\_control\_success}\}}{\{\text{Security\_mode\_control\_request}\}}$	FLOAT	%	Percentage of successful ciphering mode control procedures initiated by this SGSN.	Average	Average, hustrafbh
Auth_and_cipher_reject	hua_iu_mode_security_tab.vkm5c554cybjqu56xnyg fxwbn3	INTEGER	#	Number of "AUTHENTICATION AND CIPHERING	Sum	hustrafbh, Sum

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				REJECT" messages sent.		
Auth_and_cypher_response	hua_iu_mode_security_tab.ydx33jqoy3bs4r2rr4xchmh60q	INTEGER	#	Number of "AUTHENTICATION AND CIPHERING RESPONSE" messages received.	Sum	hustrafbh , Sum
Authentication_request	hua_iu_mode_security_tab.u6kvn3dmskcx4smv0r5lshwav	INTEGER	#	Number of authentications started within this SGSN.	Sum	hustrafbh , Sum
Authentication_success	hua_iu_mode_security_tab.rkucbcjgivb2vrhxtepr4k216	INTEGER	#	Number of successful authentications within this SGSN.	Sum	hustrafbh , Sum
Identity_req_with_IMEI_IMEISV	hua_iu_mode_security_tab.saan6ij3xa2airvh002ind6wbg	INTEGER	#	Number of ID requests initiated by SGSN(with IMEI or IMEISV).	Sum	hustrafbh , Sum
Identity_request	hua_iu_mode_security_tab.wdtggi4rkvbvleucfoyi6042c0	INTEGER	#	Number of requests for identification initiated by this SGSN.	Sum	hustrafbh , Sum
Identity_succ_with_IMEI_IMEISV	hua_iu_mode_security_tab.saan6il3xa2airvh002ind6wbg	INTEGER	#	Number of successful identifications(with IMEI or IMEISV).	Sum	hustrafbh , Sum
Identity_success	hua_iu_mode_security_tab.y10cisprfbcxtr5qj2t3wk5s42	INTEGER	#	Number of successful identification processes initiated by this SGSN.	Sum	hustrafbh , Sum
IMEI_check_request	hua_iu_mode_security_tab.wsgppww5jgbs3tr2pecsf11knw	INTEGER	#	Number of IMEI check processes initiated by this	Sum	hustrafbh , Sum

				SGSN.		
IMEI_check_response	hua_iu_mode_security_table.ufu5gf240jcx3tj4c5wm34ttmd	INTEGER	#	Number of successful IMEI check processes initiated by this SGSN.	Sum	hustrafbh, Sum
Iu_mode_SIM_authentication_request_times	hua_iu_mode_security_table.tl63xqmny42ahc3lr02incnmdw	INTEGER	#	Number of authentication requests initiated by SGSN.	Sum	hustrafbh, Sum
Iu_mode_SIM_authentication_success_times	hua_iu_mode_security_table.tl63xqony42ahc3lr02incnmdw	INTEGER	#	Number of successful authentications.	Sum	hustrafbh, Sum
Iu_mode_USIM_authentication_request_times	hua_iu_mode_security_table.tl63xqqny42ahc3lr02incnmdw	INTEGER	#	Number of authentication requests initiated by SGSN.	Sum	hustrafbh, Sum
Iu_mode_USIM_authentication_success_times	hua_iu_mode_security_table.tl63xqsny42ahc3lr02incnmdw	INTEGER	#	Number of successful authentications.	Sum	hustrafbh, Sum
P_TMSI_reallocation_request	hua_iu_mode_security_table.rjrrpk0dmqbaure3nwky myyq4y	INTEGER	#	Number of requests for P-TMSI reallocation displayed within this SGSN or included in the location update process.	Sum	hustrafbh, Sum
P_TMSI_reallocation_success	hua_iu_mode_security_table.x0gluamhlsblikndn3u5c3qsx	INTEGER	#	Number of successfully executed P-TMSI reallocation processes within this SGSN.	Sum	hustrafbh, Sum
Security_mode_	hua_iu_mode_security_ta	INTEGER	#	Definition	Sum	hustrafbh

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control_request	b.swpj3fmt2rcedrai3sug16qs	ER		Number of requests for ciphering mode control initiated by this SGSN.		, Sum
Security_mode_control_success	hua_iu_mode_security_talb.tvbiks1kntexlr063qjndnl0m2	INTEGER	#	Number of successful ciphering mode control procedures initiated by this SGSN.	Sum	hustrafbh, Sum

### 6.31.55SGSN.Huawei.GPRS.Iu\_Mode\_Service\_Handover

Iu Mode Service Handover measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
HO_to_GSM_shall_not_be_performed	hua_iu_mode_serv_ho_tab.rnmhhsvtitbrwtqw1nph6gm6dg	INTEGER	#	Number of Iu service handovers that the result is "shall not be" handed over to 2G GSM.	Sum	hustrafbh, Sum
HO_to_GSM_should_be_performed	hua_iu_mode_serv_ho_tab.u0kyt20vdbi5b0okfiqeaakbbn	INTEGER	#	Number of Iu service handovers that the result is "should be" handed over to 2G GSM.	Sum	hustrafbh, Sum
HO_to_GSM_should_not_be_performed	hua_iu_mode_serv_ho_tab.t6ww33qqf5bt6ewxdorstjxv5u	INTEGER	#	Number of Iu service handovers that the result is "should not be" handed over to 2G GSM.	Sum	hustrafbh, Sum

**6.31.56SGSN.Huawei.GPRS.lu\_Mode\_Service\_Request**

lu Mode Service Request measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_Request_data_caused_success	$100 * \frac{\{\text{Service\_Request\_data\_cause\_suc}\}}{\{\text{Service\_Request\_Data\_cause}\}}$	FLOAT	%	Percentage of subscriber successes in initiating service requests of the data type.	Average	Average, hustrafbh
%_Request_signalling_caused_success	$100 * \frac{\{\text{Service\_Request\_signalling\_cause\_suc}\}}{\{\text{Service\_Request\_signalling\_cause}\}}$	FLOAT	%	Percentage of subscriber successes in initiating service requests of the signaling type.	Average	Average, hustrafbh
%_Request_success	$100 * \frac{\{\text{Service\_Request\_success}\}}{\{\text{Service\_Request}\}}$	FLOAT	%	Percentage of successful service requests initiated by the subscriber.	Average	Average, hustrafbh
service_reject_msg_sent_by_SGSN	hua_iu_mode_service_tab.wx4u6lyedec5ad4gflfq2pcojfb6	INTEGER	#	Number of rejected service requests initiated by the subscriber.	Sum	hustrafbh, Sum
Service_Request_data_cause_success	hua_iu_mode_service_tab.snukticfwac1ucej3abvyutvb6	INTEGER	#	Number of subscriber successes in initiating service requests of the data type.	Sum	hustrafbh, Sum
Service_Request_Data_cause	hua_iu_mode_service_tab.uxff6hdeihb3uepor0swage25u	INTEGER	#	Number of attempts by the subscriber in	Sum	hustrafbh, Sum

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				initiating service requests of the data type.		
Service_Request_signalling_cause_suc	hua_iu_mode_service_tab.tw2ulg3ld3cfwbqp45duy0u5ra	INTEGER	#	Number of subscriber successes in initiating service requests of the signaling type.	Sum	hustrafbh, Sum
Service_Request_signalling_cause	hua_iu_mode_service_tab.swtw4eelo1b2btii35rq1fu5gi	INTEGER	#	Number of attempts by the subscriber in initiating service requests of the signaling type.	Sum	hustrafbh, Sum
Service_Request_success	hua_iu_mode_service_tab.whofa40ty0cqysxicv06wi5g5l	INTEGER	#	Number of successful service requests initiated by the subscriber.	Sum	hustrafbh, Sum
Service_Request	hua_iu_mode_service_tab.xkfe3f2ketcsncl1xyxa22wa0	INTEGER	#	Number of attempts by the subscriber in initiating service requests.	Sum	hustrafbh, Sum
USPU_drop_Serv_req_flow_ctrl	hua_iu_mode_service_tab.saan6jd3xa2airvh002ind6wbq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:USPU drop Service request packets of 3G due to flow control	Sum	hustrafbh, Sum

### 6.31.57SGSN.Huawei.GPRS.lu\_Mode\_SM\_L3

Iu Mode SM L3 measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
L3_SM_msg_rec	hua_iu_mode_sm_l3_tab.u i3wniqkdlcnru3oxhisdwtkf d	INTEGER	#	Number of L3 signalling received by SGSN 3G SM.	Sum	hustrafbh , Sum
L3_SM_msg_sent	hua_iu_mode_sm_l3_tab.r wblv0oqiwbfdbabx352p5x 45b	INTEGER	#	Number of L3 signalling sent by SGSN 3G SM.	Sum	hustrafbh , Sum

### 6.31.58SGSN.Huawei.GPRS.lu\_Mode\_SM\_Resource

Iu Mode SM Resource measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Act_PDP_context_success	hua_iu_mode_sm_res_tab. xbs0ugg1gcbpceshkaoc2n qjkk	INTEGER	#	Total number of successful 3G PDP contexts activation.	Sum	hustrafbh , Sum
Avg_act_PDP_Sessions_background	hua_iu_mode_sm_res_tab. yn4532yflgb4sber4jo2yws lko	INTEGER	#	Arithmetical mean of active PDP contexts for QoS class Background within the measurement period.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Avg_act_PDP_Sessions_conversation	hua_iu_mode_sm_res_tab. v2rc2law5oc6cbyrkxnkeao 3cy	INTEGER	#	Arithmetical mean of active PDP contexts for QoS class Conversation within the	Average	Average, hustrafbh , Maximum, Minimum

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				measurement period.		m, Sum
Avg_act_PDP_Sessions_interactive	hua_iu_mode_sm_res_tab.rvsx1mvhh0c4bbr25k0qlfingm	INTEGER	#	Arithmetical mean of active PDP contexts for QoS class Interactive within the measurement period.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_act_PDP_Sessions_streaming	hua_iu_mode_sm_res_tab.yi3x0a0ka3blbdsrwws0kfqcc	INTEGER	#	Arithmetical mean of active PDP contexts for QoS class Streaming within the measurement period.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_active_PDP_context	hua_iu_mode_sm_res_tab.wbkqrokp0kbonutmifievfdulv	INTEGER	#	Arithmetical mean of active PDP contexts.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_PDP_activation_duration	hua_iu_mode_sm_res_tab.t5d4tewgshbdirbe2c51ali3p	INTEGER	seconds	Mean activation duration of 3G sessions within the measurement period.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_users_with_active_PDP_context	hua_iu_mode_sm_res_tab.rjuf0scmd1b1ctfn1514aydtx1	INTEGER	#	Arithmetical mean of mobile users with PDP context activated (i.e. the users are able to transmit/receive GPRS packet data).	Average	Average, hustrafbh, Maximum, Minimum, Sum

Max_active_PDP_context	hua_iu_mode_sm_res_tab.r560x50rw4c0drrq5vd5amwf6n	INTEGER	#	Maximum recorded number of the active PDP contexts.	Constant	Average, hustrafbh, Maximum, Minimum, Sum
Max_users_with_active_PDP_context	hua_iu_mode_sm_res_tab.v41mtekwskb0isrwwhtijk6wk	INTEGER	#	Maximum recorded number of mobile users with PDP context activated (i.e. the users are able to transmit/receive GPRS packet data).	Constant	Average, hustrafbh, Maximum, Minimum, Sum
Realtime_PDP_context	hua_iu_mode_sm_res_tab.w1setvc11kcrkbtqt54ehgd0al	INTEGER	#	Number of activated 3G sessions within the measurement period.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Total_PDP_activation_duration	hua_iu_mode_sm_res_tab.vv1w00ujb0c0wbtltut2rq2g10y	INTEGER	seconds	Total activation duration of the 3G sessions within the measurement period.	Sum	hustrafbh, Sum

### 6.31.59SGSN.Huawei.GPRS.lu\_mode\_tunnel\_SM

Iu mode tunnel measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregat	Other Aggrega
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					or	tors
PDP_1Tunnel_PDP_2Tunnel_fail	hua_m117440683_tab.saa n6rt3xa2airvh002ind6wbg	INTEGER	#	Number of One Tunnel PDP context changed to Two Tunnel PDP context failure	Sum	hustrafbh
PDP_1Tunnel_PDP_2Tunnel_succ	hua_m117440683_tab.saa n6rp3xa2airvh002ind6wbg	INTEGER	#	Number of One Tunnel PDP context changed to Two Tunnel PDP context success	Sum	hustrafbh
PDP_2Tunnel_PDP_1Tunnel_fail	hua_m117440683_tab.saa n6rv3xa2airvh002ind6wbg	INTEGER	#	Number of Two Tunnel PDP context changed to One Tunnel PDP context failure	Sum	hustrafbh
PDP_2Tunnel_PDP_1Tunnel_succ	hua_m117440683_tab.saa n6rr3xa2airvh002ind6wbg	INTEGER	#	Number of Two Tunnel PDP context changed to One Tunnel PDP context success	Sum	hustrafbh

### 6.31.60SGSN.Huawei.GPRS.lu\_Mode\_User\_Access\_Reject

Iu Mode User Access Reject measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
High_level_user_access_reject	hua_iu_mode_user_reject_tab.yjfsxgtcgqbj2rnmeqaepcojfm	INTEGER	#	Number of times that the PDP context activation is rejected for high class users in Iu mode.	Sum	hustrafbh, Sum
Low_level_user_access_reject	hua_iu_mode_user_reject_tab.w3ijysdnqib24rnncyn	INTEGER	#	Number of times that the	Sum	hustrafbh, Sum

	bohq26q			PDP context activation is rejected for low class users in Iu mode.		
Normal_user_access_reject	hua_iu_mode_user_reject_tab.rbuu3evl6yco0dbkbsy5luf6a	INTEGER	#	Number of times that the PDP context activation is rejected for normal class users in Iu mode.	Sum	hustrafbh, Sum

### 6.31.61SGSN.Huawei.GPRS.LCS

LCS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_MS_init_loc_srvcs	$100 * \frac{\{\text{MS\_init\_loc\_svc\_success}\}}{\{\text{MS\_init\_loc\_svc\_request}\}}$	FLOAT	%	Percentage of successful LCS MO procedures.	Average	Average, hustrafbh
%_MS_terminated_loc_srvcsuccess	$100 * \frac{\{\text{MS\_terminated\_loc\_svc\_success}\}}{\{\text{MS\_terminated\_loc\_svc\_request}\}}$	FLOAT	%	Percentage of successful LCS MO procedures.	Average	Average, hustrafbh
%_Network_init_loc_srvcsuccess	$100 * \frac{\{\text{Network\_init\_loc\_svc\_success}\}}{\{\text{Network\_init\_loc\_svc\_request}\}}$	FLOAT	%	Percentage of successful LCS NI procedures.	Average	Average, hustrafbh
LCS_LDR_fail_internal_time	hua_lcs_tab.tqhtec5ommcuxrfpmefxogumql	INTEGER	#	Number of unsuccessful	Sum	hustrafbh, Sum

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eout				LDR procedures with cause INTERNAL_TIMEOUT.		
LCS_LDR_fail_mt_lr_restart	hua_lcs_tab.ro4q36rwwocl3srobvh24f4n45	INTEGER	#	Number of unsuccessful LDR procedures with cause MTLR_RESTART.	Sum	hustrafbh, Sum
LCS_LDR_fail_normal	hua_lcs_tab.r4oyvt5vpkcege2i6xoclrdsvc	INTEGER	#	Number of unsuccessful LDR procedures with cause NORMAL.	Sum	hustrafbh, Sum
LCS_LDR_fail_not_normal	{LCS_LDR_fail_internal_timeout} + {LCS_LDR_fail_mt_lr_restart} + {LCS_LDR_fail_privacy_violation} + {LCS_LDR_fail_shape_of_loc_not_supp}	INTEGER	#	Number of unsuccessful LDR procedures with cause INTERNAL_TIMEOUT, MTLR_RESTART, PRIVACY_VIOLATION and SHAPE_OF_LOCATION_ESTIMATE_NOT_SUPPORTED.	Sum	hustrafbh, Sum
LCS_LDR_fail_privacy_violation	hua_lcs_tab.rsd4luvco4cb6e1prkbkaaf03a	INTEGER	#	Number of unsuccessful LDR procedures with cause PRIVACY_VIOLATION.	Sum	hustrafbh, Sum
LCS_LDR_fail_shape_of_loc_not_supp	hua_lcs_tab.x23ypjvk22cg4svjueta34wrke	INTEGER	#	Number of unsuccessful LDR procedures with cause SHAPE_OF_LOCATION_ESTIMATE_NOT_SUPPORTED.	Sum	hustrafbh, Sum

LCS_LDR_GMLC_cancel_deferred_loc	hua_lcs_tab.utlxyxlxsldcex2trnskstptd	INTEGER	#	Number of deferred locations canceled by the GMLC in the LDR procedure.	Sum	hustrafbh, Sum
LCS_LDR_HLR_cancel_location	hua_lcs_tab.wjinhc5162cd euodmkgxhmlpsh	INTEGER	#	Number of the CANCEL LOCATION messages received from HLR in the LDR procedure.	Sum	hustrafbh, Sum
LCS_LDR_ms_present_in_other_SGSN	hua_lcs_tab.rf61iermsebgr utyuhnqldqbiq	INTEGER	#	Number of presentations of MS in another SGSN in the LDR procedure.	Sum	hustrafbh, Sum
LCS_LDR_ms_present_in_this_SGSN	hua_lcs_tab.xhs4gg3vjkbeks2edskji2ckuj	INTEGER	#	Number of presentations of MS in this SGSN in the LDR procedure.	Sum	hustrafbh, Sum
LCS_LDR_permit	hua_lcs_tab.smy22m2vfpcwrc14h4fkcu4ssi	INTEGER	#	Number of locations permitted in the LCS LDR procedure.	Sum	hustrafbh, Sum
LCS_LDR_refuse_data_lost	hua_lcs_tab.wtlprmuqelbb5bau4a0l0chc3p	INTEGER	#	Number of locations refused due to DATA_MISSING in the LDR procedure.	Sum	hustrafbh, Sum
LCS_LDR_refuse_facility_not_supp	hua_lcs_tab.xxly6wgvykcf lugitx2c3bq4yv	INTEGER	#	Number of locations refused due to FACILITY_NOT_SUPPORTED	Sum	hustrafbh, Sum

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				in the LDR procedure.		
LCS_LDR_refuse_illegal_ms	hua_lcs_tab.upnv432b15bkic0kskxkkncvmj	INTEGER	#	Number of locations refused due to ILLEGAL_MS in the LDR procedure.	Sum	hustrafbh , Sum
LCS_LDR_refuse_system_failure	hua_lcs_tab.ye12xi4kwubd hbhk4irf5gjmfu	INTEGER	#	Number of locations refused due to SYSTEM_FAILURE in the LDR procedure.	Sum	hustrafbh , Sum
LCS_LDR_refuse_unauth_LCS_client	hua_lcs_tab.y0uecp0vecbpceei2s3pwuutd	INTEGER	#	Number of locations refused due to UNAUTHORIZED_LCS_CLIENT in the LDR procedure.	Sum	hustrafbh , Sum
LCS_LDR_refuse_unauthorized_GMLC	hua_lcs_tab.rao5egk0wqba2rbajxegvdyq4n	INTEGER	#	Number of locations refused due to UNAUTHORIZED_REQUESTING_NETWORK in the LDR procedure.	Sum	hustrafbh , Sum
LCS_LDR_refuse_unexp_data_value	hua_lcs_tab.v5q3demalkbhf6e2l4i6ixo65	INTEGER	#	Number of locations refused due to UNEXPECTED_DATA_VALUE in the LDR procedure.	Sum	hustrafbh , Sum
LCS_LDR_refuse_unknown_subscriber	hua_lcs_tab.rebh4sl3yychmd2g2a2gsjsskn	INTEGER	#	Number of locations refused due to UNIDENTIFIED_SUBSCRIBER in the LDR	Sum	hustrafbh , Sum

				procedure.		
LCS_LDR_request	hua_lcs_tab.vyyfbyok4qbuqetdq1gth6y0jx	INTEGER	#	Number of LCS LDR procedure requests.	Sum	hustrafbh, Sum
LCS_LDR_SGSN_delete_common_MM_ctxt	hua_lcs_tab.wnglu4ssghcoqrsgcdtgus2ujn	INTEGER	#	Number of SGSN cleanups of the COMMON MM CONTEXT of an MS in the LDR procedure.	Sum	hustrafbh, Sum
LCS_LDR_success	hua_lcs_tab.wbyprsi1ojbflr1pai0xio1k13	INTEGER	#	Number of successful LDR procedures.	Sum	hustrafbh, Sum
MS_init_loc_svc_fail_data_drop	hua_lcs_tab.rxlfhcft5fcsebi xueby5d2ns4	INTEGER	#	Number of unsuccessful LCS MO procedures with cause LCS_GSS_DATA_MISSING.	Sum	hustrafbh, Sum
MS_init_loc_svc_fail_ME_unsupp	hua_lcs_tab.tssd30ormdbmesslyfoiabhb01	INTEGER	#	Number of unsuccessful LCS MO procedures with cause LCS_GSS_FACILITY_NOT_SUPPORTED.	Sum	hustrafbh, Sum
MS_init_loc_svc_fail_method_fail	hua_lcs_tab.rvghse20ghbv5t5hbvkrgd2dcr	INTEGER	#	Number of unsuccessful LCS MO procedures with cause LCS_GSS_POSITION_METHOD_FAILURE.	Sum	hustrafbh, Sum
MS_init_loc_svc_fail_system_error	hua_lcs_tab.xlso02n60rbci slnr0nqkjbxxna	INTEGER	#	Number of unsuccessful LCS MO procedures with cause	Sum	hustrafbh, Sum

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				LCS_GSS_SYSTM_FAILURE.		
MS_init_loc_srvc_fail_user_unsubs	hua_lcs_tab.r3ebxwuqancbceuwrgbp2g6ks6	INTEGER	#	Number of unsuccessful LCS MO procedures with cause LCS_GSS_SS_SUBSCRIPTION_VIOLATION.	Sum	hustrafbh , Sum
MS_init_loc_srvc_fail_value_error	hua_lcs_tab.wutba5ax62be5bo4nm0fdjlrwv	INTEGER	#	Number of unsuccessful LCS MO procedures with cause LCS_GSS_UNEXPECTED_DATA_VALUE.	Sum	hustrafbh , Sum
MS_init_loc_srvc_request	hua_lcs_tab.s0lerlws1vbvfec6bo15ehsa6k	INTEGER	#	Number of LCS MO procedure requests.	Sum	hustrafbh , Sum
MS_init_loc_srvc_success	hua_lcs_tab.rrst4jawupbxku5bljiq5kpwjq	INTEGER	#	Number of successful LCS MO procedures.	Sum	hustrafbh , Sum
MS_term_loc_srvc_fail_data_drop	hua_lcs_tab.rbsjpv0wiic6gemd6exfoifxcj	INTEGER	#	Number of unsuccessful LCS MT procedures with cause DATA_MISSING.	Sum	hustrafbh , Sum
MS_term_loc_srvc_fail_illegal_cl	hua_lcs_tab.ukmdfeqgntbmjbc1heiywrcy2	INTEGER	#	Number of unsuccessful LCS MT procedures with cause UNAUTHORIZED_LCS_CLIENT.	Sum	hustrafbh , Sum
MS_term_loc_srvc_fail_illegal_GMLC	hua_lcs_tab.ucopeafqfebohuea0yhoec1jig	INTEGER	#	Number of unsuccessful LCS MT procedures with cause UNAUTHORIZED_REQUESTIN	Sum	hustrafbh , Sum

				G_NETWORK.		
MS_term_loc_srv_c_fail_illegal_ME	hua_lcs_tab.yl1t0yalsmciebwquaklsnis6u	INTEGER	#	Number of unsuccessful LCS MT procedures with cause ILLEGAL_EQUIPMENT.	Sum	hustrafbh, Sum
MS_term_loc_srv_c_fail_illegal_MS	hua_lcs_tab.xdn4usvwohceyulmwgdksrho6k	INTEGER	#	Number of unsuccessful LCS MT procedures with cause ILLEGAL_MS.	Sum	hustrafbh, Sum
MS_term_loc_srv_c_fail_ME_unsupport	hua_lcs_tab.rn4qou1h6pcjstcpj2lpd5y1u3	INTEGER	#	Number of unsuccessful LCS MT procedures with cause FACILITY_NOT_SUPPORTED.	Sum	hustrafbh, Sum
MS_term_loc_srv_c_fail_method_fail	hua_lcs_tab.vcoko6b602bextnvg2sn5xfljg	INTEGER	#	Number of unsuccessful LCS MT procedures with cause POSITION_METHOD_FAILURE.	Sum	hustrafbh, Sum
MS_term_loc_srv_c_fail_MS_unattached	hua_lcs_tab.x6pe53rtb6bpce3vvkuck20kla	INTEGER	#	Number of unsuccessful LCS MT procedures with cause ABSENT_SUBSCRIBER.	Sum	hustrafbh, Sum
MS_term_loc_srv_c_fail_system_fault	hua_lcs_tab.wt1rg0s4sjb5osaohh4agcelso	INTEGER	#	Number of unsuccessful LCS MT procedures with cause SYSTEM_FAILURE.	Sum	hustrafbh, Sum
MS_term_loc_	hua_lcs_tab.wn4sgkkkyuc	INTEGER	#	Number of	Sum	hustrafbh

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srvc_fail_user_unknown	uoetibfr6i6bro	ER		unsuccessful LCS MT procedures with cause UNIDENTIFIED_SUBSCRIBER.		, Sum
MS_term_loc_srvc_fail_value_error	hua_lcs_tab.wih3wkn4lncu hb4wkkox4b3faw	INTEGER	#	Number of unsuccessful LCS MT procedures with cause UNEXPECTED_DATA_VALUE.	Sum	hustrafbh, Sum
MS_terminated_loc_srvc_request	hua_lcs_tab.x3uvl3e3yvce st2fb2odypowwt	INTEGER	#	Number of LCS MT procedure requests.	Sum	hustrafbh, Sum
MS_terminated_loc_srvc_success	hua_lcs_tab.r4hb3fnqbdcv erptl1aqx2iwad	INTEGER	#	Number of successful LCS MO procedures.	Sum	hustrafbh, Sum
Network_init_LCS_fail_client_unreach	hua_lcs_tab.rtwndesl1jb3ic y1wfkyl3bej6u	INTEGER	#	Number of unsuccessful LCS NI procedures with cause M_MNT_LCS_CLIENT_CAN_NOT_REACH.	Sum	hustrafbh, Sum
Network_init_LCS_fail_ME_unsupport	hua_lcs_tab.xrik5221a0cm ystbvi30j0qi3l	INTEGER	#	Number of unsuccessful LCS NI procedures with cause M_MNT_LCS_FACILITY_NOT_SUPPORT.	Sum	hustrafbh, Sum
Network_init_LCS_fail_method_fail	hua_lcs_tab.s5htygaxf3b05 ekq1puvm4pu1o	INTEGER	#	Number of unsuccessful LCS NI procedures with cause M_MNT_LCS_LOCATION_FAILED.	Sum	hustrafbh, Sum
Network_init_LCS_fail_MS_unattached	hua_lcs_tab.x4gxb0nnkubj 0toyrchrgy3v5j	INTEGER	#	Number of unsuccessful LCS NI procedures	Sum	hustrafbh, Sum

				with cause M_MNT_LCS_S UB_ABSENT.		
Network_init_ LCS_fail_repo rt_GMLC_fail	hua_lcs_tab.vlrm42jui2c6g uk5qym1bg1nx4	INTEGER	#	Number of unsuccessful LCS NI procedures with cause M_MNT_LCS_R EPORT_GMLC_ FAILED.	Sum	hustrafbh , Sum
Network_init_ LCS_fail_syst em_fail	hua_lcs_tab.wje6jcrepdbhjw c33somur6nly3	INTEGER	#	Number of unsuccessful LCS NI procedures with cause M_MNT_LCS_S YSTEM_FAILU RE.	Sum	hustrafbh , Sum
Network_init_ loc_srvc_requ est	hua_lcs_tab.tsbbogsjvkc2p cr11gk6sob3hj	INTEGER	#	Number of LCS NI procedure requests.	Sum	hustrafbh , Sum
Network_init_ loc_srvc_succ ess	hua_lcs_tab.uq5pmm20k0 bqycfenve5p5pv0n	INTEGER	#	Number of successful LCS NI procedures.	Sum	hustrafbh , Sum

### 6.31.62SGSN.Huawei.GPRS.LI\_Messages\_Sent

LI Messages Sent measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Control_msg_rece	hua_li_mess_sent_tab.u61f vkbxh2cyvcb0jn3xmqpamt	INT8	#	Obsolete from R007. Number of control messages received	Sum	hustrafbh , Sum
Control_msg_s	hua_li_mess_sent_tab.t6bc	INT8	#	Obsolete from	Sum	hustrafbh

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ent	wl2cinckrr0hug13stp4an			R007. Number of control messages sent		, Sum
IDP_lost_due_send_buffer_overflow	hua_li_mess_sent_tab.sjuoujj2ysc2cum4vg5pfwaga6	INTEGER	#	Obsolete from R007. Number of IDP amount lost due to send buffer overflow	Sum	hustrafbh, Sum
IDP_message_pkt_bytes_sent_kB	hua_li_mess_sent_tab.rib2j26qu2csvc51xc3owsgtxg	INT8	Kbytes	Obsolete from R007. Number of IDP message packet bytes sent (kB)	Sum	hustrafbh, Sum
IDP_message_pkts_sent	hua_li_mess_sent_tab.sgnyiagin6c0wemgrjybei6rac	INTEGER	#	Obsolete from R007. Number of IDP message packets sent	Sum	hustrafbh, Sum
IRI_lost_due_send_buffer_overflow	hua_li_mess_sent_tab.ruwhwhy56wb0estc5kpd0qqes6	INTEGER	#	Obsolete from R007. Number of IRI amount lost due to send buffer overflow	Sum	hustrafbh, Sum
IRI_message_pkt_bytes_sent	hua_li_mess_sent_tab.ynycahqf12cewukvv11v0rmf0w	INT8	Kbytes	Obsolete from R007. Number of IRI message packet bytes sent (kB)	Sum	hustrafbh, Sum
IRI_message_pkts_sent	hua_li_mess_sent_tab.vsmjttvhehb2vugkpgcw52jiis	INTEGER	#	Obsolete from R007. Number of IRI message packets sent	Sum	hustrafbh, Sum

### 6.31.63SGSN.Huawei.GPRS.MAP\_Basic\_Traffic

MAP Basic Traffic measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Auth_set_request_net_synchroniz	hua_map_basic_traffic_tab.vuqnfqx63wcd4u3twevalh	INTEGER	#	The number of times SGSN	Sum	hustrafbh, Sum

e_fail	topf			obtains authentication sets from HLR and requests for synchronization of the authentication sequence parameter of this user due to failure of authentication on the received MS.		
Authentication_fail_report	hua_map_basic_traffic_tab.stxowqcccwc0qs12i2mgesksgv	INTEGER	#	The number of times reporting the failure of authentication initiated by the user.	Sum	hustrafbh, Sum
Authentication_set_request	hua_map_basic_traffic_tab.yhjrmf42oucduybcqtpabw4w	INTEGER	#	Number of authentication set request message sent from the SGSN to the HLR.	Sum	hustrafbh, Sum
Check_IMEI_requests_for_Gb_Iu_mode	hua_map_basic_traffic_tab.rd2e2tnv04b3xc6ms5pnbngfdn	INTEGER	#	Number of times sending check IMEI request for both 2G and 3G to the EIR.	Sum	hustrafbh, Sum
EIR_success_returns_result_Black	hua_map_basic_traffic_tab.vvxgihxcjrb3psb5p5twao2emm	INTEGER	#	Number of times EIR returns black result.	Sum	hustrafbh, Sum

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EIR_success_returns_result_Grey	hua_map_basic_traffic_tab .xitni3a5u2cuesj2kv6t1ksvx5	INTEGER	#	Number of times EIR returns grey result.	Sum	hustrafbh , Sum
EIR_success_returns_result_White	hua_map_basic_traffic_tab .xcoijiktwic10tnlou15lb0bgn	INTEGER	#	Number of times EIR returns white result.	Sum	hustrafbh , Sum
Empty_response_when_auth_set_request	hua_map_basic_traffic_tab .wy26u4q1hccnje6g6xk4doq024	INTEGER	#	Number of times HLR returns empty authentication sets.	Sum	hustrafbh , Sum
Foreign_roaming_user_location_update	hua_map_basic_traffic_tab .yocx5y503hb63rem5jg631n3ar	INTEGER	#	Number of times SGSN initiates location update to HLR (the user is a foreign roaming user).	Sum	hustrafbh , Sum
HPLMN_user_location_update	hua_map_basic_traffic_tab .so4mtagkelcnkc36n3offadao	INTEGER	#	Number of times SGSN initiates location update to HLR (the user is in this mobile network).	Sum	hustrafbh , Sum
Loc_update_local_subscriber_data_validity	hua_map_basic_traffic_tab .uukdddlrcucd2uu3a44mwne5wp	INTEGER	#	Number of times it is unnecessary to insert user data into HLR for the user data saved locally are valid when the location update is initiated (due to Super-Charger).	Sum	hustrafbh , Sum

Loc_update_refused	hua_map_basic_traffic_tab .tui1ma2hsdcqdeepwmqiuargke	INTEGER	#	Number of times HLR returns the message that the user attachment is rejected when the location update is initiated.	Sum	hustrafbh , Sum
MAP_ActivateTrace_Mode_req	hua_map_basic_traffic_tab .tfyxokf44nb4teqmfvc35s301j	INTEGER	#	Number of "activate trace mode request" received by SGSN.	Sum	hustrafbh , Sum
MAP_ActiveTraceMode_success_resp	hua_map_basic_traffic_tab .uwq6fkmjmtmc6crnf3eu64clpya	INTEGER	#	Number of "Activate trace mode success response" sent from SGSN.	Sum	hustrafbh , Sum
MAP_Cancel_Loc_success_resp	hua_map_basic_traffic_tab .slhxgjwhv1bnydp66ur0hr16yc	INTEGER	#	Number of "Cancel location success response" sent from SGSN.	Sum	hustrafbh , Sum
MAP_DeactvTraceMode_req	hua_map_basic_traffic_tab .w2j2l2clqxcg4ufgayh332hypd	INTEGER	#	Number of "deactivate trace mode request" received by SGSN.	Sum	hustrafbh , Sum
MAP_DeactvTraceMode_success_resp	hua_map_basic_traffic_tab .slr3wnex1eb0xer2yw3jsbmfss	INTEGER	#	Number of "deactivate trace mode success response" sent from SGSN.	Sum	hustrafbh , Sum

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MAP_Delete_Sub_Data_success_resp	hua_map_basic_traffic_tab.vwkneolqjobitrh2bpwc41mtbe	INTEGER	#	Number of "Delete subscriber data success response" sent from SGSN.	Sum	hustrafbh , Sum
MAP_Dialogue_Close_ind_sent	hua_map_basic_traffic_tab.wkwwg4ubw4echerkknxqafgwws0	INTEGER	#	Number of "MAP dialog close indication" sent from SGSN.	Sum	hustrafbh , Sum
MAP_Dialogue_Close_req_sent	hua_map_basic_traffic_tab.yajcymbilckodlgcfut3eaqlt	INTEGER	#	Number of "MAP dialog close request" sent from SGSN.	Sum	hustrafbh , Sum
MAP_Dialogue_Open_ind_received	hua_map_basic_traffic_tab.w43n3icxhtc3cebacui2h6olw5	INTEGER	#	Number of "MAP Dialogue Open indication" received by SGSN.	Sum	hustrafbh , Sum
MAP_Dialogue_Open_req	hua_map_basic_traffic_tab.ucopuc2l6vb14sjomvqyajtbf	INTEGER	#	Number of "MAP dialog open request" sent from SGSN.	Sum	hustrafbh , Sum
MAP_Dialogue_Open_resp_received	hua_map_basic_traffic_tab.wr01c1aeqwccsssnxom6ugt456	INTEGER	#	Number of "MAP Dialogue Open response" received by SGSN.	Sum	hustrafbh , Sum
MAP_Dialogue_Open_resp_sent	hua_map_basic_traffic_tab.rsx62cs3vwcoptxkvh4tyff5ij	INTEGER	#	Number of "MAP dialog open response" sent from SGSN.	Sum	hustrafbh , Sum
MAP_Dialogue_U_Abort_req_se	hua_map_basic_traffic_tab.v50k2mae14b5vbqacq33p	INTEGER	#	Number of "MAP dialog	Sum	hustrafbh , Sum

nt	s6ijy			U_abort request" sent from SGSN.		
MAP_Dialogue_U_and_P_Abort_ind_sent	hua_map_basic_traffic_tab .rytpirul3fcb5bemxkpm0sb 46x	INTEGER	#	Number of "MAP Dialogue U_Abort P_Abort indication" received by SGSN.	Sum	hustrafbh , Sum
MAP_Insert_Sub_Data_success_resp	hua_map_basic_traffic_tab .xx5hv1luwkcgpsisosrpav2 4x5	INTEGER	#	Number of "Insert subscriber data success response" sent from SGSN.	Sum	hustrafbh , Sum
MAP_Purge_MS_success_resp	hua_map_basic_traffic_tab .ucno6aeh6gb5xcsgdyldh ggxw	INTEGER	#	Number of Purge MS success response received by SGSN.	Sum	hustrafbh , Sum
MAP_Purge_MS_user_err_resp	hua_map_basic_traffic_tab .tomucpewpwn5rhkh3vor u0mcm	INTEGER	#	Number of Purge MS response with cause "user error" received by SGSN.	Sum	hustrafbh , Sum
MAP_Reset_req	hua_map_basic_traffic_tab .rjpyopr1bnbjvsl1rdbwdaq hhd	INTEGER	#	Number of "reset request" received by SGSN.	Sum	hustrafbh , Sum
MAP_Send_Auth_Info_user_err_resp	hua_map_basic_traffic_tab .revla2oymgcbft2tatbauvax dj	INTEGER	#	Number of "send auth info response" with cause "user error" received	Sum	hustrafbh , Sum

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				by SGSN.		
MAP_UpdateGprsLoc_suc_resp	hua_map_basic_traffic_tab .xevqEEP2ggcx0e6htb4jpw 31qv	INTEGER	#	Number of times HLR returns update gprs location success response.	Sum	huStrafbh , Sum
MAP_UpdateGprsLoc_user_err_resp	hua_map_basic_traffic_tab .teh53ae6rsbe0rjl5iaqjywc p	INTEGER	#	Number of times HLR returns update gprs location response with cause "user error".	Sum	huStrafbh , Sum
Purge_MS	hua_map_basic_traffic_tab .r0pjumysdic3ruo5o3nvulv mlh	INTEGER	#	Number of times SGSN initiates user purge to HLR.	Sum	huStrafbh , Sum
Quintuplets_return_for_auth_set_request	hua_map_basic_traffic_tab .vb61uv44cycy6c0dwp4tiy 15xo	INTEGER	#	Number of times HLR returns authentication quintuplets.	Sum	huStrafbh , Sum
Receiving_HLR_cancel_loc	hua_map_basic_traffic_tab .whu5bm4fgrc0id21wgxy2 fjy3l	INTEGER	#	Number of times receiving the HLR location cancellation.	Sum	huStrafbh , Sum
Receiving_HLR_del_subs_user_data	hua_map_basic_traffic_tab .uly2lagvcoc1vuly4eafy6o 5hv	INTEGER	#	Number of times receiving the HLR delete subscriber data.	Sum	huStrafbh , Sum
Receiving_HLR_delete_subscriber_datauser_data_for_user_in_Gb	hua_map_basic_traffic_tab .tl63xrqny42ahc3lr02incn mdw	INTEGER	#	Number of times receiving the HLR delete subscriber data for user in Gb mode.	Sum	huStrafbh , Sum
Receiving_HLR_delete_subscrib	hua_map_basic_traffic_tab .tl63xruny42ahc3lr02incn	INTEGER	#	Number of times receiving	Sum	huStrafbh , Sum

er_datauser_data_for_user_in_Iu	mdw			the HLR delete subscriber data for user in Iu mode.		
Receiving_HLR_insert_subs_data	hua_map_basic_traffic_tab.wy6tspnrq6cnyb4jmsttnk0btj	INTEGER	#	Number of times receiving the HLR insert user data.	Sum	hustrafbh, Sum
Receiving_HLR_insert_subscription_data_for_user_in_Gb	hua_map_basic_traffic_tab.tl63xrony42ahc3lr02incnmdw	INTEGER	#	Number of times receiving the HLR insert user data for user in Gb mode.	Sum	hustrafbh, Sum
Receiving_HLR_insert_subscription_data_for_user_in_Iu	hua_map_basic_traffic_tab.tl63xrsny42ahc3lr02incnmdw	INTEGER	#	Number of times receiving the HLR insert user data for user in Iu mode.	Sum	hustrafbh, Sum
Triplets_return_for_auth_set_request	hua_map_basic_traffic_tab.ylujcegd2hb0cbcf0rex042jlt	INTEGER	#	Number of times HLR returns authentication triplets.	Sum	hustrafbh, Sum
Unsupport_version_when_auth_set_request	hua_map_basic_traffic_tab.slalnvgt2fbapsq1ohxtngljxp	INTEGER	#	The number of times obtaining authentication sets from HLR while HLR returns the message that the version is not supported.	Sum	hustrafbh, Sum
VPLMN_roaming_user_location_update	hua_map_basic_traffic_tab.rgxni2pimdbyc46ilpeoadu3	INTEGER	#	Number of times SGSN initiates location update	Sum	hustrafbh, Sum

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				to HLR (the user is a national roaming user not in this mobile network).		
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### 6.31.64SGSN.Huawei.GPRS.MAP\_Common\_Traffic\_Procedure\_Error

MAP Common Traffic Procedure Error measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Abnormal_dialogue_MAP_P_ABORT_IND	hua_map_common_traf_err_tab.vhmg04cwjsciudctdlleeynmma	INTEGER	#	Number of dialogue terminations for the MAP lower layer detects the dialogue abnormality.	Sum	hustrafbh, Sum
Abnormity_detected_NOTICE_IND	hua_map_common_traf_err_tab.ycy4rrcwuicuqtfvonn0merr3t	INTEGER	#	Number of times the peer bottom layer detects the dialogue abnormality.	Sum	hustrafbh, Sum
Abnormity_receive_NOTICE_IND	hua_map_common_traf_err_tab.vus2cnp0l3b6gum3k6kmmgrlbe	INTEGER	#	Number of times receiving abnormal events from the peer.	Sum	hustrafbh, Sum
App_cancel_MAP_U_ABORT_IND	hua_map_common_traf_err_tab.x1kbda2t1obw0epe1ij4amcjh1	INTEGER	#	Number of times the remote MAP cancels the dialogue due to a certain cause.	Sum	hustrafbh, Sum
App_cancel_MAP_U_ABORT_REQ	hua_map_common_traf_err_tab.skgycryhtycflrj3gmvykpxjwk	INTEGER	#	Number of times the dialogue is canceled by the	Sum	hustrafbh, Sum

				local MAP due to a certain cause.		
App_context_unsupp_OPEN_CNF_refused	hua_map_common_traffic_tab.tg162pwf4kb0tu3r6jq4k5smxu	INTEGER	#	Number of times the dialogue is rejected for the remote MAP does not support the application context of this dialogue.	Sum	hustrafbh, Sum
App_context_unsupp_OPEN_RSP_refused	hua_map_common_traffic_tab.utqphatajkycs2ee4nnrwrjlpqp	INTEGER	#	Number of times the dialogue is rejected for the local MAP does not support the application context of this dialogue.	Sum	hustrafbh, Sum
App_error_MAP_U_ABORT_IND	hua_map_common_traffic_tab.s54pj62ju1chjuea100bdapxo6	INTEGER	#	Number of dialogue terminations due to errors of the remote MAP application program.	Sum	hustrafbh, Sum
Error_MAP_U_ABORT_REQ	hua_map_common_traffic_tab.yhwg0pltlbc6itdlui1ctc5qw	INTEGER	#	Number of dialogue terminations due to errors of the local MAP application program.	Sum	hustrafbh, Sum
Invalid_dest_OPEN_CNF_refused	hua_map_common_traffic_tab.xfq2biodi0b3mr1okonjicypjr	INTEGER	#	Number of times the dialogue	Sum	hustrafbh, Sum

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				initiated from the local end is rejected for there is no destination reference carried in it or the destination reference is invalid.		
Invalid_dest_OPEN_RSP_refused	hua_map_common_traffic_tab.ux66jt4dhyb2hudhnr cm0wm2hx	INTEGER	#	Definition Number of times the dialogue initiated from the peer is rejected for no destination reference is carried or the destination reference is invalid.	Sum	hustrafbh , Sum
Invalid_origin_OPEN_CNF_refused	hua_map_common_traffic_tab.y5i4gohktmc22d3dq hnuhk0prf	INTEGER	#	Number of times the dialogue initiated from the local end is rejected for there is no source reference carried in it or the source reference is invalid.	Sum	hustrafbh , Sum
Invalid_origin_OPEN_RSP_refused	hua_map_common_traffic_tab.u5360hrylgcb0t5gok vsgcsowc	INTEGER	#	Number of times the dialogue initiated from the peer is rejected for there is no source reference carried in it or	Sum	hustrafbh , Sum

				the source reference is invalid.		
Local_dialogue_refused_OPERATION_RSP	hua_map_common_traffic_tab.tdpokvqxquco6cbmyhgw6ic0jt	INTEGER	#	Number of times the local MAP rejects the dialogue initiated by the remote MAP (all causes).	Sum	hustrafbh, Sum
Maint_activity_MAP_P_ABORT_IND	hua_map_common_traffic_tab.sbtpcocyhrb6qrd4jojclpyhjk	INTEGER	#	Number of dialogue terminations due to maintenance activity of the MAP lower layer.	Sum	hustrafbh, Sum
No_reason_OPERATION_CNFR_refused	hua_map_common_traffic_tab.xf3td0drbjc3irtwjti1wjp2qy	INTEGER	#	Number of times the dialogue initiated from the local end is rejected by the remote end or errors have been detected but no specific cause has been given.	Sum	hustrafbh, Sum
No_reason_OPERATION_RSP_refused	hua_map_common_traffic_tab.usima5112fb3xb0hv1b4occ1js	INTEGER	#	Number of times the local MAP rejects the dialogue initiated by the peer but no specific cause is given.	Sum	hustrafbh, Sum
Notice_indicati	hua_map_common_traffic_er	INTEGER	#	Definition	Sum	hustrafbh

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ons	r_tab.xl01vcsp16buisovagdh3pcids	ER		Number of times MAP determines whether to terminate the dialogue when errors occur to the MAP lower layer protocol (all causes).		, Sum
P_ABORT_from_provider	hua_map_common_trafer_tab.sekin2021kcgbrumcjjohru1ld	INTEGER	#	Number of times the dialogue is terminated for the MAP lower layer protocol checks the dialogue abnormality (all causes).	Sum	hustrafbh, Sum
Peer_dialogue_refused_OPEN_CNF	hua_map_common_trafer_tab.saooxnvhtacsursvmdxoikexya	INTEGER	#	Number of times the dialogue initiated by the local MAP is rejected by the peer (all causes).	Sum	hustrafbh, Sum
Provider_malfunction_MAP_P_ABORT_IND	hua_map_common_trafer_tab.xnuno61utvbydbqqa06lbssn33	INTEGER	#	Number of dialogue terminations for the continuous services cannot be provided due to fault of the MAP lower layer.	Sum	hustrafbh, Sum
Rejected_by_the_peer_NOTIFICATION_IND	hua_map_common_trafer_tab.wi2ocfftsmbouccokrcxcrbmxa	INTEGER	#	Number of times the response is rejected by the peer.	Sum	hustrafbh, Sum
Resource_limit	hua_map_common_trafer	INTEGER	#	Number of	Sum	hustrafbh

ation_MAP_P_ABORT_IND	r_tab.vbcmujwg6cfkbhtjn tcxx5gqh	ER		dialogue terminations due to limitation on the MAP lower layer resources.		, Sum
Support_dlg_release_MAP_P_ABORT_IND	hua_map_common_traf_er r_tab.uq5qbi0yd2bb2dg16 4he3p3xsv	INTEGER	#	Number of dialogue terminations due to release of the resources at the MAP lower layer that support the dialogue.	Sum	hustrafbh , Sum
U_ABORT_IND_rec_from_remote	hua_map_common_traf_er r_tab.snm0kqo3nwbcfs5rgt v1cd2d3b	INTEGER	#	Number of times the dialogue is terminated for the remote MAP checks the dialogue abnormality (all causes).	Sum	hustrafbh , Sum
U_ABORT_REQ_sent_by_local	hua_map_common_traf_er r_tab.wea5ki5pxobvhd1xw daj0opnpt	INTEGER	#	Number of times the dialogue is terminated for the local MAP checks the dialogue abnormality (all causes).	Sum	hustrafbh , Sum
Unavail_res_MAP_U_ABORT_IND	hua_map_common_traf_er r_tab.x5ulaykdwpc1deafvu 0cdlnurm	INTEGER	#	Number of dialogue terminations due to unavailability of the remote MAP	Sum	hustrafbh , Sum

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				resources.		
Unavail_res_M AP_U_ABORT T_REQ	hua_map_common_traf_er r_tab.wlh2p0f2mjcr4d5cql 4m0jb2at	INTEG ER	#	Number of dialogue terminations due to unavailability of the local MAP resources.	Sum	hustrafbh , Sum
User_res_limit _MAP_U_AB ORT_IND	hua_map_common_traf_er r_tab.yrq26aifljcwxejoe1l 1vshh4c	INTEG ER	#	Number of dialogue terminations due to limitation on the remote MAP resources.	Sum	hustrafbh , Sum
User_resource _limit_MAP _U_ABORT_R EQ	hua_map_common_traf_er r_tab.wmlafbg2hwby6srfx eqn1cfsjp	INTEG ER	#	Number of dialogue terminations due to limitation on local MAP resources.	Sum	hustrafbh , Sum
Ver_incomp_O PEN_CNF_ref used	hua_map_common_traf_er r_tab.r0mht0v4xcbawrcui3 dukb5twe	INTEG ER	#	Number of times the dialogue is rejected due to possible incompatibility of the local MAP version and the remote MAP version.	Sum	hustrafbh , Sum
Ver_incomp_O PEN_RSP_ref used	hua_map_common_traf_er r_tab.trr4r2d3jwbv5uj4kds 1fs25wo	INTEG ER	#	Number of times the dialogue is rejected due to possible incompatibility of the local MAP version and the remote MAP version.	Sum	hustrafbh , Sum
Ver_incomp_P _ABORT_IND	hua_map_common_traf_er r_tab.wbv5t4nytobyvt6edk	INTEG ER	#	Number of dialogue	Sum	hustrafbh , Sum

_cause	0dvvxtup			terminations due to the potential cause of version incompatibility of the MAP lower layer.		
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### 6.31.65SGSN.Huawei.GPRS.MAP\_Gc\_Message\_Transfer\_Traffic

MAP Gc Message Transfer Traffic measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Noting_ms_present	hua_map_gc_mess_transf_tab.rant5q1je4bt3rif54p4vqao6l	INTEGER	#	Number of times HLR requests SGSN to forward user presence notice to GGSN.	Sum	hustrafbh, Sum
Sending_fail_report	hua_map_gc_mess_transf_tab.tyumeqvi6ccnve4rel1ivviukr	INTEGER	#	Number of times requesting SGSN to forward forwarding report that GGSN fails in requesting SGSN to forward messages to HLR.	Sum	hustrafbh, Sum
Sending_routing_information	hua_map_gc_mess_transf_tab.vithdb562obhns511160bcibyf	INTEGER	#	Number of times requesting SGSN to forward routing information to HLR by GGSN.	Sum	hustrafbh, Sum

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**6.31.66SGSN.Huawei.GPRS.MAP\_Signaling\_Procedure\_Error\_and\_Timeout**

MAP Signaling Procedure Error and Timeout measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Auth_fail_report_timer_timeout	hua_map_err_timeout_tab.t0km4j0iajcddbp6nu601521x3	INTEGER	#	Number of times not receiving the authentication failure report request response within the specified time.	Sum	hustrafbh, Sum
Auth_set_timer_timeout_rec	hua_map_err_timeout_tab.s5gyj4p2xbc6melro4vd2q5mey	INTEGER	#	Number of times not receiving the send authentication info request response within the specified time.	Sum	hustrafbh, Sum
Data_missing_times	hua_map_err_timeout_tab.ylc0m425akbe4ru1c3js2gup6l	INTEGER	#	Number of times the MAP protocol checks and finds that the mandatory parameter is missing in the received signaling.	Sum	hustrafbh, Sum
GPRS_fail_report_timer_timeout	hua_map_err_timeout_tab.scryv6ai5hbkssu6j0nx13rq1f	INTEGER	#	Number of times not receiving the failure report request response within the specified time.	Sum	hustrafbh, Sum

GPRS_routing_info_timer_timeout	hua_map_err_timeout_tab.xl3v5m1f1fbcprqndqhgd2a2	INTEGER	#	Number of times not receiving the routing information obtaining request response within the specified time.	Sum	hustrafbh, Sum
Location_update_timer_timeout	hua_map_err_timeout_tab.y5a5r6wi2vbvqujjqphotcg2x3	INTEGER	#	Number of times not receiving the location update request response within the specified time.	Sum	hustrafbh, Sum
Other_error_times	hua_map_err_timeout_tab.shget2mg3ocftd0bty02sisqof	INTEGER	#	Number of errors other than the errors mentioned above during the MAP service processing.	Sum	hustrafbh, Sum
Purge_MS_timer_timeout	hua_map_err_timeout_tab.u2mf4qeus3bkccqg6ye60e6tmh	INTEGER	#	Number of times not receiving the user purge request response within the specified time.	Sum	hustrafbh, Sum
Ready_for_SM_timer_timeout	hua_map_err_timeout_tab.r3dbctbrfcceeymgfqgn141o1	INTEGER	#	Number of times not receiving the ReadyForSM request	Sum	hustrafbh, Sum

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				response within the specified time.		
Remote_system_fault_times	hua_map_err_timeout_tab.rdlm4aepiacrsea52intb4a2op	INTEGER	#	Number of remote system faults during the MAP service processing.	Sum	hustrafbh , Sum
Roaming_restriction_times	hua_map_err_timeout_tab.tmpnukypqacx5e3fgptki6gni4	INTEGER	#	Number of times roaming by the user is restricted by HLR during the location update.	Sum	hustrafbh , Sum
Short_message_sending_timer_timeout	hua_map_err_timeout_tab.ybn4fkfgpmcmoebmulho6teegv	INTEGER	#	Number of times not receiving the short message sending (SMMO) request response within the specified time.	Sum	hustrafbh , Sum
UE_checking_fail_report_timeouts	hua_map_err_timeout_tab.yfu24evba1cfcsaybyu45rkt3v	INTEGER	#	Number of times not receiving the UE check request response within the specified time.	Sum	hustrafbh , Sum
Unexpected_data_value_times	hua_map_err_timeout_tab.yx62efl0nlb0stdo304guxukcc	INTEGER	#	Number of times the MAP protocol checks and finds that the data in the received data do not comply with the data range stipulated in the protocol.	Sum	hustrafbh , Sum

Unknown_MS_reply_returns	hua_map_err_timeout_tab.ya6gqvpxxfbe5bxvvvk3db yha3	INTEGER	#	Number of times the user equipment does not exist in the EIR database.	Sum	hustrafbh , Sum
Unknown_user_times	hua_map_err_timeout_tab.x2lhdsiihxbxetwferl1gks3 e	INTEGER	#	Number of times the user ID does not exist in the HLR database.	Sum	hustrafbh , Sum
User_detached_times	hua_map_err_timeout_tab.r6p4maus3ib5xccjhdhsm yrcqu	INTEGER	#	Number of times HLR returns user detached message during the routing message obtaining.	Sum	hustrafbh , Sum

### 6.31.67SGSN.Huawei.GPRS.MBMS\_Broadcast\_Bearer\_Resource

MBMS Bearer contexts measurement.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Average_Number_of_MBMS_Broadcast_Bearer_Contexts	hua_m117440674_tab.tl63 xwsny42ahc3lr02incnmd w	INTEGER	#	Arithmetical mean number of MBMS Bearer Contexts within the measurement period.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Max_Number_of_MBMS_Broadcast_Bearer_Contexts	hua_m117440674_tab.tl63 xwuny42ahc3lr02incnmd w	INTEGER	#	Maximum recorded number of MBMS Bearer Contexts within the	Average	Average, hustrafbh , Maximum, Minimum

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				measurement period..		m, Sum
Realtime_Number_of_MBMS_Broadcast_Bearer_Contexts	hua_m117440674_tab.tl63xwqny42ahc3lr02incnmdw	INTEGER	#	Number of MBMS Bearer Contexts at the beginning of measurement period.	Average	Average, hustrafbh, Maximum, Minimum, Sum

### 6.31.68SGSN.Huawei.GPRS.MBMS\_Broadcast\_Session\_Start

MBMS Broadcast session start message by SGSN

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Receive_Gn_MBMS_Session_Start_Request	hua_m117440672_tab.tl63xweny42ahc3lr02incnmdw	INTEGER	#	Number of MBMS Session Start Request message received by SGSN from GGSN.	Sum	hustrafbh, Sum
Send_Gn_MBMS_Session_Start_Response_Accept	hua_m117440672_tab.tl63xwgny42ahc3lr02incnmdw	INTEGER	#	Number of MBMS Session Start Response message sent by SGSN to GGSN indicating request accepted.	Sum	hustrafbh, Sum
Send_Gn_MBMS_Session_Start_Response_Reject	hua_m117440672_tab.tl63xwiny42ahc3lr02incnmdw	INTEGER	#	Number of MBMS Session Start Response message sent by SGSN to GGSN indicating request rejected.	Sum	hustrafbh, Sum

**6.31.69SGSN.Huawei.GPRS.MBMS\_Broadcast\_Session\_Stop**

MBMS Broadcast session stop message by SGSN

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Receive_Gn_MBMS_Session_Stop_Request	hua_m117440673_tab.tl63xwkny42ahc3lr02incnmdw	INTEGER	#	Number of MBMS Session Stop Request message received by SGSN from GGSN.	Sum	hustrafbh, Sum
Send_Gn_MBMS_Session_Stop_Response_Accept	hua_m117440673_tab.tl63xwmny42ahc3lr02incnmdw	INTEGER	#	Number of MBMS Session Stop Response message sent by SGSN to GGSN indicating request accepted.	Sum	hustrafbh, Sum
Send_Gn_MBMS_Session_Stop_Response_Reject	hua_m117440673_tab.tl63xwony42ahc3lr02incnmdw	INTEGER	#	Number of MBMS Session Stop Response message sent by SGSN to GGSN indicating request rejected.	Sum	hustrafbh, Sum

**6.31.70SGSN.Huawei.GPRS.MTP\_Signalling\_Link**

MTP Signalling Link measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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MTP_average_link_receive_load_every_link_erl	hua_mtp_link_tab.xmr fm22nrjcgybdroltur0ikil	FLOAT	erl	The mean value of receiving load of signalling link over NO.7 interface.	Average	Average, hustrafbh , Maximum, Minimum, Sum
MTP_average_link_send_load_every_link_erl	hua_mtp_link_tab.trcovine r1bbqb66y4b1ioht1t	FLOAT	erl	The mean value of sending load of signalling link over NO.7 interface.	Average	Average, hustrafbh , Maximum, Minimum, Sum
MTP_MSU_rec_number	hua_mtp_link_tab.s3a4u4lt jpc16c16e6qlq4e45l	INT8	#	Number of MSUs received over NO.7 interface.	Sum	hustrafbh , Sum
MTP_MSU_sent_number	hua_mtp_link_tab.r4xjv16 bqbb2wcnr2t2ln12g2k	INT8	#	Number of MSUs sent over NO.7 interface.	Sum	hustrafbh , Sum
MTP_numbers_in_service	hua_mtp_link_tab.xj0cxv1 vpwcehs35m6162n0oet	INTEGER	#	Number of links in service	Average	Average, hustrafbh , Maximum, Minimum, Sum
MTP_receive_load_erl	hua_mtp_link_tab.vyxhve3 wpib0kr1wwpqw05gjyq	FLOAT	erl	The receiving signalling load over NO.7 interface.	Average	Average, hustrafbh , Maximum, Minimum, Sum
MTP_send_load_erl	hua_mtp_link_tab.un3on0u mnhbaicjuhfeycf601b	FLOAT	erl	The sending signalling load over NO.7 interface.	Average	Average, hustrafbh , Maximum, Minimum

						m, Sum
MTP_SIF_and_SIO_OCTET_S_rec_number	hua_mtp_link_tab.s4i56laadycqhc1vba3n2mbxae	INT8	KBytes	Number of SIF and SIO octets received over NO.7 interface.	Sum	hustrafbh, Sum
MTP_SIF_and_SIO_OCTET_S_sent_number	hua_mtp_link_tab.tsdbsc6kxncg3dssdxpsfvmnn	INT8	KBytes	Number of SIF and SIO octets sent over NO.7 interface.	Sum	hustrafbh, Sum

### 6.31.71SGSN.Huawei.GPRS.PDP\_context\_deactivation\_in\_Gb\_Mode

PDP context deactivation in Gb Mode

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Times_of_PDP_context_deactivation_in_Gb_Mode_LLC_or_SNDP_failure	hua_pdp_cont_deactv_gb_tab.vey2h2cvwr2air02b04u3bm6j	INTEGER	times	Times of PDP context deactivation caused by LLC or SNDP failure in Gb Mode.	Sum	hustrafbh, Sum
Times_of_PDP_context_deactivation_in_Gb_Mode_Network_failure	hua_pdp_cont_deactv_gb_tab.vey2h2avwr2air02b04u3bm6j	INTEGER	times	Times of PDP context deactivation caused by network failure in Gb Mode.	Sum	hustrafbh, Sum
Times_of_PDP_context_deactivation_in_Gb_Mode_Reactivation_requested	hua_pdp_cont_deactv_gb_tab.vey2h2evwr2air02b04u3bm6j	INTEGER	times	Times of PDP context deactivation caused by reactivation requested in Gb Mode.	Sum	hustrafbh, Sum

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Times_of_PDP_context_deactivation_in_Gb_Mode_Regular_deactivation	hua_pdp_cont_deactiv_gb_tab.vey2h25vwr2air02b04u3bmv6j	INTEGER	times	Times of regular PDP context deactivation in Gb Mode.	Sum	hustrafbh , Sum
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### 6.31.72SGSN.Huawei.GPRS.PDP\_context\_deactivation\_in\_Iu\_Mode

PDP context deactivation in Iu Mode

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Times_of_PDP_context_deactivation_in_Iu_Mode_Network_failure	hua_pdp_cont_deactiv_iu_tab.vey2h2ivwr2air02b04u3bmv6j	INTEGER	times	Times of PDP context deactivation caused by network failure in Iu Mode.	Sum	hustrafbh , Sum
Times_of_PDP_context_deactivation_in_Iu_Mode_Reactivation_requested	hua_pdp_cont_deactiv_iu_tab.vey2h2kvwr2air02b04u3bmv6j	INTEGER	times	Times of PDP context deactivation caused by reactivation requested in Iu Mode.	Sum	hustrafbh , Sum
Times_of_PDP_context_deactivation_in_Iu_Mode_Regular_deactivation	hua_pdp_cont_deactiv_iu_tab.vey2h2gvwr2air02b04u3bmv6j	INTEGER	times	Times of regular PDP context deactivation in Iu Mode.	Sum	hustrafbh , Sum

### 6.31.73SGSN.Huawei.GPRS.RANAP

RANAP measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
CN_init_Iu_interface_reset	hua_ranap_tab.xhsq12w23gcjvt4c3avgs52yxa	INTEGER	#	Measure the number of resets initiated by the CN.	Sum	hustrafbh , Sum

CN_init_Reset_Resource_request	hua_ranap_tab.ulit4mj1e4clauw4dlreakaxtc	INTEGER	#	Total number of RESET RESOURCE messages sent to the RNC.	Sum	hustrafbh, Sum
CN_init_traffic_control	hua_ranap_tab.yqbu3o1l3fcvabg3d3r20ioa1e	INTEGER	#	Measure the number of traffic control times upon overload at CN.	Sum	hustrafbh, Sum
CN_INVOKE_Traces_sent	hua_ranap_tab.tv0mx2bgy6bg0ux2fkv6enotjr	INTEGER	#	Total number of CN INVOKE TRACE messages sent to the RNC.	Sum	hustrafbh, Sum
Common_ID_sent	hua_ranap_tab.whmrqscf0ub6btgcem46gyax4p	INTEGER	#	Total number of Command ID messages sent to the RNC.	Sum	hustrafbh, Sum
Error_IND_message_rec	hua_ranap_tab.tj4364easwcofswg4ulq0cpadi	INTEGER	#	Measure the number of error indication messages received by the Iu interface so as to get the number of messages of both sides that are not in match.	Sum	hustrafbh, Sum
Error_Indication_sent_by_SG_SN	hua_ranap_tab.upcgsqo2b3cb5bohi3j063eufn	INTEGER	#	Total number of error indication messages sent to the RNC.	Sum	hustrafbh, Sum
Inactive_Iu_connection_release	hua_ranap_tab.upahgu3bbabterwfxlftuj3us	INTEGER	#	Total number of releasing inactive Iu connections.	Sum	hustrafbh, Sum

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Information_transfer_failure_message_received	hua_ranap_tab.y1fuwjft0b okbntmfqixssidr	INTEGER	#	Total number of times the information transfer messages are received from the RNC.	Sum	hustrafbh , Sum
Information_transfer_message_send	hua_ranap_tab.w6fu4lert6c svdvp04sbirwono	INTEGER	#	Total number of times that the RNC sends the information transfer messages.	Sum	hustrafbh , Sum
Init_UE_Message_rec	hua_ranap_tab.vaqsbv2v0b b30tl0oy6fax0oa5	INTEGER	#	Total number of INITIAL UE messages from the RNC.	Sum	hustrafbh , Sum
Iu_connection_setup_request	hua_ranap_tab.uv1545oeth b2xsn4k5wtxrepug	INTEGER	#	Measure the number of requests for connection setup received by the Iu interface.	Sum	hustrafbh , Sum
Iu_connection_setup_success	hua_ranap_tab.s5djtgvt1c sbrjae6rmhbckjo	INTEGER	#	Measure the number of successful Iu connection setups.	Sum	hustrafbh , Sum
MBMS_Session_Start_Failure_received_in_Iu	hua_ranap_tab.tl63xowny4 2ahc3lr02incnmdw	INTEGER	#	Total number of MBMS Session Start Failure messages received from the RNC.	Sum	hustrafbh , Sum
MBMS_Session_Start_Request_sent_in_Iu	hua_ranap_tab.tl63xosny4 2ahc3lr02incnmdw	INTEGER	#	Total number of MBMS Session Start Request message sent to the RNC.	Sum	hustrafbh , Sum
MBMS_Session_Start_Response	hua_ranap_tab.tl63xouny4 2ahc3lr02incnmdw	INTEGER	#	Total number of MBMS Session	Sum	hustrafbh , Sum

nse_received_in_Iu				Start Response messages received from the RNC.		
MBMS_Session_Stop_Request_sent_in_Iu	hua_ranap_tab.tl63xoyny42ahc3lr02incnmdw	INTEGER	#	Total number of MBMS Session Stop Request message sent to the RNC.	Sum	hustrafbh, Sum
MBMS_Session_Stop_Response_received_in_Iu	hua_ranap_tab.tl63xp1ny42ahc3lr02incnmdw	INTEGER	#	Total number of MBMS Session Stop Response messages received from the RNC.	Sum	hustrafbh, Sum
Num_of_LOC_related_data_fail_rec_Iu	hua_ranap_tab.uajtehealsc36cyjkiervtar6w	INTEGER	#	Total number of Location Related Data Failure messages received from the RNC.	Sum	hustrafbh, Sum
Num_of_LOC_related_data_req_sent_in_Iu	hua_ranap_tab.whsvywaw0hb2td12v14wablyo2	INTEGER	#	Total number of Location Related Data Request messages sent to the RNC.	Sum	hustrafbh, Sum
Num_of_LOC_related_data_rsp_rec_Iu	hua_ranap_tab.xbr122pxvp c3vec42u3gq53uwg	INTEGER	#	Total number of Location Related Data Response messages received from the RNC.	Sum	hustrafbh, Sum
Num_of_RAB_modification_req_rec_Iu	hua_ranap_tab.rde2jmtr44clidu12iitgpgq4p	INTEGER	#	Total number of RAB Modify Request messages received from the RNC.	Sum	hustrafbh, Sum

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Num_of_RAB_release_req_rec_Iu	hua_ranap_tab.sfocbqpkflc5vcccb0vk52afx	INTEGER	#	Total number of RAB Release Request messages received from the RNC.	Sum	hustrafbh , Sum
Release_Command_sent_success	hua_ranap_tab.wsfrgkpaiclosuqolp51o3yuw	INTEGER	#	Total number of IU RELEASE COMMAND messages sent to the RNC.	Sum	hustrafbh , Sum
Release_Complete_rec	hua_ranap_tab.senvpea1sb bxfefruvn2xbujo4	INTEGER	#	Total number of IU RELEASE COMPLETE messages received from the RNC.	Sum	hustrafbh , Sum
Release_Requests_rec	hua_ranap_tab.srbolww6b5b6nrh065fxwsx6tx	INTEGER	#	Total number of IU RELEASE REQUEST messages received from the RNC.	Sum	hustrafbh , Sum
Relocation_Request_ACKs_rec	hua_ranap_tab.vlsodhrrovb0pt0e2d56kjosty	INTEGER	#	Total number of Relocation Required messages sent to the RNC.	Sum	hustrafbh , Sum
Relocation_Request_msg_sent_success	hua_ranap_tab.v35rfnav0p cugtyat6picsrfr4	INTEGER	#	Total number of Relocation request ACK messages received from the RNC.	Sum	hustrafbh , Sum
Relocation_Required_msg_rec	hua_ranap_tab.vtxgjqhj4fb ttr433avd0tqr5b	INTEGER	#	Total number of Relocation Required messages received from the RNC.	Sum	hustrafbh , Sum
Reset_Resource	hua_ranap_tab.uxoy6xunj1	INTEGER	#	Total number of	Sum	hustrafbh

e_Acks_sent	c2hegcnbx23rsqw5	ER		RESET RESOURCE ACKNOWLEDGE messages sent to the RNC.		, Sum
RNC_init_Iu_interface_reset	hua_ranap_tab.ut6jsbsxvgb24cyfomcnba6n0p	INTEGER	#	Measure the number of RNC-initiated resets received by CN.	Sum	hustrafbh, Sum
RNC_init_Reset_Resource_request	hua_ranap_tab.snlluylencclubp5lkjrftfwk	INTEGER	#	Total number of RESET RESOURCE messages received from the RNC.	Sum	hustrafbh, Sum
RNC_init_traffic_control	hua_ranap_tab.wajfoeu2ymcttbeahkih2qg2v3	INTEGER	#	Measure the OVERLOAD message received by CN from the RNC.	Sum	hustrafbh, Sum
Security_Mode_Commands_sent	hua_ranap_tab.wu3xowxieic3wcpde3pmtaxm0t	INTEGER	#	Total number of Security Mode Command messages sent to the RNC.	Sum	hustrafbh, Sum
Security_Mode_Completes_received	hua_ranap_tab.st0wmnakjrb5rdayscwxuidlrq	INTEGER	#	Total number of Security Mode Complete messages received from the RNC.	Sum	hustrafbh, Sum
Security_Mode_Rejects_received	hua_ranap_tab.xfytu12yp4boxemlw2onmy1kk	INTEGER	#	Total number of Security Mode Reject messages received from the RNC.	Sum	hustrafbh, Sum
SRNS_Context	hua_ranap_tab.wxc1qkneb	INTEGER	#	Total number of	Sum	hustrafbh

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_Requests_sent	4cdeeki3swtmxrbl	ER		SRNS Context Request messages sent to the RNC.		, Sum
SRNS_Context_Responses_received	hua_ranap_tab.rcuutqtfp6b4wtcfyclay66c4t	INTEGER	#	Total number of SRNS Context Response messages received from the RNC.	Sum	hustrafbh, Sum
SRNS_Data_Forward_Commands_sent	hua_ranap_tab.xvmxw4bkf3b2pecf0pqk3ivaxi	INTEGER	#	Total number of SRNS Data Forward Commands sent to the RNC.	Sum	hustrafbh, Sum
Success_Reset_Acknowledge_rec	hua_ranap_tab.yjoxrsu5pccvxe2jdw6lwpag6s	INTEGER	#	Total number of RESET RESPONSE messages received from the RNC.	Sum	hustrafbh, Sum
Success_Reset_Acknowledge_sent	hua_ranap_tab.t1jpm3q3sn cg5swcpu55c6v0md	INTEGER	#	Total number of RESET RESPONSE messages sent to the RNC.	Sum	hustrafbh, Sum

### 6.31.74SGSN.Huawei.GPRS.SCCP\_Availability

SCCP Availability measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Duration_of_local_SCCP_unavail	hua_sccp_availability_tab.x3exfnvfnaclpds5vmfrvj3leq	INTEGER	#	Total duration of unavailability of the local SCCP.	Sum	hustrafbh, Sum
Local_SCCP_unavail_caused_by_fault	hua_sccp_availability_tab.wn6ej0335ncg3bc1tddr3plso1	INTEGER	#	Number of times local SCCP is unavailable due	Sum	hustrafbh, Sum

				to fault of the node.		
Local_SCCP_unavail_caused_by_maint	hua_sccp_availability_tab.vjvx455u65cn4tcpt0glgrakdr	INTEGER	#	Number of times local SCCP is unavailable due to maintenance.	Sum	hustrafbh, Sum
Stop_times_of_local_SCCP_unavail	hua_sccp_availability_tab.rtbaoq3vsycsrdaopdj0omtoaf	INTEGER	#	Number of times the local SCCP returns to the available status.	Sum	hustrafbh, Sum

### 6.31.75SGSN.Huawei.GPRS.SCCP\_Performance

SCCP Performance measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Parse_error_checked_out	hua_sccp_performance_tab.xhc5rw6r0rcnutstysjulairg6	INTEGER	#	Number of the SCCP route faults due to parse errors in the addressing information.	Sum	hustrafbh, Sum
Routing_fail_network_congestion	hua_sccp_performance_tab.s05i6lqmt2cl3euyykpbgf2uf	INTEGER	#	Number of SCCP route faults due to MTP/SCCP congestion.	Sum	hustrafbh, Sum
Routing_fail_network_fail	hua_sccp_performance_tab.y13swlbclsc1ms32024aqibb0a	INTEGER	#	Number of SCCP route faults caused by that there is no available route to the destination	Sum	hustrafbh, Sum

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				address.		
Routing_fail_no_matching_for_addr	hua_sccp_performance_table.vknvisadjqcvecbbdb0f0qktyw	INTEGER	#	Number of SCCP route faults caused by that there is no matching address information in the address translation table.	Sum	hustrafbh, Sum
Routing_fail_no_transl_for_addr	hua_sccp_performance_table.rtyaqb3j4qcd4et0ona4u0rskp	INTEGER	#	Number of SCCP route faults caused by that the attribute of a specific address cannot be translated.	Sum	hustrafbh, Sum
Routing_fail_reason_unknown	hua_sccp_performance_table.tu4rbtis4pc0lrl6etn14bqtat	INTEGER	#	Number of SCCP route faults due to other causes.	Sum	hustrafbh, Sum
Routing_fail_subsystem_fail	hua_sccp_performance_table.shcyctoxkfcofs0ldgig2oncft	INTEGER	#	Number of SCCP route faults due to failure of the subsystem.	Sum	hustrafbh, Sum
Routing_fail_unequipment_user	hua_sccp_performance_table.xuno3ha0vsbmuu4sik6cct51kd	INTEGER	#	Number of SCCP route faults caused by that the subsystem has not been installed.	Sum	hustrafbh, Sum

### 6.31.76SGSN.Huawei.GPRS.SCCP\_Utilization

SCCP Utilization measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregat	Other Aggrega
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					or	tors
Msg_need_global_title_translation	hua_sccp_utilization_tab.xyvavt4r0bcjpnrhvwaiest5gk	INTEGER	#	Number of messages that need SCCP to provide the global TITLE translation function.	Sum	hustrafbh, Sum
Rec_class_0_and_class_1_message	hua_sccp_utilization_tab.sheylo1yncbt2ek1ai01h52mjw	INTEGER	#	Number of connectionless service messages (class 0 and 1) received by SCCP.	Sum	hustrafbh, Sum
Rec_class_2_message	hua_sccp_utilization_tab.vwv44n54cdclrxrolri501566	INTEGER	#	Number of connectionless service messages (class 2) received by SCCP.	Sum	hustrafbh, Sum
Rec_UDTS_message	hua_sccp_utilization_tab.v1bui3uoxsboqce5fen1wscwda	INTEGER	#	Number of UDT messages sent from SCCP that cannot reach the destination point.	Sum	hustrafbh, Sum
Sent_class_0_and_class_1_message	hua_sccp_utilization_tab.y5liwgt4adb1nbkmmrg6cqf2xn	INTEGER	#	Number of connectionless service messages (class 0 and 1) sent by SCCP.	Sum	hustrafbh, Sum
Sent_class_2_message	hua_sccp_utilization_tab.wjct5xixecp1sn536wojwwbw4	INTEGER	#	Number of connectionless service messages (class 2) sent by	Sum	hustrafbh, Sum

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				SCCP.		
Sent_UDTS_message	hua_sccp_utilization_tab.vavbicunbwbjstnrm42hovw3v5	INTEGER	#	Number of messages returned for the SCCP routing function cannot be used to transmit the connectionless service message.	Sum	hustrafbh, Sum
Total_msg_handled_by_subsys	hua_sccp_utilization_tab.suc6pmijsbcpwbxqbh3v00toggf	INTEGER	#	Number of messages processed by local SCCP.	Sum	hustrafbh, Sum
Total_msg_intended_for_local_subsys	hua_sccp_utilization_tab.snwecwvpsubmns0j5s3b1ox2qm	INTEGER	#	Total number of messages with the SCCP local subsystem as the destination address in the message.	Sum	hustrafbh, Sum

### 6.31.77SGSN.Huawei.GPRS.SGSN\_BSSGP

SGSN BSSGP measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Att_req_disc_Gb_flw_ctrl	hua_sgsn_bssgp_tab.saan63l3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of attach request discarded by BSSGP while Gb signalling flow control	Sum	hustrafbh, Sum
BSSGP_congestion_PDUs_re	hua_sgsn_bssgp_tab.yhbjhos6bjcmve12i25lxf4yxp	INTEGER	#	Number of times BSSGP	Sum	hustrafbh, Sum

c_from_BSS				receives the message of block.		
BSSGP_data_k bytes_rec_from m_LLC	hua_sgsn_bssgp_tab.s46d5 3vx6tcjoreqa2qutodc5t	INT8	KByte s	The data bytes received by BSSGP from the LLC layer.	Sum	hustrafbh , Sum
BSSGP_data_k bytes_rec_from m_NS	hua_sgsn_bssgp_tab.x4rd2 ay4x0b5nbh4v0tgo536nh	INT8	KByte s	Number of data bytes received by BSSGP from the NS layer.	Sum	hustrafbh , Sum
BSSGP_data_k bytes_sent_to_ LLC	hua_sgsn_bssgp_tab.ujso nqcx1dbofcjeutqbe0yix3	INT8	KByte s	Number of data bytes sent from BSSGP to the LLC layer.	Sum	hustrafbh , Sum
BSSGP_data_k bytes_sent_to_ NS	hua_sgsn_bssgp_tab.skwvs q2novb60u6x2ckhbqy5sg	INT8	KByte s	Number of data bytes sent from BSSGP to the NS layer.	Sum	hustrafbh , Sum
BSSGP_data_p kts_rec_from_ LLC	hua_sgsn_bssgp_tab.ufksu g14nrcmptbqnws6mgrwqq	INTEG ER	#	Number of data packets received by BSSGP from the LLC layer.	Sum	hustrafbh , Sum
BSSGP_data_p kts_rec_from_ NS	hua_sgsn_bssgp_tab.ux32v cvbnecint6lopowlh4te	INTEG ER	#	Number of data packets received by BSSGP from the NS layer.	Sum	hustrafbh , Sum
BSSGP_data_p kts_sent_to_ LLC	hua_sgsn_bssgp_tab.srhu3 vrcwab21eawx2dh4ktruh	INTEG ER	#	Number of data packets sent from BSSGP to the LLC layer.	Sum	hustrafbh , Sum
BSSGP_data_p kts_sent_to_N	hua_sgsn_bssgp_tab.s5ioi1 xquuc4bbtjxjiopyylf	INTEG ER	#	Number of data packets sent	Sum	hustrafbh , Sum

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S				from BSSGP to the NS layer.		
BSSGP_DL_data_pkts_dropped_NS_cong	hua_sgsn_bssgp_tab.tjndln tap0cfgr204ci3ofocf2	INTEGER	#	Number of downlink data packets dropped by the BSSGP layer when NS congestion	Sum	hustrafbh , Sum
BSSGP_DL_data_pkts_dropped	hua_sgsn_bssgp_tab.u3lnrf ix50catuxbtydn6yegpm	INTEGER	#	Number of downlink data packets dropped by the BSSGP layer.	Sum	hustrafbh , Sum
BSSGP_flowctrl_PDU_received_from_BSS	hua_sgsn_bssgp_tab.scgkko3312blmsnyi30eleas43	INTEGER	#	Number of flow control messages received by BSSGP.	Sum	hustrafbh , Sum
BSSGP_msg_dropped_due_BVC_blocked	hua_sgsn_bssgp_tab.r2cbo aluw6blit4rnnrkwonwmj	INTEGER	#	Number of messages dropped due to cell blocking.	Sum	hustrafbh , Sum
BSSGP_msg_dropped_due_to_BVC_reset	hua_sgsn_bssgp_tab.xpkxq nqvyic0xcohjfy6bc0p2p	INTEGER	#	Number of messages dropped due to BVC reset.	Sum	hustrafbh , Sum
BSSGP_receive_MS_flow_control_message	hua_sgsn_bssgp_tab.wwjs asyicgbhudgdms0eg10wqc	INTEGER	#	Number of flow control message received MS.	Sum	hustrafbh , Sum
BSSGP_reset_PDU_received_from_BSS	hua_sgsn_bssgp_tab.r2xtw oe0hkbepekqd3li6sb6eo	INTEGER	#	Number of reset messages received by BSSGP.	Sum	hustrafbh , Sum
BSSGP_reset_PDU_sent_to_BSS	hua_sgsn_bssgp_tab.tsbnrl yfmfbaqcmf3llwea0omx	INTEGER	#	Number of reset messages sent from BSSGP.	Sum	hustrafbh , Sum
BSSGP_resum	hua_sgsn_bssgp_tab.yg23b	INTEGER	#	Number of	Sum	hustrafbh

e_PDU_s_rec_fr om_BSS	1dea4b0jewwfgc3b5h45k	ER		RESUME messages received by BSSGP.		, Sum
BSSGP_status _PDU_s_rec_fr om_BSS	hua_sgsn_bssgp_tab.tn44d co00pbutdht25nkb3ffux	INTEG ER	#	Number of STATUS messages received by BSSGP.	Sum	hustrafbh , Sum
BSSGP_status _PDU_s_sent_t o_BSS	hua_sgsn_bssgp_tab.tdsh5 k1l2lbrlc3inqkdus44f	INTEG ER	#	Number of STATUS messages sent from BSSGP.	Sum	hustrafbh , Sum
BSSGP_suspe nd_PDU_s_rec_ from_BSS	hua_sgsn_bssgp_tab.ryuef nxmhwc53sgcodkjfq2dqr	INTEG ER	#	Number of SUSPEND messages received by BSSGP.	Sum	hustrafbh , Sum
BSSGP_UL_d ata_pkts_dropp ed	hua_sgsn_bssgp_tab.sy02ij 6velbldukf4ridrpq4sa	INTEG ER	#	Number of uplink data packets dropped by the BSSGP layer.	Sum	hustrafbh , Sum
BSSGP_unblo ck_PDU_s_rec_ from_BSS	hua_sgsn_bssgp_tab.vccg mpx4rpc13tef2gljrate0c	INTEG ER	#	Number of times BSSGP receives unblocking messages.	Sum	hustrafbh , Sum
DL_kB_dropp ed_buffer_ovrf lw	hua_sgsn_bssgp_tab.saan6 3h3xa2airvh002ind6wbg	INT8	Kbyte s	Number of downlink kbytes dropped due to BSSGP buffer overflow	Sum	hustrafbh , Sum
DL_kB_dropp ed_max_data_ exceed	hua_sgsn_bssgp_tab.saan6 3j3xa2airvh002ind6wbg	INT8	Kbyte s	Number of downlink kbytes dropped due to BSSGP	Sum	hustrafbh , Sum

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				maximum data amount exceeded.		
Gb_flwctrl_disc_RAUreq_no_PDP	hua_sgsn_bssgp_tab.saan63n3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of RAU request without PDP discarded by BSSGP while Gb signalling flow control	Sum	hustrafbh , Sum
Gb_flwctrl_disc_RAUreq_PDP	hua_sgsn_bssgp_tab.saan63p3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022 :Number of PDP activation discarded by BSSGP while Gb signalling flow control	Sum	hustrafbh , Sum
Radio_status_msg_rec_from_BSS	hua_sgsn_bssgp_tab.r5jmq3qwwhbxwr21xqj3sj3hp6	INTEGER	#	Number of radio status messages sent from BSSGP.	Sum	hustrafbh , Sum

### 6.31.78SGSN.Huawei.GPRS.SGSN\_CDR

SGSN CDR measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_LCS_MO_CDRs_generated_fail	100 * {LCS_MO_CDRs_generated_fail}/ ({LCS_MO_CDRs_generated} + {LCS_MO_CDRs_generated_fail})	FLOAT	%	Percentage of LCS-MO-CDRs failed by a specific user.	Average	Average, hustrafbh

$\bar{\%\_LCS\_MT\_CDRs\_generated\_fail}$	$100 * \frac{\{LCS\_MT\_CDRs\_generated\_fail\}}{(\{LCS\_MT\_CDRs\_generated\} + \{LCS\_MT\_CDRs\_generated\_fail\})}$	FLOAT	%	Percentage of LCS-MT-CDRs failed by a specific user.	Average	Average, hustrafb
$\bar{\%\_LCS\_NI\_CDRs\_generated\_fail}$	$100 * \frac{\{LCS\_NI\_CDRs\_generated\_fail\}}{(\{LCS\_NI\_CDRs\_generated\} + \{LCS\_NI\_CDRs\_generated\_fail\})}$	FLOAT	%	Percentage of LCS-NI-CDRs failed by a specific user.	Average	Average, hustrafb
$\bar{\%\_M\_CDRs\_generated\_fail}$	$100 * \frac{\{M\_CDRs\_generated\_fail\}}{(\{M\_CDRs\_generated\} + \{M\_CDRs\_generated\_fail\})}$	FLOAT	%	Percentage of M-CDRs failed by a specific user.	Average	Average, hustrafb
$\bar{\%\_S\_CDRs\_generated\_fail}$	$100 * \frac{\{S\_CDRs\_generated\_fail\}}{(\{S\_CDRs\_generated\} + \{S\_CDRs\_generated\_fail\})}$	FLOAT	%	Percentage of S-CDRs failed by a specific user.	Average	Average, hustrafb
$\bar{\%\_S\_SMO\_CDRs\_generated\_fail}$	$100 * \frac{\{S\_SMO\_CDRs\_generated\_fail\}}{(\{S\_SMO\_CDRs\_generated\} + \{S\_SMO\_CDRs\_generated\_fail\})}$	FLOAT	%	Percentage of S-SMO-CDRs failed by a specific user.	Average	Average, hustrafb
$\bar{\%\_S\_SMT\_CDRs\_generated\_fail}$	$100 * \frac{\{S\_SMT\_CDRs\_generated\_fail\}}{(\{S\_SMT\_CDRs\_generated\} + \{S\_SMT\_CDRs\_generated\_fail\})}$	FLOAT	%	Percentage of S-SMT-CDRs failed by a specific user.	Average	Average, hustrafb
LCS_MO_CD	hua_sgsn_cdr_tab.y5v2	INTEG	CDRs	Number of	Sum	hustrafb

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Rs_generated_fail	m53bs2thoepmnp6bxuh	ER		LCS-MO-CDRs failed by a specific user.		, Sum
LCS_MO_CD Rs_generated	hua_sgsn_cdr_tab.raraeatn b0b5fsc4q3c5tgnglb	INTEGER	CDRs	Number of LCS-MO-CDRs generated by a specific user.	Sum	hustrafbh , Sum
LCS_MT_CD Rs_generated_fail	hua_sgsn_cdr_tab.r61suv kq4b3jec0l6st4ave0	INTEGER	CDRs	Number of LCS-MT-CDRs failed by a specific user.	Sum	hustrafbh , Sum
LCS_MT_CD Rs_generated	hua_sgsn_cdr_tab.ti2noktk abbu5una3it0ugfoe2	INTEGER	CDRs	Number of LCS-MT-CDRs generated by a specific user.	Sum	hustrafbh , Sum
LCS_NI_CDR s_generated_fail	hua_sgsn_cdr_tab.vldposil hec0grbuvlkhvabijo	INTEGER	CDRs	Number of LCS-NI-CDRs failed by a specific user.	Sum	hustrafbh , Sum
LCS_NI_CDR s_generated	hua_sgsn_cdr_tab.wlrvsqu r6cc0gbsnl3xnlqtjhv	INTEGER	CDRs	Number of LCS-NI-CDRs generated by a specific user.	Sum	hustrafbh , Sum
M_CDRs_gene rated_fail	hua_sgsn_cdr_tab.wxg6ux k2w1bigb4ri5lcocxd3v	INTEGER	CDRs	Number of M-CDRs failed by a specific user.	Sum	hustrafbh , Sum
M_CDRs_gene rated	hua_sgsn_cdr_tab.tkhr1nu3 mlct5rc63vnwus6wjy	INTEGER	CDRs	Number of M-CDRs generated by a specific user.	Sum	hustrafbh , Sum
S_CDRs_abno rmal_released	hua_sgsn_cdr_tab.saan62t3 xa2airvh002ind6wbg	INTEGER	CDRs	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of S-CDRs abnormal released.	Sum	hustrafbh , Sum

S_CDRs_closed_all_reason	hua_sgsn_cdr_tab.saan62r3xa2airvh002ind6wbg	INTEGER	CDRs	Number of S-CDRs closed due to all reasons in SGSN.	Sum	hustrafbh, Sum
S_CDRs_due_to_timelimit	hua_sgsn_cdr_tab.saan62n3xa2airvh002ind6wbg	INTEGER	CDRs	Number of S-CDRs generated due to timelimit in SGSN.	Sum	hustrafbh, Sum
S_CDRs_due_to_volumelimit	hua_sgsn_cdr_tab.saan62p3xa2airvh002ind6wbg	INTEGER	CDRs	Number of S-CDRs generated due to volumelimit in SGSN.	Sum	hustrafbh, Sum
S_CDRs_generated_fail	hua_sgsn_cdr_tab.tf5ap0cbg5c1obqhno3vly20ne	INTEGER	CDRs	Number of S-CDRs failed by a specific user.	Sum	hustrafbh, Sum
S_CDRs_generated	hua_sgsn_cdr_tab.secwmui rhdco4cf1rftdgtxam1	INTEGER	CDRs	Number of S-CDRs generated by a specific user.	Sum	hustrafbh, Sum
S_CDRs_opened	hua_sgsn_cdr_tab.saan62l3xa2airvh002ind6wbg	INTEGER	CDRs	Number of S-CDRs opened in SGSN.	Sum	hustrafbh, Sum
S_SMO_CDRs_generated_fail	hua_sgsn_cdr_tab.xvju2hgch0carrtoo0h6he6yam	INTEGER	CDRs	Number of S-SMO-CDRs failed by a specific user.	Sum	hustrafbh, Sum
S_SMO_CDRs_generated	hua_sgsn_cdr_tab.tjmk45plficlvefqrkfdrlftkx	INTEGER	CDRs	Number of S-SMO-CDRs generated by a specific user.	Sum	hustrafbh, Sum
S_SMT_CDRs_generated_fail	hua_sgsn_cdr_tab.s5k3dofomac6esoalmylhw5qv	INTEGER	CDRs	Number of S-SMT-CDRs failed by a	Sum	hustrafbh, Sum

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				specific user.		
S_SMT_CDRs_generated	hua_sgsn_cdr_tab.utdk4c1br4bvbe4fe0lb50es	INTEGER	CDRs	Number of S-SMT-CDRs generated by a specific user.	Sum	hustrafbh, Sum

### 6.31.79SGSN.Huawei.GPRS.SGSN\_Compression\_Card

SGSN Compression Card measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Data_compression_finished_pkts	hua_sgsn_comp_card_tab.wxppq5cvqubk0cvye1ihx202a2	INTEGER	#	Number of downlink data packets compressed successfully by the PMC pinch board.	Sum	hustrafbh, Sum
Data_compression_pkts	hua_sgsn_comp_card_tab.xw1wnm6rpicoos1ligna4xjfs23	INTEGER	#	Number of downlink data packets compressed by the PMC pinch board.	Sum	hustrafbh, Sum
Data_decompression_finished_pkts	hua_sgsn_comp_card_tab.rkrl4031kpbb3tutxhroclhnf6	INTEGER	#	Number of uplink data packets decompressed successfully by the PMC pinch board.	Sum	hustrafbh, Sum
Data_decompression_pkts	hua_sgsn_comp_card_tab.uuarmmmqoebrod0u5qd6hj5mte	INTEGER	#	Number of uplink data packets decompressed by the PMC pinch board.	Sum	hustrafbh, Sum

**6.31.80SGSN.Huawei.GPRS.SGSN\_DNS\_Request**

SGSN DNS Request measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Resolving_request_CACHE_hit	hua_sgsn_dns_request_tab.s64sn0aak3c6mdak6dfjptlex4	INTEGER	#	Number of successful domain name resolutions via Cache.	Sum	hustrafbh, Sum
Resolving_request_DNS_Server	hua_sgsn_dns_request_tab.y1lsp2yrn6cwasi4yflvdnrgnr	INTEGER	#	Number of resolution requests the SGSN delivers to the DNS server.	Sum	hustrafbh, Sum
Resolving_request_Hostfile_hit	hua_sgsn_dns_request_tab.temlyqguxgba0tbo62innslm66	INTEGER	#	Number of successful domain name resolutions via Hostfile.	Sum	hustrafbh, Sum
Resolving_request_result_error	hua_sgsn_dns_request_tab.wdq2rk13qschkbyx3nrdeshefel	INTEGER	#	Number of errors in domain name resolution.	Sum	hustrafbh, Sum
Resolving_request	hua_sgsn_dns_request_tab.wut1sls4jncslsidfx1tmj5r6m	INTEGER	#	Number of necessary domain name resolutions.	Sum	hustrafbh, Sum
Succ_resolv_1_or_more_records_DNS	hua_sgsn_dns_request_tab.saan6bh3xa2airvh002ind6wbq	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Success resolving request one more records in	Sum	hustrafbh, Sum

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				result from DNS Server		
Success_response_from_DNS_Server	hua_sgsn_dns_request_tab.vx45np4xdpbrmcynhbb3bsawmn	INTEGER	#	Number of correct responses the SGSN receives from the DNS server.	Sum	hustrafbh, Sum

### 6.31.81SGSN.Huawei.GPRS.SGSN\_Encryption

SGSN Encryption measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_GEA1_decrypt_requests_failure_rate	hua_sgsn_encryption_tab.y3rrqb2hva2ahd4ab00pg3rx00	INTEGER	%	GEA1 decrypt requests failure rate	Average	Average, hustrafbh, Maximum, Minimum, Sum
%_GEA1_encrypt_requests_failure_rate	hua_sgsn_encryption_tab.xs3glwrhva2ahd4ab00pg3rx00	INTEGER	%	GEA1 encrypt requests failure rate	Average	Average, hustrafbh, Maximum, Minimum, Sum
%_GEA2_decrypt_requests_failure_rate	hua_sgsn_encryption_tab.yg2m2pnhva2ahd4ab00pg3rx00	INTEGER	%	GEA2 decrypt requests failure rate	Average	Average, hustrafbh, Maximum, Minimum, Sum
%_GEA2_encrypt_requests_failure_rate	hua_sgsn_encryption_tab.y3rrqb4hva2ahd4ab00pg3rx00	INTEGER	%	GEA2 encrypt requests failure rate	Average	Average, hustrafbh, Maximum,

						Minimum, Sum
Decrypt_finished_pkts	hua_sgsn_encryption_tab.w3jxw6sbe0bhac21cm23ohcehc	INTEGER	#	Number of finished data packets of LLC decryption.	Sum	hustrafbh, Sum
Decrypt_pkts	hua_sgsn_encryption_tab.i0kjfo5hcggr5brukvrmao6e	INTEGER	#	Number of attempted LLC decrypted data packets.	Sum	hustrafbh, Sum
Encrypt_finished_pkts	hua_sgsn_encryption_tab.r y2yp2x3e4bcvsnmnuvjdw wjip	INTEGER	#	Number of finished data packets of LLC encryption.	Sum	hustrafbh, Sum
Encrypt_pkts	hua_sgsn_encryption_tab.vubkwy1clhcvre21q1bv2lw y60	INTEGER	#	Number of attempted LLC encrypted data packets.	Sum	hustrafbh, Sum
GEA1_decrypt_requests_failure_pkts	hua_sgsn_encryption_tab.snd4liucjbcdcdtyihfxmfqu1h	INTEGER	#	GEA1 decrypted requests failure packets	Sum	hustrafbh, Sum
GEA1_decrypt_requests_pkts	hua_sgsn_encryption_tab.w2ep50fnqfce4chenc2k5odvpv	INTEGER	#	GEA1 decrypted requests packets	Sum	hustrafbh, Sum
GEA1_encrypt_requests_failure_pkts	hua_sgsn_encryption_tab.w31hr46xmicgbtw5rrau1bj1eh	INTEGER	#	GEA1 encrypted requests failure packets	Sum	hustrafbh, Sum
GEA1_encrypt_requests_pkts	hua_sgsn_encryption_tab.x2vborxykcvmuep6lodjr6tae	INTEGER	#	GEA1 encrypted requests packets	Sum	hustrafbh, Sum
GEA2_decrypt_requests_failure	hua_sgsn_encryption_tab.wuofgk10jdcx1d1gjvcvf4b	INTEGER	#	GEA2 decrypted	Sum	hustrafbh, Sum

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re_pkts	xbq			requests failure packets		
GEA2_decrypt_requests_pkts	hua_sgsn_encryption_tab.v e3jsggbdsc44rmvg44vtcjsy 0	INTEG ER	#	GEA2 decrypted requests packets	Sum	hustrafbh , Sum
GEA2_encrypt_requests_failure_pkts	hua_sgsn_encryption_tab.t dpaebxibxbrsdrwm5kltd1c ap	INTEG ER	#	GEA2 encrypted requests failure packets	Sum	hustrafbh , Sum
GEA2_encrypt_requests_pkts	hua_sgsn_encryption_tab.r gv4k4p6fvbg1enrkj214ghy gm	INTEG ER	#	GEA2 encrypted requests packets	Sum	hustrafbh , Sum
GEA3_decrypt_req_failure_pkts	hua_sgsn_encryption_tab.s aan63x3xa2airvh002ind6w bg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :GEA3 decrypt requests failure packets	Sum	hustrafbh , Sum
GEA3_decrypt_req_failure_rate	hua_sgsn_encryption_tab.s aan6423xa2airvh002ind6w bg	INTEG ER	%	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :GEA3 decrypt requests failure rate	Average	Average, hustrafbh , Maximu m, Minimu m, Sum
GEA3_decrypt_req_pkts	hua_sgsn_encryption_tab.s aan63v3xa2airvh002ind6w bg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :GEA3 decrypt requests packets	Sum	hustrafbh , Sum
GEA3_encrypt_req_failure_pkts	hua_sgsn_encryption_tab.s aan63t3xa2airvh002ind6w bg	INTEG ER	#	Obsolete from CN- SGSN/V900R0 10.C01SPC022 :GEA3 encrypt requests failure	Sum	hustrafbh , Sum

				packets		
GEA3_encrypt_req_failure_rate	hua_sgsn_encryption_tab.saan6403xa2airvh002ind6wbg	INTEGER	%	Obsolete from CN-SGSN/V900R010.C01SPC022:GEA3 encrypt requests failure rate	Average	Average, hustrafbh, Maximum, Minimum, Sum
GEA3_encrypt_req_pkts	hua_sgsn_encryption_tab.saan63r3xa2airvh002ind6wbg	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:GEA3 encrypt requests packets	Sum	hustrafbh, Sum

### 6.31.82SGSN.Huawei.GPRS.SGSN\_FR

SGSN FR measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
FR_correct_UL_data_kbytes_rec	hua_sgsn_fr_tab.uq41qsua5fc41cucij06bwnbem	INT8	KBytes	Number of bytes of correct data received by the FR layer from peer end.	Sum	hustrafbh, Sum
FR_correct_UL_data_pkts_rec	hua_sgsn_fr_tab.xxu4vbm30bblybgixcbgq3somj	INTEGER	#	Number of correct data packets received by the FR layer from peer end.	Sum	hustrafbh, Sum
FR_correct_UL_signalling_kbytes_rec	hua_sgsn_fr_tab.r2yoimrsbgbapuh4pt6r4booor	INT8	KBytes	Number of bytes of correct signaling received by the	Sum	hustrafbh, Sum

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				FR layer from peer end.		
FR_correct_UL_signalling_pkts_rec	hua_sgsn_fr_tab.w6du63wcbxbjrt0flug64taji6	INTEGER	#	Number of correct signaling frames received by the FR layer from peer end.	Sum	hustrafbh , Sum
FR_DL_data_kbytes_sent	hua_sgsn_fr_tab.thd6fjtxqich1udpqoo4u0aaxh	INT8	KBytes	Number of data bytes successfully sent by FR.	Sum	hustrafbh , Sum
FR_DL_data_pkts_dropped	hua_sgsn_fr_tab.rmtu3bp16wensc6fmv10gnbuva	INTEGER	#	Number of data packets dropped by FR.	Sum	hustrafbh , Sum
FR_DL_data_pkts_sent	hua_sgsn_fr_tab.wsipi51vgreb3hduu6jrqr1lb2d	INTEGER	#	Number of data packets successfully sent by FR.	Sum	hustrafbh , Sum
FR_error_UL_data_pkts_rec	hua_sgsn_fr_tab.rptvrxvubbbitr00wp6xrncai3	INTEGER	#	Number of error data packets received by the FR layer from peer end.	Sum	hustrafbh , Sum
FR_error_UL_pkts_rec	hua_sgsn_fr_tab.v1ev01sbhfclbuxywnp6hx3uiy	INTEGER	#	Number of signaling and data frames discarded by the FR layer that have been sent from peer end.	Sum	hustrafbh , Sum
FR_error_UL_signalling_pkts_rec	hua_sgsn_fr_tab.yv2hy4rtfbbwmtqthruqbwn5up	INTEGER	#	Number of error signaling frames received by the FR layer from peer end.	Sum	hustrafbh , Sum
FR_pkts_DL_resent	hua_sgsn_fr_tab.yajuv2m06tceuo41jj5uavmy	INTEGER	#	Number of data packets resent from FR to	Sum	hustrafbh , Sum

				peer end.		
FR_pkts_dropped_by_FR_when_resent	hua_sgsn_fr_tab.ymdwe1f5dcufcwh1kunnwt6if	INTEGER	#	Number of data packets dropped by FR when resent to peer end.	Sum	hustrafbh, Sum
FR_UL_pkts_received	hua_sgsn_fr_tab.w1dvx26pugcxlrwiqmk2l5kkeh	INTEGER	#	Number of signaling and data frames received by the FR layer from peer end.	Sum	hustrafbh, Sum

### 6.31.83SGSN.Huawei.GPRS.SGSN\_Gb\_Resource

SGSN Gb Resource measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Abnormal_cell_number	hua_sgsn_gb_resource_tab.xoju2psuxpcmouknn55qom3eo4	INTEGER	#	Number of cells that can not bear services.	Average	Average, hustrafbh, Maximum, Minimum, Sum
E1_in_service	hua_sgsn_gb_resource_tab.txmkrqhu2cfxtic3rkpykky	INTEGER	#	Number of E1s configured by the system for the Gb interface.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Gb_link_in_service	hua_sgsn_gb_resource_tab.yasbrqbfhfbm0byoxpatr1rcub	INTEGER	#	Number of NSVCs that can bear services.	Average	Average, hustrafbh, Maximum

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						m, Minimum, Sum
Gb_link_unavailable	hua_sgsn_gb_resource_tab.ylvrtylfscbwitwdy6so44f3at	INTEGER	#	Number of NSVCs that can not bear services.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Invalid_channel_number	hua_sgsn_gb_resource_tab.yv4xitrhrbausyvwlyce33k00	INTEGER	#	Number of BCs that can not bear services.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Normal_cell_number	hua_sgsn_gb_resource_tab.yguulnrdbwcswh34x6np huc5d	INTEGER	#	Number of cells that can bear services.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Valid_channel_number	hua_sgsn_gb_resource_tab.uumbb6nj2tb10s6ofe5cdekaft	INTEGER	#	Number of BCs that can bear services.	Average	Average, hustrafbh, Maximum, Minimum, Sum

### 6.31.84SGSN.Huawei.GPRS.SGSN\_LLC

SGSN LLC measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Ack_mode_link_reconstruction_times	hua_sgsn_llc_tab.u2pfrqpe mrcdkboggc26xloqx5	INT8	#	Number of link re-establishments	Sum	hustrafbh, Sum

				in the acknowledgeme nt mode.		
Data_frames_re sent_in_ack_m ode	hua_sgsn_llc_tab.yvv5pml 26wbsssiqjqlbfkfst	INT8	#	Number of LLC frames resent in the LLC acknowledgeme nt mode and whether the resending is checked by MS and notified to SGSN (downlink transmission, MS).	Sum	hustrafbh , Sum
Error_frames_r ec_by_LLC	hua_sgsn_llc_tab.tpfr1jb4h 5bt1efuhdhdgu3nfw	INT8	#	Number of error frames detected during check of the received LLC frames by SGSN.	Sum	hustrafbh , Sum
LLC_data_kbyt es_rec_from_B SSGP	hua_sgsn_llc_tab.uspfocad 4bbogcldggc5y0rg1v	INT8	KByte s	Number of data bytes received by LLC from the BSSGP protocol layer.	Sum	hustrafbh , Sum
LLC_data_kbyt es_rec_from_S NDCP	hua_sgsn_llc_tab.wrwr04g 23xbbhtxvixx3aavuup	INT8	KByte s	Number of data bytes received by LLC from the SNDGP protocol layer.	Sum	hustrafbh , Sum
LLC_data_kbyt es_sent_to_BS SGP	hua_sgsn_llc_tab.skmk6fq plickjsw0rygvllwadol	INT8	KByte s	Number of data bytes sent from LLC to the BSSGP protocol layer.	Sum	hustrafbh , Sum
LLC_data_kbyt	hua_sgsn_llc_tab.xlml2yr	INT8	KByte	Number of data	Sum	hustrafbh

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es_sent_to_SNDCP	ccbmosg5khd2qcm4gl		s	bytes sent from LLC to the SNDCP protocol layer.		, Sum
LLC_data_operated_kbytes	hua_sgsn_llc_tab.veppaaefiocuft51hl4c6itwgv	INT8	KBytes	Number of data bytes operated by LLC layer.	Sum	hustrafbh, Sum
LLC_data_pkts_BSSGP_and_SNDCP	hua_sgsn_llc_tab.sg6yhtj3n2bfluo0y3rgtg53xjy	INT8	#	Number of data packets sent and received from/by LLC from BSSGP/SNDCP	Sum	hustrafbh, Sum
LLC_data_pkts_rec_from_BSSGP	hua_sgsn_llc_tab.ytalrpkx5ubu3uvoiveyubrl4c	INT8	#	Number of data packets received by LLC from the BSSGP protocol layer.	Sum	hustrafbh, Sum
LLC_data_pkts_rec_from_SNDCP	hua_sgsn_llc_tab.tex3i3co5vcafsfyjyspab1at0	INT8	#	Number of data packets received by LLC from the SNDCP protocol layer.	Sum	hustrafbh, Sum
LLC_data_pkts_sent_to_BSSGP	hua_sgsn_llc_tab.xn2pcm0trfckftghsuiike30e	INT8	#	Number of data packets sent by LLC to the BSSGP protocol layer.	Sum	hustrafbh, Sum
LLC_data_pkts_sent_to_SNDCP	hua_sgsn_llc_tab.uh3tdync32bjmdymmtbded2nch	INT8	#	Number of data packets sent from LLC to the SNDCP protocol layer.	Sum	hustrafbh, Sum
LLC_DL_data_pkts_dropped	hua_sgsn_llc_tab.v63hlx1cu3bk3tigtadnrq10ty	INT8	#	Number of downlink data frames dropped by the LLC layer.	Sum	hustrafbh, Sum
LLC_DL_pkts_dropped_suspend	hua_sgsn_llc_tab.saan62v3xa2airvh002ind6wbg	INT8	#	LLC downlink data packets dropped due to suspend	Sum	hustrafbh, Sum

LLC_dl_signalling_pkts_dropped	hua_sgsn_llc_tab.racs0ykc asbyru1jniwmr2514a	INT8	#	Number of downlink signaling packets dropped by the LLC layer.	Sum	hustrafbh , Sum
LLC_DL_TO_M_protocol_en v_dropped	hua_sgsn_llc_tab.x14bcvgl h0cb2sd46omvjte2ws	INT8	#	Number of downlink TOM Protocol Envelope messages discarded by the LLC	Sum	hustrafbh , Sum
LLC_DL_TO_M_protocol_en v_rec	hua_sgsn_llc_tab.ua4vhk5 2robrxe46jfns5fg4pq	INT8	#	Number of LLC-received downlink TOM messages from the BSSAP+	Sum	hustrafbh , Sum
LLC_DL_TO_M_protocol_en v_sent	hua_sgsn_llc_tab.sxiyxad1 bmbyudj3et3txbxkuo	INT8	#	Number of LLC-sent downlink TOM messages sent to the BSSAP+	Sum	hustrafbh , Sum
LLC_Gb_mode_attach_request_dropped	hua_sgsn_llc_tab.r4oer0gv tjcalbycl1mg1h4tfv	INT8	#	Number of GPRS Attach Requests discarded by the LLC	Sum	hustrafbh , Sum
LLC_peak_kB_rev d_BSSGP	hua_sgsn_llc_tab.saan634 3xa2airvh002ind6wbg	FLOAT	Kbytes	Obsolete from CN-SGSN/V900R010.C01SPC022:LLC peak data kbytes received from BSSGP	Average	Average, hu strafbh , Maximum, Minimum, Sum
LLC_peak_kB_sent_BSSGP	hua_sgsn_llc_tab.saan630 3xa2airvh002ind6wbg	FLOAT	Kbytes	Obsolete from CN-SGSN/V900R01	Average	Average, hu strafbh ,

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				0.C01SPC022:LC peak data kbytes sent to BSSGP		Maximum, Minimum, Sum
LLC_peak_pkt_s_rcvd_BSSGP	hua_sgsn_llc_tab.saan6323xa2airvh002ind6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022:LC peak data packets received from BSSGP	Average	Average, hustrafbh, Maximum, Minimum, Sum
LLC_peak_pkt_s_sent_BSSGP	hua_sgsn_llc_tab.saan62x3xa2airvh002ind6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022:LC peak data packets sent to BSSGP	Average	Average, hustrafbh, Maximum, Minimum, Sum
LLC_peak_sig_kB_rcvd_BSSGP	hua_sgsn_llc_tab.saan63f3xa2airvh002ind6wbg	FLOAT	Kbytes	Obsolete from CN-SGSN/V900R010.C01SPC022:LC peak signalling kbytes received from BSSGP	Average	Average, hustrafbh, Maximum, Minimum, Sum
LLC_peak_sig_kB_sent_BSSGP	hua_sgsn_llc_tab.saan63b3xa2airvh002ind6wbg	FLOAT	Kbytes	Obsolete from CN-SGSN/V900R010.C01SPC022:LC peak signalling kbytes sent to BSSGP	Average	Average, hustrafbh, Maximum, Minimum, Sum
LLC_peak_sig_pkts_rcvd_BSSGP	hua_sgsn_llc_tab.saan63d3xa2airvh002ind6wbg	FLOAT	#	Obsolete from CN-SGSN/V900R010.C01SPC022:LC peak signalling packets received from BSSGP	Average	Average, hustrafbh, Maximum, Minimum, Sum
LLC_peak_sig	hua_sgsn_llc_tab.saan636	FLOAT	#	Obsolete from	Average	Average,

_pkts_sent_BS SGP	3xa2airvh002ind6wbg	T		CN- SGSN/V900R01 0.C01SPC022:L LC peak signalling packets sent to BSSGP		hustrafbh , Maximu m, Minimu m, Sum
LLC_Peak_Thr oughput	hua_sgsn_llc_tab.r2j0e0xj q3bfwco2yyia4otlad	FLOA T	Kbyte s/s	Number of data bytes handled by LLC layer.	Average	Average, hustrafbh , Maximu m, Minimu m, Sum
LLC_pkts_rese nt	hua_sgsn_llc_tab.sprhtinv 5cs1ejvl4e4y6qrst	INT8	#	Number of LLC packets resent.	Sum	hustrafbh , Sum
LLC_signalling _kbytes_rec_B SSGP	hua_sgsn_llc_tab.u5d20ij6 f5cvgt266pqlfbrdc5	INT8	KByte s	Number of bytes of signaling received by LLC from the BSSGP protocol layer.	Sum	hustrafbh , Sum
LLC_signalling _kbytes_rec_L 3MM	hua_sgsn_llc_tab.yc0iv0ag 46cg4sohnfhxkqvuoq	INT8	KByte s	Number of bytes of signaling received by LLC from the GMM layer.	Sum	hustrafbh , Sum
LLC_signalling _kbytes_sent_t o_BSSGP	hua_sgsn_llc_tab.saaqmfc 0gncnouekqy5rh2wggq	INT8	KByte s	Number of bytes of signaling sent from LLC to the BSSGP protocol layer.	Sum	hustrafbh , Sum
LLC_signalling _kbytes_sent_t o_SNDGP	hua_sgsn_llc_tab.wijm2s2 sb4cntcqjhje2fnqcbo	INT8	KByte s	Number of bytes of signaling sent from LLC to the SNDGP protocol layer.	Sum	hustrafbh , Sum
LLC_signalling	hua_sgsn_llc_tab.vwk11df	INT8	#	Number of	Sum	hustrafbh

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_pkts_rec_from_BSSGP	yxicctsmadxy1jagrbx			signaling packets received by LLC from the BSSGP protocol layer.		, Sum
LLC_signalling_pkts_rec_from_L3MM	hua_sgsn_llc_tab.t350tswfubcokt0lq1uvdycwy1	INT8	#	Number of signaling frames received by LLC from the GMM layer.	Sum	hustrafbh, Sum
LLC_signalling_pkts_sent_to_BSSGP	hua_sgsn_llc_tab.xq6kolv651cnobujo4nap46gjb	INT8	#	Number of signaling packets sent from LLC to the BSSGP protocol layer.	Sum	hustrafbh, Sum
LLC_signalling_pkts_sent_to_SNDGP	hua_sgsn_llc_tab.xvno6replbc6mshboepfkcwvxv	INT8	#	Number of signaling packets sent from LLC to the SNDGP protocol layer.	Sum	hustrafbh, Sum
LLC_TOM_protocol_envelopes_sent_to_BS_SAP	hua_sgsn_llc_tab.uudbhuxpelchhrvrvspp2nl5i	INT8	#	Number of uplink TOM Protocol Envelope messages sent from the LLC to BSSAP+	Sum	hustrafbh, Sum
LLC_UL_data_pkts_dropped	hua_sgsn_llc_tab.ykfmoh21qrchieviwhv1jw1emd	INT8	#	Number of uplink data frames dropped by the LLC layer.	Sum	hustrafbh, Sum
LLC_UL_signalling_pkts_dropped	hua_sgsn_llc_tab.xvs5wnvqvdcvmrq42erj3scsug	INT8	#	Number of uplink signaling packets dropped by the LLC layer.	Sum	hustrafbh, Sum
LLC_UL_TOM_protocol_en	hua_sgsn_llc_tab.vou6lan4mxcjyr14oqluxoapgw	INT8	#	Number of uplink TOM	Sum	hustrafbh, Sum

v_dropped				Protocol Envelope messages discarded by the LLC		
LLC_UL_TO M_protocol_envelopes_rec	hua_sgsn_llc_tab.timeebqlucc23dvyo4hfmnl5e3	INT8	#	Number of uplink TOM Protocol Envelope messages received by the LLC	Sum	hustrafbh, Sum

### 6.31.85SGSN.Huawei.GPRS.SGSN\_NS

SGSN NS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
NS_block_ack_msg_rec_from_BSS	hua_sgsn_ns_tab.wgbe0paglcb1ycav4q2hexdlu5	INTEGER	#	Number of BLOCK ACK messages received from BSS.	Sum	hustrafbh, Sum
NS_block_ack_msg_sent_to_BSS	hua_sgsn_ns_tab.ya065aj5subqtbtf6uafoemswv6	INTEGER	#	Number of BLOCK ACK messages sent to BSS.	Sum	hustrafbh, Sum
NS_block_msg_rec_from_BSS	hua_sgsn_ns_tab.r4021eoi g2cqftjymxfgku2bdd	INTEGER	#	Number of BLOCK messages received from BSS.	Sum	hustrafbh, Sum
NS_block_msg_sent_to_BSS	hua_sgsn_ns_tab.rxtymi15epcqpefkqku1mbjkuk	INTEGER	#	Number of BLOCK messages sent to BSS.	Sum	hustrafbh, Sum

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NS_DL_data_pkts_discarded	hua_sgsn_ns_tab.xlxqba26 bnb20c6ceiix01ydp1	INTEGER	#	Number of downlink data packets dropped by the NS sublayer.	Sum	hustrafbh , Sum
NS_kbytes_between_NS_and_FR	hua_sgsn_ns_tab.tl63xnony42ahc3lr02incnmdw	INT8	Kilobytes	Total throughput received from the FR layer and sent to FR layer by the NS layer.	Sum	hustrafbh , Sum
NS_kbytes_received_from_BSSGP	hua_sgsn_ns_tab.rd3eva4s docogb6rih000q2a4t	INT8	KBytes	Total number of bytes received by the NS layer from the BSSGP layer.	Sum	hustrafbh , Sum
NS_kbytes_received_from_FR	hua_sgsn_ns_tab.rp0nk4bli 5bf0dja0kkfg3nacs	INT8	KBytes	Total number of bytes received by the NS layer from the FR layer.	Sum	hustrafbh , Sum
NS_kbytes_sent_to_BSSGP	hua_sgsn_ns_tab.ylmen00 5mfbc6sjhewbkdksqbo	INT8	KBytes	Total number of bytes sent from the NS layer to the BSSGP layer.	Sum	hustrafbh , Sum
NS_kbytes_sent_to_FR	hua_sgsn_ns_tab.uil5sf21g 2cc3d1i3f1d2ghplh	INT8	KBytes	Total number of bytes sent from the NS to the FR layer.	Sum	hustrafbh , Sum
NS_mean_kbytes_between_NS_and_FR	hua_sgsn_ns_tab.tl63xnkny42ahc3lr02incnmdw	FLOAT	Kilobytes/s	Arithmetic mean throughput of Kbytes received from FR layer and sent to FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum

NS_mean_kbytes_received_from_FR	hua_sgsn_ns_tab.tl63xn1ny42ahc3lr02incnmdw	FLOAT	Kilobytes/s	Arithmetic mean throughput of Kbytes received from FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum
NS_mean_kbytes_sent_to_FR	hua_sgsn_ns_tab.tl63xn5ny42ahc3lr02incnmdw	FLOAT	Kilobytes/s	Arithmetic mean throughput of Kbytes sent to FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum
NS_mean_packets_between_NS_and_FR	hua_sgsn_ns_tab.tl63xniny42ahc3lr02incnmdw	FLOAT	Packets/s	Arithmetic mean throughput of packets received from FR layer and sent to FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum
NS_mean_packets_received_from_FR	hua_sgsn_ns_tab.tl63xmyny42ahc3lr02incnmdw	FLOAT	Packets/s	Arithmetic mean number of packets recieved from FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum
NS_mean_packets_sent_to_FR	hua_sgsn_ns_tab.tl63xn3ny42ahc3lr02incnmdw	FLOAT	Packets/s	Arithmetic mean number of packets per sencond sent to FR layer.	Average	Average, hustrafbh , Maximum, Minimum, Sum

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NS_packets_between_NS_and_FR	hua_sgsn_ns_tab.tl63xnmny42ahc3lr02incnmdw	INT8	Packets	Total number of packets received from the FR layer and sent to FR layer by the NS layer.	Sum	hustrafbh , Sum
NS_peak_kbytes_between_NS_and_FR	hua_sgsn_ns_tab.tl63xnsny42ahc3lr02incnmdw	INT8	Kilobytes/s	Peak throughput of packets sent to FR layer and received from FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum
NS_peak_kbytes_received_from_FR	hua_sgsn_ns_tab.tl63xncny42ahc3lr02incnmdw	INT8	Kilobytes/s	peak number of Kbytes received from FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum
NS_peak_kbytes_sent_to_FR	hua_sgsn_ns_tab.tl63xngny42ahc3lr02incnmdw	INT8	Kilobytes/s	Peak throughput of Kbytes sent to FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum
NS_peak_packets_between_NS_and_FR	hua_sgsn_ns_tab.tl63xnqny42ahc3lr02incnmdw	INT8	Packets/s	Peak number of packets sent to FR layer and received from FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum
NS_peak_packets_received_from_FR	hua_sgsn_ns_tab.tl63xnany42ahc3lr02incnmdw	INT8	Packets/s	Peak number of packets received from FR layer by NS layer per second.	Average	Average, hustrafbh , Maximum, Minimum, Sum

NS_peak_packets_sent_to_FR	hua_sgsn_ns_tab.tl63xneny42ahc3lr02incnmdw	INT8	Packets/s	Peak throughput of packets sent to FR layer by NS layer per second.	Average	Average, Maximum, Minimum, Sum
NS_pkts_rec_from_BSSGP	hua_sgsn_ns_tab.wphuku1j5yblctq2yi1kc62abl	INTEGER	#	Total number of packets received by the NS layer from the BSSGP layer.	Sum	hustrafbh, Sum
NS_pkts_rec_from_FR	hua_sgsn_ns_tab.ufkvmt6xleccrcf4bsfl3qxvb3	INTEGER	#	Total number of packets received by the NS layer from the FR layer.	Sum	hustrafbh, Sum
NS_pkts_sent_to_BSSGP	hua_sgsn_ns_tab.xwu2dx5d03brarqf01sqjpnuth	INTEGER	#	Total number of packets sent from the NS layer to the BSSGP layer.	Sum	hustrafbh, Sum
NS_pkts_sent_to_FR	hua_sgsn_ns_tab.taotlshb13cw5biwnam6gcf0eo	INTEGER	#	Total number of packets sent from the NS layer to the FR layer.	Sum	hustrafbh, Sum
NS_reset_ack_msg_rec_from_BSS	hua_sgsn_ns_tab.rlybskq5cdcg2bmenmmpalwl2b	INTEGER	#	Number of RESET ACK messages received from BSS.	Sum	hustrafbh, Sum
NS_reset_ack_msg_sent_to_BSS	hua_sgsn_ns_tab.uqwo5uoalebteb3hdqragfdosa	INTEGER	#	Number of RESET ACK messages sent to BSS.	Sum	hustrafbh, Sum

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NS_reset_msg_rec_from_BS	hua_sgsn_ns_tab.yesbvrpw iecyibkjwutydkpq3i	INTEGER	#	Number of RESET messages received from BSS.	Sum	hustrafbh , Sum
NS_reset_msg_sent_to_BSS	hua_sgsn_ns_tab.rnwoqhs dinbgusdno1bb2pkecs	INTEGER	#	Number of RESET messages sent to BSS.	Sum	hustrafbh , Sum
NS_UL_data_pkts_discarded	hua_sgsn_ns_tab.ufx3lw4q w3c30d5thth2lh6miu	INTEGER	#	Number of uplink data packets dropped by the NS sublayer.	Sum	hustrafbh , Sum
NS_unblock_ack_msg_rec_from_BSS	hua_sgsn_ns_tab.tn00cpfs 36blauuaf230djpbtg	INTEGER	#	Number of UNBLOCK ACK messages received from BSS.	Sum	hustrafbh , Sum
NS_unblock_ack_msg_sent_to_BSS	hua_sgsn_ns_tab.sidjegt1f vcibcq6a0jcwd31db	INTEGER	#	Number of UNBLOCK ACK messages sent to BSS.	Sum	hustrafbh , Sum
NS_unblock_msg_rec_from_BSS	hua_sgsn_ns_tab.yr0jfwjp 5vb0bb2ckge64aeco3s	INTEGER	#	Number of UNBLOCK messages received from BSS.	Sum	hustrafbh , Sum
NS_unblock_msg_sent_to_BSS	hua_sgsn_ns_tab.suowvpv nokcg1bmxxivomfbk1	INTEGER	#	Number of UNBLOCK messages sent to BSS.	Sum	hustrafbh , Sum

### 6.31.86SGSN.Huawei.GPRS.SGSN\_Relocation

SGSN Relocation measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
—	100 *	FLOAT	%	Percentage of	Average	Average,

%_Inter_SGSN_hard_handover_ruc	{Inter_SGSN_hard_handover_suc}/ {Inter_SGSN_hard_handover_req}			successful inter-SGSN hard handovers.		hustrafbh
%_Inter_SGSN_soft_handover_ruc	100 * {Inter_SGSN_soft_handover_suc}/ {Inter_SGSN_soft_handover_req}	FLOAT	%	Percentage of successful inter-SGSN software handovers.	Average	Average, hustrafbh
%_Intra_SGSN_hard_handover_ruc	100 * {Intra_SGSN_hard_handover_suc}/ {Intra_SGSN_hard_handover_req}	FLOAT	%	Percentage of successful intra-SGSN hard handovers.	Average	Average, hustrafbh
%_Intra_SGSN_soft_handover_ruc	100 * {Intra_SGSN_soft_handover_suc}/ {Intra_SGSN_soft_handover_req}	FLOAT	%	Percentage of successful intra-SGSN soft handovers.	Average	Average, hustrafbh
Inter_SGSN_hard_handover_req	hua_sgsn_relocation_tab.wgkncxc2b42sfbveiru3ebia	INTEGER	#	Number of SGSN-received inter-SGSN hard handover requests.	Sum	hustrafbh, Sum
Inter_SGSN_hard_handover_suc	hua_sgsn_relocation_tab.xbmycj0cp5bhdrskijlnllurxr	INTEGER	#	Number of successful inter-SGSN hard handovers.	Sum	hustrafbh, Sum
Inter_SGSN_soft_handover_req	hua_sgsn_relocation_tab.xmakfynrnc6pc6e4hi3ey2r50	INTEGER	#	Number of times SGSN receives inter-SGSN soft handover requests.	Sum	hustrafbh, Sum
Inter_SGSN_soft_handover_suc	hua_sgsn_relocation_tab.vxn1qvdeobjqrdn6aqilvuy m6g	INTEGER	#	Number of successful inter-SGSN	Sum	hustrafbh, Sum

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				software handovers.		
InterReloc_attempt_at_target_SGSN	hua_sgsn_relocation_tab.yedw63lmqkbgas34eaapd5ut6c	INTEGER	#	Number of inter-SGSN relocation requests in target SGSN.	Sum	hustrafbh , Sum
InterReloc_Prepare_suc_at_source_SGSN	hua_sgsn_relocation_tab.v0bfyv3txsc65cuhp3o4gcdey5	INTEGER	#	Number of successful inter-SGSN relocation preparation process in source SGSN.	Sum	hustrafbh , Sum
InterReloc_suc_at_target_SGSN	hua_sgsn_relocation_tab.uygjq5g5ccnhbwmobwxioan4a	INTEGER	#	Number of successful inter-SGSN relocation complete process in target SGSN.	Sum	hustrafbh , Sum
Intra_Reloc_Prep_suc_at_source_SGSN	hua_sgsn_relocation_tab.xxuwsecw3nc51cqysxyij2axxl	INTEGER	#	Number of successful intra-SGSN relocation preparation process in source SGSN.	Sum	hustrafbh , Sum
Intra_SGSN_hard_handover_request	hua_sgsn_relocation_tab.ty p2t5vymabqvexgo3f5at0gtl	INTEGER	#	Number of times SGSN receives the intra-SGSN hard handover request.	Sum	hustrafbh , Sum
Intra_SGSN_hard_handover_suc	hua_sgsn_relocation_tab.u3r2jn16u2btbdbld4500cn2qiy	INTEGER	#	Number of successful intra-SGSN hard handovers.	Sum	hustrafbh , Sum
Intra_SGSN_soft_handover_request	hua_sgsn_relocation_tab.r6ak0h5hseb3qsvhrpyhtci0xe	INTEGER	#	Number of times SGSN receives intra-	Sum	hustrafbh , Sum

				SGSN soft handover request.		
Intra_SGSN_soft_handover_success	hua_sgsn_relocation_tab.v6pna5r5dibi5repgshddtmnng	INTEGER	#	Number of successful intra-SGSN soft handovers.	Sum	hustrafbh, Sum

### 6.31.87SGSN.Huawei.GPRS.SGSN\_SNDTCP

SGSN SNDTCP measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Avg_PDP_context_usg_data_compr	hua_sgsn_sndcp_tab.u0dqn sb eu1c2xtg4oyjevwybtj	INTEGER	#	Number of data compression entities used by MS at the end of the measurement period.	Average	Average, hustrafbh, Maximum, Minimum, Sum
Avg_PDP_context_usg_protocol_compr	hua_sgsn_sndcp_tab.x0eh4b5gxwcibd03qv5jo2yavk	INTEGER	#	Number of protocol compression entities used by MS at the end of the measurement period.	Average	Average, hustrafbh, Maximum, Minimum, Sum
N_PDU_bytes_discarded	hua_sgsn_sndcp_tab.urq3e2hygxt2c5e6nwja604hh	INT8	bytes	Number of bytes of N-PDU discarded by the SNDTCP layer.	Sum	hustrafbh, Sum
N_PDU_pkts_discarded	hua_sgsn_sndcp_tab.xnj43e040mcwneu3oskmyos164	INTEGER	#	Number of N-PDU packets dropped by the	Sum	hustrafbh, Sum

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				SNDCP layer.		
SNDCP_data_kbytes_rec_from_GTP	hua_sgsn_sndcp_tab.vrbhpqncjcigddcudxrloblko	INT8	KBytes	Number of data bytes received by the SNDCP layer from the GTP layer.	Sum	hustrafbh , Sum
SNDCP_data_kbytes_rec_from_LLC	hua_sgsn_sndcp_tab.yrgr535eb1bciutm0khyyp1dl	INT8	KBytes	Number of data bytes received by the SNDCP layer from the LLC layer.	Sum	hustrafbh , Sum
SNDCP_data_kbytes_sent_to_GTP	hua_sgsn_sndcp_tab.r5dsa5minxcr2bom5oly5mepsb	INT8	KBytes	Number of data bytes sent from the SNDCP layer to the GTP layer.	Sum	hustrafbh , Sum
SNDCP_data_kbytes_sent_to_LLC	hua_sgsn_sndcp_tab.vntlfjpgferfuofntit1ltaku	INT8	KBytes	Number of data bytes sent from the SNDCP layer to the LLC layer.	Sum	hustrafbh , Sum
SNDCP_data_pkts_rec_from_GTP	hua_sgsn_sndcp_tab.uo3xbvxyiuba1dk2m466ad42cq	INTEGER	#	Number of data frames received by the SNDCP layer from the GTP layer.	Sum	hustrafbh , Sum
SNDCP_data_pkts_rec_from_LLC	hua_sgsn_sndcp_tab.v4wedvy15yb0etuhw4dg1huxfh	INTEGER	#	Number of data frames received by the SNDCP layer from the LLC layer.	Sum	hustrafbh , Sum
SNDCP_data_pkts_sent_to_GTP	hua_sgsn_sndcp_tab.xfuvdkwabxcdstc05uyo5cjt3e	INTEGER	#	Number of data frames sent from the SNDCP layer to the GTP layer.	Sum	hustrafbh , Sum
SNDCP_data_pkts_sent_to_LLC	hua_sgsn_sndcp_tab.uyjogiaf0dblfb2gwmpmxoam1s	INTEGER	#	Number of data frames sent from the SNDCP layer	Sum	hustrafbh , Sum

				to the LLC layer.		
SNDCP_dl_data_pkts_dropped_flowctrl	hua_sgsn_sndcp_tab.w0wsybkvypcxdto1tjg0lx4bqm	INTEGER	#	Number of data frames dropped by SNDCP at the downlink direction when flow control	Sum	hustrafbh, Sum
SNDCP_DL_data_pkts_dropped	hua_sgsn_sndcp_tab.yyc33d2mw2c1wcow05401wxc1q	INTEGER	#	Number of data frames dropped by SNDCP at the downlink direction.	Sum	hustrafbh, Sum
SNDCP_UL_data_pkts_dropped	hua_sgsn_sndcp_tab.tsx4bjb4kjcbrjylys36du164	INTEGER	#	Number of data frames dropped by SNDCP at the uplink direction.	Sum	hustrafbh, Sum

### 6.31.88SGSN.Huawei.GPRS.SMS\_in\_Gb

SMS send and receive in Gb Mode.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Confirmations_of_SM_Alert_due_to_MS_present	hua_m117440630_gb_tab.tl63xuany42ahc3lr02incnmdw	INTEGER	#	Number of successful responses received from the HLR in Gb mode when the MS becomes reachable and initiates an SM Alert.	Sum	hustrafbh, Sum
Confirmations_of_SM_Alert_d	hua_m117440630_gb_tab.tl63xvyny42ahc3lr02incn	INTEGER	#	Number of successful	Sum	hustrafbh, Sum

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ue_to_MS	mdw			responses received from the HLR in Gb mode if the MS has memory available and initiates the SM Alert.		
MS_originated_SM_fail_MO_service_limitation	hua_m117440630_gb_tab.tl63xswny42ahc3lr02incnmdw	INTEGER	#	Number of failed transmissions of short messages initiated by MS in Gb mode due to MO service restriction.	Sum	hustrafbh, Sum
MS_originated_SM_fail_not_supported_by_device	hua_m117440630_gb_tab.tl63xt1ny42ahc3lr02incnmdw	INTEGER	#	Number of failures of the short message service in Gb mode when SMC-IWMSC returns the message that the device does not support the short message after MS has initiated it.	Sum	hustrafbh, Sum
MS_originated_SM_fail_protocol_data_error	hua_m117440630_gb_tab.tl63xtany42ahc3lr02incnmdw	INTEGER	#	Number of failures of the short message service in Gb mode when SMC-IWMSC returns the message of protocol data error after MS has initiated the short message.	Sum	hustrafbh, Sum
MS_originated_	hua_m117440630_gb_tab.	INTEGER	#	Number of	Sum	hustrafbh

SM_fail_SM_delivery_fault	tl63xt5ny42ahc3lr02incnmdw	ER		failures of the short message service in Gb mode when SMC-IWMSC returns the short message delivery failure message after MS has initiated the short message.		, Sum
MS_originated_SM_fail_system_fault	hua_m117440630_gb_tab.tl63xt3ny42ahc3lr02incnmdw	INTEGER	#	Number of failures of the short message service in Gb mode when SMC-IWMSC returns the system fault message after MS has initiated the short message.	Sum	hustrafbh, Sum
MS_originated_SM_fail_unknown_MS	hua_m117440630_gb_tab.tl63xsyny42ahc3lr02incnmdw	INTEGER	#	Number of failed transmissions of short messages initiated by MS in Gb mode due to user unknown in SGSN.	Sum	hustrafbh, Sum
MS_originated_SMS_fail_authentication_fail	hua_m117440630_gb_tab.tl63xssny42ahc3lr02incnmdw	INTEGER	#	Number of failed transmissions of short messages initiated by MS	Sum	hustrafbh, Sum

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				in Gb mode due to authentication failure.		
MS_originated_SMS_fail_ciphering_setting_fail	hua_m117440630_gb_tab.tl63xsuny42ahc3lr02incnmdw	INTEGER	#	Number of failed transmissions of short messages initiated by MS in Gb mode due to failure in setting the encryption mode.	Sum	hustrafbh , Sum
MS_originated_SMS_received	hua_m117440630_gb_tab.tl63xsony42ahc3lr02incnmdw	INTEGER	#	Number received of MS in initiating the short message in Gb mode.	Sum	hustrafbh , Sum
MS_originated_SMS_successes	hua_m117440630_gb_tab.tl63xsqny42ahc3lr02incnmdw	INTEGER	#	Number of successful transmissions of short messages initiated by MS in Gb mode.	Sum	hustrafbh , Sum
MS_received_SM_fail_illegal_user	hua_m117440630_gb_tab.tl63xtsny42ahc3lr02incnmdw	INTEGER	#	Number of failures of the mobile terminating short message in Gb mode due to user illegal during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_SM_fail_memory_fail	hua_m117440630_gb_tab.tl63xtyny42ahc3lr02incnmdw	INTEGER	#	Number of failures of the mobile terminating	Sum	hustrafbh , Sum

				short message in Gb mode due to memory failure during the process when SGSN sends short messages to MS.		
MS_received_S M_fail_not_supported_by_device	hua_m117440630_gb_tab. tl63xtqny42ahc3lr02incn mdw	INTEGER	#	Number of failures of the mobile terminating short message in Gb mode for the device does not support the short message during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_protocol_fail	hua_m117440630_gb_tab. tl63xu1ny42ahc3lr02incn mdw	INTEGER	#	Number of failures of the mobile terminating short message in Gb mode due to protocol error failure during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_SM_delivery_fail	hua_m117440630_gb_tab. tl63xtwny42ahc3lr02incn mdw	INTEGER	#	Number of failures of the mobile terminating	Sum	hustrafbh , Sum

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				short message in Gb mode due to SM delivery failure during the process when SGSN sends short messages to MS.		
MS_received_S M_fail_system_fault	hua_m117440630_gb_tab. tl63xtuny42ahc3lr02incn mdw	INTEGER	#	Number of failures of the mobile terminating short message in Gb mode due to system fault during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_unidentified_user	hua_m117440630_gb_tab. tl63xtkny42ahc3lr02incn mdw	INTEGER	#	Number of failures of the mobile terminating short message in Gb mode due to user unidentified during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_user_busy	hua_m117440630_gb_tab. tl63xtony42ahc3lr02incn mdw	INTEGER	#	Number of failures of the mobile terminating short message in Gb mode due to user busy during the process when SGSN sends	Sum	hustrafbh , Sum

				short messages to MS.		
MS_received_S M_fail_user_un attached	hua_m117440630_gb_tab. tl63xtmny42ahc3lr02incn mdw	INTEGER	#	Number of failures of the mobile terminating short message in Gb mode due to user unattached during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_received	hua_m117440630_gb_tab. tl63xtgny42ahc3lr02incn mdw	INTEGER	#	Number of times SGSN received short messages from SM-SC in Gb mode .	Sum	hustrafbh , Sum
MS_received_S M_successes	hua_m117440630_gb_tab. tl63xtiny42ahc3lr02incn mdw	INTEGER	#	Number of times SGSN succeeds in sending short messages to MS in Gb mode .	Sum	hustrafbh , Sum
Notifications_of _MS_memory_a vailable_for_S M_receiving	hua_m117440630_gb_tab. tl63xu5ny42ahc3lr02incn mdw	INTEGER	#	Number of notifications sent by SGSN to HLR to initiate MT SMS procedure in Gb mode because a subscriber indicates memory	Sum	hustrafbh , Sum

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				available.		
Notifications_of_MS_present_and_SM_receiving_ready	hua_m117440630_gb_tab.tl63xu3ny42ahc3lr02incnmdw	INTEGER	#	Number of notifications sent by SGSN to HLR to initiate MT SMS procedure in Gb mode due to MS re-presence.	Sum	hustrafbh , Sum
SMMO_fail_ODB	hua_m117440630_gb_tab.tl63xtcny42ahc3lr02incnmdw	INTEGER	#	Number of failures of the MO short message service for ODB in Gb mode.	Sum	hustrafbh , Sum
SMMO_fail_protocol_error	hua_m117440630_gb_tab.tl63xteny42ahc3lr02incnmdw	INTEGER	#	Number of failures of the MO short message service for protocol error in Gb mode .	Sum	hustrafbh , Sum

### 6.31.89SGSN.Huawei.GPRS.SMS\_in\_Iu

SMS send and receive in Iu Mode.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Confirmations_of_SM_Alert_due_to_MS_present	hua_m117440630_iu_tab.tl63xvuny42ahc3lr02incnmdw	INTEGER	#	Number of successful responses received from the HLR in Iu mode when the MS becomes reachable and initiates an SM Alert.	Sum	hustrafbh , Sum
Confirmations_	hua_m117440630_iu_tab.t	INTEGER	#	Number of	Sum	hustrafbh

of_SM_Alert_due_to_MS	l63xw1ny42ahc3lr02incnmdw	ER		successful responses received from the HLR in Iu mode if the MS has memory available and initiates the SM Alert.		, Sum
MS_originated_SM_fail_MO_service_limitation	hua_m117440630_iu_tab.tl63xukny42ahc3lr02incnmdw	INTEGER	#	Number of failed transmissions of short messages initiated by MS in Iu mode due to MO service restriction.	Sum	hustrafbh, Sum
MS_originated_SM_fail_not_supported_by_device	hua_m117440630_iu_tab.tl63xuony42ahc3lr02incnmdw	INTEGER	#	Number of failures of the short message service in Iu mode when SMC-IWMSC returns the message that the device does not support the short message after MS has initiated it.	Sum	hustrafbh, Sum
MS_originated_SM_fail_protocol_data_error	hua_m117440630_iu_tab.tl63xuuny42ahc3lr02incnmdw	INTEGER	#	Number of failures of the short message service in Iu mode when SMC-IWMSC returns the message of protocol data	Sum	hustrafbh, Sum

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				error after MS has initiated the short message.		
MS_originated_SM_fail_SM_delivery_fault	hua_m117440630_iu_tab.tl63xusny42ahc3lr02incnm dw	INTEGER	#	Number of failures of the short message service in Iu mode when SMC-IWMSC returns the short message delivery failure message after MS has initiated the short message.	Sum	hustrafbh , Sum
MS_originated_SM_fail_system_fault	hua_m117440630_iu_tab.tl63xuqny42ahc3lr02incnm dw	INTEGER	#	Number of failures of the short message service in Iu mode when SMC-IWMSC returns the system fault message after MS has initiated the short message.	Sum	hustrafbh , Sum
MS_originated_SM_fail_unknown_MS	hua_m117440630_iu_tab.tl63xumny42ahc3lr02incn mdw	INTEGER	#	Number of failed transmissions of short messages initiated by MS in Iu mode due to user unknown in SGSN.	Sum	hustrafbh , Sum
MS_originated_SMS_fail_authentication_fail	hua_m117440630_iu_tab.tl63xugny42ahc3lr02incnm dw	INTEGER	#	Number of failed transmissions of short messages	Sum	hustrafbh , Sum

				initiated by MS in Iu mode due to authentication failure.		
MS_originated_SMS_fail_cipherring_setting_fail	hua_m117440630_iu_tab.tl63xuiny42ahc3lr02incnm dw	INTEGER	#	Number of failed transmissions of short messages initiated by MS in Iu mode due to failure in setting the encryption mode.	Sum	hustrafbh , Sum
MS_originated_SMS_received	hua_m117440630_iu_tab.tl63xucny42ahc3lr02incnm dw	INTEGER	#	Number received of MS in initiating the short message in Iu mode .	Sum	hustrafbh , Sum
MS_originated_SMS_successes	hua_m117440630_iu_tab.tl63xueny42ahc3lr02incnm dw	INTEGER	#	Number of successful transmissions of short messages initiated by MS in Iu mode .	Sum	hustrafbh , Sum
MS_received_SM_fail_illegal_user	hua_m117440630_iu_tab.tl63xvgny42ahc3lr02incnm dw	INTEGER	#	Number of failures of the mobile terminating short message in Iu mode due to user illegal during the process when SGSN sends short messages	Sum	hustrafbh , Sum

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				to MS.		
MS_received_S M_fail_memory _fail	hua_m117440630_iu_tab.t l63xvmny42ahc3lr02incn mdw	INTEG ER	#	Number of failures of the mobile terminating short message in Iu mode due to memory failure during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_not_sup ported_by_devi ce	hua_m117440630_iu_tab.t l63xvny42ahc3lr02incnm dw	INTEG ER	#	Number of failures of the mobile terminating short message in Iu mode for the device does not support the short message during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_protocol _fail	hua_m117440630_iu_tab.t l63xvony42ahc3lr02incnm dw	INTEG ER	#	Number of failures of the mobile terminating short message in Iu mode due to protocol error failure during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_SM_del	hua_m117440630_iu_tab.t l63xvkny42ahc3lr02incnm	INTEG ER	#	Number of failures of the	Sum	hustrafbh , Sum

very_fail	dw			mobile terminating short message in Iu mode due to SM delivery failure during the process when SGSN sends short messages to MS.		
MS_received_S M_fail_system_ fault	hua_m117440630_iu_tab.t l63xviny42ahc3lr02incnm dw	INTEGER	#	Number of failures of the mobile terminating short message in Iu mode due to system fault during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_unidenti fied_user	hua_m117440630_iu_tab.t l63xv5ny42ahc3lr02incnm dw	INTEGER	#	Number of failures of the mobile terminating short message in Iu mode due to user unidentified during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_fail_user_bu sy	hua_m117440630_iu_tab.t l63xvcny42ahc3lr02incnm dw	INTEGER	#	Number of failures of the mobile terminating	Sum	hustrafbh , Sum

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				short message in Iu mode due to user busy during the process when SGSN sends short messages to MS.		
MS_received_S M_fail_user_un attached	hua_m117440630_iu_tab.t l63xvany42ahc3lr02incnm dw	INTEG ER	#	Number of failures of the mobile terminating short message in Iu mode due to user unattached during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_received_S M_received	hua_m117440630_iu_tab.t l63xv1ny42ahc3lr02incnm dw	INTEG ER	#	Number of times SGSN received the short messages from SM-SC in Iu mode.	Sum	hustrafbh , Sum
MS_received_S M_successes	hua_m117440630_iu_tab.t l63xv3ny42ahc3lr02incnm dw	INTEG ER	#	Number of times SGSN succeeds in sending short messages to MS in Iu mode .	Sum	hustrafbh , Sum
Notifications_of _MS_memory_ available_for_S M_receiving	hua_m117440630_iu_tab.t l63xvsny42ahc3lr02incnm dw	INTEG ER	#	Number of notifications sent by SGSN to HLR to initiate MT SMS procedure in Iu mode because a subscriber	Sum	hustrafbh , Sum

				indicates memory available.		
Notifications_of_MS_present_and_SM_receiving_ready	hua_m117440630_iu_tab.tl63xvqny42ahc3lr02incnm dw	INTEGER	#	Number of notifications sent by SGSN to HLR to initiate MT SMS procedure in Iu mode due to MS re-presence.	Sum	hustrafbh , Sum
SMMO_fail_ODB	hua_m117440630_iu_tab.tl63xuwny42ahc3lr02incnm dw	INTEGER	#	Number of failures of the MO short message service for ODB in Iu mode .	Sum	hustrafbh , Sum
SMMO_fail_protocol_error	hua_m117440630_iu_tab.tl63xuyny42ahc3lr02incnm dw	INTEGER	#	Number of failures of the MO short message service for protocol error in Iu mode .	Sum	hustrafbh , Sum

### 6.31.90SGSN.Huawei.GPRS.SMS

SMS measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
%_CAMEL_user_success_in_SM_origin	100 * {CAMEL_user_success_in_SM_origin}/ {CAMEL_user_requests_for_SM_origin}	FLOAT	%	Percentage of successful transmissions of short messages	Average	Average, hustrafbh

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				initiated by CAMEL MS.		
%_MS_originat ed_SMS_succe ses	100 * {MS_originated_SMS_suc cesses}/ {MS_originated_SMS_atte mpts}	FLOAT	%	Percentage of successful transmissions of short messages initiated by MS.	Average	Average, hustrafbh
%_MS_rec_SM _successes	100 * {MS_rec_SM_successes}/ {MS_rec_SM_attempts}	FLOAT	%	Percentage of times SGSN succeeds in sending short messages to MS.	Average	Average, hustrafbh
CAMEL_user_r equests_for_SM _origin	hua_sms_tab.wundxxr4m6 b4md4hkrpam5ps3t	INTEG ER	#	Number attempts of CAMEL MS in initiating the short message.	Sum	hustrafbh , Sum
CAMEL_user_s uccess_in_SM_ origin	hua_sms_tab.xe3gfptvroc3 pr5qm6whbc5b3r	INTEG ER	#	Number of successful transmissions of short messages initiated by CAMEL MS.	Sum	hustrafbh , Sum
Confirm_SM_A lert_due_MS_m em_avail	hua_sms_tab.xuy0152dmlc jkelcigqfxyftlh	INTEG ER	#	Number of successful notifications sent by the SGSN to the HLR to initiate MT SMS procedure due to the available MS memory.	Sum	hustrafbh , Sum
Confirm_SM_A lert_due_MS_pr esent	hua_sms_tab.wavh bvavvpb egccwpqvqm31xgn	INTEG ER	#	Number of successful notifications sent by the SGSN to the	Sum	hustrafbh , Sum

				HLR to initiate MT SMS procedure due to the MS re-prenence.		
L3_SMS_signalling_amount_received	hua_sms_tab.tfa4xrptiretnskht4oksp1vem	INTEGER	#	Number of mobile radio interface signalling layer 3 Messages supporting SMS services received by SGSN.	Sum	hustrafbh, Sum
L3_SMS_signalling_amount_sent	hua_sms_tab.wcuux66uvyb15sojc4p3535yll	INTEGER	#	Number of mobile radio interface signalling layer 3 Messages supporting SMS services sent to MS.	Sum	hustrafbh, Sum
MS_originated_SM_fail_MO_service_limitation	hua_sms_tab.vp4r5nymdkbmtu4o6ba5t3oh5s	INTEGER	#	Number of failed transmissions of short messages initiated by MS due to MO service restriction.	Sum	hustrafbh, Sum
MS_originated_SM_fail_not_supported_by_device	hua_sms_tab.s16erdtboockelutmb4iqttof	INTEGER	#	Number of failures of the short message service when SMC-IWMSC returns the message that the device does	Sum	hustrafbh, Sum

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				not support the short message after MS has initiated it.		
MS_originated_SM_fail_protocol_err	hua_sms_tab.yye630q2nqcvlr4yhm0tpfebj1	INTEGER	#	Number of failures of the short message service when SMC-IWMSC returns the message of protocol data error after MS has initiated the short message.	Sum	hustrafbh, Sum
MS_originated_SM_fail_SM_delivery_fault	hua_sms_tab.rhhqr1nchtbdvsvjkyhhgyrpre	INTEGER	#	Number of failures of the short message service when SMC-IWMSC returns the short message delivery failure message after MS has initiated the short message.	Sum	hustrafbh, Sum
MS_originated_SM_fail_system_fault	hua_sms_tab.wosph2f0hsc1xdi0ku1etkyutn	INTEGER	#	Number of failures of the short message service when SMC-IWMSC returns the system fault message after MS has initiated the short message.	Sum	hustrafbh, Sum
MS_originated_SM_fail_unknown_MS	hua_sms_tab.wgi15ayhrybiye3gonp1cflwc5	INTEGER	#	Number of failed transmissions of short messages	Sum	hustrafbh, Sum

				initiated by MS due to user unknown in SGSN.		
MS_originated_SMS_attempts	hua_sms_tab.xykgawiy3gc5yt6ms464qdvjlx	INTEGER	#	Number attempts of MS in initiating the short message.	Sum	hustrafbh, Sum
MS_originated_SMS_fail_authentication_fail	hua_sms_tab.td34s1fpo5bvnbn4ni1tb131w6h	INTEGER	#	Number of failed transmissions of short messages initiated by MS due to authentication failure.	Sum	hustrafbh, Sum
MS_originated_SMS_fail_ciphering_mode_setting_fail	hua_sms_tab.wythk3do6gbecrbnalmfdp1py	INTEGER	#	Number of failed transmissions of short messages initiated by MS due to failure in setting the encryption mode.	Sum	hustrafbh, Sum
MS_originated_SMS_successes	hua_sms_tab.uhjaoi6yimced6f6646e4oh4x	INTEGER	#	Number of successful transmissions of short messages initiated by MS.	Sum	hustrafbh, Sum
MS_rec_SM_attempts	hua_sms_tab.t0h5it2st3bjkrtrwc4v5pulls	INTEGER	#	Number of times SGSN sends short messages to	Sum	hustrafbh, Sum

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				MS.		
MS_rec_SM_fail_device_not_support	hua_sms_tab.vla5btfcifblb uhdoxlj1l4xop	INTEGER	#	Number of failures of the mobile terminating short message for the device does not support the short message during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_rec_SM_fail_illegal_user	hua_sms_tab.yljsstrcnl6k bpogxwajq2o2p	INTEGER	#	Number of failures of the mobile terminating short message due to user illegal during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_rec_SM_fail_memory_fail	hua_sms_tab.vesk26pychb nae3rm0t2qduoe4	INTEGER	#	Number of failures of the mobile terminating short message due to memory failure during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_rec_SM_fail_SM_delivery_fail	hua_sms_tab.t5pwclfdjwck mun62nea5tcayh	INTEGER	#	Number of failures of the mobile terminating	Sum	hustrafbh , Sum

				short message due to SM delivery failure during the process when SGSN sends short messages to MS.		
MS_rec_SM_fail_system_fault	hua_sms_tab.wdsuxcei6lc4lu4t0ayp26u4yd	INTEGER	#	Number of failures of the mobile terminating short message due to system fault during the process when SGSN sends short messages to MS.	Sum	hustrafbh, Sum
MS_rec_SM_fail_unidentified_user	hua_sms_tab.uiuuhjsjeaub64r2uohf4xpt24g	INTEGER	#	Number of failures of the mobile terminating short message due to user unidentified during the process when SGSN sends short messages to MS.	Sum	hustrafbh, Sum
MS_rec_SM_fail_user_busy	hua_sms_tab.yc6gq0p4tvc kks6dyd6yj5uxr2	INTEGER	#	Number of failures of the mobile terminating short message due to user busy during the process when SGSN sends	Sum	hustrafbh, Sum

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				short messages to MS.		
MS_rec_SM_fail_user_unattached	hua_sms_tab.wac6e4s3a2cl4s5rywxdpfvfgl	INTEGER	#	Number of failures of the mobile terminating short message due to user unattached during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
MS_rec_SM_successes	hua_sms_tab.vg4okgle2rc46rm01g5e6shvnp	INTEGER	#	Number of times SGSN succeeds in sending short messages to MS.	Sum	hustrafbh , Sum
MS_received_SM_fail_protocol_fail	hua_sms_tab.tl63xvwny42ahc3lr02incnmdw	INTEGER	#	Number of failures of the mobile terminating short message due to protocol error failure during the process when SGSN sends short messages to MS.	Sum	hustrafbh , Sum
Notifications_due_MS_re_presence	hua_sms_tab.w6k3mu4lbvc2atxjqw0g5ccxq1	INTEGER	#	Number of notifications sent by SGSN to HLR to initiate MT SMS procedure due to MS re-presence.	Sum	hustrafbh , Sum
Notifications_MS_mem_avail	hua_sms_tab.tev3m2radacx4d51kfq2qyary1	INTEGER	#	Number of notifications sent by SGSN	Sum	hustrafbh , Sum

				to HLR to initiate MT SMS procedure because a subscriber indicates memory available.		
Num_of_Forwarded_bytes_for_MO_SMS	hua_sms_tab.xh5yrq5r3jbft rmsgqbqor52vq	INTEGER	#	The bytes of MO SMS msg forwarded.	Sum	hustrafbh , Sum
Num_of_Forwarded_bytes_for_MT_SMS	hua_sms_tab.y10vye6vxml b1ruqerigneem2hc	INTEGER	#	The bytes of MT SMS msg forwarded.	Sum	hustrafbh , Sum
SMMO_fail_ODB	hua_sms_tab.ynwg4f2owx b53r2vqdivqslpsi	INTEGER	#	Number of failures of the MO short message service for ODB.	Sum	hustrafbh , Sum
SMMO_fail_protocol_error	hua_sms_tab.uf54aru26rcl osxkadqjio2ppc	INTEGER	#	Number of failures of the MO short message service for protocol error.	Sum	hustrafbh , Sum

### 6.31.91SGSN.Huawei.GPRS.Supplementary\_Service

Supplementary Service measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
SGSN_receive_SS_L3_signal_msg	hua_supp_service_tab.uit6 y4govqbwqt34f3bkkgrv3p	INTEGER	#	Number of SGSN-received SS-related L3 messages.	Sum	hustrafbh , Sum

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SGSN_send_SS_L3_signalling_msg	hua_supp_service_tab.ry5ghiu41ibmurjapp0ion65h	INTEGER	#	Number of SGSN-sent SS-related L3 messages.	Sum	hustrafbh , Sum
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### 6.31.92SGSN.Huawei.GPRS.TCAP\_Component\_Utilization

TCAP Component Utilization measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Components_sent	hua_tcap_comp_util_tab.ymhi023frcn6scxyta51tqsc h	INTEGER	#	Number of operation invoke components sent by the node.	Sum	hustrafbh , Sum
Componets_rec	hua_tcap_comp_util_tab.rtl60axka2bc5s0pi4r41hepl3	INTEGER	#	Number of operation invoke components received by the node.	Sum	hustrafbh , Sum
Reject_component_rec	hua_tcap_comp_util_tab.vhec633qaobjfuem6yjk6yql4e	INTEGER	#	Number of reject components received by the node.	Sum	hustrafbh , Sum
Reject_component_sent	hua_tcap_comp_util_tab.shubvrfekpbxgdrpov3h5qksg d	INTEGER	#	Number of reject components sent by the node.	Sum	hustrafbh , Sum
Return_error_component_rec	hua_tcap_comp_util_tab.vf2o4wdbeubxubkglibdeygak5	INTEGER	#	Number of return error components received by the node.	Sum	hustrafbh , Sum
Return_error_component_sent	hua_tcap_comp_util_tab.tbva3pphcbaicynhxydr6dlt	INTEGER	#	Number of return error components	Sum	hustrafbh , Sum

				sent by the node.		
Return_result_rec_util_not_last	hua_tcap_comp_util_tab.ybp5lncr3b4eejalewds0guat	INTEGER	#	Number of return result (non final result) invoke components received by the node.	Sum	hustrafbh , Sum
Return_result_util_rec	hua_tcap_comp_util_tab.yatynaktr6ci1sobq5wr5uk2ml	INTEGER	#	Number of return result (final result) invoke components received by the node.	Sum	hustrafbh , Sum
Return_result_util_sent_not_last	hua_tcap_comp_util_tab.ya1p6wwgwnbq6cvvusk1gsmuec	INTEGER	#	Number of return result (non the final result) invoke components sent by the node.	Sum	hustrafbh , Sum
Return_result_util_sent	hua_tcap_comp_util_tab.xl1bmhahiqcpreg44s6ax2e15h	INTEGER	#	Number of return result ( final result) invoke components sent by the node.	Sum	hustrafbh , Sum

### 6.31.93SGSN.Huawei.GPRS.TCAP\_CSL

TCAP CSL measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Badly_structured_component	hua_tcap_csl_tab.t5furoa403cols0vgydjh1cxtn	INTEGER	#	Number of badly structured components received by TCAP	Sum	hustrafbh , Sum
Mistyped_component	hua_tcap_csl_tab.redmgf2x0acewbjxdfjpvn5qg	INTEGER	#	Number of mistyped components in TCAP processing.	Sum	hustrafbh , Sum
Return_error_unexpected	hua_tcap_csl_tab.u1eup4sntfc1qr6jc3mgwg4ggg	INTEGER	#	Number of unexpected return errors received by TCAP.	Sum	hustrafbh , Sum
Return_result_unexpected	hua_tcap_csl_tab.v2ju6lfglicuhru0t6bsc2ieeq	INTEGER	#	TCAP receives operations that include unrecognized linked IDs.	Sum	hustrafbh , Sum
Unrecognized_component	hua_tcap_csl_tab.t12k1bpybgbherisbeobmb1hc3	INTEGER	#	Number of unrecognized components in TCAP processing.	Sum	hustrafbh , Sum
Unrecognized_ID_in_return_error	hua_tcap_csl_tab.vd5ww2m5fuct0rrebyunkgxjmj	INTEGER	#	Number of unrecognized operation IDs contained in the return errors received by TCAP.	Sum	hustrafbh , Sum
Unrecognized_ID_in_return_result	hua_tcap_csl_tab.tsrata5wtfb0ccyjkkqjhh2ar	INTEGER	#	Number of unrecognized operation IDs contained in the return results received by TCAP.	Sum	hustrafbh , Sum
Unrecognized_li	hua_tcap_csl_tab.vqkbjee	INTEGER	#	Number of	Sum	hustrafbh

linked_ID	6eb5le652e1gsb6umu	ER		unrecognized linked IDs in TCAP processing.		, Sum
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### 6.31.94SGSN.Huawei.GPRS.TCAP\_Message

TCAP Message measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Reject_message_rec	hua_tcap_message_tab.x3nlwcuochcixbiolea12dh6rg	INTEGER	#	Number of reject messages received by the node.	Sum	hustrafbh, Sum
Reject_message_sent	hua_tcap_message_tab.xll1dnxncobg4slchvrxykixex	INTEGER	#	Number of reject messages sent by the node.	Sum	hustrafbh, Sum
Return_error_result_rec	hua_tcap_message_tab.xnj2ylw4gfceidwurhv6odrcp0	INTEGER	#	Number of return error messages received by the node.	Sum	hustrafbh, Sum
Return_error_result_sent	hua_tcap_message_tab.sc1uahe3t3c21dvmhoa0jglmpw	INTEGER	#	Number of return error messages sent by the node.	Sum	hustrafbh, Sum
Return_result_msg_rec_not_final	hua_tcap_message_tab.r4u1byi1h4chlbacks36ysyuf0	INTEGER	#	Number of return results - not final result messages received by the node.	Sum	hustrafbh, Sum
Return_result_msg_rec	hua_tcap_message_tab.x03u6lqhdb3kc6vnmr5iowow	INTEGER	#	Number of return results -	Sum	hustrafbh, Sum

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	p			final result messages received by the node.		
Return_result_msg_sent_not_final	hua_tcap_message_tab.w0iecdnnbxb4fbyuppnaymnbmr	INTEGER	#	Number of return results - not final result messages.	Sum	hustrafbh , Sum
Return_result_msg_sent	hua_tcap_message_tab.rqeh4n24yobp0e2rskrgymbseq1	INTEGER	#	Number of return results - final result messages.	Sum	hustrafbh , Sum
TCAP_message_rec	hua_tcap_message_tab.tltvuqtim0cdjsgcfx4ynhm2g1	INTEGER	#	Number of TCAP messages received by the node.	Sum	hustrafbh , Sum
TCAP_message_sent	hua_tcap_message_tab.x0iy4bycudc6hsrl4nmuw2sqb2	INTEGER	#	Number of TCAP messages sent by the node.	Sum	hustrafbh , Sum

### 6.31.95SGSN.Huawei.GPRS.TCAP\_TSL

TCAP TSL measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Badly_formatted_trans_rec_P_ABORT	hua_tcap_tsl_tab.uwmaxd6vuacc2c5f1d6d15w1cr	INTEGER	#	Number of P_Abort generations caused by the badly formatted transaction portion in the message received from the peer	Sum	hustrafbh , Sum
Badly_formatted_trans_sent_P_ABORT	hua_tcap_tsl_tab.udqcu2ygi3cbxtehwsed0ufskm	INTEGER	#	Number of PABORT messages sent	Sum	hustrafbh , Sum

				carrying the cause value of "Badly formatted transaction portion".		
Incor_trans_portion_rec_P_ABORT	hua_tcap_tsl_tab.wtjlvopx hacipcovrp43v32ec6	INTEGER	#	Number of P_Abort generations caused by that the message received from the peer contains incorrect transaction portions.	Sum	hustrafbh , Sum
Incor_trans_portion_sent_P_ABORT	hua_tcap_tsl_tab.vkk6jqtjxj gbwgctc2mllojcu3s	INTEGER	#	Number of PABORT messages sent carrying the cause value of "Incorrect transaction portion".	Sum	hustrafbh , Sum
Res_limit_trans_rec_P_ABORT	hua_tcap_tsl_tab.tx33et3b ooco6dh6dcgkhm5sep	INTEGER	#	Number of P_Abort generations caused by that there is no available resources.	Sum	hustrafbh , Sum
Res_limit_trans_sent_P_ABORT	hua_tcap_tsl_tab.y3gleftm 0wbhrs1fgq5tvxgwp6	INTEGER	#	Number of PABORT messages sent carrying the cause value of "Resource limitation".	Sum	hustrafbh , Sum

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Unrecog_message_type_rec_P_ABORT	hua_tcap_tsl_tab.vysx3flwvsccorrxoqxfy54jmur	INTEGER	#	Number of P_Abort generations caused by that the message received from the peer contains unrecognized message types.	Sum	hustrafbh , Sum
Unrecog_msg_type_sent_P_ABORT	hua_tcap_tsl_tab.wnufste mr0b5fudu5nilndfpd0	INTEGER	#	Number of PABORT messages sent carrying the cause value of "Unrecognised message type".	Sum	hustrafbh , Sum
Unrecognized_trans_ID_rec_P_ABORT	hua_tcap_tsl_tab.wuetycq dvkbnssrxqys1yjmatf	INTEGER	#	Number of P_Abort generations caused by that the message received from the peer contains unrecognized transaction ID.	Sum	hustrafbh , Sum
Unrecognized_trans_ID_sent_P_ABORT	hua_tcap_tsl_tab.wno25404pscyfs0of2onolbufb	INTEGER	#	Number of PABORT messages sent carrying the cause value of "Unrecognised transaction ID".	Sum	hustrafbh , Sum

### 6.31.96SGSN.Huawei.GPRS.UE\_Transfer\_Bandwidth

UE Transfer Bandwidth measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Allocated_real_	hua_ue_bandwidth_tab.tqj	FLOA	KByte	The arithmetic	Average	Average,

time_service_avg_bw	iiw3mckborumc4l1biybdjh	T	s/s	mean value of allocated real-time service bandwidth in UE within the measurement period.		hustrafbh , Maximum, Minimum, Sum
Avg_UE_transfer_bw	hua_ue_bandwidth_tab.rlfqigrx2jb5drme2ythulnmlh	FLOAT	KByte s/s	The arithmetic mean value of UE transfer bandwidth within the measurement period.	Average	Average, hustrafbh , Maximum, Minimum, Sum
Max_UE_transfer_bw	hua_ue_bandwidth_tab.vlloxtjuvnbkirftyoe1i10k0b	FLOAT	KByte s/s	The highest recorded value for the value of UE transfer bandwidth within the measurement period .	Constant	Average, hustrafbh , Maximum, Minimum, Sum
Non_real_time_service_avg_bw	hua_ue_bandwidth_tab.sdpeqlrj0lci0r14puwdgima45	FLOAT	KByte s/s	The arithmetic mean value of non-real time service occupied bandwidth in UE within the measurement period.	Average	Average, hustrafbh , Maximum, Minimum, Sum

### 6.31.97SGSN.Huawei.GPRS.UGFU\_NS\_Transferred\_IP\_Packet

UGFU NS Transferred IP Packet measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
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Gb_DL_pkts_received_by_UGFU	hua_ugfu_ns_transf_ip_tab.vrb0kifdrdbx4d1wd4kvlso mot	INTEGER	#	Number of IP data packets that the UGFU board received from the UGBI board over the Gb interface.	Sum	hustrafbh , Sum
Gb_DL_pkts_sent_by_UGFU	hua_ugfu_ns_transf_ip_tab.tqjojdnx4tbwde15shot3ffp sh	INTEGER	#	Number of downlink (DL) data packets that the UGFU board forwards to the BSS through the IP network over the Gb interface.	Sum	hustrafbh , Sum
Gb_UL_pkts_discard_match_fail	hua_ugfu_ns_transf_ip_tab.vtbp31answbajury1momdl a516	INTEGER	#	Number of Gb interface data packets that are discarded by the UGFU board due to uplink (UL) match failure.	Sum	hustrafbh , Sum
Gb_UL_pkts_discard_protocol_fail	hua_ugfu_ns_transf_ip_tab.yiw1d1jjv6b4abffume5qbk sv4	INTEGER	#	Number of Gb interface data packets that are discarded by the UGFU board due to uplink (UL) protocol match failure.	Sum	hustrafbh , Sum
Gb_UL_pkts_discarded_for_flow_ctrl	hua_ugfu_ns_transf_ip_tab.rhcahclpdsbyose0y0diasdr 61	INTEGER	#	Number of Gb interface data packets that are discarded by the UGFU board due to uplink (UL) flow control.	Sum	hustrafbh , Sum
Gb_UL_pkts_r	hua_ugfu_ns_transf_ip_tab	INTEGER	#	Number of IP	Sum	hustrafbh

ec_by_UGFU	.wc264cutvhbiucooe00huxeilu	ER		data packets that the UGFU board received from the IP network over the Gb interface.		, Sum
Gb_UL_pkts_sent_by_UGFU	hua_ugfu_ns_transf_ip_tab.wfwom631p3blwurckn20bk5hsw	INTEGER	#	Number of IP data packets that the UGFU board forwards to the UGBI board over the Gb interface.	Sum	hustrafbh, Sum

## 6.32 SGSN\_Board Performance Indicators

- [SGSN\\_Board.Huawei.GPRS.SGSN\\_Resource](#)
- [SGSN\\_Board.Huawei.GPRS.TCP\\_IP](#)
- [SGSN\\_Board.Huawei.GPRS.UGBI\\_board\\_traffic](#)
- [SGSN\\_Board.Huawei.GPRS.UGBI\\_MS\\_cong\\_loadshare](#)
- [SGSN\\_Board.Huawei.GPRS.UGFU\\_board\\_traffic](#)

### 6.32.1 SGSN\_Board.Huawei.GPRS.SGSN\_Resource

(Obsolete from V900R010) System Resource measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Avg_CPU_occupation_ratio	hua_sgsn_resource_tab.wx3vg3vt2bkptc6kb50hw55b2	FLOAT	%	Obsolete from CN-SGSN/V900R010.C01SPC022:Arithmetical mean of the CPU occupancy ratio of the board.	Average	Average, hubcpubh, hustrafbh, Maximum, Minimum, Sum

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				The CPU occupancy ratio is the quotient of the CPU occupancy time and the sampling period within the sampling period.		
Avg_dynamic_memory_util_ratio	hua_sgsn_resource_tab.w0csu0a2g0bydudkfgocihhfu3	FLOAT	%	Obsolete from CN-SGSN/V900R010.C01SPC022:Utilization ratio of the dynamic memory. The utilization ratio of the dynamic memory is the percentage of the part in the dynamic memory that has been occupied over the whole dynamic memory.	Average	Average, hubcpubh, hustrafbh, Maximum, Minimum, Sum
Avg_message_cache_area_util_ratio	hua_sgsn_resource_tab.xyacbn5kthb54ewyhorsthpcp1	FLOAT	%	Obsolete from CN-SGSN/V900R010.C01SPC022:Utilization ratio of the message buffer area. The utilization ratio of the message buffer area is the percentage of the part in the message buffer area that	Average	Average, hubcpubh, hustrafbh, Maximum, Minimum, Sum

				has been occupied over the whole buffer area.		
CPU_congestion_duration	hua_sgsn_resource_tab.tfygoep3gwbyosqaookcrw5wk1	INTEGER	seconds	Obsolete from CN-SGSN/V900R010.C01SPC022:Duration of times the CPU occupancy ratio exceeds 95%.	Sum	hubcpu h, hustrafbh , Sum
CPU_congestion_times	hua_sgsn_resource_tab.uiytockvtnb63ujh5xvu4j5oso	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Number of times the CPU occupancy ratio exceeds 95%.	Sum	hubcpu h, hustrafbh , Sum
CPU_overload_duration	hua_sgsn_resource_tab.st35nbt4sbx1ex6p5hxfy452h	INTEGER	seconds	Obsolete from CN-SGSN/V900R010.C01SPC022:Duration of times the CPU occupancy ratio exceeds 85%.	Sum	hubcpu h, hustrafbh , Sum
CPU_overload_times	hua_sgsn_resource_tab.vafscelbidcx4cgptyxd1e5okx	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:Number of times the CPU occupancy ratio exceeds 85%.	Sum	hubcpu h, hustrafbh , Sum
Max_CPU_occupation_ratio	hua_sgsn_resource_tab.wsyvje3rj0chss6i3hr5oqr6lo	FLOAT	%	Obsolete from CN-	Constant	Average, hubcpu

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				SGSN/V900R010.C01SPC022:Maximum of the CPU occupancy ratio of the board.		h, hustrafbh, Maximum, Minimum, Sum
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### 6.32.2 SGSN\_Board.Huawei.GPRS.TCP\_IP

(Obsolete from V900R010) TCP IP measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Errors_msg_rec	hua_tcp_ip_tab.rcf0spll6abohsadh4h5ojhdik	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of error messages received by TCP from the IP layer.	Sum	hubcpubh, hustrafbh, Sum
IP_layer_data_kbytes_rec	hua_tcp_ip_tab.yas4uipg56csybytd3swl5ikdc	INT8	KBytes	Obsolete from CN-SGSN/V900R010.C01SPC022: The Kbytes of IP messages received by the IP layer.	Sum	hubcpubh, hustrafbh, Sum
IP_layer_data_kbytes_sent	hua_tcp_ip_tab.ygoowww0ebcu2u6ykkhnld4lgr	INT8	KBytes	Obsolete from CN-SGSN/V900R010.C01SPC022: The Kbytes of IP messages that the transport layer requests the IP layer to transmit.	Sum	hubcpubh, hustrafbh, Sum

IP_layer_error_msg_rec	hua_tcp_ip_tab.welafchcm tbw0bkne1412mtaft	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of IP packets discarded due to a non-flow control cause during reception.	Sum	hubcpub h, hustrafbh , Sum
IP_layer_msg_discarded_flow_control	hua_tcp_ip_tab.vd3gorc2u cbn2ecnj3vjw1x3s	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of ICMP echo request messages discarded due to flow control or IP packets discarded due to IP queue overflow.	Sum	hubcpub h, hustrafbh , Sum
IP_layer_msg_rec	hua_tcp_ip_tab.wntwnivxh nb4hsvm3ukjok3gke	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of messages received by the IP layer.	Sum	hubcpub h, hustrafbh , Sum
IP_layer_msg_sent	hua_tcp_ip_tab.tmi2g0datd crqdxeq5q3om3ihi	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: Number of messages requested to be	Sum	hubcpub h, hustrafbh , Sum

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				transmitted by the IP layer.		
IP_layer_segments_rec	hua_tcp_ip_tab.rnjtkcx1h2b4nscy2ilgm6gn5	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of fragments received by the IP layer.	Sum	hubcpubh, huStrafbh, Sum
Msg_in_segments_IP_layer_trans	hua_tcp_ip_tab.rsh4sehne5cc2rataaf2gkqyag	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of messages to be sent as fragments by the IP layer.	Sum	hubcpubh, huStrafbh, Sum
Msg_with_err_in_trans_frm_IP_layer	hua_tcp_ip_tab.xclk4vs00ybmerox6muj1631d	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of messages discarded due to error in the transmission by the IP layer.	Sum	hubcpubh, huStrafbh, Sum
Msg_with_err_in_trans_from_TCP	hua_tcp_ip_tab.tppqw6c4ejb2js153rl1i3hoop	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of errors in data transmission by the upper-layer module through TCP.	Sum	hubcpubh, huStrafbh, Sum
Msg_with_err_in_trans_from_UDP	hua_tcp_ip_tab.vnmjxria60bbpt1kds1hthenka	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022:	Sum	hubcpubh, huStrafbh, Sum

				Number of errors in data transmission by the upper-layer module through UDP.		
TCP_data_Kbyte_rec	hua_tcp_ip_tab.s6sr0512fabh6up423i3m6j2dn	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: The Kbytes of messages received by TCP from the IP layer.	Sum	hubcpubh, huStrafbh, Sum
TCP_data_Kbyte_sent	hua_tcp_ip_tab.y3brpvo2kycnslwj0ps32ip4b	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: The Kbytes of messages sent by TCP to the IP layer.	Sum	hubcpubh, huStrafbh, Sum
TCP_msg_rec	hua_tcp_ip_tab.w4wk2uhud6chpdtio5ompsy2h6	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of messages received by TCP from the IP layer.	Sum	hubcpubh, huStrafbh, Sum
TCP_msg_sent	hua_tcp_ip_tab.xia2j5cmuabbotj01gwfxyv0u	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of messages sent by TCP to the	Sum	hubcpubh, huStrafbh, Sum

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				IP layer.		
UDP_data_Kbyte_rec	hua_tcp_ip_tab.xlilodlabgbdls1ipi33h4ohhf	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: The Kbytes of IP messages received by UDP from the IP layer.	Sum	hubcpubh, hustrafbh, Sum
UDP_data_Kbyte_sent	hua_tcp_ip_tab.x5s5tic5xwcj3rndjce2wig4f5	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: The Kbytes of messages transmitted by the upper-layer module through UDP.	Sum	hubcpubh, hustrafbh, Sum
UDP_error_error_msg_rec	hua_tcp_ip_tab.upj005i4pqbwdu512eu4qi6fku	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of error messages received by UDP from the IP layer.	Sum	hubcpubh, hustrafbh, Sum
UDP_msg_rec	hua_tcp_ip_tab.u4mmlrkn5mb6nchuw0kkcufpig	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of messages received by UDP from the IP layer.	Sum	hubcpubh, hustrafbh, Sum
UDP_sent_msg_sent	hua_tcp_ip_tab.t0y01ddyvcc2pshtbo3nm4aq5s	INTEGER	#	Obsolete from CN-SGSN/V900R010.C01SPC022: Number of data	Sum	hubcpubh, hustrafbh, Sum

				transmissions by the upper-layer module through UDP.		
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### 6.32.3 SGSN\_Board.Huawei.GPRS.UGBI\_board\_traffic

(Obsolete from V900R010) UGBI board traffic measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
LLC_data_kB_rcvd_from_BS_SGP	hua_m117440718_tab.saa n6wt3xa2airvh002ind6wb g	INT8	Kbyte	Obsolete from CN-SGSN/V900R010.C01SPC022:LLC data kbytes received from BSSGP	Sum	hustrafbh
LLC_data_kbytes_sent_to_BS_SGP	hua_m117440718_tab.saa n6wp3xa2airvh002ind6wb g	INT8	Kbyte	Obsolete from CN-SGSN/V900R010.C01SPC022:LLC data kbytes sent to BSSGP	Sum	hustrafbh
LLC_data_pkts_rcvd_from_BSSGP	hua_m117440718_tab.saa n6wr3xa2airvh002ind6wb g	INT8	Packets	Obsolete from CN-SGSN/V900R010.C01SPC022:LLC data packets received from BSSGP	Sum	hustrafbh
LLC_data_pkts_sent_to_BSSGP	hua_m117440718_tab.saa n6wn3xa2airvh002ind6wb g	INT8	Packets	Obsolete from CN-SGSN/V900R010.C01SPC022:LLC data packets sent to BSSGP	Sum	hustrafbh

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LLC_peak_data_kB_rcvd_BSSGP	hua_m117440718_tab.saa n6xd3xa2airvh002ind6wb g	INT8	Kbyte	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC peak data kbytes received from BSSGP	Average	hustrafbh , Maximum, Sum, Minimum
LLC_peak_data_kB_sent_to_BSSGP	hua_m117440718_tab.saa n6x63xa2airvh002ind6wb g	INT8	Kbyte	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC peak data kbytes sent to BSSGP	Average	hustrafbh , Maximum, Sum, Minimum
LLC_peak_data_pkt_rcvd_BSSGP	hua_m117440718_tab.saa n6xb3xa2airvh002ind6wb g	INT8	Packets	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC peak data packets received from BSSGP	Average	hustrafbh , Maximum, Sum, Minimum
LLC_peak_data_pkt_sent_BSSGP	hua_m117440718_tab.saa n6x43xa2airvh002ind6wb g	INT8	Packets	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC peak data packets sent to BSSGP	Average	hustrafbh , Maximum, Sum, Minimum
LLC_peak_sig_kB_rcvd_BSSGP	hua_m117440718_tab.saa n6xl3xa2airvh002ind6wb g	INT8	Kbyte	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC peak signalling kbytes received from BSSGP	Average	hustrafbh , Maximum, Sum, Minimum
LLC_peak_sig_kB_sent_BSSGP	hua_m117440718_tab.saa n6xh3xa2airvh002ind6wb g	INT8	Kbyte	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC peak signalling kbytes sent to BSSGP	Average	hustrafbh , Maximum, Sum, Minimum

LLC_peak_sig_pkt_rcvd_BSSGP	hua_m117440718_tab.saa n6xj3xa2airvh002ind6wbg	INT8	Packets	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC peak signalling packets received from BSSGP	Average	hustrafbh , Maximum, Sum, Minimum
LLC_peak_sig_pkt_sent_BSSGP	hua_m117440718_tab.saa n6xf3xa2airvh002ind6wbg	INT8	Packets	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC peak signalling packets sent to BSSGP	Average	hustrafbh , Maximum, Sum, Minimum
LLC_sig_kB_rcvd_BSSGP	hua_m117440718_tab.saa n6x23xa2airvh002ind6wbg	INT8	Kbyte	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC signalling kbytes received from BSSGP	Sum	hustrafbh
LLC_sig_kB_sent_BSSGP	hua_m117440718_tab.saa n6wx3xa2airvh002ind6wbg	INT8	Kbyte	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC signalling kbytes sent to BSSGP	Sum	hustrafbh
LLC_sig_pkt_rcvd_BSSGP	hua_m117440718_tab.saa n6x03xa2airvh002ind6wbg	INT8	Packets	Obsolete from CN- SGSN/V900R01 0.C01SPC022:LC signalling packets received from BSSGP	Sum	hustrafbh
LLC_sig_pkt_s	hua_m117440718_tab.saa	INT8	Packet	Obsolete from	Sum	hustrafbh

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ent_BSSGP	n6wv3xa2airvh002ind6wb g		s	CN- SGSN/V900R01 0.C01SPC022:L LC signalling packets sent to BSSGP		
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#### 6.32.4 SGSN\_Board.Huawei.GPRS.UGBI\_MS\_cong\_loadshare

(Obsolete from V900R010) UGBI MS congestion loadshare measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Global_subrack_diff_dmn_card	hua_m117440712_tab.saa n6w23xa2airvh002ind6wb g	INTEGER	#	Obsolete from CN- SGSN/V900R010.C01SPC022: UGBI MS congestion loadshare global subrack different domain card selected	Sum	hubcpubh, hustrafbh
Global_subrack_same_dmn_card	hua_m117440712_tab.saa n6w03xa2airvh002ind6wb g	INTEGER	#	Obsolete from CN- SGSN/V900R010.C01SPC022: UGBI MS congestion loadshare global subrack same domain card selected	Sum	hubcpubh, hustrafbh
Local_card_selected	hua_m117440712_tab.saa n6vv3xa2airvh002ind6wb g	INTEGER	#	Obsolete from CN- SGSN/V900R010.C01SPC022: UGBI MS congestion loadshare local card selected	Sum	hubcpubh, hustrafbh

Local_subrack_card_selected	hua_m117440712_tab.saa n6vx3xa2airvh002ind6wb g	INTEGER	#	Obsolete from CN-SGSN/V900R0 10.C01SPC022: UGBI MS congestion loadshare local subrack card selected	Sum	hubcpubh, hustrafbh
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### 6.32.5 SGSN\_Board.Huawei.GPRS.UGFU\_board\_traffic

(Obsolete from V900R010) UGFU board traffic measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
GTPU_kB_host_fwded	hua_m117440721_tab.saa n6xv3xa2airvh002ind6wb g	INT8	Kbyte	Obsolete from CN-SGSN/V900R0 10.C01SPC022: GTP-U KBytes host forwarded in the UGFU board	Sum	hustrafbh
GTPU_Mean_pkt_host_fwded	hua_m117440721_tab.saa n6y43xa2airvh002ind6wb g	INT8	Packet s/s	Obsolete from CN-SGSN/V900R0 10.C01SPC022: GTP-U Mean packets host forwarded in the UGFU board	Average	hustrafbh, Sum, Minimum, Maximum
GTPU_Mean_Throughput_host_fwd	hua_m117440721_tab.saa n6y03xa2airvh002ind6wb g	INT8	Kbyte/s	Obsolete from CN-SGSN/V900R0 10.C01SPC022: GTP-U Mean Throughput host	Average	hustrafbh, Sum, Minimum, Maximum

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				forwarded in the UGFU board		
GTPU_Peak_pkt_host_fwded	hua_m117440721_tab.saa n6y63xa2airvh002ind6wb g	INT8	Packet s/s	Obsolete from CN- SGSN/V900R0 10.C01SPC022: GTP-U Peak packets host forwarded in the UGFU board	Average	hustrafbh , Maximum, Sum, Minimum
GTPU_Peak_Throughput_host_fwd	hua_m117440721_tab.saa n6y23xa2airvh002ind6wb g	INT8	Kbyte/ s	Obsolete from CN- SGSN/V900R0 10.C01SPC022: GTP-U Peak Throughput host forwarded in the UGFU board	Average	hustrafbh , Maximum, Sum, Minimum
GTPU_pkt_host_fwded	hua_m117440721_tab.saa n6xx3xa2airvh002ind6wb g	INT8	Packet s	Obsolete from CN- SGSN/V900R0 10.C01SPC022: GTP-U packets host forwarded in the UGFU board	Sum	hustrafbh
GTPU_U_Mean_Throughput	hua_m117440721_tab.saa n6yd3xa2airvh002ind6wb g	INT8	Kbyte/ s	Obsolete from CN- SGSN/V900R0 10.C01SPC022: GTPU_U Mean Throughput in the UGFU board	Average	hustrafbh , Sum, Minimum, Maximum
GTPU_U_Peak_Throughput	hua_m117440721_tab.saa n6yf3xa2airvh002ind6wb g	INT8	Kbyte/ s	Obsolete from CN- SGSN/V900R0 10.C01SPC022: GTPU_U Peak Throughput in the UGFU board	Average	hustrafbh , Maximum, Sum, Minimum

GTPU_U_Throughput	hua_m117440721_tab.saa n6yb3xa2airvh002ind6wb g	INT8	Kbyte	Obsolete from CN- SGSN/V900R0 10.C01SPC022: GTPU_U Throughput in the UGFU board	Sum	hustrafbh
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### 6.33 SGSN\_PLMN Performance Indicators

- [SGSN\\_PLMN.Huawei.GPRS.Gb\\_user\\_per\\_PLMN](#)
- [SGSN\\_PLMN.Huawei.GPRS.Iu\\_user\\_per\\_PLMN](#)

#### 6.33.1 SGSN\_PLMN.Huawei.GPRS.Gb\_user\_per\_PLMN

Subscribers measurements for specific PLMN - 2G

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Att_avg_user_number_per_PLMN	hua_m117440686_tab.saa n6sr3xa2airvh002ind6wb g	INTEGER	#	Mean 2G subscribers of specific PLMN	Average	hustrafbh, Sum, Minimum, Maximum
Att_max_user_number_per_PLMN	hua_m117440686_tab.saa n6sp3xa2airvh002ind6wb g	INTEGER	#	Maximum 2G subscribers of specific PLMN	Average	hustrafbh, Maximum, Sum, Minimum
Gb_Att_user_number_per_PLMN	hua_m117440686_tab.saa n6sn3xa2airvh002ind6wb g	INTEGER	#	Number of 2G attached mobile users of specific PLMN	Sum	hustrafbh

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### 6.33.2 SGSN\_PLMN.Huawei.GPRS.lu\_user\_per\_PLMN

Subscribers measurements for specific PLMN - 3G

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
_3G_Att_user_number_per_PLMN	hua_m117440687_tab.saa n6st3xa2airvh002ind6wbg	INTEGER	#	Number of 3G attached mobile users of specific PLMN	Sum	hustrafbh
Att_avg_user_number_per_PLMN	hua_m117440687_tab.saa n6sx3xa2airvh002ind6wbg	INTEGER	#	Mean 3G subscribers i of specific PLMN	Average	hustrafbh , Sum, Minimum, Maximum
Att_max_user_number_per_PLMN	hua_m117440687_tab.saa n6sv3xa2airvh002ind6wbg	INTEGER	#	Maximum 3G subscribers of specific PLMN	Average	hustrafbh , Maximum, Sum, Minimum

### 6.34 SGSN\_VLAN Performance Indicators

- [SGSN\\_VLAN.Huawei.GPRS.IP\\_packet\\_within\\_special\\_VLAN](#)

#### 6.34.1 SGSN\_VLAN.Huawei.GPRS.IP\_packet\_within\_special\_VLAN

IP traffic (packets and kbytes) within Virtual Local Area Network.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Received_kbytes_on_special_VLAN	hua_m117440675_tab.tl63 xwyny42ahc3lr02incnmdw	INT8	Kilobytes	Number of kbytes received by specific VLAN.	Sum	hustrafbh , Sum
Received_packets_on_special_VLAN	hua_m117440675_tab.tl63 xwwny42ahc3lr02incnmdw	INT8	Packets	Number of packets received by specific VLAN.	Sum	hustrafbh , Sum

Sent_kbytes_on_special_VLAN	hua_m117440675_tab.tl63xx3ny42ahc3lr02incnmdw	INT8	Kilobytes	Number of kbytes sent by specific VLAN.	Sum	hustrafbh, Sum
Sent_packets_on_special_VLAN	hua_m117440675_tab.tl63xx1ny42ahc3lr02incnmdw	INT8	Packets	Number of packets sent by specific VLAN.	Sum	hustrafbh, Sum

### 6.35 System\_Resource Performance Indicators

- [System\\_Resource.Huawei.GPRS.Process\\_Resource](#)

#### 6.35.1 System\_Resource.Huawei.GPRS.Process\_Resource

Process resource measurements

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Absolutely_avg_CPU_occupancy_ratio	hua_process_resource_tab.saan6ph3xa2airvh002ind6wbg	FLOAT	%	The arithmetical mean of the absolutely CPU occupancy ratio of the process. The CPU occupancy ratio is the quotient of the CPU occupancy time and the sampling period within the sampling period.	Average	hustrafbh, Sum, Minimum, Maximum
Absolutely_max_CPU_occupancy_ratio	hua_process_resource_tab.saan6pj3xa2airvh002ind6wbg	FLOAT	%	Maximum value of the absolutely CPU usage of a	Average	hustrafbh, Maximum, Sum,

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				process.		Minimum
Proc_avg_dyn_memory_util_ratio	hua_process_resource_tab.saan6p23xa2airvh002ind6wbg	FLOAT	%	The average value of the utilization ratio of the dynamic memory. The utilization ratio of the dynamic memory is the percentage of the part in the dynamic memory that has been occupied over the whole dynamic memory.	Average	hustrafbh, Sum, Minimum, Maximum
Proc_avg_msg_cache_util_ratio	hua_process_resource_tab.saan6p03xa2airvh002ind6wbg	FLOAT	%	The average value of the utilization ratio of the message buffer area. The utilization ratio of the message buffer area is the percentage of the part in the message buffer area that has been occupied over the whole buffer area.	Average	hustrafbh, Sum, Minimum, Maximum
Proc_CPU_congest_duration	hua_process_resource_tab.saan6pd3xa2airvh002ind6wbg	INTEGER	seconds	The duration of times the CPU occupancy ratio exceeds 95%.	Sum	hustrafbh
Proc_Max_CPU_occu_ratio	hua_process_resource_tab.saan6pf3xa2airvh002ind6wbg	FLOAT	%	Maximum value of the CPU usage of a process.	Average	hustrafbh, Maximum, Sum,

						Minimum
Process_avg_CPU_occupancy_ratio	hua_process_resource_tab.saan6ox3xa2airvh002ind6wbg	FLOAT	%	The arithmetical mean of the CPU occupancy ratio of the process. The CPU occupancy ratio is the quotient of the CPU occupancy time and the sampling period within the sampling period.	Average	hustrafbh, Sum, Minimum, Maximum
Process_CPU_congestion	hua_process_resource_tab.saan6pb3xa2airvh002ind6wbg	INTEGER	#	The number of times the CPU occupancy ratio exceeds 95%.	Sum	hustrafbh
Process_CPU_overload_duration	hua_process_resource_tab.saan6p63xa2airvh002ind6wbg	INTEGER	seconds	The duration of times the CPU occupancy ratio exceeds 85%.	Sum	hustrafbh
Process_CPU_overload	hua_process_resource_tab.saan6p43xa2airvh002ind6wbg	INTEGER	#	The number of times the CPU occupancy ratio exceeds 85%.	Sum	hustrafbh

### 6.36 UPIU\_Port Performance Indicators

- [UPIU\\_Port.Huawei.GPRS.Error\\_VLAN\\_within\\_special\\_Port](#)
- [UPIU\\_Port.Huawei.GPRS.Eth\\_port\\_stat](#)

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### 6.36.1 UPIU\_Port.Huawei.GPRS.Error\_VLAN\_within\_special\_Port

Error Virtual Local Area Network with special SGSN port.

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Packets_dropped_due_to_illegal_vlan_id	hua_m117440676_tab.tl63xx5ny42ahc3lr02incnmdw	INTEGER	Packets	Packets dropped due to illegal vlan id.	Sum	hustrafbh, Sum
Packets_dropped_due_to_non_canonical_vlan_format	hua_m117440676_tab.tl63xxany42ahc3lr02incnmdw	INTEGER	Packets	Packets dropped due to non-canonical vlan format.	Sum	hustrafbh, Sum
Packets_dropped_due_to_other_error	hua_m117440676_tab.tl63xxeny42ahc3lr02incnmdw	INTEGER	Packets	Packets dropped due to other error.	Sum	hustrafbh, Sum
Packets_dropped_due_to_vlan_not_configured	hua_m117440676_tab.tl63xxcny42ahc3lr02incnmdw	INTEGER	Packets	Packets dropped due to vlan not configured.	Sum	hustrafbh, Sum

### 6.36.2 UPIU\_Port.Huawei.GPRS.Eth\_port\_stat

(Obsolete from V900R010) Ethernet port data measurement

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Eth_port_rcvd_data_MB	hua_m117440720_tab.saa n6xr3xa2airvh002ind6wbg	INT8	Mbyte	Obsolete from CN-SGSN/V900R010.C01SPC022:The received Mbytes data of Ethernet port	Sum	hustrafbh
Eth_port_sent_data_MB	hua_m117440720_tab.saa n6xr3xa2airvh002ind6wbg	INT8	Mbyte	Obsolete from CN-SGSN/V900R010.C01SPC022:The sent Mbytes	Sum	hustrafbh

				data of Ethernet port		
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## 6.37 VLR\_SGSN Performance Indicators

- [VLR\\_SGSN.Huawei.GPRS.BSSAP\\_Basic\\_Traffic\\_with\\_VLR](#)

### 6.37.1 VLR\_SGSN.Huawei.GPRS.BSSAP\_Basic\_Traffic\_with\_VLR

BSSAP basic traffic with specific VLR

KPI Name	Expression	Data Type	Units	Description	Default Aggregator	Other Aggregators
Explicit_IMSI_detach_per_VLR	hua_bssap_bas_traf_vlr_t ab.vrshgs3wih2air02r04u3 bmv6j	INTEGER	times	Definition this measurement provides the number of times notifying VLR to perform service detachment and cancel the association due to MS non-GPRS service detachment.	Sum	hustrafbh, Sum
Explicit_GPRS_detach_per_VLR	hua_bssap_bas_traf_vlr_t ab.vrshgs1wih2air02r04u3 bmv6j	INTEGER	times	This measurement provides the number of times notifying VLR to cancel the association due to MS GPRS service detachment.	Sum	hustrafbh, Sum
Implicit_IMSI_	hua_bssap_bas_traf_vlr_t	INTEGER	times	This	Sum	hustrafbh

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detach_per_VLR	ab.vrshgs5wih2air02r04u3bmv6j	ER		measurement provides the number of times notifying VLR to perform service detachment and cancel association when SGSN deletes the GMM context of the user or it is marked as DETACHED.		, Sum
Non_GPRS_location_update_accept_per_VLR	hua_bssap_bas_traf_vlr_t ab.vrshgsawih2air02r04u3bmv6j	INTEGER	times	This measurement provides the number of "LA UPDATE ACCEPT" message received by SGSN.	Sum	hustrafbh , Sum
Non_GPRS_location_update_per_VLR	hua_bssap_bas_traf_vlr_t ab.vrshgrwwih2air02r04u3bmv6j	INTEGER	times	This measurement provides the number of times SGSN initiates the non-GPRS location update to VLR.	Sum	hustrafbh , Sum
Non_GPRS_location_update_reject_per_VLR	hua_bssap_bas_traf_vlr_t ab.vrshgrywih2air02r04u3bmv6j	INTEGER	times	This measurement provides the number of times SGSN fails in initiating the non-GPRS location update to VLR.	Sum	hustrafbh , Sum
Received_CS_paging_per_VLR	hua_bssap_bas_traf_vlr_t ab.vrshgrqwih2air02r04u3bmv6j	INTEGER	times	This measurement	Sum	hustrafbh , Sum

	bmv6j			provides the number of requests for circuit paging initiated by VLR.		
Refuse_CS_paging_per_VLR	hua_bssap_bas_traf_vlr_t ab.vrshgruwih2air02r04u3 bmv6j	INTEGER	times	This measurement provides the number of paging rejects when VLR initiates the circuit paging for the user is at the un-associated status.	Sum	hustrafbh , Sum
User_unreachable_for_CS_paging_per_VLR	hua_bssap_bas_traf_vlr_t ab.vrshgrswih2air02r04u3 bmv6j	INTEGER	times	This measurement provides the number of failed circuit pagings initiated by VLR (for the user is unreachable).	Sum	hustrafbh , Sum

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# 7 Database Schema

## 7.1 Hierarchy Tables

This section lists the hierarchy ("NC") tables that are included in this technology pack module's database schema.

### 7.1.1 NC\_APN

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
APN_ID	VARCHAR2(50)		[M117440598] SGSN_ID & "/" & APN
GGSN_ID	VARCHAR2(50)	Y	
REGION_ID	VARCHAR2(50)	Y	
NETWORK_ID	VARCHAR2(50)	Y	[M117440598] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
APN_NAME	VARCHAR2(255)		[M117440598] SGSN_ID & "/" & APN
APN_VERSION	VARCHAR2(50)		
APN_TYPE	VARCHAR2(50)		[M117440598] APN
TECHNOLOGY	VARCHAR2(50)		[M117440598] "GPRS"

**7.1.2 NC\_ATM\_PORT**

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
ATM_PORT_ID	VARCHAR2(50)		[M117440655] SGSN_ID & "/" & SRN & "-" & SN & "-" & PORT
NODE_ID	VARCHAR2(50)	Y	[M117440655] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440655] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440655] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
ATM_PORT_NAME	VARCHAR2(255)		[M117440655] SGSN_ID & "/" & SRN & "-" & SN & "-" & PORT
ATM_PORT_TYPE	VARCHAR2(50)		[M117440655] "Populated by customer"
ATM_PORT_VERSION	VARCHAR2(50)		[M117440655] "Populated by customer"
NODE_NAME	VARCHAR2(255)		[M117440655] lookup("nc_sgsn", "sgsn_name", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NODE_TYPE	VARCHAR2(50)		[M117440655] "SGSN"
TECHNOLOGY	VARCHAR2(50)		[M117440655] "GPRS"

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### 7.1.3 NC\_BFD\_SESSION

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
BFD_SESSION_ID	VARCHAR2(50)		[M117440715] SGSN_ID & "/" & BFD_INDEX
SGSN_ID	VARCHAR2(50)	Y	[M117440715] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440715] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440715] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
BFD_SESSION_NAME	VARCHAR2(255)		[M117440715] SGSN_ID & "/" & BFD_INDEX

### 7.1.4 NC\_BSC

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
BSC_ID	VARCHAR2(50)		[M117440582] SGSN_ID & "/" & RNCX
MSC_ID	VARCHAR2(50)	Y	
REGION_ID	VARCHAR2(50)	Y	[M117440582] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440582] NETWORK_ID
SGSN_ID	VARCHAR2(50)	Y	[M117440582] SGSN_ID

TIMESTAMP	DATE		
ENDSTAMP	DATE		
BSC_NAME	VARCHAR2(255)		[M117440582] SGSN_ID & "/" & RNCX
BSC_VERSION	VARCHAR2(50)		
TECHNOLOGY	VARCHAR2(50)		[M117440582] "UMTS"

### 7.1.5 NC\_BSS\_NSE

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
BSS_NSE_ID	VARCHAR2(50)		[M117440526] SGSN_ID & "/" & NSEI
SGSN_ID	VARCHAR2(50)	Y	[M117440526] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440526] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440526] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
BSS_NSE_NAME	VARCHAR2(255)		[M117440526] SGSN_ID & "/" & NSEI

### 7.1.6 NC\_CELL

Column Name	Data Type	Time-	Loader Block/Mapping
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		Tracke d?	
NC_ID	NUMBER		
CELL_ID	VARCHAR2(50)		[M117440527] SGSN_ID & "/" & Cell_Id
BS_ID	VARCHAR2(50)	Y	
BSC_ID	VARCHAR2(50)	Y	
PCU_ID	VARCHAR2(50)	Y	
NSVC_ID	VARCHAR2(50)	Y	
LAC_ID	VARCHAR2(50)	Y	[M117440527] LAC
ROUTING_AREA_ID	VARCHAR2(50)	Y	
MSC_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440527] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440527] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440527] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
CELL_NAME	VARCHAR2(255)		
CELL_TYPE	VARCHAR2(50)		
CELL_DESCRIPTION	VARCHAR2(255)		
REGISTRATION_AREA_ID	VARCHAR2(		

	50)		
MAX_POWER	FLOAT		
DEFINED_TRX	NUMBER		
DEFINED_TCH	NUMBER		
DEFINED_CCH	NUMBER		
SEGMENT_ID	VARCHAR2(50)		
CELL_VERSION	VARCHAR2(50)		
TECHNOLOGY	VARCHAR2(50)		[M117440527] "GPRS"

### 7.1.7 NC\_CG\_IP\_PORT

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
CG_IP_PORT_ID	VARCHAR2(50)		[M117440513] CG_IP & "/" & GTP_bearing_protocol & "-" & Port_No
REGION_ID	VARCHAR2(50)	Y	[M117440513] "Populated by customer"
NETWORK_ID	VARCHAR2(50)	Y	[M117440513] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
CG_IP_PORT_NAME	VARCHAR2(255)		[M117440513] CG_IP & "/" & GTP_bearing_protocol & "-" & Port_No
CG_IP_ID	VARCHAR2(255)		[M117440513] CG_IP
GTP_BEARING_PROTOCO	VARCHAR2(		[M117440513] GTP_bearing_protocol

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### 7.1.8 NC\_DNS

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
DNS_ID	VARCHAR2(50)		[M117440688] SGSN_ID & "/" & IP
REGION_ID	VARCHAR2(50)	Y	[M117440688] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440688] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
DNS_NAME	VARCHAR2(255)		[M117440688] SGSN_ID & "/" & IP
DNS_VERSION	VARCHAR2(50)		
TECHNOLOGY	VARCHAR2(50)		[M117440688] "GPRS"

### 7.1.9 NC\_GB\_FWD\_CHANNEL

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
GB_FWD_CHANNEL_ID	VARCHAR2(50)		[M117440685] SGSN_ID & "/" & CHANNEL_INDEX
SGSN_ID	VARCHAR2(50)	Y	[M117440685] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440685] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d

			%b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440685] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
GB_FWD_CHANNEL_NAME	VARCHAR2(255)		[M117440685] SGSN_ID & "/" & CHANNEL_INDEX

**7.1.10 NC\_GGSN\_IP**

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
GGSN_IP_ID	VARCHAR2(50)		[M117440667] SGSN_ID & "/" & GGSNIP
GGSN_ID	VARCHAR2(50)	Y	
REGION_ID	VARCHAR2(50)	Y	[M117440667] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440667] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
GGSN_IP_NAME	VARCHAR2(255)		[M117440667] SGSN_ID & "/" & GGSNIP
TECHNOLOGY	VARCHAR2(255)		[M117440667] "GPRS"

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#### 7.1.11 NC\_GNGP\_IPV4

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
GNGP_IPV4_ID	VARCHAR2(50)		[M117440541] SGSN_ID & "/" & GnGp_IP
SGSN_ID	VARCHAR2(50)	Y	[M117440541] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440541] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440541] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
GNGP_IPV4_NAME	VARCHAR2(255)		[M117440541] SGSN_ID & "/" & GnGp_IP

#### 7.1.12 NC\_GNGP\_IPV6

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
GNGP_IPV6_ID	VARCHAR2(50)		[M117440653] SGSN_ID & "/" & IPV6
SGSN_ID	VARCHAR2(50)	Y	[M117440653] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440653] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440653] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		

GNGP_IPV6_NAME	VARCHAR2(255)		[M117440653] SGSN_ID & "/" & IPV6
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**7.1.13 NC\_HEARTBEAT\_CHANNEL**

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
HEARTBEAT_CHANNEL_ID	VARCHAR2(50)		[M117440684] SGSN_ID & "/" & SGSNINDEX & "-" & CHUNNELINDEX
SGSN_ID	VARCHAR2(50)	Y	[M117440684] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440684] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440684] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
HEARTBEAT_CHANNEL_NAME	VARCHAR2(255)		[M117440684] SGSN_ID & "/" & SGSNINDEX & "-" & CHUNNELINDEX

**7.1.14 NC\_IMSI**

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
IMSI_ID	VARCHAR2(50)		[M117440514] SGSN_ID & "/" & IMSI
NETWORK_ID	VARCHAR2(50)	Y	[M117440514] NETWORK_ID

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TIMESTAMP	DATE		
ENDSTAMP	DATE		
IMSI_NAME	VARCHAR2(255)		[M117440514] SGSN_ID & "/" & IMSI
IMSI_INFO	VARCHAR2(255)		[M117440514] "Populated by customer"

#### 7.1.15 NC\_IP\_SECURITY

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
IP_SECURITY_ID	VARCHAR2(50)		[M117440722] SGSN_ID & "/" & SRN & "-" & SN
SGSN_ID	VARCHAR2(50)	Y	[M117440722] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440722] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440722] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
IP_SECURITY_NAME	VARCHAR2(255)		[M117440722] SGSN_ID & "/" & SRN & "-" & SN

#### 7.1.16 NC\_M3UA\_DEST

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
M3UA_DEST_ID	VARCHAR2(100)		[M117440658] SGSN_ID & "/" & index
NODE_ID	VARCHAR2(	Y	[M117440658] SGSN_ID

	50)		
REGION_ID	VARCHAR2(50)	Y	[M117440658] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440658] NETWORK_ID
BSC_ID	VARCHAR2(50)	Y	
MSC_ID	VARCHAR2(50)	Y	
MGW_ID	VARCHAR2(50)	Y	
RNC_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440658] SGSN_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
M3UA_DEST_NAME	VARCHAR2(255)		[M117440658] SGSN_ID & "/" & index
NODE_TYPE	VARCHAR2(255)		[M117440658] "SGSN"

### 7.1.17 NC\_M3UA\_LINK

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
M3UA_LINK_ID	VARCHAR2(100)		[M117440656] SGSN_ID & "/" & SRN & "/" & SN & "-" & LN_ID
NODE_ID	VARCHAR2(	Y	[M117440656] SGSN_ID

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	50)		
M3UA_LINKSET_ID	VARCHAR2(100)	Y	
REGION_ID	VARCHAR2(50)	Y	[M117440656] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440656] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
M3UA_DEST_ID	VARCHAR2(100)		
M3UA_LINK_NAME	VARCHAR2(255)		[M117440656] SGSN_ID & "/" & SRN & "/" & SN & "-" & LN_ID
NODE_TYPE	VARCHAR2(255)		[M117440656] "SGSN"
TECHNOLOGY	VARCHAR2(255)		[M117440656] "GPRS"
MODULE_NUMBER	VARCHAR2(255)		
LINK_NUMBER	VARCHAR2(255)		
NODE_NAME	VARCHAR2(255)		

#### 7.1.18 NC\_M3UA\_LINKSET

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
M3UA_LINKSET_ID	VARCHAR2(100)		[M117440657] SGSN_ID & "/" & index
M3UA_DEST_ID	VARCHAR2(100)	Y	

NODE_ID	VARCHAR2(255)	Y	[M117440657] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440657] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440657] NETWORK_ID
BSC_ID	VARCHAR2(50)	Y	
MSC_ID	VARCHAR2(50)	Y	
MGW_ID	VARCHAR2(50)	Y	
RNC_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440657] SGSN_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
M3UA_LINKSET_NAME	VARCHAR2(255)		[M117440657] SGSN_ID & "/" & index
NODE_TYPE	VARCHAR2(255)		[M117440657] "SGSN"
TECHNOLOGY	VARCHAR2(255)		[M117440657] "GPRS"
NODE_NAME	VARCHAR2(255)		

### 7.1.19 NC\_MTP3\_LINK

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
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NC_ID	NUMBER		
MTP3_LINK_ID	VARCHAR2(100)		[M117440623] SGSN_ID & "/" & LSX & "/" & SRN & "-" & SN & "-" & LNK
NODE_ID	VARCHAR2(50)	Y	[M117440623] SGSN_ID
MTP3_LINKPOINT_ID	VARCHAR2(100)	Y	
REGION_ID	VARCHAR2(50)	Y	[M117440623] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440623] NETWORK_ID
MTP3_LINKSET_ID	VARCHAR2(100)	Y	
TIMESTAMP	DATE		
ENDSTAMP	DATE		
MTP3_LINK_NAME	VARCHAR2(255)		[M117440623] SGSN_ID & "/" & LSX & "/" & SRN & "-" & SN & "-" & LNK
NODE_TYPE	VARCHAR2(255)		[M117440623] "SGSN"
NODE_NAME	VARCHAR2(255)		
LINK_NUMBER	VARCHAR2(255)		
MODULE_NUMBER	VARCHAR2(255)		
TECHNOLOGY	VARCHAR2(255)		[M117440623] "GPRS"

#### 7.1.20 NC\_MTP3\_LINKPOINT

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		

MTP3_LINKPOINT_ID	VARCHAR2(100)		[M117440625] SGSN_ID & "/" & DPX
NODE_ID	VARCHAR2(50)	Y	[M117440625] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440625] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440625] NETWORK_ID
BSC_ID	VARCHAR2(50)	Y	
MGW_ID	VARCHAR2(50)	Y	
RNC_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440625] SGSN_ID
MSC_ID	VARCHAR2(50)	Y	
TIMESTAMP	DATE		
ENDSTAMP	DATE		
MTP3_LINKPOINT_NAME	VARCHAR2(255)		[M117440625] SGSN_ID & "/" & DPX
NODE_TYPE	VARCHAR2(255)		[M117440625] "SGSN"

### 7.1.21 NC\_MTP3\_LINKSET

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		

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MTP3_LINKSET_ID	VARCHAR2(100)		[M117440624] SGSN_ID & "/" & LSX
NODE_ID	VARCHAR2(50)	Y	[M117440624] SGSN_ID
MTP3_LINKPOINT_ID	VARCHAR2(100)	Y	
REGION_ID	VARCHAR2(50)	Y	[M117440624] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440624] NETWORK_ID
BSC_ID	VARCHAR2(50)	Y	
MGW_ID	VARCHAR2(50)	Y	
RNC_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440624] SGSN_ID
MSC_ID	VARCHAR2(50)	Y	
TIMESTAMP	DATE		
ENDSTAMP	DATE		
MTP3_LINKSET_NAME	VARCHAR2(255)		[M117440624] SGSN_ID & "/" & LSX
NODE_TYPE	VARCHAR2(255)		[M117440624] "SGSN"
NODE_NAME	VARCHAR2(255)		
TECHNOLOGY	VARCHAR2(255)		[M117440624] "GPRS"

#### 7.1.22 NC\_MTP3\_ROUTE

Column Name	Data Type	Time-Tracke	Loader Block/Mapping
-------------	-----------	-------------	----------------------

		d?	
NC_ID	NUMBER		
MTP3_ROUTE_ID	VARCHAR2(50)		[M117440719] SGSN_ID & "/" & LABEL & "-" & LSX
SGSN_ID	VARCHAR2(50)	Y	[M117440719] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440719] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440719] NETWORK_ID
SOURCE_ID	VARCHAR2(50)	Y	
TIMESTAMP	DATE		
ENDSTAMP	DATE		
MTP3_ROUTE_NAME	VARCHAR2(255)		[M117440719] SGSN_ID & "/" & LABEL & "-" & LSX
TARGET_ID	VARCHAR2(255)		
SOURCE_TYPE	VARCHAR2(255)		
TARGET_TYPE	VARCHAR2(255)		
TECHNOLOGY	VARCHAR2(255)		
NODE_ID	VARCHAR2(255)		

### 7.1.23 NC\_MTP3B\_LINK

Column Name	Data Type	Time-Tracke	Loader Block/Mapping
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		<b>d?</b>	
NC_ID	NUMBER		
MTP3B_LINK_ID	VARCHAR2(100)		[M117440546] SGSN_ID & "/" & LNK
MTP3B_LINKPOINT	VARCHAR2(100)	Y	
NODE_ID	VARCHAR2(50)	Y	[M117440546] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440546] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440546] NETWORK_ID
MTP3B_LINKSET_ID	VARCHAR2(100)	Y	
TIMESTAMP	DATE		
ENDSTAMP	DATE		
MTP3B_LINK_NAME	VARCHAR2(255)		[M117440546] SGSN_ID & "/" & LNK
NODE_TYPE	VARCHAR2(255)		[M117440546] "SGSN"
NODE_NAME	VARCHAR2(255)		
LINK_NUMBER	VARCHAR2(255)		
MODULE_NUMBER	VARCHAR2(255)		
TECHNOLOGY	VARCHAR2(255)		[M117440546] "GPRS"

#### 7.1.24 NC\_MTP3B\_LINKSET

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
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NC_ID	NUMBER		
MTP3B_LINKSET_ID	VARCHAR2(100)		[M117440547] SGSN_ID & "/" & LSX
MTP3B_LINKPOINT_ID	VARCHAR2(100)	Y	
NODE_ID	VARCHAR2(50)	Y	[M117440547] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440547] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440547] NETWORK_ID
MGW_ID	VARCHAR2(50)	Y	
RNC_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440547] SGSN_ID
MSC_ID	VARCHAR2(50)	Y	
TIMESTAMP	DATE		
ENDSTAMP	DATE		
MTP3B_LINKSET_NAME	VARCHAR2(255)		[M117440547] SGSN_ID & "/" & LSX
NODE_TYPE	VARCHAR2(255)		[M117440547] "SGSN"
NODE_NAME	VARCHAR2(255)		
TECHNOLOGY	VARCHAR2(255)		[M117440547] "GPRS"

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### 7.1.25 NC\_MTP3B\_POINT

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
MTP3B_POINT_ID	VARCHAR2(100)		[M117440548] SGSN_ID & "/" & DPX
NODE_ID	VARCHAR2(50)	Y	[M117440548] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440548] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440548] NETWORK_ID
MGW_ID	VARCHAR2(50)	Y	
RNC_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440548] SGSN_ID
MSC_ID	VARCHAR2(50)	Y	
TIMESTAMP	DATE		
ENDSTAMP	DATE		
MTP3B_POINT_NAME	VARCHAR2(255)		[M117440548] SGSN_ID & "/" & DPX
NODE_TYPE	VARCHAR2(255)		[M117440548] "SGSN"

### 7.1.26 NC\_MVNO

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
MVNO_ID	VARCHAR2(		[M117440633] SGSN_ID & "/" & MVNO

	50)		
NETWORK_ID	VARCHAR2(50)	Y	[M117440633] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
MVNO_NAME	VARCHAR2(255)		[M117440633] SGSN_ID & "/" & MVNO
MVNO_TYPE	VARCHAR2(255)		[M117440633] "Populated by customer"
TECHNOLOGY	VARCHAR2(50)		[M117440633] "GPRS"

### 7.1.27 NC\_NETWORK

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
NETWORK_ID	VARCHAR2(50)		[M117440515] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
NETWORK_TYPE	VARCHAR2(50)		[M117440515] "GSM/GPRS"
DEFAULT_LINK_SPEED	FLOAT		[M117440515] 64000
NETWORK_NAME	VARCHAR2(255)		[M117440515] NETWORK_ID

### 7.1.28 NC\_NSE

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
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		d?	
NC_ID	NUMBER		
NSE_ID	VARCHAR2(50)		[M117440524] SGSN_ID & "/" & NSEI
SGSN_ID	VARCHAR2(50)	Y	[M117440524] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440524] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440524] NETWORK_ID
PCU_ID	VARCHAR2(50)	Y	
TIMESTAMP	DATE		
ENDSTAMP	DATE		
NSE_NAME	VARCHAR2(255)		[M117440524] SGSN_ID & "/" & NSEI
SGSN_NAME	VARCHAR2(255)		[M117440524] lookup("nc_sgsn", "sgsn_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
TECHNOLOGY	VARCHAR2(50)		[M117440524] "GPRS"

#### 7.1.29 NC\_NSVC\_IP

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
NSVC_IP_ID	VARCHAR2(50)		[M117440669] SGSN_ID & "/" & NSVCID
NSVC_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440669] SGSN_ID

REGION_ID	VARCHAR2(50)	Y	[M117440669] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440669] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
NSVC_IP_NAME	VARCHAR2(255)		[M117440669] SGSN_ID & "/" & NSVCID

**7.1.30 NC\_NSVC**

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
NSVC_ID	VARCHAR2(50)		[M117440523] SGSN_ID & "/" & NSVCI
PCU_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[M117440523] SGSN_ID
BEARER_ID	VARCHAR2(50)	Y	
REGION_ID	VARCHAR2(50)	Y	[M117440523] lookup("nc_sgsn", "region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440523] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
NSVC_NAME	VARCHAR2(		[M117440523] SGSN_ID & "/" & NSVCI

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	255)		
NSE_ID	VARCHAR2(50)		
NSE_NAME	VARCHAR2(255)		
DLCI_ID	VARCHAR2(50)		
DLCI_CN_ID	VARCHAR2(50)		
BEARER_CN_ID	VARCHAR2(50)		
CIR	VARCHAR2(50)		[M117440523] "Populated by customer"
TECHNOLOGY	VARCHAR2(50)		[M117440523] "GPRS"

#### 7.1.31 NC\_REGION

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
REGION_ID	VARCHAR2(50)		[M117440515] REGION_ID
NETWORK_ID	VARCHAR2(50)	Y	[M117440515] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
REGION_NAME	VARCHAR2(255)		[M117440515] REGION_ID

#### 7.1.32 NC\_ROUTING\_AREA

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
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NC_ID	NUMBER		
ROUTING_AREA_ID	VARCHAR2(50)		[M117440562] SGSN_ID & "/" & LAC & "-" & RAC
LAC_ID	VARCHAR2(50)	Y	[M117440562] SGSN_ID & "/" & LAC
SGSN_ID	VARCHAR2(50)	Y	[M117440562] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440562] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440562] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
ROUTING_AREA_NAME	VARCHAR2(255)		[M117440562] SGSN_ID & "/" & LAC & "-" & RAC
SGSN_UNIT_ID	VARCHAR2(50)		

### 7.1.33 NC\_SGSN\_BOARD

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
SGSN_BOARD_ID	VARCHAR2(50)		[M117440626] SGSN_ID & "/" & SRN & "-" & SN & "-" & BP
SGSN_ID	VARCHAR2(50)	Y	[M117440626] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440626] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)

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NETWORK_ID	VARCHAR2(50)	Y	[M117440626] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
SGSN_BOARD_NAME	VARCHAR2(255)		[M117440626] SGSN_ID & "/" & SRN & "-" & SN & "-" & BP

#### 7.1.34 NC\_SGSN\_PLMN

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
SGSN_PLMN_ID	VARCHAR2(50)		[M117440686] SGSN_ID & "/" & MCC & MNC [M117440687] SGSN_ID & "/" & MCC & MNC
SGSN_ID	VARCHAR2(50)	Y	[M117440686] SGSN_ID [M117440687] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440686] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440686] NETWORK_ID [M117440687] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
SGSN_PLMN_NAME	VARCHAR2(255)		[M117440686] SGSN_ID & "/" & MCC & MNC [M117440687] SGSN_ID & "/" & MCC & MNC

#### 7.1.35 NC\_SGSN\_VLAN

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		

SGSN_VLAN_ID	VARCHAR2(50)		[M117440675] SGSN_ID & "/" & FN
SGSN_ID	VARCHAR2(50)	Y	[M117440675] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440675] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440675] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
SGSN_VLAN_NAME	VARCHAR2(255)		[M117440675] SGSN_ID & "/" & FN
TECHNOLOGY	VARCHAR2(50)		[M117440675] "GPRS"

### 7.1.36 NC\_SGSN

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
SGSN_ID	VARCHAR2(50)		[M117440515] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440515] REGION_ID
NETWORK_ID	VARCHAR2(50)	Y	[M117440515] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
SGSN_NAME	VARCHAR2(255)		[M117440515] SGSN_ID

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SGSN_IP_ADDRESS	VARCHAR2(64)		[M117440515] "Populated by customer"
SGSN_VERSION	VARCHAR2(50)		[M117440515] "R010"
MAX_SUBSCRIBER	NUMBER		[M117440515] "Populated by customer"
MAX_PDP	NUMBER		[M117440515] "Populated by customer"
TECHNOLOGY	VARCHAR2(50)		[M117440515] "GPRS"

### 7.1.37 NC\_SYSTEM\_RESOURCE

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
SYSTEM_RESOURCE_ID	VARCHAR2(50)		[M117440617] SGSN_ID & "/" & PROC_ID & "-" & PROC_TYPE & "-" & SN & "-" & SRN
REGION_ID	VARCHAR2(50)	Y	[M117440617] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
SGSN_ID	VARCHAR2(50)	Y	[M117440617] SGSN_ID
NETWORK_ID	VARCHAR2(50)	Y	[M117440617] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
SYSTEM_RESOURCE_NAME	VARCHAR2(255)		[M117440617] SGSN_ID & "/" & PROC_ID & "-" & PROC_TYPE & "-" & SN & "-" & SRN
SLOT_NUMBER	VARCHAR2(255)		[M117440617] SGSN_ID & "/" & PROC_ID & "-" & PROC_TYPE & "-" & SN
PROCESS_TYPE	VARCHAR2(255)		[M117440617] SGSN_ID & "/" & PROC_ID & "-" & PROC_TYPE

**7.1.38 NC\_UPIU\_PORT**

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
UPIU_PORT_ID	VARCHAR2(50)		[M117440676] SGSN_ID & "/" & SRN & "-" & SN & "-" & PORT
SGSN_ID	VARCHAR2(50)	Y	[M117440676] SGSN_ID
REGION_ID	VARCHAR2(50)	Y	[M117440676] lookup("nc_sgsn", "region_id", utime(Day & Starttime, "%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440676] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
UPIU_PORT_NAME	VARCHAR2(255)		[M117440676] SGSN_ID & "/" & SRN & "-" & SN & "-" & PORT
TECHNOLOGY	VARCHAR2(50)		[M117440676] "GPRS"

**7.1.39 NC\_VLR\_SGSN**

Column Name	Data Type	Time-Tracke d?	Loader Block/Mapping
NC_ID	NUMBER		
VLR_SGSN_ID	VARCHAR2(50)		[M117440690] SGSN_ID & "/" & VLR
SGSN_ID	VARCHAR2(50)	Y	[M117440690] SGSN_ID
REGION_ID	VARCHAR2(	Y	[M117440690] lookup("nc_sgsn",

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	50)		"region_id", utime(Day & Starttime,"%d %b %Y %R"), SGSN_ID)
NETWORK_ID	VARCHAR2(50)	Y	[M117440690] NETWORK_ID
TIMESTAMP	DATE		
ENDSTAMP	DATE		
VLR_SGSN_NAME	VARCHAR2(255)		[M117440690] SGSN_ID & "/" & VLR
TECHNOLOGY	VARCHAR2(50)		[M117440690] "GPRS"

## 7.2 Raw Performance Tables

This section lists the performance tables that are included in this technology pack module's database schema, grouped by the network object to which they relate, as follows:

- [APN](#)
- [ATM\\_Port](#)
- [BFD\\_Session](#)
- [BSS\\_NSE](#)
- [Cell](#)
- [CG\\_IP\\_Port](#)
- [DNS](#)
- [Gb\\_Fwd\\_Channel](#)
- [GGSN\\_IP](#)
- [GnGp\\_IPV4](#)
- [GnGp\\_IPV6](#)
- [Heartbeat\\_Channel](#)
- [IMSI](#)
- [IP\\_Security](#)
- [M3UA\\_Dest](#)
- [M3UA\\_Link](#)
- [M3UA\\_LinkSet](#)
- [MTP3\\_Link](#)
- [MTP3\\_LinkPoint](#)
- [MTP3\\_LinkSet](#)
- [MTP3\\_Route](#)
- [MTP3B\\_Link](#)
- [MTP3B\\_LinkSet](#)
- [MTP3B\\_Point](#)
- [MVNO](#)
- [NSE](#)
- [NSVC](#)

- [NSVC\\_IP](#)
- [RNC](#)
- [Routing\\_Area](#)
- [SGSN](#)
- [SGSN\\_Board](#)
- [SGSN\\_PLMN](#)
- [SGSN\\_VLAN](#)
- [System\\_Resource](#)
- [UPIU\\_Port](#)
- [VLR\\_SGSN](#)

## 7.3 Raw APN Tables

### 7.3.1 HUA\_DATA\_PACKET\_APN\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
APN_ID		VARCHAR2(50)	[M117440652] SGSN_ID & "/" & APN
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YXSGIS051OCY5SHIHH2XWJ2FEP	S117464613	NUMBER	[M117440652] S117464613
RIGS2O4OAGC3DD66YVQ1FYIETJ	S117464614	NUMBER	[M117440652] S117464614
YS5B2SFTB0CCLR3CUOND A3HORJ	S117464615	FLOAT	[M117440652] S117464615
SCFK0IIQN4BSHDV3E5AJYU2MN5	S117464616	FLOAT	[M117440652] S117464616
U1VEG1GEA0C3SE2TPV32HLCX5B	S117464617	FLOAT	[M117440652] S117464617
SKEMIR06N4C6UTUTQT5IOJB52Y	S117464618	FLOAT	[M117440652] S117464618
XNWUNPGTXFBIOBCEBDN34HHIWR	S117464615_117464616	FLOAT	[M117440652] S117464615 + S117464616

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### 7.3.2 HUA\_GB\_MODE\_PDP\_ACT\_APN\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
APN_ID		VARCHAR2(50)	[M117440598] SGSN_ID & "/" & APN
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6LN3XA2AIRVH002I ND6WBG	S117459216	NUMBER	[M117440598] S117459216
SAAN6LP3XA2AIRVH002I ND6WBG	S117459217	NUMBER	[M117440598] S117459217
SAAN6LR3XA2AIRVH002I ND6WBG	S117459218	NUMBER	[M117440598] S117459218
SAAN6LT3XA2AIRVH002I ND6WBG	S117459219	NUMBER	[M117440598] S117459219
SAAN6LV3XA2AIRVH002I ND6WBG	S117459220	NUMBER	[M117440598] S117459220
SAAN6LX3XA2AIRVH002I ND6WBG	S117459221	NUMBER	[M117440598] S117459221
SAAN6M03XA2AIRVH002I ND6WBG	S117459222	NUMBER	[M117440598] S117459222
SAAN6M23XA2AIRVH002I ND6WBG	S117459223	NUMBER	[M117440598] S117459223
SAAN6M43XA2AIRVH002I ND6WBG	S117459224	NUMBER	[M117440598] S117459224
SAAN6M63XA2AIRVH002I ND6WBG	S117459225	NUMBER	[M117440598] S117459225
SAAN6MB3XA2AIRVH002I ND6WBG	S117459226	NUMBER	[M117440598] S117459226
SAAN6MD3XA2AIRVH002I ND6WBG	S117459227	NUMBER	[M117440598] S117459227
SAAN6MF3XA2AIRVH002I ND6WBG	S117459228	NUMBER	[M117440598] S117459228
SAAN6MH3XA2AIRVH002I ND6WBG	S117459229	NUMBER	[M117440598] S117459229

SAAN6MJ3XA2AIRVH002I ND6WBG	S117459230	NUMBER	[M117440598] S117459230
SAAN6ML3XA2AIRVH002I ND6WBG	S117459231	NUMBER	[M117440598] S117459231
SAAN6MN3XA2AIRVH002I ND6WBG	S117459232	NUMBER	[M117440598] S117459232
SAAN6MP3XA2AIRVH002I ND6WBG	S117459233	NUMBER	[M117440598] S117459233
SAAN6MR3XA2AIRVH002I ND6WBG	S117459234	NUMBER	[M117440598] S117459234
SAAN6MT3XA2AIRVH002I ND6WBG	S117459235	NUMBER	[M117440598] S117459235
SAAN6MV3XA2AIRVH002I ND6WBG	S117459236	NUMBER	[M117440598] S117459236
SAAN6MX3XA2AIRVH002I ND6WBG	S117459237	NUMBER	[M117440598] S117459237
SAAN6N03XA2AIRVH002I ND6WBG	S117459238	NUMBER	[M117440598] S117459238
SAAN6N23XA2AIRVH002I ND6WBG	S117459239	NUMBER	[M117440598] S117459239
SAAN6N43XA2AIRVH002I ND6WBG	S117459240	NUMBER	[M117440598] S117459240
SAAN6N63XA2AIRVH002I ND6WBG	S117459241	NUMBER	[M117440598] S117459241
SAAN6NB3XA2AIRVH002I ND6WBG	S117459242	NUMBER	[M117440598] S117459242
SAAN6ND3XA2AIRVH002I ND6WBG	S117459243	NUMBER	[M117440598] S117459243
SAAN6NF3XA2AIRVH002I ND6WBG	S117459244	NUMBER	[M117440598] S117459244
SAAN6NH3XA2AIRVH002I ND6WBG	S117459245	NUMBER	[M117440598] S117459245

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SAAN6NJ3XA2AIRVH002I ND6WBG	S117459246	NUMBER	[M117440598] S117459246
SAAN6NL3XA2AIRVH002I ND6WBG	S117459247	NUMBER	[M117440598] S117459247
SAAN6NN3XA2AIRVH002I ND6WBG	S117459248	NUMBER	[M117440598] S117459248
SAAN6NP3XA2AIRVH002I ND6WBG	S117459249	NUMBER	[M117440598] S117459249
SAAN6NR3XA2AIRVH002I ND6WBG	S117459250	NUMBER	[M117440598] S117459250
SAAN6NT3XA2AIRVH002I ND6WBG	S117459251	NUMBER	[M117440598] S117459251
SAAN6NV3XA2AIRVH002I ND6WBG	S117459252	NUMBER	[M117440598] S117459252
SAAN6NX3XA2AIRVH002I ND6WBG	S117459253	NUMBER	[M117440598] S117459253
SAAN6O03XA2AIRVH002I ND6WBG	S117459254	NUMBER	[M117440598] S117459254
SAAN6O23XA2AIRVH002I ND6WBG	S117459255	NUMBER	[M117440598] S117459255
SAAN6O43XA2AIRVH002I ND6WBG	S117459256	NUMBER	[M117440598] S117459256
UC6I16B5OXCT0T6DHVKO 05QT54	S117459213	NUMBER	[M117440598] S117459213
RR0PI21ANUCDGEHWIP12 X0XAHB	S117459214	NUMBER	[M117440598] S117459214
YV60BIWYP3CL4CBYCI5H 1BIH0S	S117459215	NUMBER	[M117440598] S117459215

### 7.3.3 HUA\_GB\_MODE\_SM\_RES\_APN\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
APN_ID		VARCHAR R2(50)	[M117440650] SGSN_ID & "/" & APN
TSTAMP		DATE	

INSTANCE_ID		NUMBER	
R6BFHKCOE32AHC3MB02IN CNMDW	S117464417	NUMBER	[M117440650] S117464417
RK1SKBOOE32AHC3MB02I NCNMDW	S117464418	FLOAT	[M117440650] S117464418
RWDVJ41OE32AHC3MB02IN CNMDW	S117464419	NUMBER	[M117440650] S117464419
RWDVJ43OE32AHC3MB02IN CNMDW	S117464420	NUMBER	[M117440650] S117464420
TVN0EHFTKCCAMD1OWTX OJ3FGXO	S117464413	FLOAT	[M117440650] S117464413
S6C03PYR3MCTEUCBPOFHJ UK45G	S117464414	NUMBER	[M117440650] S117464414
YMDTFEDIB4BYOBY0IBMI B2APXH	S117464415	FLOAT	[M117440650] S117464415
SO2V1R3UQABOXSGD6HO4 FKN41V	S117464416	NUMBER	[M117440650] S117464416

### 7.3.4 HUA\_IU\_MODE\_PDP\_ACT\_APN\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
APN_ID		VARCHAR R2(50)	[M117440607] SGSN_ID & "/" & APN
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YRUKAW1XGLC53DHQ0FP STBFPU0	S117460113	NUMBER	[M117440607] S117460113
WTB4FLQLSVC5MS3VT0EQ WQ5VYE	S117460114	NUMBER	[M117440607] S117460114
VNLN0YXXR5BILU1F15QM UNRGIC	S117460115	NUMBER	[M117440607] S117460115

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### 7.3.5 HUA\_IU\_MODE\_SM\_RES\_APN\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
APN_ID		VARCHAR2(50)	[M117440651] SGSN_ID & "/" & APN
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4XGSM0SMFBUYUE3VWYQW36HCJP	S117464513	FLOAT	[M117440651] S117464513
SHLKPUGFFDB4OEMF251CL0XQKU	S117464514	NUMBER	[M117440651] S117464514
YMV2RP3YODCOEE45FIQI63HXUW	S117464515	FLOAT	[M117440651] S117464515
RITLY2IUJFCE4BSM0AFN6JGIDG	S117464516	NUMBER	[M117440651] S117464516
Y3EJRV5BN6BVDCA0CQPU1A0WJC	S117464517	NUMBER	[M117440651] S117464517
SUJUO0YRXMBHDD241EFQT4CKEA	S117464518	FLOAT	[M117440651] S117464518
YO2G401B4JBFGCBW2QLIT3MBQO	S117464519	NUMBER	[M117440651] S117464519
XIVJQ50IIKB2LT2JRAXGHUBSRL	S117464520	NUMBER	[M117440651] S117464520

## 7.4 Raw ATM\_Port Tables

### 7.4.1 HUA\_ATM\_PORT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ATM_PORT_ID		VARCHAR2(50)	[M117440655] SGSN_ID & "/" & SRN & "-" & SN & "-" & PORT
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
R2KO5PPG5FBY6TXGWJHUQ4CR1V	S117464921	NUMBER	[M117440655] S117464921

VOXAR3ABFDBOXDM56M1 1XNPEKB	S117464922	NUMBER	[M117440655] S117464922
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## 7.5 Raw BFD\_Session Tables

### 7.5.1 HUA\_M117440715\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BFD_SESSION_ID		VARCHAR2(50)	[M117440715] SGSN_ID & "/" & BFD_INDEX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6W43XA2AIRVH002I ND6WBG	S117473813	NUMBER	[M117440715] S117473813
SAAN6W63XA2AIRVH002I ND6WBG	S117473814	NUMBER	[M117440715] S117473814
SAAN6WB3XA2AIRVH002I ND6WBG	S117473815	NUMBER	[M117440715] S117473815
SAAN6WD3XA2AIRVH002I ND6WBG	S117473816	NUMBER	[M117440715] S117473816

## 7.6 Raw BSS\_NSE Tables

### 7.6.1 HUA\_ATTACH\_BSS\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BSS_NSE_ID		VARCHAR2(50)	[M117440558] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UJKNV0FC5PBW5DFKHPR5P PCQCD	S117455213	NUMBER	[M117440558] S117455213

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XUVBVHK6HKCD2BDRORV XOOI53Y	S117455214	NUMBER	[M117440558] S117455214
S5OIOQHQTQB2HRSK4O5FFP TIW5	S117455215	NUMBER	[M117440558] S117455215
U356H1MNPCCHYUI316VEU VKSD2	S117455216	NUMBER	[M117440558] S117455216
WI66LJ5ISNCATBX5KAE2RH KERS	S117455217	NUMBER	[M117440558] S117455217
R3M3TY5YLLBHJSUXARW5 UP2AEO	S117455218	NUMBER	[M117440558] S117455218
RLL6GB2S46CDJCY3VJJRGG VHVB	S117455219	NUMBER	[M117440558] S117455219
SWYQAPAPQ3BL6SMYNDJV G40V1A	S117455220	NUMBER	[M117440558] S117455220
VIAQRPD2PACVYELCRAC5X FHFCF	S117455221	NUMBER	[M117440558] S117455221
UDDPQLA6UCBJATYMRNTM L10KFO	S117455222	NUMBER	[M117440558] S117455222
VRD3QDI6BRBCWTBYKWPC Q0BRNS	S117455223	NUMBER	[M117440558] S117455223
VBEW22QYTQBEMDU0NNMJ 6GX4S3	S117455224	NUMBER	[M117440558] S117455224
TCDLARJDAMCMPBEIDMUU YGA2H3	S117455225	NUMBER	[M117440558] S117455225
SM24FTADNABYBS2JPUALM 6CJJM	S117455226	NUMBER	[M117440558] S117455226
YXVDDGXBHXCRDUG3C0V AC4TVU0	S117455227	NUMBER	[M117440558] S117455227
Y6HQHRRGD5CLIU3XJFPHRJ U43S	S117455228	NUMBER	[M117440558] S117455228
SMUXVHC4FWCPHTIJ2544BI UDM5	S117455229	NUMBER	[M117440558] S117455229
TUFOC3XMG0BSFTRML4NM PFY0WK	S117455230	NUMBER	[M117440558] S117455230
WSY5S65FEDBLHS25AD33KQ	S117455231	NUMBER	[M117440558] S117455231

U4AX			
XMFKGRWQG5CUEDBK1VH H0DQAAX	S117455232	NUMBER	[M117440558] S117455232
S5P43XUFJHCGCC05O2VW2O GXHK	S117455233	NUMBER	[M117440558] S117455233
SVSWQ6YOATBKTUXA4GQE VUKD3V	S117455234	NUMBER	[M117440558] S117455234
RJE0SJ3SIYBT5DU5RPOQGN0 GXA	S117455235	NUMBER	[M117440558] S117455235
URDE650R0PC0CCWNIKNX1 H2TEK	S117455236	NUMBER	[M117440558] S117455236
T1WGI632P0C3FUWK15WKT2 IUE6	S117455237	NUMBER	[M117440558] S117455237
X6FHK4J5BCBUPDOCIY3SPW CTOC	S117455238	NUMBER	[M117440558] S117455238
SGIX5EP5EBBSIB4TVIR56CD V05	S117455239	NUMBER	[M117440558] S117455239
UBCBC3MHT1CMLBIQH03CC W2OT4	S117455240	NUMBER	[M117440558] S117455240
XTD2T3PPVBCRUD5PJXEY53 RUSG	S117455241	NUMBER	[M117440558] S117455241
VUWIKCXIKUBCSUQWC01F ME2KJ3	S117455242	NUMBER	[M117440558] S117455242
S4EQ1FUDURBBXSP04KD11 O2LAY	S117455243	NUMBER	[M117440558] S117455243
TKHFVISXYRBIYSMEIHACW 6SUCL	S117455244	NUMBER	[M117440558] S117455244
XPPDWD36PDCNLCKIA0KPY 0TFK0	S117455245	NUMBER	[M117440558] S117455245
TOWQTU3G3ACW0CR1XAGF PR6MC6	S117455246	NUMBER	[M117440558] S117455246
UDBUFODTWBB0WD6NQNU	S117455247	NUMBER	[M117440558] S117455247

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5BF4SOH			
THJVSOXMUQCSMBBMIMC CYP40RG	S117455248	NUMBER	[M117440558] S117455248
YLB3OB6RM4BLLUMJICEYO LJ3SS	S117455249	NUMBER	[M117440558] S117455249
WXEGMPQR6TBEOCNMP06Q RJHOPR	S117455250	NUMBER	[M117440558] S117455250

## 7.6.2 HUA\_GB\_TRAFFIC\_BSS\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BSS_NSE_ID		VARCHAR2(50)	[M117440526] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TDRI2XXK0OCDJEJOE66AF 1JO2A	S117452013	NUMBER	[M117440526] S117452013
UH63RE6RASBF4RETODXX CJS4NL	S117452014	NUMBER	[M117440526] S117452014
REIP0B4WV4BCNUPGSKVL JP2OC5	S117452015	NUMBER	[M117440526] S117452015
XH5SEUGO1JCWHRRVXJ1 OTVKDT6	S117452016	FLOAT	[M117440526] S117452016
UQENFUVYN4BPQDC6EU2 BAMPL3P	S117452017	FLOAT	[M117440526] S117452017
WNAPECDH6WCEJD6PLNU NXVR1JB	S117452018	FLOAT	[M117440526] S117452018
X65NA1BIKVBASSA16OLS2 G3NBK	S117452019	FLOAT	[M117440526] S117452019
S416CQUPO6BTGUYKJ215X ALX3A	S117452020	FLOAT	[M117440526] S117452020
RB2BHDFBS3BKRBBVQ5RI WHE4BL	S117452021	FLOAT	[M117440526] S117452021

**7.6.3 HUA\_INTER\_SGSN\_RAU\_BSS\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
BSS_NSE_ID		VARCHAR2(50)	[M117440560] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
T3XUVDW5N6BLRBMR1UOYV6FIT1	S117455413	NUMBER	[M117440560] S117455413
XFWEACXTRBCJHCBCWF3U4GYOPC	S117455414	NUMBER	[M117440560] S117455414
S2HR34XOFNCGTDJGEQKRVQCLCW	S117455415	NUMBER	[M117440560] S117455415
RBEIRIGGV4CYCEVOG3QFAAMV26	S117455416	NUMBER	[M117440560] S117455416
WWJFRCHDWKB35R53AYOKLGTCPD	S117455417	NUMBER	[M117440560] S117455417
VDS1XNN1WHCYYROKMG100K1IJR	S117455418	NUMBER	[M117440560] S117455418
TLCO3LSQ2QCKPE1KGD4GFI THMJ	S117455419	NUMBER	[M117440560] S117455419
XYSL2DC11MC3MSFOKH0XSYYIHK	S117455420	NUMBER	[M117440560] S117455420
RCUAEXPNSACEORFLHBMGQCLKFG	S117455421	NUMBER	[M117440560] S117455421
RH4WXCUIITBYRSSCGMDX XA65SV	S117455422	NUMBER	[M117440560] S117455422
TM4T323KSWCKRC4YNJ2JSAQ4D4	S117455423	NUMBER	[M117440560] S117455423
Y4LXW5C62FBH1BS0QXTYR2DCP5	S117455424	NUMBER	[M117440560] S117455424
Y2WWUH5HONBEIC453CYGP	S117455425	NUMBER	[M117440560] S117455425

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04AXY			
RGCSFTWT12BA1U4UMOCF UFSOBE	S117455426	NUMBER	[M117440560] S117455426
R602I3QOP2BD6BG4VDRGUU 1STY	S117455427	NUMBER	[M117440560] S117455427
WY3HON4PD6B2FR1Y5FOKB 0B1Y0	S117455428	NUMBER	[M117440560] S117455428
VA432LLPYWBACCFVYLQY RXKQJ3	S117455429	NUMBER	[M117440560] S117455429
X4ERF1CNPLBJ0BMWOPUIW A4SPM	S117455430	NUMBER	[M117440560] S117455430
Y1PLXGLQ0UC6RTQEEF3BF CDXQ3	S117455431	NUMBER	[M117440560] S117455431
VSPT5BGB31BHRTEDDVJIW CDCSU	S117455432	NUMBER	[M117440560] S117455432
TRYEK0NHGNCKOBYGWXA TM4OPNV	S117455433	NUMBER	[M117440560] S117455433
TEF15OSFGTCPTSPY252P1GA XOE	S117455434	NUMBER	[M117440560] S117455434
XKJJOVPMEJB5QTHVP0GPB3 X56O	S117455435	NUMBER	[M117440560] S117455435
S66MAB1GO5CGAT526SJRKI SYGB	S117455436	NUMBER	[M117440560] S117455436
YDJTDJ6USMC6AS1N5VGA2 GU5T0	S117455437	NUMBER	[M117440560] S117455437
XITTYD26S2C20UGUJXSWLV IEIS	S117455438	NUMBER	[M117440560] S117455438
U1WXLJX0BB0OJBGC4YK PCWV0	S117455439	NUMBER	[M117440560] S117455439
TKX46MQUGPCFASGA0H2JI O6N3N	S117455440	NUMBER	[M117440560] S117455440
TALNWQ0ETFBDAC5D631IW VWI5M	S117455441	NUMBER	[M117440560] S117455441
WEY2H0EVWR2AIR02B04U3 BMV6J	S117455442	NUMBER	[M117440560] S117455442

WEY2H0GVWR2AIR02B04U3 BMV6J	S117455443	NUMBER	[M117440560] S117455443
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**7.6.4 HUA\_INTRA\_SGSN\_RAU\_BSS\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
BSS_NSE_ID		VARCHAR2(50)	[M117440559] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RRLFVDGWRPBGSRMTMBF 4Y524KB	S117455313	NUMBER	[M117440559] S117455313
RHDNX13QCJCXPBDVE66EK XTQBQ	S117455314	NUMBER	[M117440559] S117455314
VTQXMDTYVFC3ESD06KCJ HUNND4	S117455315	NUMBER	[M117440559] S117455315
XPT003UJLSCK1DAUJ22SPM 6IU5	S117455316	NUMBER	[M117440559] S117455316
STFDTM0UVTC2XUT3C4NFI4 4P6L	S117455317	NUMBER	[M117440559] S117455317
XPCHTMK6AABDDS42GUR1 XCKQ3L	S117455318	NUMBER	[M117440559] S117455318
W2RSX3GEXBBG1TW615WA KGPLKX	S117455319	NUMBER	[M117440559] S117455319
VAI3UR2TC5BLAETP1VOK2 QDIOT	S117455320	NUMBER	[M117440559] S117455320
YISIIKF3RVCE6BUC433YFGA GIL	S117455321	NUMBER	[M117440559] S117455321
X2F25XUEOEB4HTMJT6R4R G5411	S117455322	NUMBER	[M117440559] S117455322
XSTRGFJWDFCE5SVC56SFA1 HEUY	S117455323	NUMBER	[M117440559] S117455323

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Y5HH5AIMWYBUGT6OXDTO KUCFWK	S117455324	NUMBER	[M117440559] S117455324
RENYHPO3F6C5XTSAD0CY1 5EMOP	S117455325	NUMBER	[M117440559] S117455325
SNOXYTHNGFCRSEIY0SNK OCUIQH	S117455326	NUMBER	[M117440559] S117455326
WK314BCHSXCUGUCLIDC2V HFK0MW	S117455327	NUMBER	[M117440559] S117455327
RNS64TKX6ECBHUSD5WXM EMKVCX	S117455328	NUMBER	[M117440559] S117455328
TA43G221HWCOCDDVT520Y DTH2E	S117455329	NUMBER	[M117440559] S117455329
UXFJEXSXC6BNIBL5IQTXF2 LQQC	S117455330	NUMBER	[M117440559] S117455330
UMNM0KBXGJC1FBBOSXW3 TU2CS5	S117455331	NUMBER	[M117440559] S117455331
TUHLGKHIP2BUER1ROHGC URC1PN	S117455332	NUMBER	[M117440559] S117455332
W32DYPJY1NCCHC0S2BE46E INSL	S117455333	NUMBER	[M117440559] S117455333
WMWEOJNI15B0XRB2QOMIJ 41XQP	S117455334	NUMBER	[M117440559] S117455334
UAWX4X4G3RCLYEJI0EKME IDKIT	S117455335	NUMBER	[M117440559] S117455335

#### 7.6.5 HUA\_PDP\_CONTEXT\_ACT\_BSS\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BSS_NSE_ID		VARCHAR R2(50)	[M117440596] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YAPHL1VHELB6HUMQVYAX KWX1TQ	S117459013	NUMBER	[M117440596] S117459013
YLMKKTDPB0BUGDI3AKTW	S117459014	NUMBER	[M117440596] S117459014

BGJ0SY			
WG3W3F0Y26BVJSWDQKJPG TBNL5	S117459015	NUMBER	[M117440596] S117459015
UEHHKEYSABBCATYT51NJA Y606N	S117459016	NUMBER	[M117440596] S117459016
XPRWMU4LR1BGLB2JWTHD W2FJN1	S117459017	NUMBER	[M117440596] S117459017
TOVW0B0KVUCX2RBRO3OB 4J43N4	S117459018	NUMBER	[M117440596] S117459018
RSYBSUCCCTCMD5F5IJJ3E DCYM	S117459019	NUMBER	[M117440596] S117459019
XUW663JA4FCQERHUNL0NX 2HM1N	S117459020	NUMBER	[M117440596] S117459020
W0OGX2HKWGBEHEKTLYY ERFGD0F	S117459021	NUMBER	[M117440596] S117459021
RGJ1M3JFVVCY5D0YVKK65 O0OOD	S117459022	NUMBER	[M117440596] S117459022
S2UNF0XJEGCN5SBXKIF3PW BYNP	S117459023	NUMBER	[M117440596] S117459023
W3L1OSIBPIBHRU5KKVRICC QQ4R	S117459024	NUMBER	[M117440596] S117459024
U5OM0QIRFUBTUB2ALAJBL YBOSR	S117459025	NUMBER	[M117440596] S117459025
UCMAFS63JKC5GBT3VLIGW QRJD6	S117459026	NUMBER	[M117440596] S117459026
WNMN3EPTFWCIUEY6LSME VTQPYI	S117459027	NUMBER	[M117440596] S117459027
UKA5N0K6TBB0PDN6UO5L1 L03F2	S117459028	NUMBER	[M117440596] S117459028
TNVXEYWMKABIRRRP0AER HNFP21	S117459029	NUMBER	[M117440596] S117459029
XHXM0BYHOYCQPDHPN5Q	S117459030	NUMBER	[M117440596] S117459030

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MVWUP1R			
YNNR0GQSDSC60R6ULF03Q1 MAMD	S117459031	NUMBER	[M117440596] S117459031
Y2X4S3JPWUBMQEBABM0Q UCNMUW	S117459032	NUMBER	[M117440596] S117459032
Y1CLM1IRFJCO3SAS3IV5R6 WUW2	S117459033	NUMBER	[M117440596] S117459033
Y35ND3MDDYCQCT0APYNL NXFSST	S117459034	NUMBER	[M117440596] S117459034
XSRDC25NDFCBLSJFKGHV2 KPB0V	S117459035	NUMBER	[M117440596] S117459035
V2G010EN31B35TPXM3MKE QO1IR	S117459036	NUMBER	[M117440596] S117459036
SSWGHWTCTBACFYCKOAY4 GN0PKN1	S117459037	NUMBER	[M117440596] S117459037
RPJHUBD6CACWWEDT6JDE2 CP6OU	S117459038	NUMBER	[M117440596] S117459038
R1L11AIS4YBQ3TUGV1FKQO PNLV	S117459039	NUMBER	[M117440596] S117459039
X2WVCBDEVBBQ0DIW264M 3UK2LD	S117459040	NUMBER	[M117440596] S117459040
YP103YCD6YBRMUKGBF0A ULT1KO	S117459041	NUMBER	[M117440596] S117459041
YLXXJBE2S3B3PUBKPENLUJ A5BD	S117459042	NUMBER	[M117440596] S117459042
SDYVIE43GDBH2U2DFETRE T4MF1	S117459043	NUMBER	[M117440596] S117459043
RS3PHXBSDNC2XUVTN34WF F1Q2U	S117459044	NUMBER	[M117440596] S117459044
RWYVDHW3C0CQCRY0L3W0 LWPPIX	S117459045	NUMBER	[M117440596] S117459045
TOXG40APKWB2IS0Y6BEWL NVBHR	S117459046	NUMBER	[M117440596] S117459046
YEPOPO2G2WBTIUWTB5M5 HN1Q62	S117459047	NUMBER	[M117440596] S117459047

U5SWWMNJ1DCDXRR353BY S3RNXG	S117459048	NUMBER	[M117440596] S117459048
WGFDLSIA2SCNYCUTNR3X RFVD1R	S117459049	NUMBER	[M117440596] S117459049
VM6RJHFUOUCUKTSVDNJK 0IUS6A	S117459050	NUMBER	[M117440596] S117459050
Y2OEPYP6FJCLVBQ416Y3SL MQLC	S117459051	NUMBER	[M117440596] S117459051
VSKNGL4QOHB2LE0GA01T3 UX53P	S117459052	NUMBER	[M117440596] S117459052
TE5JFTB5XNBGPU2UAA36K YUJHD	S117459053	NUMBER	[M117440596] S117459053
XOHP0KINILB0XBBVLB6F5T WA5G	S117459054	NUMBER	[M117440596] S117459054
WK3HTB2QA6BG3UHR1PXW 4UURQW	S117459055	NUMBER	[M117440596] S117459055
SCMFRVIYDEBJGUHGCYHA WQDE3K	S117459056	NUMBER	[M117440596] S117459056
RBQBDULUCABE0RIH5HCG U5CAFJ	S117459057	NUMBER	[M117440596] S117459057
YTJ6HHF442BJBREE6GWDRL AF1W	S117459058	NUMBER	[M117440596] S117459058
SEOVQW21PHC44SKAAHFLQ IKSQ1	S117459059	NUMBER	[M117440596] S117459059
VYCD1UBTPQCX2EB5YC5F1 3ITNG	S117459060	NUMBER	[M117440596] S117459060
SAAN6LL3XA2AIRVH002IND 6WBG	S117459061	NUMBER	[M117440596] S117459061

### 7.6.6 HUA\_RADIO\_RESOURCE\_BSS\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
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BSS_NSE_ID		VARCHAR2(50)	[M117440561] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TBI1MQ6GKUBIGB3K6A14 YHAHNM	S117455513	NUMBER	[M117440561] S117455513

### 7.6.7 HUA\_SM\_RESOURCE\_BSS\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BSS_NSE_ID		VARCHAR2(50)	[M117440597] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
U5N4XAHTBHCODBQFE4XJ H1OJXF	S117459113	NUMBER	[M117440597] S117459113
RP6WRFODHPB2HCRFGP3X0 BGAGE	S117459114	NUMBER	[M117440597] S117459114
TWQM2WVK6XBVPR1QNDH DRSEFVR	S117459115	NUMBER	[M117440597] S117459115
WNTFRKPYU6C1LT5WABIPF WSIN5	S117459116	NUMBER	[M117440597] S117459116
TB5XBNUY1TB4TSEHHKXK 3OA51S	S117459117	NUMBER	[M117440597] S117459117

## 7.7 Raw Cell Tables

### 7.7.1 HUA\_ATTACH\_CELL\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
CELL_ID		VARCHAR2(50)	[M117440568] SGSN_ID & "/" & Cell_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WDJSX4F4BWBQSTFPMPFAJ	S117456213	NUMBER	[M117440568] S117456213

KOL6S			
WEDOENQ6RDBIPD65VNN1KJSJ3A	S117456214	NUMBER	[M117440568] S117456214
XNYXNHDHYIBG2TRNPRDKJXDESB	S117456215	NUMBER	[M117440568] S117456215
TRGTDKS6GMCMUSUY5OV6TBHP3S	S117456216	NUMBER	[M117440568] S117456216
VBECKDKEXWCPL2S4VRU0IOYBF	S117456217	NUMBER	[M117440568] S117456217
YRH6LPQ4P1CRLTL1GW3MLHKBDH	S117456218	NUMBER	[M117440568] S117456218
VVYHYBYBQIGCVPCOMK14P4UDQTR	S117456219	NUMBER	[M117440568] S117456219
YIFD6CLA63CEXCA5TNHW6EQJJV	S117456220	NUMBER	[M117440568] S117456220
WKBR5XCDM3COVRW212NOUPUI4V	S117456221	NUMBER	[M117440568] S117456221
R6X2AGKCYMC20TAJA4Y1V1R504	S117456222	NUMBER	[M117440568] S117456222
VOV6CPDL3DCWBEKX3UDC40F0NS	S117456223	NUMBER	[M117440568] S117456223
RUSDYP60DGCB2CKWCTJDDYQ4G5	S117456224	NUMBER	[M117440568] S117456224
REV0IVDVRSCNUSSW2UDOFRLW1P	S117456225	NUMBER	[M117440568] S117456225
YASKJM5WDKBPEUW0JMWEX0FSCD	S117456226	NUMBER	[M117440568] S117456226
XYKL4R3HFIB6HEPYGVDHFV0I01	S117456227	NUMBER	[M117440568] S117456227
YBQLKYE5QVBA5CUNP0G1NM5TR0	S117456228	NUMBER	[M117440568] S117456228
VODPHT5T5HBBPEJMBRTML	S117456229	NUMBER	[M117440568] S117456229

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MNPTA			
WYGOHBU5USBWKD1WUJB W0BGGWG	S117456230	NUMBER	[M117440568] S117456230
SQPLCPR6F2B6AC0W1UA4NK 2NOM	S117456231	NUMBER	[M117440568] S117456231
U6PO6ETUCWCA0EXM04RFP GENEL	S117456232	NUMBER	[M117440568] S117456232
TUM0DVQ3M4B1WCUSACYT XSOXMX	S117456233	NUMBER	[M117440568] S117456233
XUJMKIIFHGCAQC5G4EJBLQ SJYU	S117456234	NUMBER	[M117440568] S117456234
SELCJAL4OEBQAS1DCRSFWL 0W2V	S117456235	NUMBER	[M117440568] S117456235
Y1FTRFXL0ACHHD5604WAT VAYSU	S117456236	NUMBER	[M117440568] S117456236
T3RXBFK4FDBG5UHBA5THFS OBYI	S117456237	NUMBER	[M117440568] S117456237
WWDC2QHT5UBYCRH3ET6Q A1Y24A	S117456238	NUMBER	[M117440568] S117456238
VI6BLXXY4MBXBC4UUV3H6 KYJLP	S117456239	NUMBER	[M117440568] S117456239
XUR0HEISNQBAMSJMDSG2X YIHVD	S117456240	NUMBER	[M117440568] S117456240
SPAYNEKFULBL2T5GNPY4A2 OCSS	S117456241	NUMBER	[M117440568] S117456241
T3OO06ATYMBOSUEAYH3TD PU0FE	S117456242	NUMBER	[M117440568] S117456242
WDR6MGYCY2BHDSF4QSRF0 OQK6G	S117456243	NUMBER	[M117440568] S117456243
X0CC312YQCCQOEY1EGXJJX 5X4E	S117456244	NUMBER	[M117440568] S117456244
S62TDAV1IFCBIUL3XRJ0BBF2 GG	S117456245	NUMBER	[M117440568] S117456245
ULVOWK1L3EBC2DFI4BOWO D3VBD	S117456246	NUMBER	[M117440568] S117456246

X0FXE4SQQ0C1KCDMIUF1ISF400	S117456247	NUMBER	[M117440568] S117456247
VTS6KOSEEGCMTS6LNQFRVJV1M0	S117456248	NUMBER	[M117440568] S117456248
TGLK0EUV5TC6ASEIDC2R6FLGH0	S117456249	NUMBER	[M117440568] S117456249
SEM05TN2GJBWNTQOQWR5BCAP5O	S117456250	NUMBER	[M117440568] S117456250

### 7.7.2 HUA\_BSSGP\_CELL\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
CELL_ID		VARCHAR2(50)	[M117440527] SGSN_ID & "/" & Cell_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SUD16T6JRTCY0CMVGTVMQM2VYF	S117452113	NUMBER	[M117440527] S117452113
YDMD5FW1WYBR5D12S4JY0HDANX	S117452114	NUMBER	[M117440527] S117452114
U652WEO3XKB55CVS62LFGSBW0A	S117452115	NUMBER	[M117440527] S117452115
RNXJ6RKNMTC1EBPXLAJ2PHESOC	S117452116	NUMBER	[M117440527] S117452116
RCPDACJW1SCX3TNQO3T54MGCT4	S117452117	NUMBER	[M117440527] S117452117
T4TUIATMXPCASUT2WFL4WGLNX	S117452118	NUMBER	[M117440527] S117452118
SLJMP0FP51B0DEERDUAT0T3HW2	S117452119	NUMBER	[M117440527] S117452119
Y3D5C115FPBUBC6YMPT1GJH2XL	S117452120	NUMBER	[M117440527] S117452120

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S35JU1NGSBCYYU53MNPTU J2TEQ	S117452121	NUMBER	[M117440527] S117452121
YU5AUJ0DIBCT6E21Y0400E5 HAS	S117452122	NUMBER	[M117440527] S117452122
TQ0HHSMMMS1BQJSP45G1W0 GISVB	S117452123	NUMBER	[M117440527] S117452123
YVHYXLBA6KCS3BFMR0IV EAJ5EM	S117452124	NUMBER	[M117440527] S117452124
WVF4SNXW4YBXWSW553K Y4B0VLT	S117452125	NUMBER	[M117440527] S117452125
RG5YTTU0UUBNUBMJ2WQ BCGTHPW	S117452126	NUMBER	[M117440527] S117452126
W50EXDJE4CXSSJLKAXK Y1GQPG	S117452127	NUMBER	[M117440527] S117452127
RVNKR16QXBCRNDGG6CGH KNXW00	S117452128	NUMBER	[M117440527] S117452128
UX0BV5ULLMCVDTG14A5M YR2WQT	S117452129	NUMBER	[M117440527] S117452129
TEDMHRH00WCTMROQOLJ AMVM014	S117452130	NUMBER	[M117440527] S117452130
W5T22EE0MXCLBCIYF2F3TJ NLLN	S117452131	NUMBER	[M117440527] S117452131
SY4GXL4LYUCYMB4PIKCIH Q2D5C	S117452132	NUMBER	[M117440527] S117452132
TFOIPRBDJBCUKECVPVRU OXA0SC	S117452133	NUMBER	[M117440527] S117452133
RBAUACR1CVBCFUOXUYL 4TCLBGD	S117452134	NUMBER	[M117440527] S117452134
TA0WT6LQWOBYHSTXJTF MJ6AM55	S117452135	NUMBER	[M117440527] S117452135
SEWVSV6SH0CH0U4NRYVK A55O4W	S117452115_16	NUMBER	[M117440527] S117452115 + S117452116

### 7.7.3 HUA\_GB\_MODE\_PDPACT\_CELL\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
-------------	--------------	-----------	----------------------

CELL_ID		VARCHAR2(50)	[M117440599] SGSN_ID & "/" & Cell_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SK3YLBFPDDB2PD6LWQHH 200XOV	S117459313	NUMBER	[M117440599] S117459313
YVEEXB4PCTBR2UC4I11V2C R4CC	S117459314	NUMBER	[M117440599] S117459314
WNJTLTOKXTCARRXRY000 HEET5U	S117459315	NUMBER	[M117440599] S117459315
VP31W6REWICTQD0EDYYU BJQC1F	S117459316	NUMBER	[M117440599] S117459316
VEP3WNVPOEBLBRW4STGC HJCEYL	S117459317	NUMBER	[M117440599] S117459317
T1IYQRK0MKCEAUT0UUKX U1GJA6	S117459318	NUMBER	[M117440599] S117459318
VE0FQLGC2ACJ1ROFT3616L RO6E	S117459319	NUMBER	[M117440599] S117459319
X50EBD0F2LC4KCYX2EJAAI THTB	S117459320	NUMBER	[M117440599] S117459320
WH10WPFYJ1BP3BM5E33KB X1FIJ	S117459321	NUMBER	[M117440599] S117459321
V601L1KQRKCADEK2A62IK BEHVC	S117459322	NUMBER	[M117440599] S117459322
UEXC000BN6BB2U63FIUQ62 PEED	S117459323	NUMBER	[M117440599] S117459323
V0LS44GDR0CH5S5VIXVPXJ DD5B	S117459324	NUMBER	[M117440599] S117459324
U6BI3VPJ6HBHXCPCI0DSW MI6CY	S117459325	NUMBER	[M117440599] S117459325
S2U6WGLW3ICMXCDNA3LN HXMAOV	S117459326	NUMBER	[M117440599] S117459326

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V52BDR4CDDCJTR62SSNGX 1QNF5	S117459327	NUMBER	[M117440599] S117459327
SQU143TP06BFEUDXBSPDG SRR6D	S117459328	NUMBER	[M117440599] S117459328
YWIKHG6OW6BSWBBMYHV IC5BOC3	S117459329	NUMBER	[M117440599] S117459329
VSEPUSVCGSBCFT1XGGVN 3PGQMV	S117459330	NUMBER	[M117440599] S117459330
YQKEQPNF1KBAQCO5OH66 SQJQUX	S117459331	NUMBER	[M117440599] S117459331
XAPTPWB05UC3TE416CI60U OXAH	S117459332	NUMBER	[M117440599] S117459332
SDD0ARFWX1BKEUQSQTM2 2DNXY1	S117459333	NUMBER	[M117440599] S117459333
TCJNRI2K3HCFID1V0OJ4X6R S06	S117459334	NUMBER	[M117440599] S117459334
WO03621YEVBIGTRGT2CYD PECIA	S117459335	NUMBER	[M117440599] S117459335
YAYWNF1LPSCI5SOYCAI5H 4LVTC	S117459336	NUMBER	[M117440599] S117459336
TE5LW43KOBBI DCXO6Q6L AEEF6L	S117459337	NUMBER	[M117440599] S117459337
UMHPLVAAGJC2AU1FXW03 DNILEO	S117459338	NUMBER	[M117440599] S117459338
S04ENL1SMCC3ARSWF3FOX IMHTW	S117459339	NUMBER	[M117440599] S117459339
WI22FGV3CBC00SNESM5PG3 WTX6	S117459340	NUMBER	[M117440599] S117459340
VJXRYHWP6CBT4D5RTEGQ DPF5EF	S117459341	NUMBER	[M117440599] S117459341
WY455YJBX0CSYTY5W1TTT BK6LM	S117459342	NUMBER	[M117440599] S117459342
VL4I2C6GHUCBBSOWAIEAH WXRML	S117459343	NUMBER	[M117440599] S117459343
WO4262OY32CJVBFODJNQV	S117459344	NUMBER	[M117440599] S117459344

VP5T3			
R2A4BIJDSPC53TRF5WXFV WERW2	S117459345	NUMBER	[M117440599] S117459345
W5UFR0Y5WJBORTBI3SMU HOBIO0	S117459346	NUMBER	[M117440599] S117459346
TM5D3QL20HBR5B6KDD16T MFKPC	S117459347	NUMBER	[M117440599] S117459347
UG0J265DYICOODY5MPIEX0 POH6	S117459348	NUMBER	[M117440599] S117459348
Y5K0P5T21HBQRSVLAK3QK 2L43W	S117459349	NUMBER	[M117440599] S117459349
VMKPPMBJ3OCEARENNOV3 YKYRUX	S117459350	NUMBER	[M117440599] S117459350
TFAAI6BMYKBJNDRGHCEH 3LATVV	S117459351	NUMBER	[M117440599] S117459351
VNOYD50HCCCQ3RSB33HX HTR43D	S117459352	NUMBER	[M117440599] S117459352
XFQHPQMSC1CSSDTICVRA VTV6LC	S117459353	NUMBER	[M117440599] S117459353
WH0AWAVV02CMATTRY33 HWIH0XV	S117459354	NUMBER	[M117440599] S117459354
WHLQ4DTA0WBBGR6X64OL IFPAUM	S117459355	NUMBER	[M117440599] S117459355
TCJ3SWQRLFB3DC6616DJ2Y JAGF	S117459356	NUMBER	[M117440599] S117459356
SS6N0X0BV6CDNUUFWGER LKD361	S117459357	NUMBER	[M117440599] S117459357
X46WC4354ABV2UWXSLCN D4CMHI	S117459358	NUMBER	[M117440599] S117459358
R6HYPFB263B4RU1JVL1KV MUS0W	S117459359	NUMBER	[M117440599] S117459359
UEXXUJE0WHCYLDGSEOCY	S117459360	NUMBER	[M117440599] S117459360

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GM6IFO			
SAAN6O63XA2AIRVH002IND 6WBG	S117459361	NUMBER	[M117440599] S117459361

#### 7.7.4 HUA\_INTER\_SGSN\_RAU\_CELL\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
CELL_ID		VARCHAR2(50)	[M117440570] SGSN_ID & "/" & Cell_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UYW1VIPWTQCWSE2EAHGB NNDCKO	S117456413	NUMBER	[M117440570] S117456413
VGQAMX1SESBB2UEPIL0YI UXBTM	S117456414	NUMBER	[M117440570] S117456414
RLGNCSBQALBERUJWC2RU 31U2QH	S117456415	NUMBER	[M117440570] S117456415
XQUVF1JXHAC3GU61GWGL 5KCGD2	S117456416	NUMBER	[M117440570] S117456416
T0PDBUAWHKBAHS60OAHU W6N50X	S117456417	NUMBER	[M117440570] S117456417
WWFQDQVUQNBJTTSFYXY TPY3PBN	S117456418	NUMBER	[M117440570] S117456418
VE4FLO42DRBGTC34NLRAM FWCVU	S117456419	NUMBER	[M117440570] S117456419
U45CE3NPYHCJAE54AGMMJ 0HQTR	S117456420	NUMBER	[M117440570] S117456420
XV6QLODDTQBNMU4EM0Q A6WKKV1	S117456421	NUMBER	[M117440570] S117456421
SVQLMJ03YYCRJTIC5IT2QR NMTQ	S117456422	NUMBER	[M117440570] S117456422
XDQGRXCQXMBDQSOBJ64Q T2VUXS	S117456423	NUMBER	[M117440570] S117456423
YDII2MBN5KCSFEHWWUGW V4ISEU	S117456424	NUMBER	[M117440570] S117456424

WL45HGM2A1CTIRLTNQ1FH GUU3A	S117456425	NUMBER	[M117440570] S117456425
XY6SKVU51YBVKDJQCJQ4J DO5M5	S117456426	NUMBER	[M117440570] S117456426
UDFGPOFNGETVUTLV4C00 SHOIW	S117456427	NUMBER	[M117440570] S117456427
SCAMXOFBRHBOARB0ABK OLIXF6H	S117456428	NUMBER	[M117440570] S117456428
VBHGSPN4HSCN4BLNT5SW RNSVGF	S117456429	NUMBER	[M117440570] S117456429
XK42B321ULBFQUER0P1XFA IGGE	S117456430	NUMBER	[M117440570] S117456430
UG2CIWO6WPBX0BVNOG5M 4BPDHN	S117456431	NUMBER	[M117440570] S117456431
T6V5MWNW2UCYETQU6LN5 0LJFCD	S117456432	NUMBER	[M117440570] S117456432
VREBG TUCE4CPAUSDEVAP 5K051X	S117456433	NUMBER	[M117440570] S117456433
YQ3PQGKEJFBKURWLVD V511HA	S117456434	NUMBER	[M117440570] S117456434
U2LSTT52EMBYOEEJN0A2ST O3SS	S117456435	NUMBER	[M117440570] S117456435
R0QYVFSM5UBHNB2IN3AM EGOF56	S117456436	NUMBER	[M117440570] S117456436
RRD6RHGKUNBVXBCFB5NF LDFHBT	S117456437	NUMBER	[M117440570] S117456437
UV0IFAG5TGCLXDRK6R1PJ NG4GX	S117456438	NUMBER	[M117440570] S117456438
W4UQBC60DWBTNT2U4HRE PHMUVN	S117456439	NUMBER	[M117440570] S117456439
YXQDTM2EPFCKOUXQP5RX Q3C3SA	S117456440	NUMBER	[M117440570] S117456440

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X04DQR5P5HCS2D0N0VGLW MCHKH	S117456441	NUMBER	[M117440570] S117456441
SAAN6FJ3XA2AIRVH002IND 6WBG	S117456444	NUMBER	[M117440570] S117456444
SAAN6FL3XA2AIRVH002IND 6WBG	S117456445	NUMBER	[M117440570] S117456445
WEY2H0SVWR2AIR02B04U3 BMV6J	S117456442	NUMBER	[M117440570] S117456442
WEY2H0UVWR2AIR02B04U3 BMV6J	S117456443	NUMBER	[M117440570] S117456443

#### 7.7.5 HUA\_INTRA\_SGSN\_RAU\_CELL\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
CELL_ID		VARCHAR R2(50)	[M117440569] SGSN_ID & "/" & Cell_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
X501PMKYL1BH5CLV0PDH TVUHAR	S117456313	NUMBER	[M117440569] S117456313
Y34BFMXUXKCIAEIEGYRU RBYYWH	S117456314	NUMBER	[M117440569] S117456314
TQOCOAL6FUCYYCABSOJ1 XOS5PQ	S117456315	NUMBER	[M117440569] S117456315
TAWUHM3QGMB32SVUBM 2JIYFPJX	S117456316	NUMBER	[M117440569] S117456316
SL0SW5JVKGBGFSTRFLJD6 CCPUH	S117456317	NUMBER	[M117440569] S117456317
UJKF1KPQYGC4XCVDFXSK VWJSE5	S117456318	NUMBER	[M117440569] S117456318
XGYBCIOBSVBOICNO325I0 ENRSN	S117456319	NUMBER	[M117440569] S117456319
YCOAEA1KKACFYTIRCCS2 0UD1D0	S117456320	NUMBER	[M117440569] S117456320
XXDPTLHSSMB6FBC2UTYB	S117456321	NUMBER	[M117440569] S117456321

QA5TRW			
WONNOYQEN3BUKT64501E 6BIT3O	S117456322	NUMBER	[M117440569] S117456322
Y1D5MQ6JOIBWGUV5DWCI PU4X4J	S117456323	NUMBER	[M117440569] S117456323
TJPSHLNLVHBX6R3BKY22C HKJXI	S117456324	NUMBER	[M117440569] S117456324
W30GPXASROB1WSKFOGX G2LPEKG	S117456325	NUMBER	[M117440569] S117456325
XCHH6UXEP6C3RUQGIXCR DLBY2G	S117456326	NUMBER	[M117440569] S117456326
WFHUYVP6QYBNCSCCKJEY DSRL1BS	S117456327	NUMBER	[M117440569] S117456327
X6T6PO0X2VCXJUCQQ26I33 GLDP	S117456328	NUMBER	[M117440569] S117456328
WLGASWIOOAC04B6MYQ3 XH0IYGC	S117456329	NUMBER	[M117440569] S117456329
TREG3T4C50C2LUD2ENXC MF2HJ3	S117456330	NUMBER	[M117440569] S117456330
T2DDTQYY6XBV1B6UTPBX BAPSHP	S117456331	NUMBER	[M117440569] S117456331
YDT0BIY1AHB2KSWSQTVO LRLROC	S117456332	NUMBER	[M117440569] S117456332
XWWUBD6JGPBLHRT62DU CJ223XJ	S117456333	NUMBER	[M117440569] S117456333
RVJKXSELVRCATE3VVVII1 R1JUB	S117456334	NUMBER	[M117440569] S117456334
TYYYQLW36GBSCBUKYXD P3FCT3W	S117456335	NUMBER	[M117440569] S117456335

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### 7.7.6 HUA\_M117440682\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
CELL_ID		VARCHAR2(50)	[M117440682] SGSN_ID & "/" & Cell_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6RL3XA2AIRVH002IND6WBG	S117471013	NUMBER	[M117440682] S117471013
SAAN6RN3XA2AIRVH002IND6WBG	S117471014	NUMBER	[M117440682] S117471014

## 7.8 Raw CG\_IP\_Port Tables

### 7.8.1 HUA\_GA\_INTERFACE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
CG_IP_PORT_ID		VARCHAR2(50)	[M117440513] CG_IP & "/" & GTP_bearing_protocol & "-" & Port_No
SGSN_ID		VARCHAR2(50)	[M117440513] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VANCBJ4MRSC6ISYIQYBGVRMTGS	S117450713	NUMBER	[M117440513] S117450713
SMI14VWUUVBKYR23LM3XXI25G6	S117450714	NUMBER	[M117440513] S117450714
Y5K4LS1YWHBHBRT6LUJG4MLQLV	S117450715	NUMBER	[M117440513] S117450715
SSJATEWAHYBOOB24MWT125WIWK	S117450716	NUMBER	[M117440513] S117450716
VCYYEGJPUUBQVUTP4X025H00G0	S117450717	NUMBER	[M117440513] S117450717
VFBKJDTUTMCN5SAQDG1G46N6E0	S117450722	NUMBER	[M117440513] S117450722

SGJEWNVAWMBKFBKL2KT1 U3PTRV	S117450723	NUMBER	[M117440513] S117450723
U3FATPS66BCR3CFNJHPJ5H KSQF	S117450718	NUMBER	[M117440513] S117450718
T55EWNAIMMBHFETID2UAD XT4LL	S117450719	NUMBER	[M117440513] S117450719
WVBWU4QUMMCICUU4ECD XAN0OFU	S117450720	NUMBER	[M117440513] S117450720
UPYP6N11HJBWGCSJ2PP6ITF NCO	S117450721	NUMBER	[M117440513] S117450721
STWUWOCOTMBREUEPB66V 5U0FKM	S117450724	NUMBER	[M117440513] S117450724
S4PQ4O5JJECRXU1LFAHQCC LAPQ	S117450725	NUMBER	[M117440513] S117450725
VTYXC0YNAVBPC43C1QH1 QH5TF	S117450726	NUMBER	[M117440513] S117450726
YG6JBFNDTECMREVCPTLBU WAPCN	S117450727	NUMBER	[M117440513] S117450727
TPOYVNIMALBE6EYHP2GDT 2M52O	S117450728	NUMBER	[M117440513] S117450728
RV6PANXPLABHHEDMSBW H23QBPJ	S117450729	NUMBER	[M117440513] S117450729
YFKCMU5JWACK1D65IHKAB 0V1UQ	S117450730	NUMBER	[M117440513] S117450730
V221Q20ERCCJLDP6054HIKF PR5	S117450731	NUMBER	[M117440513] S117450731
T5UCCP5N4UBV4T36EGARH KFDWI	S117450732	NUMBER	[M117440513] S117450732
UDQSCHMXVACWCTIMHEN V3BH4AY	S117450733	NUMBER	[M117440513] S117450733
U6CFFFV0HSC1NDEULDQGV GGLNF	S117450734	NUMBER	[M117440513] S117450734

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VRIN0H5SNABLMEVNUOG32 2CABD	S117450735	NUMBER	[M117440513] S117450735
VU2MA0Q4QGBXDB32D40G DEQG22	S117450736	NUMBER	[M117440513] S117450736
YMOD0FTBC4CLKTKSFV5CF 63W5H	S117450737	NUMBER	[M117440513] S117450737
WNDABYAXIKC1NURDLY6R 1EJAY2	S117450738	NUMBER	[M117440513] S117450738
SOLIL2K1LFB4YRJ6LX04N1N FVE	S117450739	NUMBER	[M117440513] S117450739
UL5KWSGSEYBBBSRJAV00V EU3RG	S117450740	NUMBER	[M117440513] S117450740
XK4T0EFTGQC6HEMVB2HNP 00X3J	S117450741	NUMBER	[M117440513] S117450741
XOCM2S4BEKCM5UHKMHN0 1MVRGY	S117450742	NUMBER	[M117440513] S117450742
SGMGAHK1KMC3AUEM1S2O SCPB5P	S117450743	NUMBER	[M117440513] S117450743

## 7.9 Raw DNS Tables

### 7.9.1 HUA\_M117440688\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
DNS_ID		VARCHAR2(50)	[M117440688] SGSN_ID & "/" & IP
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6T03XA2AIRVH002I ND6WBG	S117470813	NUMBER	[M117440688] S117470813
SAAN6T23XA2AIRVH002I ND6WBG	S117470814	NUMBER	[M117440688] S117470814

## 7.10 Raw Gb\_Fwd\_Channel Tables

### 7.10.1 HUA\_M117440685\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
GB_FWD_CHANNEL_ID		VARCHAR2(50)	[M117440685] SGSN_ID & "/" & CHANNEL_INDEX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6S43XA2AIRVH002I ND6WBG	S117470513	NUMBER	[M117440685] S117470513
SAAN6S63XA2AIRVH002I ND6WBG	S117470514	NUMBER	[M117440685] S117470514
SAAN6SB3XA2AIRVH002I ND6WBG	S117470515	NUMBER	[M117440685] S117470515
SAAN6SD3XA2AIRVH002I ND6WBG	S117470516	NUMBER	[M117440685] S117470516
SAAN6SF3XA2AIRVH002I ND6WBG	S117470517	NUMBER	[M117440685] S117470517
SAAN6SH3XA2AIRVH002I ND6WBG	S117470518	NUMBER	[M117440685] S117470518
SAAN6SJ3XA2AIRVH002I ND6WBG	S117470519	NUMBER	[M117440685] S117470519
SAAN6SL3XA2AIRVH002I ND6WBG	S117470520	NUMBER	[M117440685] S117470520

## 7.11 Raw GGSN\_IP Tables

### 7.11.1 HUA\_GB\_MODE\_PDP\_ACT\_IP\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
GGSN_IP_ID		VARCHAR2(50)	[M117440667] SGSN_ID & "/" & GGSNIP

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SGSN_ID		VARCHAR2(50)	[M117440667] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6PP3XA2AIRVH002IND6WBG	S117466125	NUMBER	[M117440667] S117466125
T4OVWCN3CGB6MCAS063354CUMG	S117466113	NUMBER	[M117440667] S117466113
UUW63D1RNLBCBYCQK160SQE4TCD	S117466114	NUMBER	[M117440667] S117466114
TF5W1RSTD3BWXDEFEGUYJ4XMM6	S117466115	NUMBER	[M117440667] S117466115
RO5GOOEBDQCKNEJ0VVHC2KTHNE	S117466116	NUMBER	[M117440667] S117466116
UHC45PGJX6CAUROMCTW5B5E2GU	S117466117	NUMBER	[M117440667] S117466117
TKHCWDQH3WCOUDPNYKKEBNCLU6	S117466118	NUMBER	[M117440667] S117466118
VFAAXPJXUBBLDSQNSQKPQQRQGC	S117466119	NUMBER	[M117440667] S117466119
YBDD0ENEW4B3MTNMPGX B2HJMMU	S117466120	NUMBER	[M117440667] S117466120
XGP63NHQ04CUPEPXDW15XJ365K	S117466121	NUMBER	[M117440667] S117466121
XUF1HSGA1TBEJRPXY6WAM3DT15	S117466122	NUMBER	[M117440667] S117466122
WM3TCJCGIFC1UEUN6XJA22B1CL	S117466123	NUMBER	[M117440667] S117466123
XMYHNJOY6QCUSTKSP5QWKGPSNV	S117466124	NUMBER	[M117440667] S117466124

#### 7.11.2 HUA\_IU\_MODE\_PDP\_ACT\_IP\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
GGSN_IP_ID		VARCHAR	[M117440668] SGSN_ID &

		R2(50)	"/" & GGSNIP
SGSN_ID		VARCHA R2(50)	[M117440668] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6PR3XA2AIRVH002IN D6WBG	S117466225	NUMBER	[M117440668] S117466225
SFOA3FFWVPB6NUHTPMVQ AHQ2KW	S117466213	NUMBER	[M117440668] S117466213
V64KXQ2OAFBMTT31EG15U 66M2U	S117466214	NUMBER	[M117440668] S117466214
Y0VA5YDSMRBN2SH1GO1O YF66Y2	S117466215	NUMBER	[M117440668] S117466215
WR2RJ251S0C5ADLQJEBGD QVGST	S117466216	NUMBER	[M117440668] S117466216
YMYDQ606FYBQWD4XB15N IJEDS6	S117466217	NUMBER	[M117440668] S117466217
V4IOISSNRSCPKPD2MCF2EPS DYN3	S117466218	NUMBER	[M117440668] S117466218
WFJA5S5HGIBTEBIOSRHYW SQQ66	S117466219	NUMBER	[M117440668] S117466219
Y003CMQHNP CD0SRAXGFH DA5I5I	S117466220	NUMBER	[M117440668] S117466220
SEYMM1X024CXIEXVYD2O 2Y4C2S	S117466221	NUMBER	[M117440668] S117466221
TLD1T1DYB2CH3D5KEXRQ A1XLTG	S117466222	NUMBER	[M117440668] S117466222
YEWHFQW3INBAWTHY1WP 1SO0I1W	S117466223	NUMBER	[M117440668] S117466223
SRESX34I1WBUFCHH04LKG ASUAH	S117466224	NUMBER	[M117440668] S117466224

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## 7.12 Raw GnGp\_IPV4 Tables

### 7.12.1 HUA\_GN\_TRAFFIC\_GN\_IP\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
GNGP_IPV4_ID		VARCHAR2(50)	[M117440541] SGSN_ID & "/" & GnGp_IP
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XOKNY42AHC3LR02INC NMDW	S117453531	NUMBER	[M117440541] S117453531
TL63XOMNY42AHC3LR02INC NMDW	S117453532	NUMBER	[M117440541] S117453532
TL63XOONY42AHC3LR02INC NMDW	S117453533	NUMBER	[M117440541] S117453533
TL63XOQNY42AHC3LR02INC NMDW	S117453534	NUMBER	[M117440541] S117453534
WXA0C6RIN0CBKD5SXV6DG YA6AF	S117453513	NUMBER	[M117440541] S117453513
WYDWWON6H1BQPCLKLM0 WKAWD15	S117453514	NUMBER	[M117440541] S117453514
S6Y1S4IG0GBV3RPFXFSORJF YC4	S117453515	NUMBER	[M117440541] S117453515
TJIN20MY YFBW2UGSJ2NU566 EPE	S117453516	FLOAT	[M117440541] S117453516
WCJ3B1Y1QXB5NBLCSSVNHI I12D	S117453517	FLOAT	[M117440541] S117453517
YDNQL2SVK5BRGDMXP2IA2I K1SVO	S117453518	FLOAT	[M117440541] S117453518
WPE0EEVJWIBLXT4SPGBQP2 EQDX	S117453519	FLOAT	[M117440541] S117453519
YFLYXRBKI4CRKTMXN1MV3 YMJYK	S117453520	FLOAT	[M117440541] S117453520
WOQKOWLLWQBAAERBEXJ HXD5H6D	S117453521	FLOAT	[M117440541] S117453521
V1IQW0HR4UCWSRCM5SHXT	S117453522	NUMBER	[M117440541] S117453522

UK4UA			
U1OABBIKNICGWROHMXNC K2101F	S117453523	NUMBER	[M117440541] S117453523
WWFCDG4JQ1BSBUYG6GBG3 LI3MN	S117453524	NUMBER	[M117440541] S117453524
TNT0PX31XYB4KR3CEHC304S TWN	S117453525	FLOAT	[M117440541] S117453525
RHFW63MSNDC5QCP1M52LV NKHA0	S117453526	FLOAT	[M117440541] S117453526
U3D1KCTCFMBV0EG5QX2LP LQNU5	S117453527	FLOAT	[M117440541] S117453527
WPGJH0WXOFCH2U0MEG4O GYUDGL	S117453528	FLOAT	[M117440541] S117453528
WSXAIQ6MVIPTARQ335W3K CH5U4	S117453529	FLOAT	[M117440541] S117453529
SBOO4JNMFYCKJC3FEMXH25 HOMU	S117453530	FLOAT	[M117440541] S117453530

### 7.12.2 HUA\_IP\_TRAFFIC\_GN\_IP\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
GNGP_IPV4_ID		VARCHAR R2(50)	[M117440632] SGSN_ID & "/" & GnGp_IP
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UUY0HREFECB5DTODJGN 40CXIDU	S117462613	NUMBER	[M117440632] S117462613

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## 7.13 Raw GnGp\_IPV6 Tables

### 7.13.1 HUA\_GN\_TRAFFIC\_GN\_IPV6\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
GNGP_IPV6_ID		VARCHAR2(50)	[M117440653] SGSN_ID & "/" & IPV6
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SWKJWJ6WC3C2JCKWE50LI24VMA	S117464713	NUMBER	[M117440653] S117464713
VSM2O36JHECNRSQE3TE5QDRVLU	S117464714	NUMBER	[M117440653] S117464714
XFBEA6FSA6B4FCBWHGL2N4433L	S117464715	NUMBER	[M117440653] S117464715
UIOVQMLOBXBO0B6AKR1IL6R3MQ	S117464716	FLOAT	[M117440653] S117464716
S1FE0QYLYNC6SSBWBG0K0AEPsm	S117464717	FLOAT	[M117440653] S117464717
YLG5ILJ05OBEWSIFS4NE0UWKKF	S117464718	FLOAT	[M117440653] S117464718
SPMAFPXXLTC34D6GG1LUJDJPDA	S117464719	FLOAT	[M117440653] S117464719
SCHNNAJ5EXBJLE1S4BV664GCR3	S117464720	FLOAT	[M117440653] S117464720
XKGL0DCNMKCJIDH2I4NY2RPPVB	S117464721	FLOAT	[M117440653] S117464721
S51IWVNLA2BNDRBJRFPPMC2YD1	S117464722	NUMBER	[M117440653] S117464722
XWKGRWVDRLCRFE4LJR U5F2B456	S117464723	NUMBER	[M117440653] S117464723
U5PKSC4KBFB4NER1BB4T TXF2D3	S117464724	NUMBER	[M117440653] S117464724
TRU0VCMD6ABEVCRWOY22SE5QSI	S117464725	FLOAT	[M117440653] S117464725
WN1J6UPDJHDBBETTSF0M	S117464726	FLOAT	[M117440653] S117464726

WG0XSY			
S3I3VTETYJCPIUETMVPFB QN445	S117464727	FLOAT	[M117440653] S117464727
YYJNAJL26YC2WCIQRYM UEBENTJ	S117464728	FLOAT	[M117440653] S117464728
RN5MELLLR3BJBBC5B3MO CUG0BM	S117464729	FLOAT	[M117440653] S117464729
RAUY026IU3CM4CMBG3M KH1HG1O	S117464730	FLOAT	[M117440653] S117464730

### 7.13.2 HUA\_IP\_TRAFFIC\_GN\_IPV6\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
GNGP_IPV6_ID		VARCHAR R2(50)	[M117440654] SGSN_ID & "/" & IPV6
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VFPF4FQSNJB1LSMLYKI YJ32W6H	S117464813	NUMBER	[M117440654] S117464813

## 7.14 Raw Heartbeat\_Channel Tables

### 7.14.1 HUA\_M117440684\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
HEARTBEAT_CHANNEL_I D		VARCHAR R2(50)	[M117440684] SGSN_ID & "/" & SGSNINDEX & "-" & CHUNNELINDEX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6RX3XA2AIRVH002I ND6WBG	S117471213	NUMBER	[M117440684] S117471213

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SAAN6S03XA2AIRVH002I ND6WBG	S117471214	NUMBER	[M117440684] S117471214
SAAN6S23XA2AIRVH002I ND6WBG	S117471215	NUMBER	[M117440684] S117471215

## 7.15 Raw IMSI Tables

### 7.15.1 HUA\_CDR\_SPECIFIC\_USER\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IMSI_ID		VARCHAR2(50)	[M117440514] SGSN_ID & "/" & IMSI
SGSN_ID		VARCHAR2(50)	[M117440514] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WAQJHUJF5WCLECHC2RIC RAT4QN	S117450813	NUMBER	[M117440514] S117450813
RE4LD6RO1BB3QDVHEYFA6 GUS2A	S117450814	NUMBER	[M117440514] S117450814
TKM0SQG2YMCA4ECK1G5G IV5PDF	S117450815	NUMBER	[M117440514] S117450815
YHYIPNVCVYBTDB1KWV2E NGNRQA	S117450816	NUMBER	[M117440514] S117450816
TIQFUNFBY2BAVU5NGEQX 4GN3YU	S117450817	NUMBER	[M117440514] S117450817
ULOWTUVH3VC2HC0QNL2J CMQRWK	S117450818	NUMBER	[M117440514] S117450818
SF4HIPXSAWCCCDKXH52U HP66NK	S117450819	NUMBER	[M117440514] S117450819

### 7.15.2 HUA\_M117440724\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IMSI_ID		VARCHAR2(50)	[M117440724] SGSN_ID & "/" & IMSI

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAANA2T3XA2AIRVH002I ND6WBG	S117474713	NUMBER	[M117440724] S117474713
SAANA2V3XA2AIRVH002I ND6WBG	S117474714	NUMBER	[M117440724] S117474714
SAANA2X3XA2AIRVH002I ND6WBG	S117474715	NUMBER	[M117440724] S117474715
SAANA303XA2AIRVH002I ND6WBG	S117474716	NUMBER	[M117440724] S117474716
SAANA323XA2AIRVH002I ND6WBG	S117474717	NUMBER	[M117440724] S117474717
SAANA343XA2AIRVH002I ND6WBG	S117474718	NUMBER	[M117440724] S117474718
SAANA363XA2AIRVH002I ND6WBG	S117474719	NUMBER	[M117440724] S117474719
SAANA3B3XA2AIRVH002I ND6WBG	S117474720	NUMBER	[M117440724] S117474720
SAANA3D3XA2AIRVH002I ND6WBG	S117474721	NUMBER	[M117440724] S117474721
SAANA3F3XA2AIRVH002I ND6WBG	S117474722	NUMBER	[M117440724] S117474722
SAANA3H3XA2AIRVH002I ND6WBG	S117474723	NUMBER	[M117440724] S117474723
SAANA3J3XA2AIRVH002I ND6WBG	S117474724	NUMBER	[M117440724] S117474724
SAANA3L3XA2AIRVH002I ND6WBG	S117474725	NUMBER	[M117440724] S117474725
SAANA3N3XA2AIRVH002I ND6WBG	S117474726	NUMBER	[M117440724] S117474726
SAANA3P3XA2AIRVH002I ND6WBG	S117474727	NUMBER	[M117440724] S117474727

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SAANA3R3XA2AIRVH002I ND6WBG	S117474728	NUMBER	[M117440724] S117474728
SAANA3T3XA2AIRVH002I ND6WBG	S117474729	NUMBER	[M117440724] S117474729
SAANA3V3XA2AIRVH002I ND6WBG	S117474730	NUMBER	[M117440724] S117474730
SAANA3X3XA2AIRVH002I ND6WBG	S117474731	NUMBER	[M117440724] S117474731
SAANA403XA2AIRVH002I ND6WBG	S117474732	NUMBER	[M117440724] S117474732
SAANA423XA2AIRVH002I ND6WBG	S117474733	NUMBER	[M117440724] S117474733
SAANA443XA2AIRVH002I ND6WBG	S117474734	NUMBER	[M117440724] S117474734
SAANA463XA2AIRVH002I ND6WBG	S117474735	NUMBER	[M117440724] S117474735
SAANA4B3XA2AIRVH002I ND6WBG	S117474736	NUMBER	[M117440724] S117474736
SAANA4D3XA2AIRVH002I ND6WBG	S117474737	NUMBER	[M117440724] S117474737
SAANA4F3XA2AIRVH002I ND6WBG	S117474738	NUMBER	[M117440724] S117474738
SAANA4H3XA2AIRVH002I ND6WBG	S117474739	NUMBER	[M117440724] S117474739
SAANA4J3XA2AIRVH002I ND6WBG	S117474740	NUMBER	[M117440724] S117474740

## 7.16 Raw IP\_Security Tables

### 7.16.1 HUA\_M117440722\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IP_SECURITY_ID		VARCHAR2(50)	[M117440722] SGSN_ID & "/" & SRN & "-" & SN
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

SAAN6YH3XA2AIRVH002I ND6WBG	S117474113	NUMBER	[M117440722] S117474113
SAAN6YJ3XA2AIRVH002I ND6WBG	S117474114	NUMBER	[M117440722] S117474114
SAAN6YL3XA2AIRVH002I ND6WBG	S117474115	NUMBER	[M117440722] S117474115
SAAN6YN3XA2AIRVH002I ND6WBG	S117474116	NUMBER	[M117440722] S117474116
SAAN6YP3XA2AIRVH002I ND6WBG	S117474117	NUMBER	[M117440722] S117474117
SAAN6YR3XA2AIRVH002I ND6WBG	S117474118	NUMBER	[M117440722] S117474118
SAAN6YT3XA2AIRVH002I ND6WBG	S117474119	NUMBER	[M117440722] S117474119
SAAN6YV3XA2AIRVH002I ND6WBG	S117474120	NUMBER	[M117440722] S117474120
SAAN6YX3XA2AIRVH002I ND6WBG	S117474121	NUMBER	[M117440722] S117474121
SAANA003XA2AIRVH002I ND6WBG	S117474122	NUMBER	[M117440722] S117474122
SAANA023XA2AIRVH002I ND6WBG	S117474123	NUMBER	[M117440722] S117474123
SAANA043XA2AIRVH002I ND6WBG	S117474124	NUMBER	[M117440722] S117474124
SAANA063XA2AIRVH002I ND6WBG	S117474125	NUMBER	[M117440722] S117474125
SAANA0B3XA2AIRVH002I ND6WBG	S117474126	NUMBER	[M117440722] S117474126
SAANA0D3XA2AIRVH002I ND6WBG	S117474127	NUMBER	[M117440722] S117474127
SAANA0F3XA2AIRVH002I ND6WBG	S117474128	NUMBER	[M117440722] S117474128

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SAANA0H3XA2AIRVH002I ND6WBG	S117474129	NUMBER	[M117440722] S117474129
SAANA0J3XA2AIRVH002I ND6WBG	S117474130	NUMBER	[M117440722] S117474130
SAANA0L3XA2AIRVH002I ND6WBG	S117474131	NUMBER	[M117440722] S117474131
SAANA0N3XA2AIRVH002I ND6WBG	S117474132	NUMBER	[M117440722] S117474132
SAANA0P3XA2AIRVH002I ND6WBG	S117474133	NUMBER	[M117440722] S117474133
SAANA0R3XA2AIRVH002I ND6WBG	S117474134	NUMBER	[M117440722] S117474134
SAANA0T3XA2AIRVH002I ND6WBG	S117474135	NUMBER	[M117440722] S117474135
SAANA0V3XA2AIRVH002I ND6WBG	S117474136	NUMBER	[M117440722] S117474136
SAANA0X3XA2AIRVH002I ND6WBG	S117474137	NUMBER	[M117440722] S117474137
SAANA103XA2AIRVH002I ND6WBG	S117474138	NUMBER	[M117440722] S117474138
SAANA123XA2AIRVH002I ND6WBG	S117474139	NUMBER	[M117440722] S117474139
SAANA143XA2AIRVH002I ND6WBG	S117474140	NUMBER	[M117440722] S117474140
SAANA163XA2AIRVH002I ND6WBG	S117474141	NUMBER	[M117440722] S117474141
SAANA1B3XA2AIRVH002I ND6WBG	S117474142	NUMBER	[M117440722] S117474142
SAANA1D3XA2AIRVH002I ND6WBG	S117474143	NUMBER	[M117440722] S117474143
SAANA1F3XA2AIRVH002I ND6WBG	S117474144	NUMBER	[M117440722] S117474144
SAANA1H3XA2AIRVH002I ND6WBG	S117474145	NUMBER	[M117440722] S117474145
SAANA1J3XA2AIRVH002I	S117474146	NUMBER	[M117440722] S117474146

ND6WBG			
SAANA1L3XA2AIRVH002I ND6WBG	S117474147	NUMBER	[M117440722] S117474147
SAANA1N3XA2AIRVH002I ND6WBG	S117474148	NUMBER	[M117440722] S117474148
SAANA1P3XA2AIRVH002I ND6WBG	S117474149	NUMBER	[M117440722] S117474149
SAANA1R3XA2AIRVH002I ND6WBG	S117474150	NUMBER	[M117440722] S117474150
SAANA1T3XA2AIRVH002I ND6WBG	S117474151	NUMBER	[M117440722] S117474151
SAANA1V3XA2AIRVH002I ND6WBG	S117474152	NUMBER	[M117440722] S117474152
SAANA1X3XA2AIRVH002I ND6WBG	S117474153	NUMBER	[M117440722] S117474153
SAANA203XA2AIRVH002I ND6WBG	S117474154	NUMBER	[M117440722] S117474154
SAANA223XA2AIRVH002I ND6WBG	S117474155	NUMBER	[M117440722] S117474155
SAANA243XA2AIRVH002I ND6WBG	S117474156	NUMBER	[M117440722] S117474156
SAANA263XA2AIRVH002I ND6WBG	S117474157	NUMBER	[M117440722] S117474157
SAANA2B3XA2AIRVH002I ND6WBG	S117474158	NUMBER	[M117440722] S117474158
SAANA2D3XA2AIRVH002I ND6WBG	S117474159	NUMBER	[M117440722] S117474159
SAANA2F3XA2AIRVH002I ND6WBG	S117474160	NUMBER	[M117440722] S117474160
SAANA2H3XA2AIRVH002I ND6WBG	S117474161	NUMBER	[M117440722] S117474161
SAANA2J3XA2AIRVH002I	S117474162	NUMBER	[M117440722] S117474162

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ND6WBG			
SAANA2L3XA2AIRVH002I ND6WBG	S117474163	NUMBER	[M117440722] S117474163
SAANA2N3XA2AIRVH002I ND6WBG	S117474164	NUMBER	[M117440722] S117474164
SAANA2P3XA2AIRVH002I ND6WBG	S117474165	NUMBER	[M117440722] S117474165
SAANA2R3XA2AIRVH002I ND6WBG	S117474166	NUMBER	[M117440722] S117474166

## 7.17 Raw M3UA\_Dest Tables

### 7.17.1 HUA\_M3UA\_DE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
M3UA_DEST_ID		VARCHAR2(100)	[M117440658] SGSN_ID & "/" & index
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
T2DMWBG5HIBWNCNLKFT LCDQQJ3	S117465213	NUMBER	[M117440658] S117465213
VAAIED13NQC31UPY3PGEF N1BHO	S117465214	NUMBER	[M117440658] S117465214

## 7.18 Raw M3UA\_Link Tables

### 7.18.1 HUA\_M3UA\_LINK\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
M3UA_LINK_ID		VARCHAR2(100)	[M117440656] SGSN_ID & "/" & SRN & "/" & SN & "-" & LN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TSVQ0UKAMXB4IU6VU63LX 1KIDK	S117465013	NUMBER	[M117440656] S117465013

XJYGXUEN1CC1FCX3FVW5 BHQNMK	S117465014	NUMBER	[M117440656] S117465014
TUWG5YYNWSCVQTJ05TLN SJ0X1W	S117465015	NUMBER	[M117440656] S117465015
RU2A16R0SUCUSEQELQY6U 2LG5Q	S117465016	NUMBER	[M117440656] S117465016
YAA3TEAUO4B6DDTAS0UJO LGFNB	S117465017	NUMBER	[M117440656] S117465017
TLXP3HIQ54B6AB2GY630AR M2V2	S117465018	NUMBER	[M117440656] S117465018
S6X4JEJ062B0EUBLKN3BC2O E0N	S117465019	NUMBER	[M117440656] S117465019
S0UU0VRHXQBNEDQOATD NUHHGQD	S117465020	NUMBER	[M117440656] S117465020
SNTWP2NDK6BCWEB3RU10 IIXASE	S117465021	NUMBER	[M117440656] S117465021
VPJWRIFGH1CBORPLO543M EXWCV	S117465018_1174650 20	NUMBER	[M117440656] S117465018 + S117465020

## 7.19 Raw M3UA\_LinkSet Tables

### 7.19.1 HUA\_M3UA\_LINK\_SET\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
M3UA_LINKSET_ID		VARCHAR R2(100)	[M117440657] SGSN_ID & "/" & index
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SYQ205B6IOCACBIMXTRDV PAHTS	S117465113	NUMBER	[M117440657] S117465113
RG14ADE1KACSKC5CVW25P IEJPV	S117465114	NUMBER	[M117440657] S117465114

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TDT36E6EVRCP6DX4RYTXYPEAUM	S117465115	NUMBER	[M117440657] S117465115
TQK522YM3VCFJBNTKKADL1T2CR	S117465116	NUMBER	[M117440657] S117465116
WVFKLTNNXDCQ1CTVCFGCH5ENBW	S117465117	NUMBER	[M117440657] S117465117
TD231IBD6OCUGBJWCL3NH YQL4P	S117465118	NUMBER	[M117440657] S117465118

## 7.20 Raw MTP3\_Link Tables

### 7.20.1 HUA\_MTP3\_LINK\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MTP3_LINK_ID		VARCHAR2(100)	[M117440623] SGSN_ID & "/" & LSX & "/" & SRN & "-" & SN & "-" & LNK
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XV6PJB0OGE4WBH632LD4LJTH	S117461713	NUMBER	[M117440623] S117461713
UNXBAPXGJTBSJC0AQR60DKTSJH	S117461714	NUMBER	[M117440623] S117461714
XJDM5MU3J6BUYT22KFE4BF14AC	S117461715	NUMBER	[M117440623] S117461715
RPTBV3TQJHBC1R6XBMET12TCD3	S117461716	NUMBER	[M117440623] S117461716
V46H0V2MAOBCVBA0ADRF RSOOIH	S117461717	NUMBER	[M117440623] S117461717
XYBWUHOH6C6TUVJJD505X1UVX	S117461718	NUMBER	[M117440623] S117461718
RS2VUQWTTECS5SHTBUVPD31M1P	S117461719	NUMBER	[M117440623] S117461719
UMU6SUFXP5BNND4WSRTOXMY3S5	S117461720	NUMBER	[M117440623] S117461720
YAX00QPTSXCO5EVXTOR1	S117461721	NUMBER	[M117440623] S117461721

VI6TCB			
TDX54D4PNYC4PB1UONNV YUDISE	S117461722	NUMBER	[M117440623] S117461722
VOO5640CVXCAOCPCBGFCI P1BPS	S117461723	NUMBER	[M117440623] S117461723
UBW6TLAEHQCG1UT6YHK DPPVL2F	S117461724	NUMBER	[M117440623] S117461724
YDX5V0XJKCBP5E2JV1GIHE DF50	S117461725	NUMBER	[M117440623] S117461725
UHE1W0UGY4B3BTC0HFRX 5F5OXL	S117461726	NUMBER	[M117440623] S117461726
RGHAPGGL05C21CIIUHRCD BDLE6	S117461727	NUMBER	[M117440623] S117461727
TWNVW0TQHJCULTE5TNJIF 6YW31	S117461728	FLOAT	[M117440623] S117461728
TPWWYTF2X6BRPETSNEG2 1FJADE	S117461729	FLOAT	[M117440623] S117461729
SBJG6ICJ6VBARE2PB3RTET NOEH	S117461730	NUMBER	[M117440623] S117461730
VC52N1NWCABQXS2V2SQV HFP4QO	S117461731	NUMBER	[M117440623] S117461731
TO0JQN5LK1BRHCVBYWOH IHXX2A	S117461732	NUMBER	[M117440623] S117461732
YNXDH5AYFBCVJR2MQVG W2DA1DA	S117461733	NUMBER	[M117440623] S117461733
V3IJ1EBEANCKBRGPPJOWE A21CH	S117461724_1174617 25	NUMBER	[M117440623] S117461724 + S117461725
TL63XRWNY42AHC3LR02IN CNMDW	S117461734	NUMBER	[M117440623] S117461734
TL63XRYNY42AHC3LR02IN CNMDW	S117461735	NUMBER	[M117440623] S117461735
TL63XS1NY42AHC3LR02INC	S117461736	NUMBER	[M117440623] S117461736

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NMDW			
TL63XS3NY42AHC3LR02INC NMDW	S117461737	NUMBER	[M117440623] S117461737
SAAN6PL3XA2AIRVH002IND 6WBG	S117461738	NUMBER	[M117440623] S117461738
SAAN6PN3XA2AIRVH002IN D6WBG	S117461739	NUMBER	[M117440623] S117461739

## 7.21 Raw MTP3\_LinkPoint Tables

### 7.21.1 HUA\_MTP3\_DPC\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MTP3_LINKPOINT_ID		VARCHAR2(100)	[M117440625] SGSN_ID & "/" & DPX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YURGQX1UG4CFCRA2HXW 5KRTOLY	S117461913	NUMBER	[M117440625] S117461913
RPEY4AXUAIC2OS25MRSA KBNX6B	S117461914	NUMBER	[M117440625] S117461914

## 7.22 Raw MTP3\_LinkSet Tables

### 7.22.1 HUA\_MTP3\_LINK\_SET\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MTP3_LINKSET_ID		VARCHAR2(100)	[M117440624] SGSN_ID & "/" & LSX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XS5NY42AHC3LR02IN CNMDW	S117461817	NUMBER	[M117440624] S117461817
TL63XSANY42AHC3LR02IN CNMDW	S117461818	NUMBER	[M117440624] S117461818
TL63XSCNY42AHC3LR02IN	S117461819	NUMBER	[M117440624] S117461819

CNMDW			
TL63XSENY42AHC3LR02IN CNMDW	S117461820	NUMBER	[M117440624] S117461820
TL63XSGNY42AHC3LR02IN CNMDW	S117461821	FLOAT	[M117440624] S117461821
TL63XSINY42AHC3LR02INC NMDW	S117461822	FLOAT	[M117440624] S117461822
XB6LNLCTNS2AHCY4J02U AY1AG1	S117461815	NUMBER	[M117440624] S117461815
RLFNDU1TNT2AHCY4J02U AY1AG1	S117461816	NUMBER	[M117440624] S117461816
VBRW1XA4LBBMKDEGQF MA2J5DR6	S117461813	NUMBER	[M117440624] S117461813
SYS4EIW2QABXCUHPT6VL JN4F2V	S117461814	NUMBER	[M117440624] S117461814

## 7.23 Raw MTP3\_Route Tables

### 7.23.1 HUA\_M117440719\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MTP3_ROUTE_ID		VARCHAR2(50)	[M117440719] SGSN_ID & "/" & LABEL & "-" & LSX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6XN3XA2AIRVH002I ND6WBG	S117474213	NUMBER	[M117440719] S117474213
SAAN6XP3XA2AIRVH002I ND6WBG	S117474214	NUMBER	[M117440719] S117474214

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## 7.24 Raw MTP3B\_Link Tables

### 7.24.1 HUA\_MTP3B\_LINK\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MTP3B_LINK_ID		VARCHAR2(100)	[M117440546] SGSN_ID & "/" & LNK
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2MB6BFACSB2JCEFYCAS FKTQHX	S117454013	NUMBER	[M117440546] S117454013
SXOVWJKNO6B3DEXGH3H 2YOYP5Q	S117454014	NUMBER	[M117440546] S117454014
TXRPHF3RVIBC3DUFN31T WX3WH0	S117454015	NUMBER	[M117440546] S117454015
RATS34S3OPCHFUIXKK21 DWFVE	S117454016	NUMBER	[M117440546] S117454016
U45FV0IBF3CVFUNDYNX5 DX1JX	S117454017	NUMBER	[M117440546] S117454017
WCV4SA4BPVB2VSCGF2VR LIFXGL	S117454018	NUMBER	[M117440546] S117454018
WQVRM6NO26CKQBIFHT65 LWSW5S	S117454019	NUMBER	[M117440546] S117454019
UOOILQNYDCK0UJ4A14A1 GDVST	S117454020	NUMBER	[M117440546] S117454020
UW5GCLVH1ECIPEHUTREU IFOKVE	S117454021	NUMBER	[M117440546] S117454021
XNGAA140TRBHESB2UW1 URHUNLC	S117454022	NUMBER	[M117440546] S117454022
R5RX33HHRYBRVBQ2XU6C 1N0W4G	S117454023	NUMBER	[M117440546] S117454023
RLDJLJJWSVCQGCDUAYD RKEUL6F	S117454024	NUMBER	[M117440546] S117454024
XSYPD1BUNHBTKR5J4VJR 6JKTWS	S117454025	NUMBER	[M117440546] S117454025
VRGKOYYEW4CGNCVEBR	S117454026	NUMBER	[M117440546] S117454026

K6KB1IJ3			
UOX1NLY6IICIBBOO5VIHX PDK56	S117454027	FLOAT	[M117440546] S117454027
W5GAI3DL5FC4ECRF5VHX MLVYQW	S117454028	FLOAT	[M117440546] S117454028
SFSPWJH102BABRQSV6UU BN6QAB	S117454021_11745402 2	NUMBER	[M117440546] S117454021 +S117454022

#### 7.24.2 HUA\_SAAL\_SGSN\_LINK\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MTP3B_LINK_ID		VARCHAR R2(100)	[M117440549] SGSN_ID & "/" & LNK
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XGLEC3UN2FCFSRYFHDBU 3BFBC	S117454313	NUMBER	[M117440549] S117454313
TJ3I4UWQMBBBD2L22H5 YOUS	S117454314	NUMBER	[M117440549] S117454314
UDV5MED2SECKYECQB0YC IOCRC4	S117454315	NUMBER	[M117440549] S117454315
XAOCEOXHRCBFJCTCH00W QURMJH	S117454316	NUMBER	[M117440549] S117454316
YIRETPMQIJCUOU0V4USK1 2L6TN	S117454317	NUMBER	[M117440549] S117454317
VHUGIM1WG3BHWUKPQ5A LQYI51X	S117454318	NUMBER	[M117440549] S117454318
XX4EBFSJU1C0CSJXY0MHM STNW0	S117454319	NUMBER	[M117440549] S117454319
WDN4LYE3EKBXXCDYM03 QTPT63N	S117454320	NUMBER	[M117440549] S117454320

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UGVAGNDYJEBW3DIPLVUB W3FQHW	S117454321	NUMBER	[M117440549] S117454321
VMAGD3VPXLCL3CBG2KC V3GBFCU	S117454322	NUMBER	[M117440549] S117454322

## 7.25 Raw MTP3B\_LinkSet Tables

### 7.25.1 HUA\_MTP3B\_LINK\_SET\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MTP3B_LINKSET_ID		VARCHAR R2(100)	[M117440547] SGSN_ID & "/" & LSX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
X0MMGIW1T6BYETM4KDV 5X0K4Y1	S117454113	NUMBER	[M117440547] S117454113
U2MRNIVOIBBQACCFWK V0VR20J	S117454114	NUMBER	[M117440547] S117454114

## 7.26 Raw MTP3B\_Point Tables

### 7.26.1 HUA\_MTP3B\_DCP\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MTP3B_POINT_ID		VARCHAR R2(100)	[M117440548] SGSN_ID & "/" & DPX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XLQUOV1NLCCT6CRRP03 NDW25GD	S117454213	NUMBER	[M117440548] S117454213
UPXTOJH5KRCQDU0444FJT U5A1R	S117454214	NUMBER	[M117440548] S117454214

## 7.27 Raw MVNO Tables

### 7.27.1 HUA\_GB\_ATTACH\_MVNO\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440633] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR2(50)	[M117440633] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WB0H1HX1IOCRFSBBGLKV E5YCQR	S117462713	NUMBER	[M117440633] S117462713
XOMR6TYI2TB6VTWO0C5O WYYJOW	S117462714	NUMBER	[M117440633] S117462714
SWKDW0SG1BC6BUBRD0L6 3TTK6G	S117462715	NUMBER	[M117440633] S117462715
XTED2E5F2EB6PEMUURBN D6RUUE	S117462716	NUMBER	[M117440633] S117462716

### 7.27.2 HUA\_GB\_INTER\_SGSN\_RAU\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440635] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR2(50)	[M117440635] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
T4F5RQHGKVCC0CLDAOGF S3F16E	S117462913	NUMBER	[M117440635] S117462913
USCTERVWO2CX5DFMDM WDXISLG0	S117462914	NUMBER	[M117440635] S117462914

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**7.27.3 HUA\_GB\_INTRA\_SGSN\_RAU\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440634] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR2(50)	[M117440634] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VOMMP1JGB4CKHBFPJE32K3GMJD	S117462813	NUMBER	[M117440634] S117462813
U3U6CBI6FCC51R0T236AKU4J1C	S117462814	NUMBER	[M117440634] S117462814

**7.27.4 HUA\_GB\_PDP\_ACT\_MVNO\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440641] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR2(50)	[M117440641] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XWWFOVT3UUBFQB0D4U5FTR62VR	S117463513	NUMBER	[M117440641] S117463513
RIQHK2FDA5CH5TKEWHN1TQPD1G	S117463514	NUMBER	[M117440641] S117463514
SOSIOTNCBKBRYTQ2X12PT53R1P	S117463515	NUMBER	[M117440641] S117463515

**7.27.5 HUA\_GB\_RADIO\_RESOURCE\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440636] SGSN_ID & "/" & MVNO

SGSN_ID		VARCHAR2(50)	[M117440636] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TA0D13NO4TCUWBRVADB TDB4YBP	S117463013	NUMBER	[M117440636] S117463013

**7.27.6 HUA\_GB\_SM\_RES\_MVNO\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440642] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR2(50)	[M117440642] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YA1PLVIUCJBKLT46QYJINP DEFG	S117463613	NUMBER	[M117440642] S117463613
V6NO0IQMEOCJJCGK4F3GN MPKP1	S117463614	NUMBER	[M117440642] S117463614
UB1DOELCWBBV5S10DYD HMHX5VT	S117463615	NUMBER	[M117440642] S117463615
VUP6D1K3XRCGISY25VFT4 RRID1	S117463616	NUMBER	[M117440642] S117463616
S3HNEWCRJWB4SUGPAGH PLPPCF1	S117463617	NUMBER	[M117440642] S117463617

**7.27.7 HUA\_IU\_ATTACH\_MVNO\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440637] SGSN_ID & "/" & MVNO

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SGSN_ID		VARCHAR2(50)	[M117440637] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XWVSSCEXXBCFWC6VCF1 GSLTDDD	S117463113	NUMBER	[M117440637] S117463113
YT6O6MA4F1BAPT0B43OY YG3WVO	S117463114	NUMBER	[M117440637] S117463114
YARAR2XHPQBOHDJYGGA 06EUW0J	S117463115	NUMBER	[M117440637] S117463115
RJGSGBRQD5BC1BD2ABIJR MLRG5	S117463116	NUMBER	[M117440637] S117463116

#### 7.27.8 HUA\_IU\_INTER\_SGSN\_RAU\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440639] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR2(50)	[M117440639] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
Y3OGWKXQ3SCAETD46G1 2SEDRA	S117463313	NUMBER	[M117440639] S117463313
SYC65JJ5FPCE1RUICU6DP Q0QJB	S117463314	NUMBER	[M117440639] S117463314

#### 7.27.9 HUA\_IU\_INTRA\_SGSN\_RAU\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440638] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR2(50)	[M117440638] SGSN_ID
TSTAMP		DATE	

INSTANCE_ID		NUMBER	
WDL6BWPAQGBWGBRHNCU HHN6W6B	S117463213	NUMBER	[M117440638] S117463213
RIYVQ5QCPCN5SQG1VG3AE EOQX	S117463214	NUMBER	[M117440638] S117463214

**7.27.10HUA\_IU\_PDP\_ACT\_MVNO\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR R2(50)	[M117440643] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR R2(50)	[M117440643] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XBAFCLSYE5C64TXYXEHC JJOSTO	S117463713	NUMBER	[M117440643] S117463713
YGH3LYV0KBC3NRVYGC04 C6MBDI	S117463714	NUMBER	[M117440643] S117463714
Y556GYRAGMBUTEQFUMP 13W4QQX	S117463715	NUMBER	[M117440643] S117463715

**7.27.11HUA\_IU\_RADIO\_RES\_MVNO\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR R2(50)	[M117440640] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR R2(50)	[M117440640] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

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U3Y36UCQJNBLGD0NOJM DMB50FM	S117463413	NUMBER	[M117440640] S117463413
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### 7.27.12HUA\_IU\_SM\_RES\_MVNO\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
MVNO_ID		VARCHAR2(50)	[M117440644] SGSN_ID & "/" & MVNO
SGSN_ID		VARCHAR2(50)	[M117440644] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W0GNYJPFAYCGEC26OLIK GXGYMH	S117463813	NUMBER	[M117440644] S117463813
YGRA5A6TUBCIWBKF6CA1 DPBUQN	S117463814	NUMBER	[M117440644] S117463814
WLAYFB0XTXCU1SF1ED62 RCQ5SC	S117463815	NUMBER	[M117440644] S117463815
TCM00EP61BCGBSYBYS21J F4RNO	S117463816	NUMBER	[M117440644] S117463816
UTRDDEUM1FBBVUDLO6B RYXY0HO	S117463817	NUMBER	[M117440644] S117463817

## 7.28 Raw NSE Tables

### 7.28.1 HUA\_BSSGP\_SPECIFIC\_NSE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
NSE_ID		VARCHAR2(50)	[M117440525] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VR54IFOKNTCXWUU4JKPU Q0U6KW	S117451913	NUMBER	[M117440525] S117451913
W6AKBLC32VBNSBBJJH3QII 5EWA	S117451914	NUMBER	[M117440525] S117451914

RJEAQTRJB44BPEI6O3AQ MAEE	S117451915	NUMBER	[M117440525] S117451915
UNT2HKC1HABEXDKNT6U6 OSFE3H	S117451916	NUMBER	[M117440525] S117451916
YMTGP1MCDBBGKEKBMVI Q0X0NDN	S117451917	NUMBER	[M117440525] S117451917
XJ6YFEOKS1BG1UUC5WVB HMB33W	S117451918	NUMBER	[M117440525] S117451918
RQGVTW3FDTCWDBJER53N 3S32GH	S117451919	NUMBER	[M117440525] S117451919
XB05SQLS6TCOFUUSN2VFK 0QIRB	S117451920	NUMBER	[M117440525] S117451920

### 7.28.2 HUA\_NS\_SPECIFIC\_NSE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
NSE_ID		VARCHAR R2(50)	[M117440524] SGSN_ID & "/" & NSEI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6463XA2AIRVH002IND 6WBG	S117451819	FLOAT	[M117440524] S117451819
SAAN64B3XA2AIRVH002IND 6WBG	S117451820	FLOAT	[M117440524] S117451820
UJTPNKMFWBLXB6BPHW BY1XH1U	S117451813	NUMBER	[M117440524] S117451813
VU51SABUOWCP2CQX3QHY QLNC6F	S117451814	NUMBER	[M117440524] S117451814
Y12EAKGQKXBDAS44VMR0 MMWV5B	S117451815	NUMBER	[M117440524] S117451815
V5LQQ34O0LBT5TBQAS3YG X6W33	S117451816	NUMBER	[M117440524] S117451816

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RRHARK2K2SCGER1TF0QO XGL0QK	S117451817	NUMBER	[M117440524] S117451817
U0TBOQ56X2CA3ED3UHBQ QR0XTS	S117451818	NUMBER	[M117440524] S117451818

## 7.29 Raw NSVC Tables

### 7.29.1 HUA\_NS\_SPECIFIC\_NSVC\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
NSVC_ID		VARCHAR2(50)	[M117440523] SGSN_ID & "/" & NSVCI
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WXYBSTOKHEC2QEYQDTS SDIM1G	S117451713	NUMBER	[M117440523] S117451713
YC31RLDKABBGIBXQUOAG AYMV4O	S117451714	NUMBER	[M117440523] S117451714
XDWNESRFCUBGMD6EYLJ0 Y1BWS3	S117451715	NUMBER	[M117440523] S117451715
XU04VXGNH2C6WUMT0WA0 MVXFHB	S117451716	NUMBER	[M117440523] S117451716
VM4OVMSBYPBVGB56ISJTT QFH0I	S117451717	NUMBER	[M117440523] S117451717
SBUVDDBAEIQBAFBPQFF4OP 15SF0	S117451718	NUMBER	[M117440523] S117451718
VTU4TTLAPFBVWTX1QGH DPEMTV	S117451719	NUMBER	[M117440523] S117451719
X36HKXLQXECEAEN4TORS DJ230Q	S117451720	NUMBER	[M117440523] S117451720
VG23WIEAOVBXTD3EELBN Q0FPJA	S117451721	NUMBER	[M117440523] S117451721
SKHHIURXQTBRPRMMIVTU RNSR3Q	S117451722	NUMBER	[M117440523] S117451722
V01IIWAVQRCIVEKH1SK6C NWLAW	S117451723	NUMBER	[M117440523] S117451723

XP0FBBQMPNBPYC5AIOLM UNWRST	S117451724	NUMBER	[M117440523] S117451724
V5HACC1FW6CF1UDV5QQQ CYMOXJ	S117451725	NUMBER	[M117440523] S117451725
YMSFJYNVHLBYBT2GS06UP SKAPL	S117451726	NUMBER	[M117440523] S117451726
USVEQ64HUAC0URSAL00WR G3GL4	S117451727	NUMBER	[M117440523] S117451727
XWMNUMTV52BDTRM0HMR WSOL56I	S117451725_1174517 27	NUMBER	[M117440523] S117451725 + S117451727
RXOXQMDCQOBGRDRXEFK KGQ03HQ	S117451728	NUMBER	[M117440523] S117451728
W5F6YV3SP6BXXCPQGFUYP IULED	S117451729	NUMBER	[M117440523] S117451729
WRCP33PAFUBXLCO4EIVDI4 0BTR	S117451730	NUMBER	[M117440523] S117451730
TVVSQOA2WECMWR1GSXK N3FL034	S117451731	NUMBER	[M117440523] S117451731
Y3GG4UFT5NCHKUTXXHOE BUTRC1	S117451732	NUMBER	[M117440523] S117451732
SAAN6443XA2AIRVH002IND 6WBG	S117451733	NUMBER	[M117440523] S117451733

## 7.30 Raw NSVC\_IP Tables

### 7.30.1 HUA\_NS\_IP\_NSVC\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
NSVC_IP_ID		VARCHAR R2(50)	[M117440669] SGSN_ID & "/" & NSVCID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

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U0V4R0FKCBBHTE36PI4HO MU1DJ	S117466313	NUMBER	[M117440669] S117466313
T3MXC3XPHTBFIUS5JBHF5 G4KF6	S117466314	NUMBER	[M117440669] S117466314
WFBUI21DIOBGSEE1I5M2M 5EW1K	S117466315	NUMBER	[M117440669] S117466315
WPQYCJHUO1BFDROXSAJ GVC1SMO	S117466316	NUMBER	[M117440669] S117466316
SO3ESDMBGCBK0EWXQQI 0E0GFEI	S117466317	NUMBER	[M117440669] S117466317
UGBF6QDLE4CHMR0TRO4C YCBHAX	S117466318	NUMBER	[M117440669] S117466318
RWLV3V5SE6BSRTU4TT6B EMH4HJ	S117466319	NUMBER	[M117440669] S117466319
VGTP2E3B5NC1CE1XHVTR C5MHRN	S117466320	NUMBER	[M117440669] S117466320

## 7.31 Raw RNC Tables

### 7.31.1 HUA\_RELOCATION\_RNC\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BSC_ID		VARCHAR R2(50)	[M117440582] SGSN_ID & "/" & RNCX
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WD0LQI54YPB35E5RQXDFY JFXVU	S117457613	NUMBER	[M117440582] S117457613
SHRDTW3BKSCAOENO3VD 3HONF3I	S117457614	NUMBER	[M117440582] S117457614
VY2TXQT4SMC66TINHA5UF AT5CG	S117457615	NUMBER	[M117440582] S117457615
TEEXIIYH0NC3URJVQEV1W QOI1X	S117457616	NUMBER	[M117440582] S117457616
Y3VDA55SPKC6XB3ICMPY QMKNKJ	S117457617	NUMBER	[M117440582] S117457617

UAJX3DH2Q4BUACGNTUNBK162G5	S117457618	NUMBER	[M117440582] S117457618
WRNOO4JSV6B5BR6ONA3II4REVK	S117457619	NUMBER	[M117440582] S117457619
T0CRVRI0RCB5ND34JC0OMCOELP	S117457620	NUMBER	[M117440582] S117457620
WUI5JIQKHCCB6T3ICRCLB1O3OG	S117457621	NUMBER	[M117440582] S117457621
SRFWFLXWRTBGMEJ4MMSW20XTA3	S117457622	NUMBER	[M117440582] S117457622
U1A3TC2NFACUUR5NLT11EYPHTS	S117457623	NUMBER	[M117440582] S117457623
X0OFX3Y5SDCOPBIQXDRIVBIIV6	S117457624	NUMBER	[M117440582] S117457624

## 7.32 Raw Routing\_Area Tables

### 7.32.1 HUA\_GB\_INTER\_RAU\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[M117440565] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TODB0PB0A0CRWBAEH61URHUXTQ	S117455913	NUMBER	[M117440565] S117455913
VM0QGVS6JTC1EUTGYTUURRTUY1	S117455914	NUMBER	[M117440565] S117455914
RJTNYOI0AWC45E5VCOIGV065GL	S117455915	NUMBER	[M117440565] S117455915
XU4Q02IRYACJ5EUCQF6M525M1D	S117455916	NUMBER	[M117440565] S117455916

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XFOIW460L6BM5C4XRNG3TRE3IY	S117455917	NUMBER	[M117440565] S117455917
SYX6QT4ADHBH0SAUP6R6BNCIFD	S117455918	NUMBER	[M117440565] S117455918
Y2QDJTVW2UBXTCFONFSNR1MD1R	S117455919	NUMBER	[M117440565] S117455919
WFWYESHSXSC4YEUCPKMXV34K3B	S117455920	NUMBER	[M117440565] S117455920
XT02WY32KMBSFDPPY6FU2AT2W2	S117455921	NUMBER	[M117440565] S117455921
UHX212DCAUBAHB33TVEJWCHU4I	S117455922	NUMBER	[M117440565] S117455922
Y6I0TBQ5SNBUQBI5HSV5LNOY34	S117455923	NUMBER	[M117440565] S117455923
UUKRTSF1QLBIKBQYF5PCQ44KK5	S117455924	NUMBER	[M117440565] S117455924
T5RDRA1YLWCBOSLXA5JVHRCCVO	S117455925	NUMBER	[M117440565] S117455925
XONP1YG16SCGPCCO0FT14VP2SK	S117455926	NUMBER	[M117440565] S117455926
UAPFEDVKPSCMCU4WKP1TJWYG3J	S117455927	NUMBER	[M117440565] S117455927
XYIY2T1AGLCNGTIXDPQPS64PFS	S117455928	NUMBER	[M117440565] S117455928
RJ0KSSK2FXCA6T5NCYRTISTQMT	S117455929	NUMBER	[M117440565] S117455929
XDIMR5F5LOC3QUSTKFJFCE2RQA	S117455930	NUMBER	[M117440565] S117455930
S66L4NCTSMCNDTYG63WBDKT23Y	S117455931	NUMBER	[M117440565] S117455931
X56QJPVJLBEBHGLW132Y3GIGK	S117455932	NUMBER	[M117440565] S117455932
VJYG63OY5JC3FB41JBBYWQGQMC	S117455933	NUMBER	[M117440565] S117455933
TGBGX51Q5PC3XUM0X4UE	S117455934	NUMBER	[M117440565] S117455934

50VMCL			
TK3BDXHHCWBLTT0G33XI 44E20W	S117455935	NUMBER	[M117440565] S117455935
RLB6YRFAH0B1QR6XTJUM EVNUJJ	S117455936	NUMBER	[M117440565] S117455936
YYSORR3QO4B0GDNCT5XY 6XSUVU	S117455937	NUMBER	[M117440565] S117455937
SOQXAF5PBNCGDD133AUF GOTO1W	S117455938	NUMBER	[M117440565] S117455938
UFT5HTKB52CTJTM01QN4C 135V4	S117455939	NUMBER	[M117440565] S117455939
T4TKH3YV0DBVJCHRYHON QM4G4J	S117455940	NUMBER	[M117440565] S117455940
WTE0BMOC65CFFTDA42FC 0S5HV3	S117455941	NUMBER	[M117440565] S117455941
SAAN6F63XA2AIRVH002IN D6WBG	S117455944	NUMBER	[M117440565] S117455944
SAAN6FB3XA2AIRVH002IN D6WBG	S117455945	NUMBER	[M117440565] S117455945
SAAN6FD3XA2AIRVH002IN D6WBG	S117455946	NUMBER	[M117440565] S117455946
WEY2H0IVWR2AIR02B04U3 BMV6J	S117455942	NUMBER	[M117440565] S117455942
WEY2H0KVWR2AIR02B04U 3BMV6J	S117455943	NUMBER	[M117440565] S117455943

### 7.32.2 HUA\_GB\_INTRA\_RAU\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR R2(50)	[M117440564] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	

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INSTANCE_ID		NUMBER	
S5GDFEG4KVC3YDXLCRA5E KVTR0	S117455813	NUMBER	[M117440564] S117455813
UUDAC1TUU5CAABUU6AW1 61T20K	S117455814	NUMBER	[M117440564] S117455814
RHT4PSILGUCXKCGBBHMV PO2VRC	S117455815	NUMBER	[M117440564] S117455815
V0OT1SUYN6CN2SBGBAGC0 V0YAM	S117455816	NUMBER	[M117440564] S117455816
WKFHWNJRJ1B60ENQMIF54 1CINI	S117455817	NUMBER	[M117440564] S117455817
SQAKS5X1IUCL6C6LY5CD3V N1GX	S117455818	NUMBER	[M117440564] S117455818
VVIYN1XPACCAUB4YE1RE M1WON5	S117455819	NUMBER	[M117440564] S117455819
UOASL5CRNGBSGEV3PJ5MO Q2FXO	S117455820	NUMBER	[M117440564] S117455820
UUTKMRK3AHCAQERTOAF E121L3	S117455821	NUMBER	[M117440564] S117455821
YHM1L2GTKCBP2BN1O2SFF J3RTT	S117455822	NUMBER	[M117440564] S117455822
R2RSRQEAIYB6RB3VS1E1AP EEQN	S117455823	NUMBER	[M117440564] S117455823
V0VL46MJUNCBQSG24K5QP 4BUHB	S117455824	NUMBER	[M117440564] S117455824
UDS4RPK66XBOSB2L6G0IGK F0RW	S117455825	NUMBER	[M117440564] S117455825
VNV2NUAPNHBIDSK4PWPBI IG2VI	S117455826	NUMBER	[M117440564] S117455826
VBWLBAHSEGCNHCE13M55 2TO5U2	S117455827	NUMBER	[M117440564] S117455827
UG0AA3TSKVC2AURMRK6D P4QRYK	S117455828	NUMBER	[M117440564] S117455828
TW152QIWMNCOCD6TR0AE VXIFS3	S117455829	NUMBER	[M117440564] S117455829

UX6Y0VJSNFB66RXT04RAN ASISA	S117455830	NUMBER	[M117440564] S117455830
W2WNAHKS1UBYABXQG3U EVKQCD2	S117455831	NUMBER	[M117440564] S117455831
YDWYP0NA2MCILBTD2HDJ NADID4	S117455832	NUMBER	[M117440564] S117455832
UVN2S5PQT1BX6B1QG3NRK 2OA1W	S117455833	NUMBER	[M117440564] S117455833
UVCKP2IPYYBEP5WCT0X JEMQR	S117455834	NUMBER	[M117440564] S117455834
RUTNALRSG6CAWR6ULWTJ AEAM2T	S117455835	NUMBER	[M117440564] S117455835
WF2PV0PI5KCM4D15CWKEA 0O5VT	S117455836	NUMBER	[M117440564] S117455836
SFRX5VAKBLBXYDCAPAGU 1D1DJ4	S117455837	NUMBER	[M117440564] S117455837

### 7.32.3 HUA\_GB\_MODE\_ATTACH\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR R2(50)	[M117440562] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SWXYM4J5W1C4SBGULI6VO H5TSK	S117455613	NUMBER	[M117440562] S117455613
VXBU4FYGSUCA2ENBMJAV 03UECW	S117455614	NUMBER	[M117440562] S117455614
VINLJSKUNOC10UR4UBEQ0S J2H5	S117455615	NUMBER	[M117440562] S117455615
WMOPSDOHOCBM3UT2JYLP IJ2V26	S117455616	NUMBER	[M117440562] S117455616

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VOX3MHBTYUC6DTAP2FFH POD10M	S117455617	NUMBER	[M117440562] S117455617
XSQXLS662BB2ASTMSSMTI K4NM6	S117455618	NUMBER	[M117440562] S117455618
UYVL5INTAMBOISIJRRKPM CR05L	S117455619	NUMBER	[M117440562] S117455619
WJES5YVMYTCMNS3F44RM VERYOJ	S117455620	NUMBER	[M117440562] S117455620
TQ4PA05O55CNHTV6TCB0F3 BXLQ	S117455621	NUMBER	[M117440562] S117455621
RMY3WN5TIQBAYTXI5JM4I C6QUI	S117455622	NUMBER	[M117440562] S117455622
WXOFUMTXX2CG4CFLCIL3S 4LWVL	S117455623	NUMBER	[M117440562] S117455623
V334IA4RDYBXCC22EFFXAQ U34K	S117455624	NUMBER	[M117440562] S117455624
RXSIEJBXJKBLSCSWW5FCQ DSHBI	S117455625	NUMBER	[M117440562] S117455625
W00S6BYVSLCN1EDBXVDT6 N5TTA	S117455626	NUMBER	[M117440562] S117455626
VSXMSYGHY2BV3RUWSDQ VJWOLOK	S117455627	NUMBER	[M117440562] S117455627
SNCSI2BLYLCVYUTI2R312G RV0K	S117455628	NUMBER	[M117440562] S117455628
RQ1NDHPL45CXGRLFLSN4N DVMFS	S117455629	NUMBER	[M117440562] S117455629
VWUPR0SI5CB4YU550LYGG RTOJS	S117455630	NUMBER	[M117440562] S117455630
STCC4RC5X1B2FDD2JLESGN S3AL	S117455631	NUMBER	[M117440562] S117455631
UTYBLPKQFHCQRS6MALRY 2JSUKF	S117455632	NUMBER	[M117440562] S117455632
RYNLM6LGGHB0WBXFXYFT DEGW0U	S117455633	NUMBER	[M117440562] S117455633
YIVR5C25GNBSWEDFKMNF	S117455634	NUMBER	[M117440562] S117455634

VJ2YCF			
R1BSJ5P0KEB1IE4ACHV3JLS 0O3	S117455635	NUMBER	[M117440562] S117455635
SFBVULK1IQC2RB1RTRJYFX NNAP	S117455636	NUMBER	[M117440562] S117455636
URQ1KJ5RYUC5IDX5JBXH6U ORBQ	S117455637	NUMBER	[M117440562] S117455637
SPDA6OBHW1CR6DTQWME AGK44OK	S117455638	NUMBER	[M117440562] S117455638
STGGJXYH6CCSUTJCYMBFH THTDL	S117455639	NUMBER	[M117440562] S117455639
TUBRT10WXGCUECRKOEL6 E6AMEG	S117455640	NUMBER	[M117440562] S117455640
VOJ0STAQGRBM2C0JLAU6G KTUEL	S117455641	NUMBER	[M117440562] S117455641
XDLXUDTQ1DB5HS0XDJ0AL TONGJ	S117455642	NUMBER	[M117440562] S117455642
TJEDNFABEPCKAUKBNLBK FTK3GV	S117455643	NUMBER	[M117440562] S117455643
WPF2VLI03QCKUECLAD0SA H2UVW	S117455644	NUMBER	[M117440562] S117455644
W4YSIBYILSCI3BF5FGHCYK KXAT	S117455645	NUMBER	[M117440562] S117455645
RCUIDVIRJTBQMCOMODIW UXH3UX	S117455646	NUMBER	[M117440562] S117455646
R2T4WMC3DDBMPT530DVH O33LRD	S117455647	NUMBER	[M117440562] S117455647
SC4YBWH6V1BMNTKPERJTJ 3LMRH	S117455648	NUMBER	[M117440562] S117455648
XNF3DF13MTCKSMYBAQK BNXMEA	S117455649	NUMBER	[M117440562] S117455649
RXEW4JMV5OBHGCGETELCS	S117455650	NUMBER	[M117440562] S117455650

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4G36BN			
SAAN6F43XA2AIRVH002IND 6WBG	S117455651	NUMBER	[M117440562] S117455651

#### 7.32.4 HUA\_GB\_MODE\_DETACH\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[M117440563] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SLNAPC0HJLBWWT4JKPNB HQDMVX	S117455713	NUMBER	[M117440563] S117455713
UPUAIEULCFCM3S6B1V3CP AJL0X	S117455714	NUMBER	[M117440563] S117455714
YVX1RSBIT1CDJRXAMFXP SNLXOT	S117455715	NUMBER	[M117440563] S117455715
UMFWLJLKPGBMJDVKIQK T14R3AU	S117455716	NUMBER	[M117440563] S117455716
RDJ0WEC1QHBJRPSVXG3 AO0MVD	S117455717	NUMBER	[M117440563] S117455717
Y6CHAJBICHBHMC1GO2B BQKB5P	S117455718	NUMBER	[M117440563] S117455718
XXJ3QLM4L2CJXCQXVPAN LT5JPP	S117455719	NUMBER	[M117440563] S117455719

#### 7.32.5 HUA\_GB\_MODE\_PAGE\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[M117440566] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UG61JKL121CPVR0WAI5M EKJNCC	S117456013	NUMBER	[M117440566] S117456013

S0TAPA3FENB2MCQKDFN JFJDSOQ	S117456014	NUMBER	[M117440566] S117456014
WEY2H0MVWR2AIR02B04 U3BMV6J	S117456015	NUMBER	[M117440566] S117456015
WEY2H0OVWR2AIR02B04 U3BMV6J	S117456016	NUMBER	[M117440566] S117456016
WEY2H0QVWR2AIR02B04 U3BMV6J	S117456017	NUMBER	[M117440566] S117456017

### 7.32.6 HUA\_GB\_MODE\_RADIO\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR R2(50)	[M117440567] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XPYNY42AHC3LR02I NCNMDW	S117456115	NUMBER	[M117440567] S117456115
SAAN6FF3XA2AIRVH002IN D6WBG	S117456116	FLOAT	[M117440567] S117456116
SAAN6FH3XA2AIRVH002I ND6WBG	S117456117	FLOAT	[M117440567] S117456117
RLC36TPBD6B0GELRSRIW 4SSU3S	S117456113	NUMBER	[M117440567] S117456113
WKCGKN06UPCCWC14XI3 FPGILNG	S117456114	NUMBER	[M117440567] S117456114

### 7.32.7 HUA\_GB\_MODE\_SM\_RES\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR R2(50)	[M117440648] SGSN_ID & "/" & LAC & "-" & RAC

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TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VJO1RHI060CDEU2ND21 OT363CM	S117464213	NUMBER	[M117440648] S117464213

### 7.32.8 HUA\_INTER\_SWITCH\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[M117440588] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XKJEF0MSC3BCCECE50YS EEQJW4	S117458213	NUMBER	[M117440588] S117458213
VNSHCN5NNHCHSCGI2IH4 YV5QPW	S117458214	NUMBER	[M117440588] S117458214
WQJX0ATNL3C6MRYD1SI VV1NJO0	S117458215	NUMBER	[M117440588] S117458215
UOSCS6IONNBRLCV3A1K1 6RV541	S117458216	NUMBER	[M117440588] S117458216

### 7.32.9 HUA\_IU\_INTER\_RAU\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[M117440586] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W63OF04GPICE3BOQX4WUA KCA4X	S117458013	NUMBER	[M117440586] S117458013
VABBVEE1M5CWVC562JPU2 OVOHD	S117458014	NUMBER	[M117440586] S117458014
T22MSJXHDPCCSD205PVOUE 6TTJ	S117458015	NUMBER	[M117440586] S117458015

Y3UW0QPM1IB0WTYQP5F6U QFQPB	S117458016	NUMBER	[M117440586] S117458016
V1QM5HS2H1BRRR5KK0FF2K IQSR	S117458017	NUMBER	[M117440586] S117458017
WOJ1JDWCPKCFVUMX3TNEL TXQWS	S117458018	NUMBER	[M117440586] S117458018
TE4AM6ECHXC2ABS6UC2ER O6MDA	S117458019	NUMBER	[M117440586] S117458019
XRSYJP0HOPBM2EITS6NUMA XMG0	S117458020	NUMBER	[M117440586] S117458020
Y2M4DVQW1WCDOEOP6TTY I3VYNM	S117458021	NUMBER	[M117440586] S117458021
TX00S140I4BCECOHTOESX2X OA5	S117458022	NUMBER	[M117440586] S117458022
X64DD4AIQEBNKCTIRE4FE1 OOOJ	S117458023	NUMBER	[M117440586] S117458023
XBC2MVG3YEBS6C21KRFXU 3VE1F	S117458024	NUMBER	[M117440586] S117458024
T4F45WFT61BEUCJOQLUSEP HY1R	S117458025	NUMBER	[M117440586] S117458025
RTEAQP152ACVRTBFOONP0 VUUW4	S117458026	NUMBER	[M117440586] S117458026
YB4W6M6BYKBQWEQQ5QXT ULTJHE	S117458027	NUMBER	[M117440586] S117458027
YAP6BDAEA0BTYBOAT43UQ 32XAI	S117458028	NUMBER	[M117440586] S117458028
TK6QXI3H5CCV4UPHIXFL5VF SUC	S117458029	NUMBER	[M117440586] S117458029
V0A1UJNMQ4CJH DUURIBESR 2MGR	S117458030	NUMBER	[M117440586] S117458030
YOONRTSPGPB NESUJPKWLH M6BNM	S117458031	NUMBER	[M117440586] S117458031

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X33A3LHLK1CM3TLOGWC3H YSDLY	S117458032	NUMBER	[M117440586] S117458032
R2N2UK3KDACGCCV1TE3QI N1F0O	S117458033	NUMBER	[M117440586] S117458033
RXI352DG6LB15RXQRQCRM5 EJ4A	S117458034	NUMBER	[M117440586] S117458034
UHCXJFTTMBCLADWMURU MHHRUVQ	S117458035	NUMBER	[M117440586] S117458035
RJX5BH6LTKCPBRKPRALILO LWPF	S117458036	NUMBER	[M117440586] S117458036
VIWJL0IBV4BFNCN44CJKCD3 B6M	S117458037	NUMBER	[M117440586] S117458037
RMJFSVJKYBC22RB3XIAT36E GPX	S117458038	NUMBER	[M117440586] S117458038
WHALMDGMIQBNNDT02YPY 32ALPF	S117458039	NUMBER	[M117440586] S117458039
SAAN6KJ3XA2AIRVH002IND6 WBG	S117458042	NUMBER	[M117440586] S117458042
SAAN6KL3XA2AIRVH002IND 6WBG	S117458043	NUMBER	[M117440586] S117458043
SAAN6KN3XA2AIRVH002IND 6WBG	S117458044	NUMBER	[M117440586] S117458044
SAAN6KP3XA2AIRVH002IND6 WBG	S117458045	NUMBER	[M117440586] S117458045
SAAN6KR3XA2AIRVH002IND 6WBG	S117458046	NUMBER	[M117440586] S117458046
WEY2H1CVWR2AIR02B04U3B MV6J	S117458040	NUMBER	[M117440586] S117458040
WEY2H1EVWR2AIR02B04U3B MV6J	S117458041	NUMBER	[M117440586] S117458041

#### 7.32.10HUA\_IU\_INTRA\_RAU\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHA R2(50)	[M117440585] SGSN_ID & "/" & LAC & "-" & RAC

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UON26R63OABXLB4TG3CR SJXUVU	S117457913	NUMBER	[M117440585] S117457913
Y610016FTCB1AT1GVRIVTH QR3A	S117457914	NUMBER	[M117440585] S117457914
YU53OQS3YNCLEUDSLKYL GQY1AK	S117457915	NUMBER	[M117440585] S117457915
TW10MWF41PCODRIK614R 2K2LBI	S117457916	NUMBER	[M117440585] S117457916
WCMMQUJPP6CV1UQE1NU XJH4RLT	S117457917	NUMBER	[M117440585] S117457917
RX03PP2Y05CJDEJTA6FCYC UUUD	S117457918	NUMBER	[M117440585] S117457918
Y03LYC0LAUCXTUWW43IY PCK2M1	S117457919	NUMBER	[M117440585] S117457919
U1J03LSWXKBG0B6J3SA652 OQFX	S117457920	NUMBER	[M117440585] S117457920
Y3TERRAQEJBC1D1YGTIQ QIRPYN	S117457921	NUMBER	[M117440585] S117457921
S13FFEL0INBIKUKL5SKYO ANRJS	S117457922	NUMBER	[M117440585] S117457922
YBU33FAY4XC1TS4V1TLRO XMWDW	S117457923	NUMBER	[M117440585] S117457923
V4V0B4M46BCAHEC6NJPPF K5VW4	S117457924	NUMBER	[M117440585] S117457924
XLJFC6M0BQC6VROW6CFB D3EK54	S117457925	NUMBER	[M117440585] S117457925
S6RKA35TW6CXODJMDX2G BQMSRP	S117457926	NUMBER	[M117440585] S117457926
RMFV6VJNWHCE2TYLHTX 426AFQ6	S117457927	NUMBER	[M117440585] S117457927

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VW53KDU5TGBIHUK0BYFP 6332BE	S117457928	NUMBER	[M117440585] S117457928
XVY3XQ05YHB0YRABM1G 0WUTIM5	S117457929	NUMBER	[M117440585] S117457929
UWY6VS5OASB0ETIQPKEIC MLBCS	S117457930	NUMBER	[M117440585] S117457930
URWIGTQYXFALRVABG5 3C2ROBI	S117457931	NUMBER	[M117440585] S117457931
VTPUYWIVEVCFJCQAW1G LYRBSFR	S117457932	NUMBER	[M117440585] S117457932
UGR4WXSTSPCETSJSV6Y5T XRD0V	S117457933	NUMBER	[M117440585] S117457933
WOX0LH4IQKBBPSW4XLS3 IU1CJA	S117457934	NUMBER	[M117440585] S117457934
YCAJCJNOEBBOOSH0CEA3 TF1110	S117457935	NUMBER	[M117440585] S117457935
SAAN6KF3XA2AIRVH002IN D6WBG	S117457936	NUMBER	[M117440585] S117457936
SAAN6KH3XA2AIRVH002IN D6WBG	S117457937	NUMBER	[M117440585] S117457937

### 7.32.11HUA\_IU\_MODE\_ATTACH\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR R2(50)	[M117440583] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
U53N211NUICWGDOUXKBPQ 5MG6V	S117457713	NUMBER	[M117440583] S117457713
VXVJNSCDVUBERETAP1FRH OK03B	S117457714	NUMBER	[M117440583] S117457714
VAFVGC6PC0BB4DM1WCJ0H FPTVU	S117457715	NUMBER	[M117440583] S117457715
WG0R5E4CHFCU5CENV4AQL	S117457716	NUMBER	[M117440583] S117457716

R4S26			
X233HJ0CMHCW2TVNVCSWQ 4XWYA	S117457717	NUMBER	[M117440583] S117457717
VYVUMMKVX1B20TQNIGAO 5IHL3X	S117457718	NUMBER	[M117440583] S117457718
X6RTKMRFBPBCOD2JIBFEVK L2DH	S117457719	NUMBER	[M117440583] S117457719
WQQ3WBQV2KBMMBKSPN K0PDXWM	S117457720	NUMBER	[M117440583] S117457720
XIENB2Q25UC6MD5UNQ6NG K5KTC	S117457721	NUMBER	[M117440583] S117457721
WJPCQD3G4BCGXCFDQPNKP EGNUB	S117457722	NUMBER	[M117440583] S117457722
SKE5KNHN5PCRVRABIXKYJ ROX3E	S117457723	NUMBER	[M117440583] S117457723
UGWK0RKOTDCR1U4B00F6X SQ5FG	S117457724	NUMBER	[M117440583] S117457724
SCLS6PCH4KCNERMVDF2JEO UIMP	S117457725	NUMBER	[M117440583] S117457725
VYBURH5QENC46BBNI050P3 VXKC	S117457726	NUMBER	[M117440583] S117457726
U3TEGKV2OABHMC A0D53H6 6WRNY	S117457727	NUMBER	[M117440583] S117457727
WXYQ40HJWPCHWEF2OFG5D KMLGA	S117457728	NUMBER	[M117440583] S117457728
Y4KTX2QIBYBA4RHX2BFBJU K1AD	S117457729	NUMBER	[M117440583] S117457729
VVUHBFRSUACKMDD1SC3G6 RSH1E	S117457730	NUMBER	[M117440583] S117457730
S63KGWLJUIBR3DHUIFO5ME 5YYA	S117457733	NUMBER	[M117440583] S117457733
XKFN4XCLIKBFRD5CC5CWJD	S117457734	NUMBER	[M117440583] S117457734

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PLFQ			
S46RSYFN41BCQUECA05R10 W162	S117457735	NUMBER	[M117440583] S117457735
VS1TJWH06KCXHREAMF6FA NM3SL	S117457736	NUMBER	[M117440583] S117457736
W0OYTOP2V3BSRC0LEDKXT OXVEF	S117457731	NUMBER	[M117440583] S117457731
W6DNO20E01BRLB4QJEOE1S EI41	S117457732	NUMBER	[M117440583] S117457732
WV5C0VMYBSC2SCH0B3VN0 JMWC5	S117457737	NUMBER	[M117440583] S117457737
VTCBCGVV1BBDJT42HLQSSO W21F	S117457738	NUMBER	[M117440583] S117457738
RJXRQFXOF3BJIT5C3Q6Y4YF OQF	S117457739	NUMBER	[M117440583] S117457739
USM5TJDECCCYMURABMPG 3XPCEU	S117457740	NUMBER	[M117440583] S117457740
TU4QVYUOMTBQXB5OPUP1E 15H6O	S117457741	NUMBER	[M117440583] S117457741
UAO163HBTYCW1UJVG4RWX 5N6OP	S117457742	NUMBER	[M117440583] S117457742
YQEV4BABJ5BSNDCM63JH1L 3F43	S117457743	NUMBER	[M117440583] S117457743
YUORNKJERCB55DC4W6HDK OEEXC	S117457744	NUMBER	[M117440583] S117457744
UL3USYAA32CAHR3HC2XA05 6LMP	S117457745	NUMBER	[M117440583] S117457745
SJISX0CNKUBK0UBSPT00HFI H51	S117457746	NUMBER	[M117440583] S117457746
TO456M2WY2BOWR4V16IWK BGDGE	S117457747	NUMBER	[M117440583] S117457747
SAAN6K43XA2AIRVH002IND6 WBG	S117457748	NUMBER	[M117440583] S117457748
SAAN6K63XA2AIRVH002IND6 WBG	S117457749	NUMBER	[M117440583] S117457749

SAAN6KB3XA2AIRVH002IND 6WBG	S117457750	NUMBER	[M117440583] S117457750
SAAN6KD3XA2AIRVH002IND 6WBG	S117457751	NUMBER	[M117440583] S117457751

**7.32.12HUA\_IU\_MODE\_DETACH\_RAI\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR R2(50)	[M117440584] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XLDV4S2EHNCRGSWH5PIND OR2WD	S117457813	NUMBER	[M117440584] S117457813
RHAAAVJSSCHNBBKBYNP EQYXXB	S117457814	NUMBER	[M117440584] S117457814
UA1S6PNLHWB6NSHBQJAW2 NPCXU	S117457815	NUMBER	[M117440584] S117457815
WEFBRFMJDICJGR1G1GK2M TASH5	S117457816	NUMBER	[M117440584] S117457816
XMK5SLFFDNBK1RSLA1CEG 6FUPW	S117457817	NUMBER	[M117440584] S117457817
YEOKKUNUESCWVCWBCDC THJ3NMM	S117457818	NUMBER	[M117440584] S117457818
U3XJDDSVJQBMUTNACK2 QYFDP2	S117457819	NUMBER	[M117440584] S117457819

**7.32.13HUA\_IU\_MODE\_PAGING\_RAI\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR R2(50)	[M117440589] SGSN_ID & "/" & LAC & "-" & RAC

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TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UOHR302QCCB5LE4QKJK NJK0YNK	S117458313	NUMBER	[M117440589] S117458313
YOA2I602A2B5MTPJYPNL QY02CX	S117458314	NUMBER	[M117440589] S117458314
WEY2H1GVWR2AIR02B04 U3BMV6J	S117458315	NUMBER	[M117440589] S117458315
WEY2H1IVWR2AIR02B04U 3BMV6J	S117458316	NUMBER	[M117440589] S117458316
WEY2H1KVWR2AIR02B04 U3BMV6J	S117458317	NUMBER	[M117440589] S117458317

#### 7.32.14HUA\_IU\_MODE\_RADIO\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHA R2(50)	[M117440590] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XQUNY42AHC3LR02IN CNMDW	S117458415	NUMBER	[M117440590] S117458415
SAAN6KT3XA2AIRVH002IN D6WBG	S117458416	FLOAT	[M117440590] S117458416
SAAN6KV3XA2AIRVH002IN D6WBG	S117458417	FLOAT	[M117440590] S117458417
YDU12VGOFWBTOQ61N6 LW0AOV	S117458413	NUMBER	[M117440590] S117458413
URPYK2A41MBXVE60QE5J M2A5V0	S117458414	NUMBER	[M117440590] S117458414

#### 7.32.15HUA\_IU\_MODE\_SERVICE\_RAI\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHA	[M117440587] SGSN_ID &

		R2(50)	"/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SFTN5YY14RBLFD6FXC3NF3 3QRN	S117458113	NUMBER	[M117440587] S117458113
U6KNLLARE5CJJRG5K4VCG DQLQH	S117458114	NUMBER	[M117440587] S117458114
YJDPN3DSPB5RDCIT4LVNB TBDT	S117458115	NUMBER	[M117440587] S117458115
YVNP5ASIG3BIRE45VTIELQ KREI	S117458116	NUMBER	[M117440587] S117458116
VXM3K4Q2T4CPDUCRF5NN3 4QA55	S117458117	NUMBER	[M117440587] S117458117
WBD24C2DUHBBUDFSCYM CDKHM3	S117458119	NUMBER	[M117440587] S117458119
VVDV4H5TNN2AHCY4J02UA Y1AG1	S117458118	NUMBER	[M117440587] S117458118

**7.32.16HUA\_IU\_MODE\_SM\_RES\_RAI\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHA R2(50)	[M117440649] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VBWLG1QPUCOMDAXCJF BRKPY1X	S117464313	NUMBER	[M117440649] S117464313

**7.32.17HUA\_SPECIFIC\_RA\_SM\_2G\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
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ROUTING_AREA_ID		VARCHA R2(50)	[M117440671] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6PT3XA2AIRVH002IND 6WBG	S117466521	NUMBER	[M117440671] S117466521
SAAN6PV3XA2AIRVH002IN D6WBG	S117466522	NUMBER	[M117440671] S117466522
SAAN6PX3XA2AIRVH002IN D6WBG	S117466523	NUMBER	[M117440671] S117466523
SAAN6Q03XA2AIRVH002IN D6WBG	S117466524	NUMBER	[M117440671] S117466524
SAAN6Q23XA2AIRVH002IN D6WBG	S117466525	NUMBER	[M117440671] S117466525
SAAN6Q43XA2AIRVH002IN D6WBG	S117466526	NUMBER	[M117440671] S117466526
SAAN6Q63XA2AIRVH002IN D6WBG	S117466527	NUMBER	[M117440671] S117466527
SAAN6QB3XA2AIRVH002IN D6WBG	S117466528	NUMBER	[M117440671] S117466528
SAAN6QD3XA2AIRVH002IN D6WBG	S117466529	NUMBER	[M117440671] S117466529
SAAN6QF3XA2AIRVH002IN D6WBG	S117466530	NUMBER	[M117440671] S117466530
SAAN6QH3XA2AIRVH002IN D6WBG	S117466531	NUMBER	[M117440671] S117466531
SAAN6QJ3XA2AIRVH002IND 6WBG	S117466532	NUMBER	[M117440671] S117466532
SAAN6QL3XA2AIRVH002IN D6WBG	S117466533	NUMBER	[M117440671] S117466533
SAAN6QN3XA2AIRVH002IN D6WBG	S117466534	NUMBER	[M117440671] S117466534
SAAN6QP3XA2AIRVH002IN D6WBG	S117466535	NUMBER	[M117440671] S117466535
SAAN6QR3XA2AIRVH002IN	S117466536	NUMBER	[M117440671] S117466536

D6WBG			
SAAN6QT3XA2AIRVH002IND6WBG	S117466537	NUMBER	[M117440671] S117466537
SAAN6QV3XA2AIRVH002IND6WBG	S117466538	NUMBER	[M117440671] S117466538
SAAN6QX3XA2AIRVH002IND6WBG	S117466539	NUMBER	[M117440671] S117466539
SAAN6R03XA2AIRVH002IND6WBG	S117466540	NUMBER	[M117440671] S117466540
SAAN6R23XA2AIRVH002IND6WBG	S117466541	NUMBER	[M117440671] S117466541
SAAN6R43XA2AIRVH002IND6WBG	S117466542	NUMBER	[M117440671] S117466542
SAAN6R63XA2AIRVH002IND6WBG	S117466543	NUMBER	[M117440671] S117466543
SAAN6RB3XA2AIRVH002IND6WBG	S117466544	NUMBER	[M117440671] S117466544
SAAN6RD3XA2AIRVH002IND6WBG	S117466545	NUMBER	[M117440671] S117466545
SAAN6RF3XA2AIRVH002IND6WBG	S117466546	NUMBER	[M117440671] S117466546
YH46100ULTBHMD06B46HYURREK	S117466513	NUMBER	[M117440671] S117466513
YH0Y2CTKHOB51RBEJNNHEHB3MU	S117466514	NUMBER	[M117440671] S117466514
YBR526AL5UBKJSVVQG3JEBHDHD	S117466515	NUMBER	[M117440671] S117466515
X0S5B4HE1RBRYE6AN1TBU2KFI2	S117466516	NUMBER	[M117440671] S117466516
UQEB4QI0TOBMSDLNOWOF4OABMM	S117466517	NUMBER	[M117440671] S117466517
TRJNFBVTWQCBMTXFNUU	S117466518	NUMBER	[M117440671] S117466518

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OG5EICS			
VKOE05Y6DMC2CSVQ2VEO RKKNDR	S117466519	NUMBER	[M117440671] S117466519
UJH1IIMTBLKCD5SYXVROJV EXADH	S117466520	NUMBER	[M117440671] S117466520

### 7.32.18HUA\_SPECIFIC\_RA\_SM\_3G\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[M117440689] SGSN_ID & "/" & LAC & "-" & RAC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6T43XA2AIRVH002I ND6WBG	S117470913	NUMBER	[M117440689] S117470913
SAAN6T63XA2AIRVH002I ND6WBG	S117470914	NUMBER	[M117440689] S117470914
SAAN6TB3XA2AIRVH002I ND6WBG	S117470915	NUMBER	[M117440689] S117470915
SAAN6TD3XA2AIRVH002I ND6WBG	S117470916	NUMBER	[M117440689] S117470916
SAAN6TF3XA2AIRVH002I ND6WBG	S117470917	NUMBER	[M117440689] S117470917
SAAN6TH3XA2AIRVH002I ND6WBG	S117470918	NUMBER	[M117440689] S117470918
SAAN6TJ3XA2AIRVH002I ND6WBG	S117470919	NUMBER	[M117440689] S117470919
SAAN6TL3XA2AIRVH002I ND6WBG	S117470920	NUMBER	[M117440689] S117470920
SAAN6TN3XA2AIRVH002I ND6WBG	S117470921	NUMBER	[M117440689] S117470921
SAAN6TP3XA2AIRVH002I ND6WBG	S117470922	NUMBER	[M117440689] S117470922
SAAN6TR3XA2AIRVH002I ND6WBG	S117470923	NUMBER	[M117440689] S117470923

SAAN6TT3XA2AIRVH002I ND6WBG	S117470924	NUMBER	[M117440689] S117470924
SAAN6TV3XA2AIRVH002I ND6WBG	S117470925	NUMBER	[M117440689] S117470925
SAAN6TX3XA2AIRVH002I ND6WBG	S117470926	NUMBER	[M117440689] S117470926
SAAN6U03XA2AIRVH002I ND6WBG	S117470927	NUMBER	[M117440689] S117470927
SAAN6U23XA2AIRVH002I ND6WBG	S117470928	NUMBER	[M117440689] S117470928
SAAN6U43XA2AIRVH002I ND6WBG	S117470929	NUMBER	[M117440689] S117470929
SAAN6U63XA2AIRVH002I ND6WBG	S117470930	NUMBER	[M117440689] S117470930
SAAN6UB3XA2AIRVH002I ND6WBG	S117470931	NUMBER	[M117440689] S117470931
SAAN6UD3XA2AIRVH002I ND6WBG	S117470932	NUMBER	[M117440689] S117470932
SAAN6UF3XA2AIRVH002I ND6WBG	S117470933	NUMBER	[M117440689] S117470933
SAAN6UH3XA2AIRVH002I ND6WBG	S117470934	NUMBER	[M117440689] S117470934
SAAN6UJ3XA2AIRVH002I ND6WBG	S117470935	NUMBER	[M117440689] S117470935
SAAN6UL3XA2AIRVH002I ND6WBG	S117470936	NUMBER	[M117440689] S117470936
SAAN6UN3XA2AIRVH002I ND6WBG	S117470937	NUMBER	[M117440689] S117470937
SAAN6UP3XA2AIRVH002I ND6WBG	S117470938	NUMBER	[M117440689] S117470938
SAAN6UR3XA2AIRVH002I ND6WBG	S117470939	NUMBER	[M117440689] S117470939

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SAAN6UT3XA2AIRVH002I ND6WBG	S117470940	NUMBER	[M117440689] S117470940
SAAN6UV3XA2AIRVH002I ND6WBG	S117470941	NUMBER	[M117440689] S117470941
SAAN6UX3XA2AIRVH002I ND6WBG	S117470942	NUMBER	[M117440689] S117470942
SAAN6V03XA2AIRVH002I ND6WBG	S117470943	NUMBER	[M117440689] S117470943
SAAN6V23XA2AIRVH002I ND6WBG	S117470944	NUMBER	[M117440689] S117470944
SAAN6V43XA2AIRVH002I ND6WBG	S117470945	NUMBER	[M117440689] S117470945
SAAN6V63XA2AIRVH002I ND6WBG	S117470946	NUMBER	[M117440689] S117470946
SAAN6VB3XA2AIRVH002I ND6WBG	S117470947	NUMBER	[M117440689] S117470947
SAAN6VD3XA2AIRVH002I ND6WBG	S117470948	NUMBER	[M117440689] S117470948
SAAN6VF3XA2AIRVH002I ND6WBG	S117470949	NUMBER	[M117440689] S117470949
SAAN6VH3XA2AIRVH002I ND6WBG	S117470950	NUMBER	[M117440689] S117470950
SAAN6VJ3XA2AIRVH002I ND6WBG	S117470951	NUMBER	[M117440689] S117470951
SAAN6VL3XA2AIRVH002I ND6WBG	S117470952	NUMBER	[M117440689] S117470952
SAAN6VN3XA2AIRVH002I ND6WBG	S117470953	NUMBER	[M117440689] S117470953
SAAN6VP3XA2AIRVH002I ND6WBG	S117470954	NUMBER	[M117440689] S117470954
SAAN6VR3XA2AIRVH002I ND6WBG	S117470955	NUMBER	[M117440689] S117470955
SAAN6VT3XA2AIRVH002I ND6WBG	S117470956	NUMBER	[M117440689] S117470956

## 7.33 Raw SGSN Tables

### 7.33.1 HUA\_ADMF\_MESS\_LI\_USER\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440646] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TGN30H4FB3BJEC0W6A2NJ2 JHDY	S117464013	NUMBER	[M117440646] S117464013
W2VBVMXIJBBERFU56XMO MIEGMSA	S117464014	NUMBER	[M117440646] S117464014
TPX02G4ADLBR5SYPJH0XQ I06VI	S117464015	NUMBER	[M117440646] S117464015
XMHDOCNRDEBDFD4CTHV J5WNERE	S117464016	NUMBER	[M117440646] S117464016
YB0WTNW1TCBMBR3F041R VTI6HW	S117464017	NUMBER	[M117440646] S117464017

### 7.33.2 HUA\_ALARMS\_SENT\_TO\_ADMF\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440645] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SB51NV0Y4BCK1EJC1LV3BG AMUJ	S117463913	NUMBER	[M117440645] S117463913
RRNFKP12DTBU0SOP6TXDO VE6F5	S117463914	NUMBER	[M117440645] S117463914
T1UVSN6DWOBBO5P5A4BU DP0SM0	S117463915	NUMBER	[M117440645] S117463915

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WFFISFWX34CX5TE3OHXAU 13ITY	S117463916	NUMBER	[M117440645] S117463916
Y1CD1OO2TNC40TC1YWNB Y50GUD	S117463917	NUMBER	[M117440645] S117463917
TMMBURIM0MCALC6GUUH VX4GPP2	S117463918	NUMBER	[M117440645] S117463918
WTJ36OBASMC5R330NAKM FT1R0	S117463919	NUMBER	[M117440645] S117463919
UJQ5N1HSSQBMISVCA32NY QEIPU	S117463920	NUMBER	[M117440645] S117463920
WIVICWDVKIBFSR2QWKPN AFM1NY	S117463921	NUMBER	[M117440645] S117463921
YDNOGF6HYOBM3DIWVQ63 YOSQ0H	S117463922	NUMBER	[M117440645] S117463922
Y61J01ATYWB0QEPUXWVA KSJJU1	S117463923	NUMBER	[M117440645] S117463923
TVL36DWAVQBFBSQCAG0 0RDUUK	S117463924	NUMBER	[M117440645] S117463924
RCABFHYY5PBHMTSRSQ64S SPGDM	S117463925	NUMBER	[M117440645] S117463925
XH12HUY6SKC2PE3DILB2RX H5KR	S117463926	NUMBER	[M117440645] S117463926
X0MKT2VMYYCXRKNUPH XHATP5N	S117463927	NUMBER	[M117440645] S117463927
X6OUL0A1XHCS3RBTC4W6 WGLUID	S117463928	NUMBER	[M117440645] S117463928

### 7.33.3 HUA\_BSSAP\_BASIC\_TRAFFIC\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440608] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W60UM46SP0CVVRRHDYCM	S117460213	NUMBER	[M117440608] S117460213

ON4V4Y			
SNNEE2RBWPB1RR3P0OWQ CWSXHL	S117460214	NUMBER	[M117440608] S117460214
WBMDFC54DQB3RCSAKCUG 544UKR	S117460215	NUMBER	[M117440608] S117460215
SSEQEOOX6OB5WUBM0C060 JRJL5	S117460216	NUMBER	[M117440608] S117460216
UDEDUAC2OWC62BR0DN1T O2QSIG	S117460217	NUMBER	[M117440608] S117460217
SXL655T4IHBXXU1WY35XAS QK3J	S117460218	NUMBER	[M117440608] S117460218
RHXQ5XARGRC1BE1JFY3HU HRKKL	S117460219	NUMBER	[M117440608] S117460219
RS4H14T1HQCCCEUQPIBFXQ DJLV	S117460220	NUMBER	[M117440608] S117460220
YU5DXKN6MABXFCAIOO6V N6KC43	S117460221	NUMBER	[M117440608] S117460221
Y6FOVHWUEUCCDS1L60LLO Y56AB	S117460222	NUMBER	[M117440608] S117460222
YPEQL11D2XBDSB1YJW3Y14 1BCT	S117460223	NUMBER	[M117440608] S117460223
VO6V3T4T0JCUND41F4X4NR OW3K	S117460224	NUMBER	[M117440608] S117460224
RL41HY46GPCB4EK63WS05SJ S1M	S117460225	NUMBER	[M117440608] S117460225
TG4H2DMNNWBUXB0H1HNS 6RBU6D	S117460226	NUMBER	[M117440608] S117460226
ST0VNI2BXPC41T6M15PDCL0 UWS	S117460227	NUMBER	[M117440608] S117460227
VMCBFGXBYFBK3R5HWND M5GFWV5	S117460228	NUMBER	[M117440608] S117460228
VU6MQ15FGWBUSRW3GB1O	S117460229	NUMBER	[M117440608] S117460229

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QSYT25			
XQ01ME2KPMBN3TGVYMAP 5QEDGJ	S117460230	NUMBER	[M117440608] S117460230
SYHVPQW0LMBIMTNV2NY5 WFWQDV	S117460231	NUMBER	[M117440608] S117460231
Y2H4YL4AJEBL1TDJNINRGU 3BAE	S117460232	NUMBER	[M117440608] S117460232
SWVICIKB6JCMMSNCHPANJ JADQG	S117460233	NUMBER	[M117440608] S117460233
V1KFIK6SAIBRFEGWOGUFQH RHP00	S117460234	NUMBER	[M117440608] S117460234
VAKBLW0046CWPTEE4RFVK CV1L5	S117460235	NUMBER	[M117440608] S117460235
YC0XICEP3UBFYCUNTJDISK 2AXD	S117460236	NUMBER	[M117440608] S117460236
VOQMNLW0LFCDGRHLAVS GXBM4QY	S117460237	NUMBER	[M117440608] S117460237

#### 7.33.4 HUA\_BSSAP\_ERR\_TIMEOUT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440609] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6OT3XA2AIRVH002IN D6WBG	S117460321	NUMBER	[M117440609] S117460321
SAAN6OV3XA2AIRVH002IN D6WBG	S117460322	NUMBER	[M117440609] S117460322
T53MDNTJXACGCD3NMBQS IW45Y6	S117460313	NUMBER	[M117440609] S117460313
REU6QIGCKMBHKBTTJ4QDE NAPQG	S117460314	NUMBER	[M117440609] S117460314
RFJQVON35UBHGR4T0MWQ HBMPWI	S117460315	NUMBER	[M117440609] S117460315

WR6OW4MLLNCTRUOLHW CE5VEP6Q	S117460316	NUMBER	[M117440609] S117460316
XHY4LA0PPIB4KTS5K02GLG MORM	S117460317	NUMBER	[M117440609] S117460317
Y5WMGIOSW2C33UGXR4M XEQX1YL	S117460318	NUMBER	[M117440609] S117460318
XKI1J0XDRMBOTRK4XESNI FWOGT	S117460319	NUMBER	[M117440609] S117460319
RLFPTFRAOEC4VSGIT3TAU X6GU0	S117460320	NUMBER	[M117440609] S117460320

### 7.33.5 HUA\_CAMEL\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440627] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XLACIJU1BDBFUCJ065DDL MOKJ6	S117462113	NUMBER	[M117440627] S117462113
XICQYPYNKVB1TDS1BBML JAGFLV	S117462114	NUMBER	[M117440627] S117462114
WNLEEKNNBR3B22D45HCAS ENI43O	S117462115	NUMBER	[M117440627] S117462115
W4VRUYBNCVBTWTVJ45S MV1K6OL	S117462116	NUMBER	[M117440627] S117462116
UNK0UJPCUFBEKUN6E31HS 5WJYI	S117462117	NUMBER	[M117440627] S117462117
VCXETK65GXCX2DGHA2VB OSEJO2	S117462118	NUMBER	[M117440627] S117462118
WHH2CRR6BHCLCDP42DIW HQRA3Q	S117462119	NUMBER	[M117440627] S117462119

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VPKAAJ54RGCPOEAQV5YTS GSU12	S117462120	NUMBER	[M117440627] S117462120
YS3VPU4UETBBNDRXR2KL 1K2KNK	S117462121	NUMBER	[M117440627] S117462121
YG4I04UMEYBRSCX0CYRPP NBUSJ	S117462122	NUMBER	[M117440627] S117462122
TEKGMFE1JLCFGBLNKSBT VCRS5Q	S117462123	NUMBER	[M117440627] S117462123
UYEKWD33TVCBRUPME1N MTE2BRI	S117462124	NUMBER	[M117440627] S117462124
Y5BTOJ3GM4CG0DFUVM5U Q23WGO	S117462125	NUMBER	[M117440627] S117462125
UBDQGBVPIBBDIRHWMQW 6L6IUHU	S117462126	NUMBER	[M117440627] S117462126
R6KF0XGUHRBSPUYN5FBK VGTNEN	S117462127	NUMBER	[M117440627] S117462127
UTHM3S6FHTC62RM0NLDS2 U6RJS	S117462128	NUMBER	[M117440627] S117462128
Y6WH12EKXHCTFCTTVD1P V03EBH	S117462129	NUMBER	[M117440627] S117462129
XAH6ENFJRUBH6EPELE1NX UKWEJ	S117462130	NUMBER	[M117440627] S117462130
UA0HJEVQENCBCSNV1YBL H6XGHR	S117462131	NUMBER	[M117440627] S117462131
VSSJXT5P6BJIULYWMTWV OKFFG	S117462132	NUMBER	[M117440627] S117462132
UQT1DNKXNLB06CUDMAUJ G0FJ3P	S117462133	NUMBER	[M117440627] S117462133
TDNJYHILNLCNWDGRE4RR 4CHA5C	S117462134	NUMBER	[M117440627] S117462134
YU1N5QGNXYC65UKN0XT1 CB0PN2	S117462135	NUMBER	[M117440627] S117462135
SKF6SU2NL2C36EHX6W4CY 1S5GK	S117462136	NUMBER	[M117440627] S117462136
SN24TDI2NLBOLBTHRSCEJ	S117462137	NUMBER	[M117440627] S117462137

M5FRV			
RJ1YV3NCOXBCVCP1ONVH VISRBW	S117462138	NUMBER	[M117440627] S117462138
TN0O13BIROB0ODEJ01M1M1 Q6F2	S117462139	NUMBER	[M117440627] S117462139
WY2XH3IP6NBAPEB2H3JPQ AMKQ3	S117462140	NUMBER	[M117440627] S117462140
YOV1OCQHWOB0MD5F1RC6 MGB35E	S117462141	NUMBER	[M117440627] S117462141
SIEGCXDNV3C6NDHKD4UD V4JO2E	S117462142	NUMBER	[M117440627] S117462142
SNX2LCDF4JCUUTP04J0AC1 BCLF	S117462143	NUMBER	[M117440627] S117462143
UBGV4E6WDDCS2RR4SV3O NVUJNO	S117462144	NUMBER	[M117440627] S117462144
WYU3KD3U2EBQDRUGO3G1 TQTURQ	S117462145	NUMBER	[M117440627] S117462145
TC3LOWIP3QC6JCWKPRY3I QH0TT	S117462146	NUMBER	[M117440627] S117462146
YNH0OQ0UECCGBDNXXNE 4QGQ4EE	S117462147	NUMBER	[M117440627] S117462147
SBIDOJGWW2CLVUJYRUSF LS3VOC	S117462148	NUMBER	[M117440627] S117462148
UMO1Q1PTVSCXCUDPSEQG VFEG1F	S117462149	NUMBER	[M117440627] S117462149
TXWODR1LJWCLOS4XT4M0 NY3XRW	S117462150	NUMBER	[M117440627] S117462150
UAHA3ECHFBC4BRAG0CPBJ EK3WY	S117462151	NUMBER	[M117440627] S117462151
V0PM1OPHJRCM2S5MY3KN VUP5BH	S117462152	NUMBER	[M117440627] S117462152
YSI1FPEAO3BXARBSVE2JX	S117462153	NUMBER	[M117440627] S117462153

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H0F1N			
XOHQEUX0YCQYUXD2RP G5T3XQ6	S117462154	NUMBER	[M117440627] S117462154
TWJWYGUVHTBHYCLD6YV FRQ3S1W	S117462155	NUMBER	[M117440627] S117462155
XCO5SBSAULBD4U1ADAYC NHJPKS	S117462156	NUMBER	[M117440627] S117462156
VKIHD02F14BTIECGMPRTK RWMII	S117462157	NUMBER	[M117440627] S117462157
WF2PUCX0YRBRUUUNGLQ CT1MLVF	S117462158	NUMBER	[M117440627] S117462158
YIJ6UBA6AWBKLCDK14VFI FHK1S	S117462159	NUMBER	[M117440627] S117462159
SMXBU0IDRKCRVU0FTWA1 H2HSG6	S117462160	NUMBER	[M117440627] S117462160
RESVRC5CHAC0IRYCI3VYW HLA11	S117462161	NUMBER	[M117440627] S117462161
SSPXIATIUGB5TUAM0F1SJ0 FX0J	S117462162	NUMBER	[M117440627] S117462162
XOG5KCRDXTBVKC0FF3NG CBSKIW	S117462163	NUMBER	[M117440627] S117462163
U6UY0VU6XBCIGSHQ5GDCI OEXPF	S117462164	NUMBER	[M117440627] S117462164
RPACYBY1H5B3BROIC2BOV 4D2YM	S117462165	NUMBER	[M117440627] S117462165

### 7.33.6 HUA\_GB\_MODE\_ATTACH\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440551] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W5OCC0RE6LB5MUV53A646 B4GQG	S117454513	NUMBER	[M117440551] S117454513

UB5AJREC0YCF3RXBYXXL PWL42A	S117454514	NUMBER	[M117440551] S117454514
XC5KOS50MYBLSS45E3II0K BIXV	S117454515	NUMBER	[M117440551] S117454515
XP40YTNREUCWGB5IWYU WJSOTIC	S117454545	NUMBER	[M117440551] S117454545
REF1PCHC10BLCBH0V43LD YIJKF	S117454546	NUMBER	[M117440551] S117454546
XKU62AYLLRCL0SICUFW00 BAHIO	S117454516	NUMBER	[M117440551] S117454516
TXE0EEGKEUCCFCQMO5SI WOL6L0	S117454517	NUMBER	[M117440551] S117454517
XL6W45BAJ1B2YE1JJYOM00 R5DF	S117454518	NUMBER	[M117440551] S117454518
YADS3CARHLBBHR5VKKE MAA5SLC	S117454519	NUMBER	[M117440551] S117454519
UBSK4SVFYBWRRTYLS QTTR1RT	S117454520	NUMBER	[M117440551] S117454520
XSIBOQ4EWDBPFDTFIGY6K LOCQU	S117454521	NUMBER	[M117440551] S117454521
YB24HWPVVRBVJEJFUMP6 F543I	S117454522	NUMBER	[M117440551] S117454522
VSXDLIIPG1B26E4AM3F503 QIQJ	S117454523	NUMBER	[M117440551] S117454523
RA4FWCO3LVBARCSFHKB0 KSRNQY	S117454524	NUMBER	[M117440551] S117454524
TWUXIAWPOGBVHE0H65K HSRGTD5	S117454525	NUMBER	[M117440551] S117454525
VYSR3PJ16QB62UQA0Y16F1 VLAO	S117454547	NUMBER	[M117440551] S117454547
VTQSCCR31ACCRTDY1SGJC 6DSGL	S117454548	NUMBER	[M117440551] S117454548

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WOJLRPDMY4BA2UYYN0 N0V5GQ3	S117454526	NUMBER	[M117440551] S117454526
V4TG2FYBBGB1MUU0BAXB I0AHMT	S117454527	NUMBER	[M117440551] S117454527
XU3ELUGR6OBAMD4BMRK Y03XUUC	S117454528	NUMBER	[M117440551] S117454528
WXLGGHD04HB0EBJUI4C1Y 2UWVO	S117454529	NUMBER	[M117440551] S117454529
RXNELAIHVEBQEB25Q5VJO HRLBD	S117454530	NUMBER	[M117440551] S117454530
R0LNEXC4I1BAIUUDIDYV2 PC6RN	S117454531	NUMBER	[M117440551] S117454531
UK4IWA11DTC4OUIXY0NVT RF2K0	S117454532	NUMBER	[M117440551] S117454532
RCYOE4K40SBERTPLPVABE E2QHO	S117454533	NUMBER	[M117440551] S117454533
X45ERDYSXHCQHBDJGLE4 YMPBJE	S117454534	NUMBER	[M117440551] S117454534
RJEB0S2YM2C5NE6BJNT26 MUBC6	S117454535	NUMBER	[M117440551] S117454535
WV5FJO1D4JCXMD3ND4NQ M3AUVJ	S117454536	NUMBER	[M117440551] S117454536
S6XPYH2GS0CPF CART2N4I Y6H6D	S117454537	NUMBER	[M117440551] S117454537
UJ4DGATBB3B3HT2H2BWS M5RU4X	S117454549	NUMBER	[M117440551] S117454549
XQK0CPWK4UBL6R6E4B6G A1GOAL	S117454550	NUMBER	[M117440551] S117454550
VBJLCHEXUHBITULSOMWJ MHVOTA	S117454538	NUMBER	[M117440551] S117454538
VNRPJVMHX6CILC6RMGAU V6WIS5	S117454539	NUMBER	[M117440551] S117454539
V1UG6BR1NCCEKEMYCK65 SLUG3V	S117454540	NUMBER	[M117440551] S117454540
YEVUSKPS55BVPSBRRPKQ	S117454541	NUMBER	[M117440551] S117454541

NVTG21			
XTH0V3WUOVC1JUBPRIAO KKTVUE	S117454542	NUMBER	[M117440551] S117454542
SDCAWBAKAUB1PEJJ3S4TF X6RHA	S117454543	NUMBER	[M117440551] S117454543
S4TAWHR0RXXBOR5005AM 50ETPV	S117454544	NUMBER	[M117440551] S117454544
SAAN6BV3XA2AIRVH002IN D6WBG	S117454551	NUMBER	[M117440551] S117454551
SAAN6BX3XA2AIRVH002IN D6WBG	S117454552	NUMBER	[M117440551] S117454552
SAAN6C03XA2AIRVH002IN D6WBG	S117454553	NUMBER	[M117440551] S117454553
SAAN6C23XA2AIRVH002IN D6WBG	S117454554	NUMBER	[M117440551] S117454554

### 7.33.7 HUA\_GB\_MODE\_DETACH\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440552] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UU4STHAMSRCUMSSVLDE SMLC5QT	S117454613	NUMBER	[M117440552] S117454613
RICNYEJFAJBARRFY00IDIG RABV	S117454614	NUMBER	[M117440552] S117454614
TTS1UCILKTB01DWT6Q2BB X0CJN	S117454615	NUMBER	[M117440552] S117454615
X512U202JMCCRCDPQIKSN H6IMT	S117454616	NUMBER	[M117440552] S117454616

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XJNSG1U46WCG3SJ4PE0XH XRWNT	S117454617	NUMBER	[M117440552] S117454617
SFUJGOFUJC0LCYVFW3D EUOFFG	S117454618	NUMBER	[M117440552] S117454618
RM2IH1WXOFBE0EEDD4X6 PVX2B1	S117454619	NUMBER	[M117440552] S117454619
WEY2GYVVR2AIR02B04U 3BMV6J	S117454620	NUMBER	[M117440552] S117454620

### 7.33.8 HUA\_GB\_MODE\_INTER\_RAU\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440554] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UE62QCOGJFCHWU3V0UJTE FNPFL	S117454813	NUMBER	[M117440554] S117454813
WWI06YVH4JC64U1I1E4AFI4 NSX	S117454814	NUMBER	[M117440554] S117454814
X4CE4OKS4DCFMEGHNYOV UGJWHE	S117454815	NUMBER	[M117440554] S117454815
YO46HUSUESBOUDKLHNC WG54GKD	S117454816	NUMBER	[M117440554] S117454816
W5PGSXCD3JCRYENWYT122 FKA03	S117454817	NUMBER	[M117440554] S117454817
Y5MTXOSIR5BYERV2CB4HE ABSOO	S117454818	NUMBER	[M117440554] S117454818
TKOTCGD5JUBVLUTNN600V HHVFF	S117454819	NUMBER	[M117440554] S117454819
RGFCG2JIM0CFEROERF5KDJ BK4J	S117454820	NUMBER	[M117440554] S117454820
W4WJV6PQD4BWGSVCNQE KX6PYWG	S117454821	NUMBER	[M117440554] S117454821
VFSW3T0YW6CJYB00GSAK	S117454822	NUMBER	[M117440554] S117454822

IRSGC			
T3NFMMWUSHBAJUCJQ5DN VD0VJN	S117454823	NUMBER	[M117440554] S117454823
VA61MYUCAMBITS3H5D3EL PRIQX	S117454838	NUMBER	[M117440554] S117454838
R01NRCVEERB0RTNFU5S4A FRRYH	S117454839	NUMBER	[M117440554] S117454839
SDS4UIKUE5CQWE0WHBDF4 FH1M1	S117454824	NUMBER	[M117440554] S117454824
XY1DVB15D4BP3RNQ5SM6N 0L2PH	S117454825	NUMBER	[M117440554] S117454825
YHWIFLA4WFCWERUNPUU NGYHKCE	S117454826	NUMBER	[M117440554] S117454826
WWAWXJICFJCIFCGLW0M0 RJD3E0	S117454827	NUMBER	[M117440554] S117454827
W36DDXQXDAB3IDACX3SQ 0I6MBI	S117454828	NUMBER	[M117440554] S117454828
YJYJFHSAVXC0TDX6MUGQI 3HOA0	S117454829	NUMBER	[M117440554] S117454829
VFF6WDUEOJC2DRQ0HV1O KBDIL0	S117454830	NUMBER	[M117440554] S117454830
U41GG6BN4YCLABQ0MN4D TET4HA	S117454831	NUMBER	[M117440554] S117454831
W0OUXDKJ6EB4OTYCFPH1H H1CNY	S117454832	NUMBER	[M117440554] S117454832
RH6MYT4HQVCR2EMPAKM POVQAOU	S117454833	NUMBER	[M117440554] S117454833
UXTSYJYQNTB4YUDVRER3 KEPKOQ	S117454834	NUMBER	[M117440554] S117454834
U6WFPVQBGGBBRTW2KMH IJDH1TN	S117454835	NUMBER	[M117440554] S117454835
YYEOTLC0U5BWKCGPYG2H	S117454836	NUMBER	[M117440554] S117454836

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VRCAQQ			
WO0EN5CP46B3IBQDP2UXR KSNFT	S117454840	NUMBER	[M117440554] S117454840
YTSUVH0ELNBEVCSJTUNKP BDU2S	S117454841	NUMBER	[M117440554] S117454841
VR56YLS5OTB1XTJFF661KP2 611	S117454837	NUMBER	[M117440554] S117454837
YWYX2CNHV62AHD4AB00P G3RX00	S127937274	FLOAT	[M117440554] S127937274
SAAN6CX3XA2AIRVH002IND 6WBG	S117454844	NUMBER	[M117440554] S117454844
SAAN6D03XA2AIRVH002IND 6WBG	S117454845	NUMBER	[M117440554] S117454845
SAAN6D23XA2AIRVH002IND 6WBG	S117454846	NUMBER	[M117440554] S117454846
SAAN6D43XA2AIRVH002IND 6WBG	S117454847	NUMBER	[M117440554] S117454847
SAAN6D63XA2AIRVH002IND 6WBG	S117454848	NUMBER	[M117440554] S117454848
SAAN6DB3XA2AIRVH002IND 6WBG	S117454849	NUMBER	[M117440554] S117454849
SAAN6DD3XA2AIRVH002IN D6WBG	S117454850	NUMBER	[M117440554] S117454850
SAAN6DF3XA2AIRVH002IND 6WBG	S117454851	NUMBER	[M117440554] S117454851
SAAN6DH3XA2AIRVH002IN D6WBG	S117454852	NUMBER	[M117440554] S117454852
SAAN6DJ3XA2AIRVH002IND 6WBG	S117454853	NUMBER	[M117440554] S117454853
SAAN6DL3XA2AIRVH002IND 6WBG	S117454854	NUMBER	[M117440554] S117454854
SAAN6DN3XA2AIRVH002IN D6WBG	S117454855	NUMBER	[M117440554] S117454855
SAAN6DP3XA2AIRVH002IND 6WBG	S117454856	NUMBER	[M117440554] S117454856

SAAN6DR3XA2AIRVH002IND 6WBG	S117454857	NUMBER	[M117440554] S117454857
SAAN6DT3XA2AIRVH002IND 6WBG	S117454858	NUMBER	[M117440554] S117454858
SAAN6DV3XA2AIRVH002IN D6WBG	S117454859	NUMBER	[M117440554] S117454859
SAAN6DX3XA2AIRVH002IN D6WBG	S117454860	NUMBER	[M117440554] S117454860
SAAN6E03XA2AIRVH002IND 6WBG	S117454861	NUMBER	[M117440554] S117454861
SAAN6E23XA2AIRVH002IND 6WBG	S117454862	NUMBER	[M117440554] S117454862
SAAN6E43XA2AIRVH002IND 6WBG	S117454863	NUMBER	[M117440554] S117454863
SAAN6E63XA2AIRVH002IND 6WBG	S117454864	NUMBER	[M117440554] S117454864
SAAN6EB3XA2AIRVH002IND 6WBG	S117454865	NUMBER	[M117440554] S117454865
SAAN6ED3XA2AIRVH002IND 6WBG	S117454866	NUMBER	[M117440554] S117454866
SAAN6EF3XA2AIRVH002IND 6WBG	S117454867	NUMBER	[M117440554] S117454867
WEY2H01VWR2AIR02B04U3 BMV6J	S117454842	NUMBER	[M117440554] S117454842
WEY2H03VWR2AIR02B04U3 BMV6J	S117454843	NUMBER	[M117440554] S117454843

### 7.33.9 HUA\_GB\_MODE\_INTRA\_RAU\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHA R2(50)	[M117440553] SGSN_ID

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TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WBK2OFBUSHBPQTJRVYA M6RR1JM	S117454713	NUMBER	[M117440553] S117454713
U0UPWHUG6CBH0R3N4B2N PDERYA	S117454714	NUMBER	[M117440553] S117454714
RPTA0MQNA2C51RX0VTPL BCHGJO	S117454715	NUMBER	[M117440553] S117454715
VAO6C5XBBGCQ6DK6P31IY DAFAK	S117454716	NUMBER	[M117440553] S117454716
VS5DW5NFX1BEGT5XQYW KT55CW3	S117454717	NUMBER	[M117440553] S117454717
XUQKX2BJJOCXMDTONOH NO21GM5	S117454718	NUMBER	[M117440553] S117454718
RVFPKRC6IWBD5RKPPLGO OIYETE	S117454719	NUMBER	[M117440553] S117454719
W20CL23CCMB6QTKC64HF WEUHKW	S117454720	NUMBER	[M117440553] S117454720
T13GEJFRAAB32C0A0YYIYJ RA3P	S117454721	NUMBER	[M117440553] S117454721
UXAHPO6NTKC6ECXALTO QDQ6TIX	S117454734	NUMBER	[M117440553] S117454734
UIM4TBXYYGBWHCNAXLI N0TH56E	S117454722	NUMBER	[M117440553] S117454722
RK326DWTFXBUWT6SF6DG USO1JG	S117454723	NUMBER	[M117440553] S117454723
U4KKMSTPIWBRJSD0IE5RJ VM4FQ	S117454724	NUMBER	[M117440553] S117454724
RTYUKHPBAWCS4S0KT35W TWG5O6	S117454725	NUMBER	[M117440553] S117454725
YAXEIW31VJCQODDF2UW V2T0RSX	S117454726	NUMBER	[M117440553] S117454726
Y1XLKBY4TTCKBUVI6YKT WMCRW4	S117454727	NUMBER	[M117440553] S117454727
X66MKSC0UYCX1D1SR4TC	S117454728	NUMBER	[M117440553] S117454728

AI03JH			
X5QMNG3E6PB02DIP4TP2JC 2XH3	S117454729	NUMBER	[M117440553] S117454729
SF5TYP5D63CDXCDWWJJ4F VOCRL	S117454730	NUMBER	[M117440553] S117454730
WKHMLFL4VQCLRBNH6EF BEFH0IW	S117454735	NUMBER	[M117440553] S117454735
TWBSGBB45HBL4B2RYNXA VBIMOX	S117454731	NUMBER	[M117440553] S117454731
THJJPBW5IFCHPEXANXMJ WQ4DW0	S117454732	NUMBER	[M117440553] S117454732
YJ6TKA3E6NBO4SOR3631D3 I6WW	S117454733	NUMBER	[M117440553] S117454733
TL63XP3NY42AHC3LR02INC NMDW	S117454736	NUMBER	[M117440553] S117454736
TL63XP5NY42AHC3LR02INC NMDW	S117454737	NUMBER	[M117440553] S117454737
TL63XPANY42AHC3LR02IN CNMDW	S117454738	NUMBER	[M117440553] S117454738
TL63XPCNY42AHC3LR02IN CNMDW	S117454739	NUMBER	[M117440553] S117454739
TL63XPENY42AHC3LR02IN CNMDW	S117454740	NUMBER	[M117440553] S117454740
TL63XPGNY42AHC3LR02IN CNMDW	S117454741	NUMBER	[M117440553] S117454741
TL63XPINY42AHC3LR02INC NMDW	S117454742	NUMBER	[M117440553] S117454742
TL63XPKNY42AHC3LR02IN CNMDW	S117454743	NUMBER	[M117440553] S117454743
TL63XPMNY42AHC3LR02IN CNMDW	S117454744	NUMBER	[M117440553] S117454744
TL63XPONY42AHC3LR02IN	S117454745	NUMBER	[M117440553] S117454745

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CNMDW			
SAAN6C43XA2AIRVH002IN D6WBG	S117454746	NUMBER	[M117440553] S117454746
SAAN6C63XA2AIRVH002IN D6WBG	S117454747	NUMBER	[M117440553] S117454747
SAAN6CB3XA2AIRVH002IN D6WBG	S117454748	NUMBER	[M117440553] S117454748
SAAN6CD3XA2AIRVH002IN D6WBG	S117454749	NUMBER	[M117440553] S117454749
SAAN6CF3XA2AIRVH002IN D6WBG	S117454750	NUMBER	[M117440553] S117454750
SAAN6CH3XA2AIRVH002IN D6WBG	S117454751	NUMBER	[M117440553] S117454751
SAAN6CJ3XA2AIRVH002IN D6WBG	S117454752	NUMBER	[M117440553] S117454752
SAAN6CL3XA2AIRVH002IN D6WBG	S117454753	NUMBER	[M117440553] S117454753
SAAN6CN3XA2AIRVH002IN D6WBG	S117454754	NUMBER	[M117440553] S117454754
SAAN6CP3XA2AIRVH002IN D6WBG	S117454755	NUMBER	[M117440553] S117454755
SAAN6CR3XA2AIRVH002IN D6WBG	S117454756	NUMBER	[M117440553] S117454756
SAAN6CT3XA2AIRVH002IN D6WBG	S117454757	NUMBER	[M117440553] S117454757
SAAN6CV3XA2AIRVH002IN D6WBG	S117454758	NUMBER	[M117440553] S117454758

### 7.33.10HUA\_GB\_MODE\_L3\_MM\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440550] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

X0NUAW13UVBM5DXF2Q1 VRBLKYB	S117454413	NUMBER	[M117440550] S117454413
V6423YRN1JCL3SIW6FYG4H XPVM	S117454414	NUMBER	[M117440550] S117454414
UVK4HRO0RHBHVRTXMKA N24E5KK	S117454415	NUMBER	[M117440550] S117454415
TLYBRBAGDABNWS1AEGI XDIAH26	S117454416	NUMBER	[M117440550] S117454416
U6F6VEGIJAC33BCR0CK1G V24XL	S117454417	NUMBER	[M117440550] S117454417
YCV6G4GD01BG2ESD21L4S 22V1Q	S117454418	NUMBER	[M117440550] S117454418
TUWB2CJRCTBVYURXE0Y6 CKNGD3	S117454419	NUMBER	[M117440550] S117454419
TMTGSVCMT5B16EMERP10 K0XP5B	S117454420	NUMBER	[M117440550] S117454420
TDKEOVKP31BVIBCI3A2CX GNSVL	S117454421	NUMBER	[M117440550] S117454421

### 7.33.11HUA\_GB\_MODE\_PAGING\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440557] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
X2FUJDJGRUC5BRBDQQJM GYLC15	S117455113	NUMBER	[M117440557] S117455113
XBQP2A51UFCEVTR0B6616 YI1QG	S117455114	NUMBER	[M117440557] S117455114
T6545NJGTVBHMUYT6XHN CXLIF5	S117455115	NUMBER	[M117440557] S117455115

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VLMOT4UO55BDTBVH1CYI EYEENJ	S117455116	NUMBER	[M117440557] S117455116
R6TE30Q4H2BCWUCO2R5M QEOWMB	S117455117	NUMBER	[M117440557] S117455117
WEY2H05VWR2AIR02B04U3 BMV6J	S117455118	NUMBER	[M117440557] S117455118
WEY2H0AVWR2AIR02B04U 3BMV6J	S117455119	NUMBER	[M117440557] S117455119
WEY2H0CVWR2AIR02B04U 3BMV6J	S117455120	NUMBER	[M117440557] S117455120

### 7.33.12HUA\_GB\_MODE\_PDP\_ACT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440591] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
R6EFW6YWHMBWQCGPRK XJWPRJR5	S117458513	NUMBER	[M117440591] S117458513
WAOLILYEVQCCABFHKLV3 ECTFEA	S117458514	NUMBER	[M117440591] S117458514
WNRMP4Y5N5CPERBKDJ1U O3OJAF	S117458515	NUMBER	[M117440591] S117458515
VEQXRYRTH3CFLBD4BG6D JCE2N3	S117458516	NUMBER	[M117440591] S117458516
R5CYQH5H2CC1IT4HRPVPW MRLP5	S117458517	NUMBER	[M117440591] S117458517
RDBQM0U6D3BHKUP0BJV6F USRCM	S117458518	NUMBER	[M117440591] S117458518
U6KMXXHB5YCFRRRCENVY HWL2KGS	S117458519	NUMBER	[M117440591] S117458519
TCW2YJNKGNB31SGOKV6H 0GP2SL	S117458520	NUMBER	[M117440591] S117458520
RPK2JTOADIC5BUWV3AGUI	S117458521	NUMBER	[M117440591] S117458521

MWTBU			
YXTPP1L6JYB0KR4QSMQO0 N0S0N	S117458522	NUMBER	[M117440591] S117458522
TAW4LD4RLFBH1UNVTDJ5 NJMX1A	S117458523	NUMBER	[M117440591] S117458523
YXBRLR204OMCAQUXIMN1O RX4P2I	S117458524	NUMBER	[M117440591] S117458524
UBES3NNP15CO5CAOSCINU Y3O4G	S117458525	NUMBER	[M117440591] S117458525
XDDNTVWXT4BPPTANUQG PSQB6H4	S117458526	NUMBER	[M117440591] S117458526
SQ0KAR2SXHBEAC0OTYBQ O60HQR	S117458527	NUMBER	[M117440591] S117458527
T25ASVLFXCCWTD0RLEKE3 EECTK	S117458528	NUMBER	[M117440591] S117458528
SAXPKM3MHBBKVELLSDYJ 5PAWNH	S117458529	NUMBER	[M117440591] S117458529
Y3W3GXGGHXB4KUIDG4JN 4WCX0T	S117458530	NUMBER	[M117440591] S117458530
XWE4JBVQETCNKB2WG2O HQYQEML	S117458531	NUMBER	[M117440591] S117458531
TJAYJ0NPEYBS6T3PX6BAH KLG45	S117458532	NUMBER	[M117440591] S117458532
V56ODWELQUBHMSWF0SH U3PAQKC	S117458533	NUMBER	[M117440591] S117458533
S555OY36YQBKWTB2CUL05 I6M1X	S117458534	NUMBER	[M117440591] S117458534
SA5JGM4GXEBRXULP03M6 N5PC4L	S117458535	NUMBER	[M117440591] S117458535
SJGGASP0J5CECEUDGD5AN EYYBB	S117458536	NUMBER	[M117440591] S117458536
WMNSRU0V24BWTSG0YLJF	S117458537	NUMBER	[M117440591] S117458537

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Y5MDY			
TRIFI3NKGSBK1CIE2LVPEG CS5X	S117458538	NUMBER	[M117440591] S117458538
RMW2G6NE56B5QCVHOCKC TGYAA	S117458539	NUMBER	[M117440591] S117458539
RQT0HNSI52C21UW1OS52JM XFTK	S117458540	NUMBER	[M117440591] S117458540
V3WWDO1B2YCXJETK0EVQ T3EAUM	S117458541	NUMBER	[M117440591] S117458541
UCUHTTNK5HBPFVCVBTK5G RRERMO	S117458542	NUMBER	[M117440591] S117458542
S0PD0X0520C3GBMBWFLB2 KSAUC	S117458543	NUMBER	[M117440591] S117458543
TJOTEJTO2TBGKCETKVGUI YR4CM	S117458544	NUMBER	[M117440591] S117458544
SIAYISLKLQBTRUMOSIS2V N4IYP	S117458545	NUMBER	[M117440591] S117458545
USCIYOPJXVCVEEQ3X5O4C AA4ES	S117458546	NUMBER	[M117440591] S117458546
XM2OWXYCSUBV5S4WXXJ 152UE20	S117458547	NUMBER	[M117440591] S117458547
SXC2GDW5C0BXMCS6A2H2 N3S6QU	S117458548	NUMBER	[M117440591] S117458548
XOTAL1UU3ABO3UBUFQT0 2GMMCF	S117458549	NUMBER	[M117440591] S117458549
V6JA24AUJNBKFULE1352I21 BOA	S117458550	NUMBER	[M117440591] S117458550
WK4HV66WUGB0DD2HCVB KH2NCL6	S117458551	NUMBER	[M117440591] S117458551
WFHOKLTCTLC0GEPVYCY2 X3RA4U	S117458552	NUMBER	[M117440591] S117458552
UA25HPJ461CJLDFTOB44T50 F3L	S117458553	NUMBER	[M117440591] S117458553
U1XMQQ5DPCCSNEQDUQW N34MSC3	S117458554	NUMBER	[M117440591] S117458554

YPYMRKHMMQCB0E05D6M PFRQLS6	S117458555	NUMBER	[M117440591] S117458555
W1L4SQAIAABBLDS6HJIM2Q NRTIS	S117458556	NUMBER	[M117440591] S117458556
TOWJ41432DCC0RIPRCIFDC 0IKT	S117458557	NUMBER	[M117440591] S117458557
RRKCVJYTD3BU3EQE0NAM NFYDOY	S117458558	NUMBER	[M117440591] S117458558
SP2VLYCFMJBWKBWJWX5HP 5GFDVG	S117458559	NUMBER	[M117440591] S117458559
SJP6F20RHCCUSC1L5JQ3HY V0CO	S117458560	NUMBER	[M117440591] S117458560
TL63XQWNY42AHC3LR02IN CNMDW	S117458561	NUMBER	[M117440591] S117458561
TL63XQYNY42AHC3LR02IN CNMDW	S117458562	FLOAT	[M117440591] S117458562
TL63XR1NY42AHC3LR02INC NMDW	S117458563	NUMBER	[M117440591] S117458563
TL63XR3NY42AHC3LR02INC NMDW	S117458564	NUMBER	[M117440591] S117458564
SAAN6KX3XA2AIRVH002IN D6WBG	S117458565	NUMBER	[M117440591] S117458565
SAAN6L03XA2AIRVH002IND 6WBG	S117458574	NUMBER	[M117440591] S117458574
SAAN6L23XA2AIRVH002IND 6WBG	S117458576	NUMBER	[M117440591] S117458576

### 7.33.13HUA\_GB\_MODE\_PDP\_DEACT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440592] SGSN_ID

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TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6L43XA2AIRVH002IND 6WBG	S117458619	NUMBER	[M117440592] S117458619
YG1FN0KNA0BTVSD216O1S AWION	S117458613	NUMBER	[M117440592] S117458613
S5EV0EWB2JCM4C3KAKV4E 6XXLH	S117458614	NUMBER	[M117440592] S117458614
WT5RLOJTLTBVCRW3DWPC 0ATWCO	S117458615	NUMBER	[M117440592] S117458615
WBVOUFVXV0RCG4R5XYXO WMPMNFL	S117458616	NUMBER	[M117440592] S117458616
TKYIWOMNPXCO3S0JHLABT EBSDP	S117458617	NUMBER	[M117440592] S117458617
R1C66PMIAPCCUSM5NT5J3K U5NG	S117458618	NUMBER	[M117440592] S117458618

### 7.33.14HUA\_GB\_MODE\_PDP\_MODIF\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440593] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XR5NY42AHC3LR02IN CNMDW	S117458719	NUMBER	[M117440593] S117458719
TL63XRANY42AHC3LR02IN CNMDW	S117458720	NUMBER	[M117440593] S117458720
TL63XRCNY42AHC3LR02IN CNMDW	S117458721	NUMBER	[M117440593] S117458721
TL63XRENY42AHC3LR02IN CNMDW	S117458722	NUMBER	[M117440593] S117458722
UF1NABBWGBBFGS2VR1H BAH0XQ4	S117458713	NUMBER	[M117440593] S117458713
RBRFY0COJWBMVB2YEQG	S117458714	NUMBER	[M117440593] S117458714

R5L0AMR			
T6J5QGBP4MBCWSLPQQAX HAIBDF	S117458715	NUMBER	[M117440593] S117458715
X16FSICVIYCMURP3MAFVS LBI6M	S117458716	NUMBER	[M117440593] S117458716
V1LXLW0SVABPMCOIXBW 4FWMD20	S117458717	NUMBER	[M117440593] S117458717
S4DSYFNVR4BS1T1ST4E5R XHTLA	S117458718	NUMBER	[M117440593] S117458718

**7.33.15HUA\_GB\_MODE\_PDP\_REJECT\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440663] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VRRDF3LB2BB4PEVBY3YT HOHWDS	S117465713	NUMBER	[M117440663] S117465713
VKJ4KQU2DKBGRTTUIK0H 4H1MM2	S117465714	NUMBER	[M117440663] S117465714
XUTD1PPFY1B3KUGRKXH 3NJ4KHI	S117465715	NUMBER	[M117440663] S117465715

**7.33.16HUA\_GB\_MODE\_RADIO\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440556] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

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SAAN6EL3XA2AIRVH002IND6WBG	S117455027	NUMBER	[M117440556] S117455027
SAAN6EN3XA2AIRVH002IND6WBG	S117455028	NUMBER	[M117440556] S117455028
SAAN6EP3XA2AIRVH002IND6WBG	S117455029	NUMBER	[M117440556] S117455029
SAAN6ER3XA2AIRVH002IND6WBG	S117455030	NUMBER	[M117440556] S117455030
SAAN6ET3XA2AIRVH002IND6WBG	S117455031	NUMBER	[M117440556] S117455031
SAAN6EV3XA2AIRVH002IND6WBG	S117455032	NUMBER	[M117440556] S117455032
SAAN6EX3XA2AIRVH002IND6WBG	S117455034	FLOAT	[M117440556] S117455034
SAAN6F03XA2AIRVH002IND6WBG	S117455035	FLOAT	[M117440556] S117455035
SAAN6F23XA2AIRVH002IND6WBG	S117455036	NUMBER	[M117440556] S117455036
XV0M0PMJFPBN2TDGLDMR02KFBW	S117455013	NUMBER	[M117440556] S117455013
T6YPBSRYIACJYR1BG65DTFAD64	S117455014	FLOAT	[M117440556] S117455014
X0YSYE1N23CYNEUH5ANL1DBHAI	S117455015	NUMBER	[M117440556] S117455015
YKHLIVC5JMBS6C4IIM4SN34KVL	S117455016	NUMBER	[M117440556] S117455016
Y312JS3IHVBY2TSC5CNQIU EJ1U	S117455017	FLOAT	[M117440556] S117455017
S45B5DBFMICJICG3OJR0MD RYLR	S117455018	NUMBER	[M117440556] S117455018
YM3VLY5B3WB36BPQUECCN2HAT3	S117455019	NUMBER	[M117440556] S117455019
UMXLRGMH5ECY3RTO0KW SJX0ODO	S117455020	NUMBER	[M117440556] S117455020
XBGOA3NRDJBKNUV11QXK	S117455021	NUMBER	[M117440556] S117455021

IHEUF0			
SJVKH5SVJ3BOQCNNX4GK YL3NFV	S117455022	NUMBER	[M117440556] S117455022
UHU2HRD0OPB0BTNWVX5 N4O35N6	S117455023	NUMBER	[M117440556] S117455023
U21S5FYXWJBARDS55HI5B3 FLE1	S117455024	NUMBER	[M117440556] S117455024
RQ06CTQCJOCDAR32EGPH WR6KIU	S117455025	NUMBER	[M117440556] S117455025
RPYRNW4ORBC5XBIAWAE TLOWL5M	S117455026	NUMBER	[M117440556] S117455026

**7.33.17HUA\_GB\_MODE\_SECURITY\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440555] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XPQNY42AHC3LR02INC NMDW	S117454925	NUMBER	[M117440555] S117454925
TL63XPSNY42AHC3LR02INC NMDW	S117454926	NUMBER	[M117440555] S117454926
TL63XPUNY42AHC3LR02INC NMDW	S117454927	NUMBER	[M117440555] S117454927
TL63XPWNY42AHC3LR02INC NMDW	S117454928	NUMBER	[M117440555] S117454928
SAAN6EH3XA2AIRVH002IND 6WBG	S117454929	NUMBER	[M117440555] S117454929
SAAN6EJ3XA2AIRVH002IND 6WBG	S117454930	NUMBER	[M117440555] S117454930

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U2PI5F5XJNBY2EQPA4PHAA PQVX	S117454913	NUMBER	[M117440555] S117454913
XEF5D1PPGPBPSCT4LXVT35 F0MA	S117454914	NUMBER	[M117440555] S117454914
RXSNOGCL5SCTJTOWAC3 3OEPO	S117454915	NUMBER	[M117440555] S117454915
WNVFYTAQ01BH4U2THUD NTV01B	S117454916	NUMBER	[M117440555] S117454916
UQR1D1M6XRBC2UJQS4P6D UMRB3	S117454917	NUMBER	[M117440555] S117454917
ROKVMENVNI5CPFSNCXQG2 MHMQ62	S117454918	NUMBER	[M117440555] S117454918
SNQ30LDSCBASE6JSIW5FP LRWL	S117454919	NUMBER	[M117440555] S117454919
WHKIUMNKWWBKT5YFGS QHJM3SY	S117454920	NUMBER	[M117440555] S117454920
UERTQEAM1YCYURBLBCR HGSNY66	S117454921	NUMBER	[M117440555] S117454921
TBSKF55CEIBY0S5NLD0MCH S6VX	S117454922	NUMBER	[M117440555] S117454922
WQO5DKPQEGBORDWMCM X214SDH3	S117454923	NUMBER	[M117440555] S117454923
XNJJ0RIQ3CEUCCC2DK25A INAM	S117454924	NUMBER	[M117440555] S117454924

### 7.33.18HUA\_GB\_MODE\_SERV\_HO\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440659] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XRWKTWMBR0CYBR0KXA1 KA6OCD6	S117465313	NUMBER	[M117440659] S117465313
U6EPIAJRY0CRNSXKC054G6	S117465314	NUMBER	[M117440659] S117465314

M2TH			
XMUQEEDTYKBLSD3FFRPO 15BYQ1	S117465315	NUMBER	[M117440659] S117465315

**7.33.19HUA\_GB\_MODE\_SM\_L3\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440594] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VSSJIOB6A3BRIBH6P1NIGU V6R6	S117458813	NUMBER	[M117440594] S117458813
TMBD1VGVUVBVRU3P0CY 15BPWE3	S117458814	NUMBER	[M117440594] S117458814

**7.33.20HUA\_GB\_MODE\_SM\_RESOURCE\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440595] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6L63XA2AIRVH002IND 6WBG	S117458926	NUMBER	[M117440595] S117458926
SAAN6LB3XA2AIRVH002IND 6WBG	S117458927	NUMBER	[M117440595] S117458927
SAAN6LD3XA2AIRVH002IND 6WBG	S117458928	NUMBER	[M117440595] S117458928
SAAN6LF3XA2AIRVH002IND 6WBG	S117458929	NUMBER	[M117440595] S117458929

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SAAN6LH3XA2AIRVH002IND6WBG	S117458930	NUMBER	[M117440595] S117458930
SAAN6LJ3XA2AIRVH002IND6WBG	S117458931	NUMBER	[M117440595] S117458931
W0CRJNQPAHCHCELIMWT4CPID35	S117458913	NUMBER	[M117440595] S117458913
YMSBJGVP0WBIOSHELWCWY2HWH2N	S117458914	NUMBER	[M117440595] S117458914
YGDT0T65EQCEVT1RLLE505N3R4	S117458915	NUMBER	[M117440595] S117458915
V55FF4BA0HCYHUV4YA1ELH6EVT	S117458916	NUMBER	[M117440595] S117458916
S2HK6SIAHYCUHBDTTBN6BEHKPX	S117458917	NUMBER	[M117440595] S117458917
V5FJQ2M5OSCH3CEIVMBQB32HKV	S117458918	NUMBER	[M117440595] S117458918
YKQD2UN0HLCMOECAUX3CJGF4Q3	S117458919	NUMBER	[M117440595] S117458919
X1VBDVA4WYBAKDES4DFQOYUMCA	S117458920	NUMBER	[M117440595] S117458920
SAWJIOQUUBCFNDK2QFKQFUYWV2	S117458921	NUMBER	[M117440595] S117458921
SLIEQPORE3CXWR0DHFIIIX5MOL2	S117458922	NUMBER	[M117440595] S117458922
WKSDR6SVKJCGFEUHBNUMK3HI3J	S117458923	NUMBER	[M117440595] S117458923
YH3P4AVUJQCH2SBI2VIIQVJIWG	S117458924	NUMBER	[M117440595] S117458924
R4X0323EA1B4LE1U3VWHHLSSFE	S117458925	NUMBER	[M117440595] S117458925

### 7.33.21HUA\_GB\_MODE\_USER\_REJECT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440661] SGSN_ID

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XOQX3BDUUIJBQGR3XAEA BVD5V2S	S117465513	NUMBER	[M117440661] S117465513
TS3G30EAGPBDCUVOC10D NEU2UO	S117465514	NUMBER	[M117440661] S117465514
XGNDTVHSSFBYRU5BBSL ATKXNGT	S117465515	NUMBER	[M117440661] S117465515

**7.33.22HUA\_GTP\_BEARER\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440528] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
V2TPPIRYRNCV6ENBW1S AJE3UB2	S117452213	NUMBER	[M117440528] S117452213
VJMEJN3KA5BXBE205B26 2QQRMY	S117452214	NUMBER	[M117440528] S117452214
XWQSFGA002B5JSQBENE MYPF2E4	S117452215	FLOAT	[M117440528] S117452215

**7.33.23HUA\_GTP\_MESS\_PROCESS\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440530] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TTUIALCXHMBYKBLHIPTM	S117452413	NUMBER	[M117440530] S117452413

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EPL5YB			
WEK4UONIOACOBJOPXMQ4 I5QFOC	S117452414	NUMBER	[M117440530] S117452414
X5KDQSCOVBJYC00LTAG ONQJ1L	S117452415	NUMBER	[M117440530] S117452415
TJBNP0VUTKC1TEASI2PF2I VLGX	S117452416	NUMBER	[M117440530] S117452416
XBHEYVTSH5CWMB516K53 RK34H0	S117452417	NUMBER	[M117440530] S117452417
TSMK2NI35NCLSDOGIK4Q4 QTRC5	S117452418	NUMBER	[M117440530] S117452418
SVMUHTMYWFB1TUMFOTI XXDNNVI	S117452419	NUMBER	[M117440530] S117452419
TW4WMP40USBOIEBLTQJG L66POP	S117452420	NUMBER	[M117440530] S117452420
RAYQBVIDV1CX0BXT44OO G0RDHC	S117452421	NUMBER	[M117440530] S117452421
YT1C14RHC3CXHTDHLKD4 MAVEE3	S117452422	NUMBER	[M117440530] S117452422
WFBXTPPLYHCT4CQ220GD X2NCCF	S117452423	NUMBER	[M117440530] S117452423
W3TNYOBDPIBQ3RPAIODSI QY6DT	S117452424	NUMBER	[M117440530] S117452424
RY3XACPWG5BQNBHKWLJ 262K16L	S117452425	NUMBER	[M117440530] S117452425
XEY56U1HMLCJ2D4CA13LM CCY3N	S117452426	NUMBER	[M117440530] S117452426
XAAMSHPVX1BHITNUIVMJ SJ0XVO	S117452427	NUMBER	[M117440530] S117452427
VNEEGVUE6FB0XB5F2P0XI BEMFO	S117452428	NUMBER	[M117440530] S117452428
U3YNHIIDRUBXASQ0SBEA QCK4HI	S117452429	NUMBER	[M117440530] S117452429
VKEPJ4SWDGCV5BP6WIHR5 LLG21	S117452430	NUMBER	[M117440530] S117452430

YTUO4MJF5EBG4ESBGP0AX HGYMJ	S117452431	NUMBER	[M117440530] S117452431
WRDB22K55SB5UUSE02WA OUANEG	S117452432	NUMBER	[M117440530] S117452432
YVVTBXYBP3BRISCYONMJ DIK2GW	S117452433	NUMBER	[M117440530] S117452433
XJ5JTAYJP1BN4CMTL54KVJ B6UH	S117452434	NUMBER	[M117440530] S117452434
X3MQCBIEQPBGVEMSWI43 LM4FCW	S117452435	NUMBER	[M117440530] S117452435
UPNAINIBBUCN2TODFL2FA YQY06	S117452436	NUMBER	[M117440530] S117452436
YM12OAIUHLBB6TSK5KP2 W1M0E2	S117452437	NUMBER	[M117440530] S117452437
UMI3T4TGOCBXQEVPT5PG5 X2A0C	S117452438	NUMBER	[M117440530] S117452438
RKGVI4LROICYMTWJLNMN MYPHPS	S117452439	NUMBER	[M117440530] S117452439
SKQODG53YSCLJURDIDCD BDUFEN	S117452440	NUMBER	[M117440530] S117452440
S1CFWJN2EKBMTUYVLBR2 UJUS43	S117452441	NUMBER	[M117440530] S117452441
WBVF55O2L2B22S5VFPOWJ G5KNL	S117452442	NUMBER	[M117440530] S117452442
YHYDIKIEGHBWTTDFDFDG GBQSVH	S117452443	NUMBER	[M117440530] S117452443
REA4L2Q3LYBIGUTT1V3N0 XYY4B	S117452444	NUMBER	[M117440530] S117452444
U4Y6VNDUGRCSNRVF0UM W4M2COI	S117452445	NUMBER	[M117440530] S117452445
U1KP63VGWJBWPUWURGS UDMLB0E	S117452446	NUMBER	[M117440530] S117452446

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W5JKIX2RHMCB2E2BI1EDT05QN5	S117452447	NUMBER	[M117440530] S117452447
SAAN6B63XA2AIRVH002IND6WBG	S117452448	NUMBER	[M117440530] S117452448
SAAN6BB3XA2AIRVH002IND6WBG	S117452449	NUMBER	[M117440530] S117452449
SAAN6BD3XA2AIRVH002IND6WBG	S117452450	NUMBER	[M117440530] S117452450
SAAN6BF3XA2AIRVH002IND6WBG	S117452451	NUMBER	[M117440530] S117452451

### 7.33.24HUA\_GTP\_SYSTEM\_NTP\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440532] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SILDP351WGCCKE3GLTVGJ1I1MW	S117452613	NUMBER	[M117440532] S117452613
SUMVQCRRKSCSADUI16QAQI4ETF	S117452614	NUMBER	[M117440532] S117452614
XHWDG60MIMCJMC5VVUS2E1IQIA	S117452615	NUMBER	[M117440532] S117452615
XQI2DHQR0NCDGEEYJPPTUTYXQX	S117452616	NUMBER	[M117440532] S117452616
T3G4CAFBFECGFB3TWM23AOS1C1	S117452617	NUMBER	[M117440532] S117452617

### 7.33.25HUA\_GTPU\_BEARER\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440536] SGSN_ID
TSTAMP		DATE	

INSTANCE_ID		NUMBER	
TLRH5NO4QJCRICU11FB3DQ ILOT	S117453013	NUMBER	[M117440536] S117453013
SQGGDLEDJWB5JU1NMVSR A04RQA	S117453014	NUMBER	[M117440536] S117453014
VECE3G4APNCC3DRS1KSCS BJQ02	S117453015	NUMBER	[M117440536] S117453015
TY02AAFOJOCSEGBQBOMHM NGXHY4	S117453016	NUMBER	[M117440536] S117453016
WPB1HK0M01CORBBLWHF4 VT0QDP	S117453017	NUMBER	[M117440536] S117453017
V5SMNF264TBAKU0JDW3FV SJT3X	S117453018	NUMBER	[M117440536] S117453018
S0X55W4AJLCT2EXPKSQEDI JB6Q	S117453019	NUMBER	[M117440536] S117453019
WR1N453EWDCA3TYOV5Q46 U4V6Q	S117453020	NUMBER	[M117440536] S117453020
TTCATAOHU3COKT6MKYOI XXCOW6	S117453021	NUMBER	[M117440536] S117453021
RFKNVFMITWBC1DK5NCYQ C2B30K	S117453022	NUMBER	[M117440536] S117453022
YCLY6IO0SDBTCEEY33HRF VHTSE	S117453023	NUMBER	[M117440536] S117453023
RAOFVC4CDHCTWBYVE3R6 2EMJIT	S117453024	NUMBER	[M117440536] S117453024
UPV0LREASYBWFSNAUUUG TKPW2X	S117453025	NUMBER	[M117440536] S117453025
VHV5KF0QFVBH5DCDBEP3R H1JVR	S117453026	NUMBER	[M117440536] S117453026
Y6TRJQB2QFCQJDD6XNJ3BK O2LG	S117453027	NUMBER	[M117440536] S117453027
REIKQRBODPC3PDE2CF6Q46	S117453028	NUMBER	[M117440536] S117453028

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4H3M			
TOMIIVNDFGCR6TQD66CN3 THGT	S117453029	NUMBER	[M117440536] S117453029
Y0IX05TWGGC11CANJDQ0A PP2TF	S117453030	NUMBER	[M117440536] S117453030
TPJXOS0EKVBIWD00RUAIYF SWYW	S117453031	NUMBER	[M117440536] S117453031
SSLJ4TVHGDCEYECI3JYR0CN PJP2	S117453032	NUMBER	[M117440536] S117453032
TQNMQ5JG5OC3SRAN6D0RB WGH6H	S117453033	NUMBER	[M117440536] S117453033
WHHXC�NH4TKCWJEWQOE MUOKBE4J	S117453034	NUMBER	[M117440536] S117453034
UUKLOB4U6FCGCCNKP0U62 PUTX1	S117453035	NUMBER	[M117440536] S117453035
T4RCVVDHUXC1YSJDFG5CT 1R4WP	S117453036	NUMBER	[M117440536] S117453036
TVLA4BCC5YCLUT22BR0YX UNTCG	S117453037	NUMBER	[M117440536] S117453037
VEF2S2UBAYBPPT1L5OD55B BTUW	S117453038	NUMBER	[M117440536] S117453038
SXNB6K4QYJCW6E1NFKRX XMOEUQ	S117453039	NUMBER	[M117440536] S117453039
UMTG24UCIDBKQS4SF5FSC5 B0MG	S117453040	NUMBER	[M117440536] S117453040
TYGQ5QMKHQBPPC53J15P3 AX2WR	S117453041	FLOAT	[M117440536] S117453041
WL0545YFAMBOKC3MM3BF Y0WC2A	S117453042	FLOAT	[M117440536] S117453042
TSUCCUV2UXBESBKRA2X2 M1A1O0	S117453043	FLOAT	[M117440536] S117453043
TJGQTAT33OCTKBGY35RSM CB5PX	S117453044	FLOAT	[M117440536] S117453044
UIBK40QEDWCSYS4MTV3C NP150S	S117453045	NUMBER	[M117440536] S117453045

WGEEF3EEC4CDJC2JBLLEYF PSR5	S117453046	NUMBER	[M117440536] S117453046
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**7.33.26HUA\_GTPU\_GN\_INTERFACE\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440533] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
T6X1OUICLRCM0SKEYNX50 GEQPH	S117452713	NUMBER	[M117440533] S117452713
V3X2CPEN0MCS6TK0T41F1 U0BRT	S117452714	NUMBER	[M117440533] S117452714
UHNH6GERO2C2FDXHM0DJ 5VULBC	S117452715	NUMBER	[M117440533] S117452715
YAKWX3HII2CKETMB1E4P MKUVGS	S117452716	NUMBER	[M117440533] S117452716
THB03HNGSHCK0D6MTBHC OL0T5B	S117452717	NUMBER	[M117440533] S117452717
WCCMBWTNBRCIGDRVELE BS0REBD	S117452718	NUMBER	[M117440533] S117452718
RS4T3FMEQQB2PDWD4P6N4 KY2UI	S117452719	NUMBER	[M117440533] S117452719
W5NV5N4SEIBY4UHN5QUO CG2U6U	S117452720	NUMBER	[M117440533] S117452720
UXMVHE2UX6BVVUYI2MEJ B0CLJY	S117452721	NUMBER	[M117440533] S117452721
RDFXV5Q0KGCWIDRAUWIT 1LQTB6	S117452722	NUMBER	[M117440533] S117452722
WLG3CRL5QMCYVTBE3QY TDGFRIG	S117452723	NUMBER	[M117440533] S117452723

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VXKNLU3TJNBO6DNSGYJS X554RF	S117452724	NUMBER	[M117440533] S117452724
UNAKRQE4OCTIUMGC40R 4VER63	S117452725	NUMBER	[M117440533] S117452725
WO32I06KTNBUNRIJPOTPE XLXA	S117452726	NUMBER	[M117440533] S117452726
THYJOT6IT4CYORFK3VOBO Y1VI2	S117452727	NUMBER	[M117440533] S117452727
YS2031GEU0BNGDLKISCUK EBTC4	S117452728	NUMBER	[M117440533] S117452728
V1FYM06PO0BIOCVLVNTEY O5I3E	S117452729	NUMBER	[M117440533] S117452729
TAV0DQIHLVCE1SYEOKSJR 1PO4L	S117452730	NUMBER	[M117440533] S117452730
TFPHR1IOYACILDQCQHCG YLXRVH	S117452731	NUMBER	[M117440533] S117452731
XOPXX4J6VHBUTC4H0Q3SX 2IL0T	S117452732	NUMBER	[M117440533] S117452732
UEIPNGVV4AC6OEDPBUIAV I6YTB	S117452733	NUMBER	[M117440533] S117452733
WEF642AUG5C32C542SBMH WSIYK	S117452734	NUMBER	[M117440533] S117452734
RC3XKY26CNBK0SNNFRPA MX41QE	S117452735	NUMBER	[M117440533] S117452735
RFJ0MI33RWC6E5BVSCIO2 UVOX	S117452736	NUMBER	[M117440533] S117452736
V2AC0102OCB6CRC4E3OTY 5JH3J	S117452737	NUMBER	[M117440533] S117452737
RUGHYP32KJB6PU1WG0PKJ FXGV0	S117452738	NUMBER	[M117440533] S117452738
VCHRGCDNQLCFWBPJ4G2B OPKTFN	S117452739	NUMBER	[M117440533] S117452739
TLGYUVT62CV5RQS6XJV HN32OG	S117452740	NUMBER	[M117440533] S117452740
VQ4ILYMCK4BPFDWX5XUN	S117452741	NUMBER	[M117440533] S117452741

V4NOWX			
TCT2DR1SGCCCGBMPBESU ASK2VJ	S117452742	NUMBER	[M117440533] S117452742
U0SBW45511B0SS21T45DLT QH0Q	S117452743	NUMBER	[M117440533] S117452743
UDABBNLUCXCXXECB34T VKFKVO2	S117452744	NUMBER	[M117440533] S117452744

**7.33.27HUA\_GTPU\_GP\_INTERFACE\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440534] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TDN36KHRROBFACJ0HAQKS R22AP	S117452813	NUMBER	[M117440534] S117452813
XEDCJSWBEIBAGERN1NGCR SQDD4	S117452814	NUMBER	[M117440534] S117452814
VEXYNY42GACWATSD1KGG ELQLNV	S117452815	NUMBER	[M117440534] S117452815
RKNGYGQQBUBR2CA0JF1Q1 03DLN	S117452816	NUMBER	[M117440534] S117452816
SQAMNJGGR0BWAUXLD40F EXVXP0	S117452817	NUMBER	[M117440534] S117452817
STMHM01W0ABOPUEEGGV0 M3UCGB	S117452818	NUMBER	[M117440534] S117452818
VKK31BOCL0CQYE5RNH4HD O51WE	S117452819	NUMBER	[M117440534] S117452819
W4I31FQGTMCFGSKWMPM4 GSHMGL	S117452820	NUMBER	[M117440534] S117452820

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R06EGWTH6FBEEULPKWBW VTGF4R	S117452821	NUMBER	[M117440534] S117452821
U3JYEORQDB3NUN0FH1LV BAITM	S117452822	NUMBER	[M117440534] S117452822
TB6PA1H3M2B3TRABVYK61 HT2JJ	S117452823	NUMBER	[M117440534] S117452823
UFJ6UJL3BDCGQRF6HIER2T0 21Q	S117452824	NUMBER	[M117440534] S117452824
UNA4OC0DI5BCJCE5MNPMPG 0KXW6	S117452825	NUMBER	[M117440534] S117452825
W1BF2UXIOAC0GBGEXO5G H1BJFW	S117452826	NUMBER	[M117440534] S117452826
V6V06DADIEBIOEATQ3B4NL BKUT	S117452827	NUMBER	[M117440534] S117452827
VVTPKBFIGC5KCY1LBEAT 12AV4	S117452828	NUMBER	[M117440534] S117452828
RA0CWRVIP2B6WCKJ1QGCD RR3PE	S117452829	NUMBER	[M117440534] S117452829
T2F1N6H2PWCPURMQIK1YJ N3GAC	S117452830	NUMBER	[M117440534] S117452830
S31UVXDERKBIWCK0QPP2I XN1TI	S117452831	NUMBER	[M117440534] S117452831
YS0TGXCGJKCNMCB35VUY CPM6JQ	S117452832	NUMBER	[M117440534] S117452832
XPY4DA566TCPARWVJBQXF OK023	S117452833	NUMBER	[M117440534] S117452833
YD3ERX4PGNCWWEWJGGK PF3DRNN	S117452834	NUMBER	[M117440534] S117452834
UMUDSHIO1UC1BDGVW5HD KISYNE	S117452835	NUMBER	[M117440534] S117452835
WMVGIHE6LNBOLUAKM3G MFYXFTP	S117452836	NUMBER	[M117440534] S117452836
UN5OTY30K3B0CEIBABG1C MA5JV	S117452837	NUMBER	[M117440534] S117452837
YIF3UHJY6NBL4CTIJKC5WO	S117452838	NUMBER	[M117440534] S117452838

4WKN			
RQ0S2QL3GOC5TN2VMFRA EHN2T	S117452839	NUMBER	[M117440534] S117452839
YAI1MU3AHABHDDVGNYG DCRM0YM	S117452840	NUMBER	[M117440534] S117452840
TKBAORV1LGCDLRVHUIYC 3BHCX1	S117452841	NUMBER	[M117440534] S117452841
URE3NQFW6VBXCROTO5NF MKEAJA	S117452842	NUMBER	[M117440534] S117452842
TBTJ3FO0Y2BIRTGJ6MRNF26 D61	S117452843	NUMBER	[M117440534] S117452843
WKQONJG4TWCMES3II0BW VKYIIH	S117452844	NUMBER	[M117440534] S117452844

**7.33.28HUA\_GTPU\_MESS\_PROCESS\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440538] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6BN3XA2AIRVH002IND 6WBG	S117453225	NUMBER	[M117440538] S117453225
SAAN6BP3XA2AIRVH002IND 6WBG	S117453226	NUMBER	[M117440538] S117453226
SAAN6BR3XA2AIRVH002IND 6WBG	S117453227	NUMBER	[M117440538] S117453227
SAAN6BT3XA2AIRVH002IND 6WBG	S117453228	NUMBER	[M117440538] S117453228
R1QI4LWRU5CV0SG1W1CRY 4F2VO	S117453213	NUMBER	[M117440538] S117453213

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UDQRJ6DKYXBKRCTF0ITNR HOIPQ	S117453214	NUMBER	[M117440538] S117453214
XUXWKNNGHY5CPJDQFBLJR 53EYPK	S117453215	NUMBER	[M117440538] S117453215
TNWJ4AQI2ABVYRPQYQ6BL F6350	S117453216	NUMBER	[M117440538] S117453216
VTNDFGC4CDBB0TAKGTBC M41YMF	S117453217	NUMBER	[M117440538] S117453217
YUHILD65MSBHXE1CLBFOL GUJ04	S117453218	NUMBER	[M117440538] S117453218
YCLNOOYAVUCW4TG0GS4O 4UDHWQ	S117453219	NUMBER	[M117440538] S117453219
WEJASSAPOEBLVUVDRYN3 MRDHEM	S117453220	NUMBER	[M117440538] S117453220
SPTWRQQ2LTCSUTOMDJVC B2D4VA	S117453221	NUMBER	[M117440538] S117453221
Y6AQFSB2T4BVABFND652A 4DJFU	S117453222	NUMBER	[M117440538] S117453222
UTBAWKX45WBSJB0XMO2J DQWX4X	S117453223	NUMBER	[M117440538] S117453223
UXVFSFRYHMBULEFGLUKD WH4B4I	S117453224	NUMBER	[M117440538] S117453224

### 7.33.29HUA\_GTPU\_PKT\_TRANSF\_QOS\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440539] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SFC3F4UOF3B6YDRLMWQU IJNDX3	S117453313	NUMBER	[M117440539] S117453313
TXJK0441DSCVNSTY354NA NGXO0	S117453314	NUMBER	[M117440539] S117453314
SOBFNPLMUFC3TBIVS1R4	S117453315	NUMBER	[M117440539] S117453315

1E6UR			
XHVFHPRVJDCHUUQT1A1C USPH4C	S117453316	NUMBER	[M117440539] S117453316
R5ABSORCTJB01UJ60L0NX1 RFRJ	S117453317	NUMBER	[M117440539] S117453317
Y5H4LN1SAVCTRDH1KFRR E5HF01	S117453318	NUMBER	[M117440539] S117453318
RE0N14C0O4BQJTBSEFF12X 1TGQ	S117453319	NUMBER	[M117440539] S117453319
TYHFENYXBLCQEU2011SSF XSVCV	S117453320	NUMBER	[M117440539] S117453320
XXJ21IT42TBAIDON4JAPPY V0J6	S117453321	NUMBER	[M117440539] S117453321
UBIJST4J6OB6UCWNM02W6 ENXTT	S117453322	NUMBER	[M117440539] S117453322
WRV5OB4DLPCXYBRTV4LG FKXGUT	S117453323	NUMBER	[M117440539] S117453323
S6HLBFU6DVCU2DAII3RI6F DQPG	S117453324	NUMBER	[M117440539] S117453324
WP5BP0XAMEBWXTPLQ05L J1J2YY	S117453325	NUMBER	[M117440539] S117453325
YTRCR6FM6MC2FRESV45W OM3C0H	S117453326	NUMBER	[M117440539] S117453326
X3NQWHIQIBC3GRUEEQK3J D1OBN	S117453327	NUMBER	[M117440539] S117453327
YV045YXOSRQIEJQEWFT 6VVYN	S117453328	NUMBER	[M117440539] S117453328
WOVVJS0CN6B2ICMOMENY KRH4NR	S117453329	NUMBER	[M117440539] S117453329
SSDG6VUQ1LCDYUC4KDBN 6TWMMF	S117453330	NUMBER	[M117440539] S117453330
TWPLIQQP3RCY2SXICSF6A	S117453331	NUMBER	[M117440539] S117453331

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LTI5T			
SRH25QTKD1C11CMXE63QY 16OMA	S117453332	NUMBER	[M117440539] S117453332
WN4VNXVVOCBxebW3M6J KL6FIW4	S117453333	NUMBER	[M117440539] S117453333
VQXEG35V11BYDCEHIU51B UKUBB	S117453334	NUMBER	[M117440539] S117453334
U33C0XUYXXCEQBvWFC3B O3563R	S117453335	NUMBER	[M117440539] S117453335
TK44TD3GY0CECUQHUEX J2ET3B	S117453336	NUMBER	[M117440539] S117453336
WCESKR2GPVCU0BRXFXOF KIBINF	S117453337	NUMBER	[M117440539] S117453337
UYVMXDGVT6CY4C0X5J6Q 2HJ2VV	S117453338	NUMBER	[M117440539] S117453338
UY033AIEGGC3IRJQOY0C5J FKOL	S117453339	NUMBER	[M117440539] S117453339
VB2MLAEJTLCGORGywGR SJYWRCO	S117453340	NUMBER	[M117440539] S117453340
TPLUN2ETEUC6GTUVT0VW ECYEXA	S117453341	NUMBER	[M117440539] S117453341
SV4EWEDSSJCQASNVDM15 KCYUU5	S117453342	NUMBER	[M117440539] S117453342
YRLKGPgDDICSOS50A1HFR AAF00	S117453343	NUMBER	[M117440539] S117453343
WOKFBXOBQECITSAO13NA RVGRDJ	S117453344	NUMBER	[M117440539] S117453344
XYP5RF11XHCC1U06FAKY MOL6WT	S117453345	NUMBER	[M117440539] S117453345
SEYEYAKJWECCESsj0X1BO SUEB5	S117453346	NUMBER	[M117440539] S117453346
V5K1T1CDVBbNUDIRYAGL 0KTVFC	S117453347	NUMBER	[M117440539] S117453347
R16R654QUYBTHEXQOMU1 FY43KC	S117453348	NUMBER	[M117440539] S117453348

T1T2P6G20TBVDB6S51I0SBTV4M	S117453349	NUMBER	[M117440539] S117453349
UFCJD4JXY2BH2DQ14KNB5XKWYX	S117453350	NUMBER	[M117440539] S117453350
X4I5X1VSW1BGHUMIYFRE0DPHKL	S117453351	NUMBER	[M117440539] S117453351
YCEKE4MAM0BDCCKTGE0P4KLTRT	S117453352	NUMBER	[M117440539] S117453352
SQOYDWHU0CBTPD14QE6MLBONJL	S117453353	NUMBER	[M117440539] S117453353
YY05VTXISUBQXTQ63EGW W1XOP0	S117453354	NUMBER	[M117440539] S117453354
WHQQPBFD63CSJEI13M2EKQW0SJ	S117453355	NUMBER	[M117440539] S117453355
VWACP3DS5BC50ED5I6SYE434HL	S117453356	NUMBER	[M117440539] S117453356
WD2NREXDGECEB3SDNCMV6L2AXLI	S117453357	NUMBER	[M117440539] S117453357
URVC0HRATYCHGCGISED0AJF4JP	S117453358	NUMBER	[M117440539] S117453358
YEFMR5XRLKC33UQXNU4GWT5RCH	S117453359	NUMBER	[M117440539] S117453359
VN6F6HWC5PC0LCT65FM1BHDT3Q	S117453360	NUMBER	[M117440539] S117453360
UKSNBSMAH2C24THNN1Q3FRKB0V	S117453361	NUMBER	[M117440539] S117453361
TSVN0KCWRXCGVB5HQ35QRJBPHC	S117453362	NUMBER	[M117440539] S117453362
T4DVHNJM2LBR5DCBUSPK0WQ663	S117453363	FLOAT	[M117440539] S117453363
UPKBRTL0NVC46DO44E64PQ0C6R	S117453364	FLOAT	[M117440539] S117453364

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Y5GWRFB4VCQKU1Q2HF0 KERE6D	S117453365	FLOAT	[M117440539] S117453365
YJ4A2RVK4OBTERAFUQIC6 1SSAS	S117453366	FLOAT	[M117440539] S117453366
TL63XOCNY42AHC3LR02IN CNMDW	S117453367	NUMBER	[M117440539] S117453367
TL63XOENY42AHC3LR02IN CNMDW	S117453098	NUMBER	[M117440539] S117453098
TL63XOGNY42AHC3LR02IN CNMDW	S117453369	NUMBER	[M117440539] S117453369
TL63XOINY42AHC3LR02INC NMDW	S117453370	NUMBER	[M117440539] S117453370

### 7.33.30HUA\_GTPU\_PKT\_TRANSF\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440537] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YXLR0IHQA2B23SAB114XG X3QPE	S117453113	NUMBER	[M117440537] S117453113
VF03HCFDQ6CHDBLURGTX 0PXNJF	S117453114	NUMBER	[M117440537] S117453114
RA62OXAS4TBDUTKMS3LC QAYXCP	S117453115	NUMBER	[M117440537] S117453115
YYXSC23T2XBYQCVY6M5P H21GG4	S117453116	NUMBER	[M117440537] S117453116
SP2HHGG52EBKMTAWX4P0 LN61MJ	S117453117	NUMBER	[M117440537] S117453117
TJJFDBHB21CYOT5IHHSQC M6ODV	S117453118	NUMBER	[M117440537] S117453118
Y5VVR0FQILBCMEBQAA1U NLY4SR	S117453119	NUMBER	[M117440537] S117453119
YLQSUCVIEOBCEFFI2J4JN	S117453120	NUMBER	[M117440537] S117453120

RQOO			
SI55CVQLSACKHT4K0KEFE5 HFM0	S117453121	NUMBER	[M117440537] S117453121
Y5DM31HWYBBNMRG6VNL BLUGV6U	S117453122	NUMBER	[M117440537] S117453122
UAQ00JOAVLBGPSJTB6JMF L15AG	S117453123	NUMBER	[M117440537] S117453123
V111N1FSVEBQ0RIIWFME5 WDIJ	S117453124	NUMBER	[M117440537] S117453124
SW2IB0TK45B51CVLDJV6TH H044	S117453125	NUMBER	[M117440537] S117453125
XWIAQRXLU4CD6TYIHHS3 YEPF4Y	S117453126	NUMBER	[M117440537] S117453126
U5E6HNNRCJBPFRRWXLR5 BF1D1B	S117453127	NUMBER	[M117440537] S117453127
YS2U2006UHC6GT4KNWQFE QF3DV	S117453128	NUMBER	[M117440537] S117453128
TFUOU6C4AICPHEIY1RUSSE UYD2	S117453129	NUMBER	[M117440537] S117453129
RR22UWNGHFBWR0YU51H YXMKF1	S117453130	NUMBER	[M117440537] S117453130
XSJT36LFUNCOVB50LBIYG SXM6	S117453131	NUMBER	[M117440537] S117453131
WYNE34O6CNCCOCWHE4W FOK6DVU	S117453132	NUMBER	[M117440537] S117453132
UVSYRP43RXBYRUF3E565U 3XTQ0	S117453133	FLOAT	[M117440537] S117453133
VGMXTCR5B6BS2TWTS2LD NOTP10	S117453134	FLOAT	[M117440537] S117453134
UB4PMF4C3DCKADFQN04JA R30OC	S117453135	FLOAT	[M117440537] S117453135
XGTR3G2FLUCM2E4VN2NF	S117453136	FLOAT	[M117440537] S117453136

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GSU4FB			
XS2RNKUQSSC5DEKM0BV6 F2I521	S117453137	FLOAT	[M117440537] S117453137
YUILDY0TLYCQECDO5MM RTS0SE	S117453138	FLOAT	[M117440537] S117453138
R0HTYU1PLABGPTXOD6NSS MHYDY	S117453139	NUMBER	[M117440537] S117453139
WKDSDYXXTLCQNEJ616XD 4EBHGS	S117453140	NUMBER	[M117440537] S117453140
UMFOKRNWN4CG4UHR243J B43RA5	S117453141	NUMBER	[M117440537] S117453141
SCW3LICNAGC3KSXBXT6R3 D3IB0	S117453142	FLOAT	[M117440537] S117453142
RU3FTPISDBB5NBLKU4A1P W4PAA	S117453143	FLOAT	[M117440537] S117453143
VXNDLJW53TCKDDA0PO6S LVNNMQ	S117453144	FLOAT	[M117440537] S117453144
U4GKBIGHRWBLGDO2QXLF QMK0EO	S117453145	FLOAT	[M117440537] S117453145
UEURHRFLVQBKKRLIIHQV 23IMPG	S117453146	FLOAT	[M117440537] S117453146
TMREXEQMTHCIFD42EO63 WYBVVX	S117453147	FLOAT	[M117440537] S117453147
R5IT6MWUXVBWNUYKNX WA5J6GB6	S117453148	NUMBER	[M117440537] S117453148
VFTV2HSBRFCQME5G51O02 YX0BF	S117453149	NUMBER	[M117440537] S117453149
T0EMHKI62UBRYDRVQTT0B LX42R	S117453150	NUMBER	[M117440537] S117453150
UJQM6UCUWECBVRHDQ0U 0Y3DJR1	S117453151	NUMBER	[M117440537] S117453151
TL63XNUNY42AHC3LR02IN CNMDW	S117453152	NUMBER	[M117440537] S117453152
TL63XNWN42AHC3LR02IN CNMDW	S117453153	NUMBER	[M117440537] S117453153

TL63XNYYNY42AHC3LR02INC CNMDW	S117453154	NUMBER	[M117440537] S117453154
TL63XO1NY42AHC3LR02INC NMDW	S117453155	NUMBER	[M117440537] S117453155
TL63XO3NY42AHC3LR02INC NMDW	S117453156	NUMBER	[M117440537] S117453156
TL63XO5NY42AHC3LR02INC NMDW	S117453157	NUMBER	[M117440537] S117453157
TL63XOANY42AHC3LR02INC CNMDW	S117453158	NUMBER	[M117440537] S117453158
SAAN6BJ3XA2AIRVH002IND 6WBG	S117453159	FLOAT	[M117440537] S117453159
SAAN6BL3XA2AIRVH002IND 6WBG	S117453160	FLOAT	[M117440537] S117453160

### 7.33.31HUA\_GTPU\_UNKNWN\_IFACE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440535] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RSM6W1PFRTCXEBOA6W2R5 JVM6C	S117452913	NUMBER	[M117440535] S117452913
SM5OL34VFNB1GBQ3PXF0LS 611S	S117452914	NUMBER	[M117440535] S117452914
VNNW6MAC41CMCBB5PNU0 M52DFE	S117452915	NUMBER	[M117440535] S117452915
SFJ03KFBOLCXOBKSMJRL2D UXL4	S117452916	NUMBER	[M117440535] S117452916
XKOJTA5XWPCNGDKUTXFM 4RDLNW	S117452917	NUMBER	[M117440535] S117452917

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XHFLXXOUNQBQ4BFXN5L6 KM3G60	S117452918	NUMBER	[M117440535] S117452918
SO6J0D0FSIC11SREITDG0WL BKF	S117452919	NUMBER	[M117440535] S117452919
VM0X256UK3CG5TH26LPW61 523N	S117452920	NUMBER	[M117440535] S117452920
RVH0H24D10CMTD6KYECDE IXCQC	S117452921	NUMBER	[M117440535] S117452921
WDVMUKOEB0BPKC2YNA0 OPSPFRG	S117452922	NUMBER	[M117440535] S117452922
R6W6GGTUX3BLTEGIX3WO4 4PWW2	S117452923	NUMBER	[M117440535] S117452923
WB0YQEJGOTB46BBBPSDP0 EYJB0	S117452924	NUMBER	[M117440535] S117452924
ULMXTJT0TYBPDTHKWF5V KLY6L2	S117452925	NUMBER	[M117440535] S117452925
R06SSNXM5QBKYCE1OU5K2 V20ED	S117452926	NUMBER	[M117440535] S117452926
U3GGQF01HFCN0UAAQNBNI IAL1	S117452927	NUMBER	[M117440535] S117452927
WKICQT531WCEHSAJT FYLL ROUMN	S117452928	NUMBER	[M117440535] S117452928
TJX2SNTMD0BFLEBOOFQBQ RGRQ6	S117452929	NUMBER	[M117440535] S117452929
WADWDWPBLIB15DMVMJ1X MHGRHN	S117452930	NUMBER	[M117440535] S117452930
YKPH2TSUOHBB6EH1EGJEG TUQ3M	S117452931	NUMBER	[M117440535] S117452931
T1VTSMPHBTBSHCTB6FJRT UWO1C	S117452932	NUMBER	[M117440535] S117452932
U2YR44YXHWCK2S53FWCX MIT0JQ	S117452933	NUMBER	[M117440535] S117452933
RUUAUU2XRLB52CD0HUBR D56JNO	S117452934	NUMBER	[M117440535] S117452934
TIAP2H4L5FBSNUMDY3PYQ	S117452935	NUMBER	[M117440535] S117452935

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VPOHVWEADICRPSNLV0TY6 4C0FP	S117452936	NUMBER	[M117440535] S117452936
SVE2IH6GTDCQITLL641F4ML HSH	S117452937	NUMBER	[M117440535] S117452937
Y0N1I6SJ63BPHTD35XLLMT WJ6Q	S117452938	NUMBER	[M117440535] S117452938
XTW2SJGM03CGWS3SNJCDK R363X	S117452939	NUMBER	[M117440535] S117452939
TMTCFV2DFOBOTR6T3UIT4E SLVS	S117452940	NUMBER	[M117440535] S117452940
YWSVUHC22EC0DBUUMF4H 1Y2FTO	S117452941	NUMBER	[M117440535] S117452941
XL4MYGIDNBCDUSTEK3MC SXFHYB	S117452942	NUMBER	[M117440535] S117452942
USNRPGC2H4BKXRLUG6DBI R0PQB	S117452943	NUMBER	[M117440535] S117452943
W4SLO1U0G1CT6BC6ENMQ4 0JOB	S117452944	NUMBER	[M117440535] S117452944

### 7.33.32HUA\_INTER\_SYS\_SWITCH\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440580] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6JF3XA2AIRVH002IND 6WBG	S117457417	NUMBER	[M117440580] S117457417
SAAN6JH3XA2AIRVH002IND 6WBG	S117457418	NUMBER	[M117440580] S117457418

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SAAN6JJ3XA2AIRVH002IND6 WBG	S117457419	NUMBER	[M117440580] S117457419
SAAN6JL3XA2AIRVH002IND 6WBG	S117457420	NUMBER	[M117440580] S117457420
SAAN6JN3XA2AIRVH002IND 6WBG	S117457421	NUMBER	[M117440580] S117457421
SAAN6JP3XA2AIRVH002IND 6WBG	S117457422	NUMBER	[M117440580] S117457422
SAAN6JR3XA2AIRVH002IND 6WBG	S117457423	NUMBER	[M117440580] S117457423
SAAN6JT3XA2AIRVH002IND 6WBG	S117457424	NUMBER	[M117440580] S117457424
SAAN6JV3XA2AIRVH002IND 6WBG	S117457425	NUMBER	[M117440580] S117457425
SAAN6JX3XA2AIRVH002IND 6WBG	S117457426	NUMBER	[M117440580] S117457426
SAAN6K03XA2AIRVH002IND 6WBG	S117457427	NUMBER	[M117440580] S117457427
SAAN6K23XA2AIRVH002IND 6WBG	S117457428	NUMBER	[M117440580] S117457428
V1BQ5OLBRMBCGDMXY1N 14EQNJI	S117457413	NUMBER	[M117440580] S117457413
U5WDRYAFNWPVU6GVEW K4UTKE3	S117457414	NUMBER	[M117440580] S117457414
RYA2B6SUT5BNDRO2XAAO PMI64A	S117457415	NUMBER	[M117440580] S117457415
YF1XVWA04CB46RO50E3I5 WFK3P	S117457416	NUMBER	[M117440580] S117457416

### 7.33.33HUA\_IP\_NS\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHA R2(50)	[M117440666] SGSN_ID
TSTAMP		DATE	

INSTANCE_ID		NUMBER	
YN0ESMRXX4CAQE6NGJV P5PJG43	S117466013	NUMBER	[M117440666] S117466013
W2GLPAIOOTCB1D0YL41H QFHXNU	S117466014	NUMBER	[M117440666] S117466014
WDJ3RFQTRJBT5UC4UPFFF 0LMGV	S117466015	NUMBER	[M117440666] S117466015
XWFR2CSXLJCRTDGHL3Y0 33H4HS	S117466016	NUMBER	[M117440666] S117466016
TQXBXEK226BIMTC5GTFX PBQORY	S117466017	NUMBER	[M117440666] S117466017
U6XBUA1LBECBQB3AEP14I BHWLB	S117466018	NUMBER	[M117440666] S117466018
SG3YHFUN1KCBKEEU5AW 5SNDC0Q	S117466019	NUMBER	[M117440666] S117466019
WH2Q4PHPVWCN1RY4THR 6AR14SM	S117466020	NUMBER	[M117440666] S117466020

**7.33.34HUA\_IPSEC\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440529] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YK14U4FXOFBMTCP2QCO6V JG163	S117452313	NUMBER	[M117440529] S117452313
WYVPLUSDBIBE6RNT3P04Y AL2GH	S117452314	NUMBER	[M117440529] S117452314
VH3VVILYRIBSOCG3R21CIF Q5XV	S117452315	NUMBER	[M117440529] S117452315

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VAQOMBXM4LC4USCFC3XK UFSIVU	S117452316	NUMBER	[M117440529] S117452316
SM6EPY4NJACSCC6DXR1641 AI0W	S117452317	NUMBER	[M117440529] S117452317
TMESTVOC60C60RUIDFLDX WQJE5	S117452318	NUMBER	[M117440529] S117452318
VGUVUC4CQMKBSJRIEHR0IE RI02R	S117452319	NUMBER	[M117440529] S117452319
U0XWUTUYESBUGDLUP6X1 D4ANL1	S117452320	NUMBER	[M117440529] S117452320
W012WWOE20CNPCB3AQ4F3 IE4XJ	S117452321	NUMBER	[M117440529] S117452321
YBQKKS3RHEC1TRHT6K6A UP2XFX	S117452322	NUMBER	[M117440529] S117452322
SPNTPCFS5LC5ARMINXUV0 AA6VK	S117452323	NUMBER	[M117440529] S117452323
VFFXC5YXP1CMDERGFNEIS 2DLQS	S117452324	NUMBER	[M117440529] S117452324
S2WGBIVDX0BPIRTH0UW66 K4WHQ	S117452325	NUMBER	[M117440529] S117452325
UGCOOQ4QKYBTDD0YDQT V23FF30	S117452326	NUMBER	[M117440529] S117452326
VP6DYDOSJ6BOFTF1FO246F GSHS	S117452327	NUMBER	[M117440529] S117452327
XW33F56CIRBKRD5WN1YG1 F6I5G	S117452328	NUMBER	[M117440529] S117452328
WDJXDIW1DLBSURRFGAAD AXIPKK	S117452329	NUMBER	[M117440529] S117452329
XKBHSBDFLDBTEC4WEVAH HKG5MC	S117452330	NUMBER	[M117440529] S117452330
SHOPBTJUPBCI2UPYOPMAM QP5OX	S117452331	NUMBER	[M117440529] S117452331
VDC0BGBOWBCSOTYU4JLL SUS200	S117452332	NUMBER	[M117440529] S117452332
RN4ADB2KUB6LEW62NRG	S117452333	NUMBER	[M117440529] S117452333

CXH0LO			
SL01FXCC33BQND6JO22LRH H3BN	S117452334	NUMBER	[M117440529] S117452334
S0QEG0VT46BB6RWO5NK4A I3OUY	S117452335	NUMBER	[M117440529] S117452335
VC3QDMHCBDCDREJ1CVTC TQE62T	S117452336	NUMBER	[M117440529] S117452336
S3H6MO6A4ECO3T2WLSYW DFMGYH	S117452337	NUMBER	[M117440529] S117452337
X61YMVHSEMBJ1S4CB1PT6 YAR2T	S117452338	NUMBER	[M117440529] S117452338
VQSNP2YHFLCVFSD3GP5KV U2YNA	S117452339	NUMBER	[M117440529] S117452339
XDEKOAM0OEBFEC SHPJ24C 4FPJK	S117452340	NUMBER	[M117440529] S117452340
TFGA4VNWLG BSEDC4K0SE4 LU0GC	S117452341	NUMBER	[M117440529] S117452341
VGC3RCRGCSBBLDQU4RHK 3CE00K	S117452342	NUMBER	[M117440529] S117452342
RLIHOTUHMJBY6BNRQES0N G0GDR	S117452343	NUMBER	[M117440529] S117452343
XNIYFINEW5C3YT5GQKJIQJ LKYM	S117452344	NUMBER	[M117440529] S117452344
YKKBN135FLBY4SY115BHT DA2CR	S117452345	NUMBER	[M117440529] S117452345
UFWWHK3ASTCT5RX2W3KB XQARRW	S117452346	NUMBER	[M117440529] S117452346
VCJS341J5UB5WR46Y4KDOB K1C6	S117452347	NUMBER	[M117440529] S117452347
TDUQAQ22TWCQLTQYD1FK R6VQMO	S117452348	NUMBER	[M117440529] S117452348
U4BETE0SJ5CRFSEUDHLYL	S117452349	NUMBER	[M117440529] S117452349

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ODUIH			
YMHIXG0PHBCAVDXKP0FD 3YSAGM	S117452350	NUMBER	[M117440529] S117452350
W2XN34662IBNASOSWHG6Y PE4EY	S117452351	NUMBER	[M117440529] S117452351
UYWI13606GCWBUBOXE4O ARI2H1	S117452352	NUMBER	[M117440529] S117452352
WRDORLPVL2C4MBQ236C5 OKM1YW	S117452353	NUMBER	[M117440529] S117452353
SD3GBMX2MMCGSUHK0IW UEYB0O2	S117452354	NUMBER	[M117440529] S117452354
XQG2VGADDVBDLTK012LM B0MEYH	S117452355	NUMBER	[M117440529] S117452355
RYWGOMAPAYBQ0UIDN4K BXCKVEF	S117452356	NUMBER	[M117440529] S117452356
SFC66SQ5BOB64SIDSCQUPK 6L6H	S117452357	NUMBER	[M117440529] S117452357
V66QVCABPIBH5SWDOFFLS 0I223	S117452358	NUMBER	[M117440529] S117452358
RLJQW2JLTWCU4UJ2HL1LI0 FR4V	S117452359	NUMBER	[M117440529] S117452359
TDIEWX2MA6BYPCRHKRV4 WTYACH	S117452360	NUMBER	[M117440529] S117452360
RQGYL0QKF6CXVEQ0SRO44 L2P30	S117452361	NUMBER	[M117440529] S117452361
UG13HNGHQHBSHTAFSGVY 4QTCXD	S117452362	NUMBER	[M117440529] S117452362
YNRY0K630DBS4EESWWAW UH2GM2	S117452363	NUMBER	[M117440529] S117452363
RGRJYSIEY3CSST1341IA22U FLL	S117452364	NUMBER	[M117440529] S117452364
UQGKTX6TQYBFXTJ2IFRER FS1QO	S117452365	NUMBER	[M117440529] S117452365
WK5AWNJKIBBUKUWD4LD AVDDD6T	S117452366	NUMBER	[M117440529] S117452366

SGITJNKRSCCQFEMYXHMK KYWO4A	S117452367	NUMBER	[M117440529] S117452367
TWTMR33H5VBSEUDHIBVT0 O304J	S117452368	NUMBER	[M117440529] S117452368
RNUFSTPOV5B3BTUKW0KH FFBFBK	S117452369	NUMBER	[M117440529] S117452369
RFIAQGCHUUC1WD1AFPPC T6PWKQ	S117452370	NUMBER	[M117440529] S117452370
WDH6HYQKVACJQUN1LVS D0R03HG	S117452371	NUMBER	[M117440529] S117452371
UUQKHAMBH2C12SFXIL6SG 3EUUG	S117452372	NUMBER	[M117440529] S117452372
UQ1YPGS4V0BU3RY0BJ0QX3 RLSG	S117452373	NUMBER	[M117440529] S117452373
T3WO4EG5BDCIFULPLP0KY XP3AM	S117452374	NUMBER	[M117440529] S117452374

### 7.33.35HUA\_IU\_MODE\_ATTACH\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440572] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XFOMR3RODPC1WE1GTYYH WGHF2R	S117456613	NUMBER	[M117440572] S117456613
RMTMQPH4A4CHMBJ6YUE0 NK12SI	S117456614	NUMBER	[M117440572] S117456614
WWCRLS0WGTB2HCNV5165 T1UU0U	S117456615	NUMBER	[M117440572] S117456615
RIE2R5KRP0C0JTCMXCL0R4 YKR4	S117456616	NUMBER	[M117440572] S117456616

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V6LIKK3G0LCDRT13UMPEQ AY6UR	S117456617	NUMBER	[M117440572] S117456617
VB1KYWUB1OB5KRBKQD0 N1XOHBK	S117456618	NUMBER	[M117440572] S117456618
XS6TQ0HUOGCYCRJ4RH2IJO IQ22	S117456619	NUMBER	[M117440572] S117456619
SYSOOEGIRSBWXBBPMNQT PAGYPB	S117456620	NUMBER	[M117440572] S117456620
RTKTFENXDPCAFBRCBLAA KQKI45	S117456621	NUMBER	[M117440572] S117456621
WV0AH0PQ2OBXGCITNSHE HDKS5C	S117456642	NUMBER	[M117440572] S117456642
S2TRM13VLABJISDLOPPEJ2 COKS	S117456643	NUMBER	[M117440572] S117456643
WEVJKKF5MBBJHEF44GIP5S STTS	S117456622	NUMBER	[M117440572] S117456622
YSVKBWIIMLBXFEYARXD6 RFU2YC	S117456623	NUMBER	[M117440572] S117456623
TVLUANMWHUCTLEQ0HP40 J010E1	S117456624	NUMBER	[M117440572] S117456624
R0ACDUTV0GCD3S5HE4TEE PCXP0	S117456625	NUMBER	[M117440572] S117456625
TSSVC1HMLIB4NSC255VM5P 5QS0	S117456626	NUMBER	[M117440572] S117456626
U3CFKXQWMWCB5E24K4F3 WSI6VL	S117456629	NUMBER	[M117440572] S117456629
SRJRHWYAO3C5SBEOGRG ALIEXB	S117456630	NUMBER	[M117440572] S117456630
XBFA1GXRVNCFESQQT1IFT TQC5T	S117456631	NUMBER	[M117440572] S117456631
WW2IXUGRCHCE2SD6MQY XKAVA4D	S117456632	NUMBER	[M117440572] S117456632
VPWROLMUCOBVDRMJVAX 1O2BIIA	S117456644	NUMBER	[M117440572] S117456644
VN6306T36TCFYDAGMX3GG	S117456645	NUMBER	[M117440572] S117456645

PJWJD			
V6MIDVJB6CBITCNKIDNT2X U2LG	S117456627	NUMBER	[M117440572] S117456627
SG3WFEXHD3CV4ELVXXVG 3B6WGD	S117456628	NUMBER	[M117440572] S117456628
SX1UYEJ0HTBKBT5ESR6Y41 XBU0	S117456633	NUMBER	[M117440572] S117456633
YKF3R2BKJBBG3DESDFSBG GBOI4	S117456634	NUMBER	[M117440572] S117456634
RLIY5BYUH6BN1CREE1C2V XLYSX	S117456635	NUMBER	[M117440572] S117456635
TFCFYG31BSCXTU5CLMEO KEU6CF	S117456636	NUMBER	[M117440572] S117456636
WP4RCRY352CIYCB3WACYS R1UMA	S117456637	NUMBER	[M117440572] S117456637
RDD5SL2WQRB4NTEYHBD6 Y2QLG4	S117456638	NUMBER	[M117440572] S117456638
V2HLQ2KLTXBNPUQIMPMM AOWOK0	S117456639	NUMBER	[M117440572] S117456639
WCL3K2N2G5CUVDNBTP5C THNGGD	S117456640	NUMBER	[M117440572] S117456640
XWIN4FO6WQCJPSJNKH23E NHWWS	S117456641	NUMBER	[M117440572] S117456641
Y10AVG6PL1BFOTENDO0VR 6BDDL	S117456646	NUMBER	[M117440572] S117456646
YICFV6NTTUBL5TB1RXD263 MRPP	S117456647	NUMBER	[M117440572] S117456647
WRJEY61L35BK KU0HMYH2 WX1NOG	S117456648	NUMBER	[M117440572] S117456648
UXFGK6Q1GSCW3SS5TJ4XA JR6GG	S117456649	FLOAT	[M117440572] S117456649
SPQNYLIK51C1PE1EC11I6SS	S117456650	NUMBER	[M117440572] S117456650

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4DG			
YSEIVVRDSYBLWBOCVW2 MPPAOFE	S117456651	NUMBER	[M117440572] S117456651
X2OS5YOVR1CNIENJEBKY2 FODGP	S117456652	NUMBER	[M117440572] S117456652
YO42ONTDK1CTTU4XU0QX OB14N2	S117456653	FLOAT	[M117440572] S117456653
S3YYL5GW52BSOTDLRPT1W OITV1	S117456654	NUMBER	[M117440572] S117456654
WJ4DG0KOIICVLUA3YE0P3J ULFP	S117456655	NUMBER	[M117440572] S117456655
U1C0HNUWVOCEXBH15SSJT A4OST	S117456656	NUMBER	[M117440572] S117456656
XKFSQOG6WXCVCDBRRH0 QTS02B6	S117456657	FLOAT	[M117440572] S117456657
WK46VY0R0XCWTU113WEU CJ5OMY	S117456658	NUMBER	[M117440572] S117456658
WY5IFW1OJKCN4COWREQR IILUKO	S117456659	NUMBER	[M117440572] S117456659
SAAN6FN3XA2AIRVH002IND 6WBG	S117456660	NUMBER	[M117440572] S117456660
SAAN6FP3XA2AIRVH002IND 6WBG	S117456661	NUMBER	[M117440572] S117456661
SAAN6FR3XA2AIRVH002IND 6WBG	S117456662	NUMBER	[M117440572] S117456662
SAAN6FT3XA2AIRVH002IND 6WBG	S117456663	NUMBER	[M117440572] S117456663
SAAN6FV3XA2AIRVH002IND 6WBG	S117456664	NUMBER	[M117440572] S117456664
SAAN6FX3XA2AIRVH002IND 6WBG	S117456665	NUMBER	[M117440572] S117456665
SAAN6G03XA2AIRVH002IND 6WBG	S117456666	NUMBER	[M117440572] S117456666

**7.33.36HUA\_IU\_MODE\_DETACH\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440573] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
U6EXLM4M3ABXYRQ1KOD21XRANW	S117456713	NUMBER	[M117440573] S117456713
UMM5XB23FQCFYEGW1HIRHBPLA5	S117456714	NUMBER	[M117440573] S117456714
XRXAIQNLLYBNARGOVORNP6XLQ	S117456715	NUMBER	[M117440573] S117456715
TXNASMR21IBMVB3J6COJ0TE5U0	S117456716	NUMBER	[M117440573] S117456716
V5M3T4OBACB4CEG160KK1TXTR4	S117456717	NUMBER	[M117440573] S117456717
YPO1L61DGMBOVU4SVXDGXUKB6	S117456718	NUMBER	[M117440573] S117456718
XFXMJH0SQCBDOTRWD0BQQPWTWV	S117456719	NUMBER	[M117440573] S117456719
WEY2H0WVWR2AIR02B04U3BMV6J	S117456720	NUMBER	[M117440573] S117456720

**7.33.37HUA\_IU\_MODE\_INTER\_RAU\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440575] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YC51H5DRU1BCTRVQGJYU6	S117456913	NUMBER	[M117440575] S117456913

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G26K6			
S4CJWYHSMCC6MDMANP0P DFUNFV	S117456914	NUMBER	[M117440575] S117456914
R244TW2TXTCO6EPEES4VIB P4FU	S117456915	NUMBER	[M117440575] S117456915
XBY3KOPJXVB5KR12CEJE5 WLSE2	S117456916	NUMBER	[M117440575] S117456916
VWB2EWBCQXB22TBMAMR JYHVAf2	S117456917	NUMBER	[M117440575] S117456917
RHQ3WPEWEBEC6REAQDDW 0MBODLK	S117456918	NUMBER	[M117440575] S117456918
T0VCKB4TY5BNYEILV0OHR Q5F25	S117456919	NUMBER	[M117440575] S117456919
UUA EJBU2IVCXWC0NOJVO W444I0	S117456920	NUMBER	[M117440575] S117456920
YS6NCRP3U1BP3CI4LKJAYJR HDM	S117456921	NUMBER	[M117440575] S117456921
VEJDFAT30QCCNDFN5NCJW DCB0N	S117456922	NUMBER	[M117440575] S117456922
XY2K6PL4EIBMXS2EHAQ51Q E433	S117456923	NUMBER	[M117440575] S117456923
RHRCF46564CFODMY3UTC0 YAHHG	S117456924	NUMBER	[M117440575] S117456924
W2VRCCERC0CSRRAIEB51P OJ3UE	S117456925	NUMBER	[M117440575] S117456925
VD33DCJA2AB0DBQK3DEXK 6XY0M	S117456926	NUMBER	[M117440575] S117456926
US1UDIBIY3BEXC6IFA3GCF U40D	S117456927	NUMBER	[M117440575] S117456927
V0MH2HP3Q6C3WS2JNCEIA0 5AVG	S117456928	NUMBER	[M117440575] S117456928
SK2X2NOHQJBCYDQ2YXTVS TG5WK	S117456929	NUMBER	[M117440575] S117456929
XEDDHJKBP4B4GCB6RCNWI 4YJOE	S117456930	NUMBER	[M117440575] S117456930

YG6V2WSYXXB6SCLJNYW0 D3KMWD	S117456931	NUMBER	[M117440575] S117456931
WCRODP23ABB3NREXYWCU 22Y3TI	S117456932	NUMBER	[M117440575] S117456932
R5T1N6LGWVCXCUJ56IGJ160 3SY	S117456933	NUMBER	[M117440575] S117456933
XX6JQBRE5ICAWTJHJVSGIH 22CL	S117456934	NUMBER	[M117440575] S117456934
YWUC2OBY03BWSC1G1PQSP 164C5	S117456935	NUMBER	[M117440575] S117456935
VS0IU65EXNB6BT4Q3JMB1S3 4C5	S117456936	NUMBER	[M117440575] S117456936
T0JJYC24MTB6WDLSSB6MB TS31I	S117456937	NUMBER	[M117440575] S117456937
X5QL0TLK4FCNTBRFAT3JEI V1GC	S117456938	NUMBER	[M117440575] S117456938
SU6MIKKKESCLGUY5OJSBS MDXDM	S117456939	NUMBER	[M117440575] S117456939
YA6VIB4X50B1LRP3BU3M1P FSYH	S117456940	NUMBER	[M117440575] S117456940
SAAN6GX3XA2AIRVH002IND 6WBG	S117456943	NUMBER	[M117440575] S117456943
SAAN6H03XA2AIRVH002IND 6WBG	S117456944	NUMBER	[M117440575] S117456944
SAAN6H23XA2AIRVH002IND 6WBG	S117456945	NUMBER	[M117440575] S117456945
SAAN6H43XA2AIRVH002IND 6WBG	S117456946	NUMBER	[M117440575] S117456946
SAAN6H63XA2AIRVH002IND 6WBG	S117456947	NUMBER	[M117440575] S117456947
SAAN6HB3XA2AIRVH002IND 6WBG	S117456948	NUMBER	[M117440575] S117456948

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SAAN6HD3XA2AIRVH002IND6WBG	S117456949	NUMBER	[M117440575] S117456949
SAAN6HF3XA2AIRVH002IND6WBG	S117456950	NUMBER	[M117440575] S117456950
SAAN6HH3XA2AIRVH002IND6WBG	S117456951	NUMBER	[M117440575] S117456951
SAAN6HJ3XA2AIRVH002IND6WBG	S117456952	NUMBER	[M117440575] S117456952
SAAN6HL3XA2AIRVH002IND6WBG	S117456953	NUMBER	[M117440575] S117456953
SAAN6HN3XA2AIRVH002IND6WBG	S117456954	NUMBER	[M117440575] S117456954
SAAN6HP3XA2AIRVH002IND6WBG	S117456955	NUMBER	[M117440575] S117456955
SAAN6HR3XA2AIRVH002IND6WBG	S117456956	NUMBER	[M117440575] S117456956
SAAN6HT3XA2AIRVH002IND6WBG	S117456957	NUMBER	[M117440575] S117456957
SAAN6HV3XA2AIRVH002IND6WBG	S117456958	NUMBER	[M117440575] S117456958
SAAN6HX3XA2AIRVH002IND6WBG	S117456959	NUMBER	[M117440575] S117456959
SAAN6I03XA2AIRVH002IND6WBG	S117456960	NUMBER	[M117440575] S117456960
SAAN6I23XA2AIRVH002IND6WBG	S117456961	NUMBER	[M117440575] S117456961
SAAN6I43XA2AIRVH002IND6WBG	S117456962	NUMBER	[M117440575] S117456962
SAAN6I63XA2AIRVH002IND6WBG	S117456963	NUMBER	[M117440575] S117456963
SAAN6IB3XA2AIRVH002IND6WBG	S117456964	NUMBER	[M117440575] S117456964
SAAN6ID3XA2AIRVH002IND6WBG	S117456965	NUMBER	[M117440575] S117456965
SAAN6IF3XA2AIRVH002IND6WBG	S117456966	NUMBER	[M117440575] S117456966

WBG			
SAAN6IH3XA2AIRVH002IND 6WBG	S117456967	NUMBER	[M117440575] S117456967
WEY2H0YVWR2AIR02B04U3 BMV6J	S117456941	NUMBER	[M117440575] S117456941
WEY2H11VWR2AIR02B04U3B MV6J	S117456942	NUMBER	[M117440575] S117456942

**7.33.38HUA\_IU\_MODE\_INTRA\_RAU\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440574] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YWBXOJ2QNYBQ1SQQ4E0A AJTDJG	S117456813	NUMBER	[M117440574] S117456813
YYQES4MVTOC4LBJTQB2F NX43J6	S117456814	NUMBER	[M117440574] S117456814
XTOQDYHAIYBO1TQKYK3 XTY32PI	S117456815	NUMBER	[M117440574] S117456815
VDUAP5IKBECY4CVEELEQ V1300P	S117456816	NUMBER	[M117440574] S117456816
UYQ4QNX6H1BTACTUHEF XVWIBHM	S117456817	NUMBER	[M117440574] S117456817
VESAUF0FT3BGFD1VJ53CX 4SXC4	S117456818	NUMBER	[M117440574] S117456818
S1HESINOG3BKUUQ5NBXG FNYJ5V	S117456819	NUMBER	[M117440574] S117456819
VWHRFIKF2CCJQC3NVKJO1 63DDR	S117456820	NUMBER	[M117440574] S117456820

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XSBEIWOIE4C0XTOW11PJO KS3LQ	S117456832	NUMBER	[M117440574] S117456832
YAY32V26VGBPXDG2YGDG JHTBCR	S117456821	NUMBER	[M117440574] S117456821
VJEP3AVQPTBILRJY3FFMO Y6EPX	S117456822	NUMBER	[M117440574] S117456822
UY4RV65TDMCLNRCUNQQ 02N455R	S117456823	NUMBER	[M117440574] S117456823
V1NU6L2JBRCC0TKSCM5B V3BXY	S117456824	NUMBER	[M117440574] S117456824
VP4DRNJL26BSOTMVN0LT UQ1FGO	S117456825	NUMBER	[M117440574] S117456825
RO3HVSUVGTC14TMVH5B VXSJA06	S117456826	NUMBER	[M117440574] S117456826
SJY61LLGTCCMCCPBJV2AQ HHQPI	S117456827	NUMBER	[M117440574] S117456827
U4NODSHO14BSKUFNF4D4 CGME4C	S117456828	NUMBER	[M117440574] S117456828
VQ3V65KJ44C5VCHBVA6NC H4V2O	S117456829	NUMBER	[M117440574] S117456829
SYPL0THNWPCQYRUCJ1BL IQF3F6	S117456830	NUMBER	[M117440574] S117456830
YX0VS5H21NBNHS3MF21H KGI1G4	S117456833	NUMBER	[M117440574] S117456833
XJR4AYXCHYBMFU1WWBY J5DH6FR	S117456831	NUMBER	[M117440574] S117456831
TL63XQ1NY42AHC3LR02IN CNMDW	S117456834	NUMBER	[M117440574] S117456834
TL63XQ3NY42AHC3LR02IN CNMDW	S117456835	NUMBER	[M117440574] S117456835
TL63XQ5NY42AHC3LR02IN CNMDW	S117456836	NUMBER	[M117440574] S117456836
TL63XQANY42AHC3LR02IN CNMDW	S117456837	NUMBER	[M117440574] S117456837
TL63XQCNY42AHC3LR02IN	S117456838	NUMBER	[M117440574] S117456838

CNMDW			
TL63XQENY42AHC3LR02IN CNMDW	S117456839	NUMBER	[M117440574] S117456839
TL63XQGNY42AHC3LR02IN CNMDW	S117456840	NUMBER	[M117440574] S117456840
TL63XQINY42AHC3LR02INC NMDW	S117456841	NUMBER	[M117440574] S117456841
TL63XQKNY42AHC3LR02IN CNMDW	S117456842	NUMBER	[M117440574] S117456842
SAAN6G23XA2AIRVH002IN D6WBG	S117456843	NUMBER	[M117440574] S117456843
SAAN6G43XA2AIRVH002IN D6WBG	S117456844	NUMBER	[M117440574] S117456844
SAAN6G63XA2AIRVH002IN D6WBG	S117456845	NUMBER	[M117440574] S117456845
SAAN6GB3XA2AIRVH002IN D6WBG	S117456846	NUMBER	[M117440574] S117456846
SAAN6GD3XA2AIRVH002IN D6WBG	S117456847	NUMBER	[M117440574] S117456847
SAAN6GF3XA2AIRVH002IN D6WBG	S117456848	NUMBER	[M117440574] S117456848
SAAN6GH3XA2AIRVH002IN D6WBG	S117456849	NUMBER	[M117440574] S117456849
SAAN6GJ3XA2AIRVH002IN D6WBG	S117456850	NUMBER	[M117440574] S117456850
SAAN6GL3XA2AIRVH002IN D6WBG	S117456851	NUMBER	[M117440574] S117456851
SAAN6GN3XA2AIRVH002IN D6WBG	S117456852	NUMBER	[M117440574] S117456852
SAAN6GP3XA2AIRVH002IN D6WBG	S117456853	NUMBER	[M117440574] S117456853
SAAN6GR3XA2AIRVH002IN	S117456854	NUMBER	[M117440574] S117456854

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D6WBG			
SAAN6GT3XA2AIRVH002IN D6WBG	S117456855	NUMBER	[M117440574] S117456855
SAAN6GV3XA2AIRVH002IN D6WBG	S117456856	NUMBER	[M117440574] S117456856

### 7.33.39HUA\_IU\_MODE\_L3\_MM\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440571] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WTQVTKBKC1CJGRPVTXS S1NQJ51	S117456513	NUMBER	[M117440571] S117456513
VTQP6KVQ0YCJJBVR5OCO LOJH6O	S117456514	NUMBER	[M117440571] S117456514
XWD6GEC5KWCI1RQVXR6 ICRMJCJ	S117456515	NUMBER	[M117440571] S117456515
UPB2GUDQKJBKVDMV6W BU6FN1FI	S117456516	NUMBER	[M117440571] S117456516
Y5GS4AITCGCQXTLWHRO NPO3T21	S117456517	NUMBER	[M117440571] S117456517
RE6PASJWL3BCOSFO5POR MPJJHE	S117456518	NUMBER	[M117440571] S117456518
TN6EPWLF5NCPOTJFFPR0 ATPYRC	S117456519	NUMBER	[M117440571] S117456519
XMBVV51WQFCPUSXUO65 Y1PDOF6	S117456520	NUMBER	[M117440571] S117456520
RNAJDD2QJHCX1C35VYUG 4CSQH0	S117456521	NUMBER	[M117440571] S117456521
Y6U6GBYKJJBUBC5IUAIT3 01BSP	S117456522	NUMBER	[M117440571] S117456522

**7.33.40HUA\_IU\_MODE\_PAGING\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440577] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XFY3FR6NS4B4KUPBR204Y OWOMT	S117457113	NUMBER	[M117440577] S117457113
Y1WKIUQN1WBTEDEXNDP YKAGYSC	S117457114	NUMBER	[M117440577] S117457114
UCOI30I1HRCJPTJBWOIQ2T KLYB	S117457115	NUMBER	[M117440577] S117457115
WEY2H13VWR2AIR02B04U3 BMV6J	S117457116	NUMBER	[M117440577] S117457116
WEY2H15VWR2AIR02B04U3 BMV6J	S117457117	NUMBER	[M117440577] S117457117
WEY2H1AVWR2AIR02B04U 3BMV6J	S117457118	NUMBER	[M117440577] S117457118

**7.33.41HUA\_IU\_MODE\_PDP\_ACT\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440600] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
U6G4K5CY5JBNCE1VWR1HU RHLCL	S117459413	NUMBER	[M117440600] S117459413
X32D0G61QYB06SC15VP5LY U30C	S117459414	NUMBER	[M117440600] S117459414
WNPf2HD4DUBOTBEU1MBX	S117459415	NUMBER	[M117440600] S117459415

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MS5AMB			
YGCYNQ24WSB12CQM1MFY TAJNAO	S117459416	NUMBER	[M117440600] S117459416
SEIGKEEHWCCIRELENNKH GXCOEJ	S117459417	NUMBER	[M117440600] S117459417
UHGTRPCJDBCFSF2FNPCP M1532	S117459418	NUMBER	[M117440600] S117459418
VNUCKKDU0CBC4UMGXM4 15RKBPP	S117459419	NUMBER	[M117440600] S117459419
U4J1P2RJQSCPRUTFL1WQLK EDGO	S117459420	NUMBER	[M117440600] S117459420
RXK4J5V5HGBK4UW5A5OG GA00IA	S117459421	NUMBER	[M117440600] S117459421
WY0EMMQE0WB1QRLDT53 HHHWIGN	S117459422	NUMBER	[M117440600] S117459422
YNNG6VYE2MCATDMEJ0KU S3UEHU	S117459423	NUMBER	[M117440600] S117459423
TGSLFQ4DSACC2UJFPILIPGF TRB	S117459424	NUMBER	[M117440600] S117459424
RKVOWYPHBHBK3DVL03V6 BROHGW	S117459425	NUMBER	[M117440600] S117459425
UCCHJM464LCDUDU116TNX YYJJW	S117459426	NUMBER	[M117440600] S117459426
VY3TJ604TWBPUDCKGLPPI U3FO5	S117459427	NUMBER	[M117440600] S117459427
SFUWFBBPYSBFFBSRLXKQ1 TELYD	S117459428	NUMBER	[M117440600] S117459428
TH54OWEKERCX3BHB10LA YXIX6Y	S117459429	NUMBER	[M117440600] S117459429
U04A0ISXVQCFLCMTWNXJII L3MY	S117459430	NUMBER	[M117440600] S117459430
YGFFQTWNLNCICUK5UHBX FG6OXD	S117459431	NUMBER	[M117440600] S117459431
SCGKK5XKKPCUNRHYJIUJH L6NEC	S117459432	NUMBER	[M117440600] S117459432

RGIHXXVKICPUBRKLQXJ GP0IFL	S117459433	NUMBER	[M117440600] S117459433
YTNT34B64LCQRUOKL3F4YI BRYH	S117459434	NUMBER	[M117440600] S117459434
R362SRS22PCU0EVKQNXNR XFNNH	S117459435	NUMBER	[M117440600] S117459435
VMILSO4DLICI4RTGWDP5YJ GCB2	S117459436	NUMBER	[M117440600] S117459436
SKTWEWCJ65BS6RC2WUPSY 2P2WT	S117459437	NUMBER	[M117440600] S117459437
Y5J3VW5JAO6BDQFOIL6BS IASS	S117459438	NUMBER	[M117440600] S117459438
USHSLP4C4TCKMRLDGQTIV ET5X1	S117459439	NUMBER	[M117440600] S117459439
SJFOD1VTKSCRGDU1F1I2V5 0O36	S117459440	NUMBER	[M117440600] S117459440
XNDV01S4TJBEBTTLVXBMX KCICR	S117459441	NUMBER	[M117440600] S117459441
SSDFR0KNRYCKWUCIU5SY DRWFV2	S117459442	NUMBER	[M117440600] S117459442
RV0TWHUUDBCRCCWUP5D CFJDJL0	S117459443	NUMBER	[M117440600] S117459443
TIL04E02CHBSAB6BXPB2L4 M5UJ	S117459444	NUMBER	[M117440600] S117459444
RTED3AEQXVC2LD2OKWNQ HCLJ6S	S117459445	NUMBER	[M117440600] S117459445
XRQWOVXYTKCOABC6SE3 OKRYUJH	S117459446	NUMBER	[M117440600] S117459446
V2IFK65NR1BG3S1TV4GPISK AYO	S117459447	NUMBER	[M117440600] S117459447
S5J4XQDIDOBRYCE1POD6H AJTSJ	S117459448	NUMBER	[M117440600] S117459448

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UOQX2DKHGMB6BTVM2MX E63CE02	S117459449	NUMBER	[M117440600] S117459449
S5XL3VI4MTCA1DP0U31QIN HY6P	S117459450	NUMBER	[M117440600] S117459450
YKRJLTEE6UCQME40OVJA2 6NCNI	S117459451	NUMBER	[M117440600] S117459451
RQ6STT5MQTBG5CFC6W3X NWRI3W	S117459452	NUMBER	[M117440600] S117459452
RJ6D0UNXDCCCTUD2K343S X6ODU	S117459453	NUMBER	[M117440600] S117459453
WUXXUOFATMBEISRC2AMF QEWK2M	S117459454	NUMBER	[M117440600] S117459454
S6V6DMNM5GCAWDKBLGW FP3XSQ4	S117459455	NUMBER	[M117440600] S117459455
YPSXAX2GBMCBXS50MSU 56RDMJ	S117459456	NUMBER	[M117440600] S117459456
WA6QJ3HBO0C2BDO0H0TIV 46GIH	S117459457	NUMBER	[M117440600] S117459457
TSH2R2TK3ABGLCC1HGI1RP Q6SP	S117459458	NUMBER	[M117440600] S117459458
SMPPCQBQYRC1EUH1UVKP KH6R5Y	S117459459	NUMBER	[M117440600] S117459459
XA3ST0HTNECTQU0DKL4EA OYNKG	S117459460	NUMBER	[M117440600] S117459460
VSKBSTV2VXCGTT6AIYNH WEXV52	S117459461	NUMBER	[M117440600] S117459461
VOCFDXDIEBC4CCYMC5B3 BX3DLY	S117459462	NUMBER	[M117440600] S117459462
SEH5IJVPX3BCWSU1YBU4A PVXSM	S117459463	NUMBER	[M117440600] S117459463
RF16X455WVCPGUW2JJ5D6K HN2O	S117459464	NUMBER	[M117440600] S117459464
YOJ6D4I02LB04E545LJHDNP GK4	S117459465	NUMBER	[M117440600] S117459465
YAAD0OSKRYCAMR1WOJ1Q	S117459466	NUMBER	[M117440600] S117459466

US65SU			
T6OPM1YSXACCBUFAJPSWKDE6J	S117459467	NUMBER	[M117440600] S117459467
V5IITWTQJ3C6QU4DGEG0OI5TMR	S117459468	NUMBER	[M117440600] S117459468
VHSIK4WECBCXHB6UYK4K3YMVMG	S117459469	NUMBER	[M117440600] S117459469
UG11YARMIDBG3RCCCKNAXMR2E4	S117459470	NUMBER	[M117440600] S117459470
UKOHW60PN3CTNRHGN5NINQ3OOB	S117459471	FLOAT	[M117440600] S117459471
UHQC3NVHOPBOWEYB4E1SJ10G5U	S117459472	NUMBER	[M117440600] S117459472
VGX1BBTSSUCHFDFGWH0NRRXKMX	S117459473	NUMBER	[M117440600] S117459473
SLLCWE12JDBTVBG3O6G00KN4NE	S117459474	NUMBER	[M117440600] S117459474
W0RPVI4QPLC24TNB0UVWKIKX0T	S117459475	NUMBER	[M117440600] S117459475
XBSX5NEJ2TCS0S53LNHT2EOEQG	S117459476	NUMBER	[M117440600] S117459476
T2EAGBL36MB6XTN3XQX2UGGUEK	S117459477	NUMBER	[M117440600] S117459477
T5C25UX22CBDMTSUK6C5MCUTRT	S117459478	NUMBER	[M117440600] S117459478
TWQ5CTEM2EBCYS1FGFT605QJYR	S117459479	NUMBER	[M117440600] S117459479
SAAN6OB3XA2AIRVH002IND6WBG	S117459480	NUMBER	[M117440600] S117459480
SAAN6OD3XA2AIRVH002IND6WBG	S117459481	NUMBER	[M117440600] S117459481
SAAN6OF3XA2AIRVH002IND	S117459482	NUMBER	[M117440600] S117459482

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6WBG			
SAAN6OH3XA2AIRVH002IND6WBG	S117459483	NUMBER	[M117440600] S117459483
SAAN6OJ3XA2AIRVH002IND6WBG	S117459484	NUMBER	[M117440600] S117459484
SAAN6OL3XA2AIRVH002IND6WBG	S117459485	NUMBER	[M117440600] S117459485
SAAN6ON3XA2AIRVH002IND6WBG	S117459495	NUMBER	[M117440600] S117459495
SAAN6OP3XA2AIRVH002IND6WBG	S117459496	NUMBER	[M117440600] S117459496

### 7.33.42HUA\_IU\_MODE\_PDP\_DEACT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440601] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6OR3XA2AIRVH002IND6WBG	S117459519	NUMBER	[M117440601] S117459519
Y0EOQCQJGFC34RRLSEIGMSOFNF	S117459513	NUMBER	[M117440601] S117459513
U1K1NXO30NBURRKTNILOEXI664	S117459514	NUMBER	[M117440601] S117459514
W5LI6I1YTWCY0CYALAO P4T0OOB	S117459515	NUMBER	[M117440601] S117459515
YYDJB05HTC2XREMF5W5SS2XSD2	S117459516	NUMBER	[M117440601] S117459516
UR151FXPK0CDQUUKY10XCVIOCI	S117459517	NUMBER	[M117440601] S117459517
SL1J0404FNBV0ERMHCI53RVGJE	S117459518	NUMBER	[M117440601] S117459518

**7.33.43HUA\_IU\_MODE\_PDP\_MODIF\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440602] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XRGNY42AHC3LR02INC NMDW	S117459623	NUMBER	[M117440602] S117459623
TL63XRINY42AHC3LR02INC MDW	S117459624	NUMBER	[M117440602] S117459624
TL63XRKNY42AHC3LR02INC NMDW	S117459625	NUMBER	[M117440602] S117459625
TL63XRMNY42AHC3LR02INC NMDW	S117459626	NUMBER	[M117440602] S117459626
XMIYXMRB2YBIOTBNEQNT HN1VTV	S117459613	NUMBER	[M117440602] S117459613
SWP6VMFU0NB0VD2A4QPI4 Q2MW4	S117459614	NUMBER	[M117440602] S117459614
RJWQMO623CB1SC4CB23NW 6M2TT	S117459615	NUMBER	[M117440602] S117459615
SBT0EH4DOYBPRTU5NKUYG GEE61	S117459616	NUMBER	[M117440602] S117459616
VIAFVDRNCTBLPCNXU3LIW 6E0MB	S117459617	NUMBER	[M117440602] S117459617
SKJCKSJIWLBWFEQEW2AKD LJMDM	S117459618	NUMBER	[M117440602] S117459618
WNWAY6W1LFCYEUVVMCC GV0HOCF	S117459619	NUMBER	[M117440602] S117459619
Y4NMHIRHSJCUDUAKD1ERO 4K2LN	S117459620	NUMBER	[M117440602] S117459620
VTE0QBYPVSC42EVCAWGG	S117459621	NUMBER	[M117440602] S117459621

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UASLNH			
UOE002QFJTCUIC5RL0LBMV OS6C	S117459622	NUMBER	[M117440602] S117459622

#### 7.33.44HUA\_IU\_MODE\_PDP\_REJECT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440664] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YAEA22VC4MBW6C1SEQI0 GUFXAK	S117465813	NUMBER	[M117440664] S117465813
YGHBNVVCCCCTQUII2QD 04GA3F2	S117465814	NUMBER	[M117440664] S117465814
TUI3DKI4YJBUXE1ON0CSP Y5GK6	S117465815	NUMBER	[M117440664] S117465815

#### 7.33.45HUA\_IU\_MODE\_PDP\_RESERVE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440604] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
STNK0TW30KCQ6SNX33YN X4V0DK	S117459813	NUMBER	[M117440604] S117459813
Y52MOPG5MQCUDTU3T01 KNYF2VM	S117459814	NUMBER	[M117440604] S117459814
XHFNBXI5DDC33UF05NUCI H5PM0	S117459815	NUMBER	[M117440604] S117459815

#### 7.33.46HUA\_IU\_MODE\_RAB\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
-------------	--------------	-----------	----------------------

SGSN_ID		VARCHAR2(50)	[M117440605] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SA5VKGDPD0B40T64H2TLY YSOVX	S117459913	NUMBER	[M117440605] S117459913
RMIHTQ1SQBBRODUYOEJA 3325GK	S117459914	NUMBER	[M117440605] S117459914
WGD3FMRRVRBYHBN26M4 FWJQSMS	S117459915	NUMBER	[M117440605] S117459915
TED4YIRBO2BMXSKY6XJN A21F2B	S117459916	NUMBER	[M117440605] S117459916
RG6RHHMH104CKKU1OELW UU3TRID	S117459917	NUMBER	[M117440605] S117459917
XCVNWFDPNICP5TR3LSKL OMDLPY	S117459918	NUMBER	[M117440605] S117459918
RSU1MEFITBCU2R3ACSKU2 VSCRT	S117459919	NUMBER	[M117440605] S117459919
V5VM4E55IOBKASVH4M13 WQYSW0	S117459920	NUMBER	[M117440605] S117459920
X4TK0MWFSPCJDSR123IR EPTM1	S117459921	NUMBER	[M117440605] S117459921
TJCGUFQGKBCL4UCJLNO02 RPHWQ	S117459922	NUMBER	[M117440605] S117459922
XREP12W1NEBANDFY3I1DU VRNH1	S117459923	NUMBER	[M117440605] S117459923
X14N6S6R1JCBTSKU6CBIY5 BCQ3	S117459924	NUMBER	[M117440605] S117459924
S6AE16Y14PCBITWK55KJN NNRG	S117459925	NUMBER	[M117440605] S117459925
RAK0QNXSRJCORULIKJKEN 1A6MT	S117459926	NUMBER	[M117440605] S117459926

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S3URM2DJVDBR0BVU00SHI KD4AY	S117459927	NUMBER	[M117440605] S117459927
UOAY04E1Q6COMSL4QHUV 3BD1P1	S117459928	NUMBER	[M117440605] S117459928
RQ63SOP4QKCHCC4441FN2T L202	S117459929	NUMBER	[M117440605] S117459929
TNXLYSMD0KCQSUG2UBJO N1JCEF	S117459930	NUMBER	[M117440605] S117459930
UT5WU0Y0SDBGUBYWQ5X HG1YBLF	S117459931	NUMBER	[M117440605] S117459931
XAEQMAO3QNBHSBVNTV WQJRY016	S117459932	NUMBER	[M117440605] S117459932
YMV223SOLXKBKHSGBLLJO P61MF3	S117459933	NUMBER	[M117440605] S117459933
WDUA0GEFH4BAVRFLQOQ UNRIO1D	S117459934	NUMBER	[M117440605] S117459934
YPNBX0OKCTBSEHMGY NG2CJC2	S117459935	NUMBER	[M117440605] S117459935
XDWUMLBQWLBP1DCS1HI AN3KXRQ	S117459936	NUMBER	[M117440605] S117459936
XV04VK01QMCTUSXMT0PU YOH30F	S117459937	NUMBER	[M117440605] S117459937
V0RX0XWVEDCPEBPBIUT4 YUMA5H	S117459938	NUMBER	[M117440605] S117459938
W2RELLGVLPCF5RQIALWG FW2SLV	S117459939	NUMBER	[M117440605] S117459939
WFCIOR4XF2BEQRSS1C4Q2 6VKTK	S117459940	NUMBER	[M117440605] S117459940
YTGAJYFKQQCCACRHXL33 J540SI	S117459941	NUMBER	[M117440605] S117459941
S5RTRL4OFXCIYR1U3DY51 DUJYV	S117459942	NUMBER	[M117440605] S117459942
W5FFW4WLYDCBES1B5LNX KM5ANR	S117459943	NUMBER	[M117440605] S117459943
XJMKKT06W5CKHDG6V4AX	S117459944	NUMBER	[M117440605] S117459944

MR4L5U			
UBXCT2LRHLCPNT2TAR5Y4 W2X0N	S117459945	NUMBER	[M117440605] S117459945
UETX5EFJUEBQPEO2RIKAQ KR4YE	S117459946	NUMBER	[M117440605] S117459946
XMNM65SVM1BXFUWSV6X 00BUQU5	S117459947	NUMBER	[M117440605] S117459947
XLX4FQPDY5BMORPRIF0W QVGOQL	S117459948	NUMBER	[M117440605] S117459948

**7.33.47HUA\_IU\_MODE\_RADIO\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440578] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6IN3XA2AIRVH002IND 6WBG	S117457223	NUMBER	[M117440578] S117457223
SAAN6IP3XA2AIRVH002IND 6WBG	S117457224	NUMBER	[M117440578] S117457224
SAAN6IR3XA2AIRVH002IND 6WBG	S117457225	NUMBER	[M117440578] S117457225
SAAN6IT3XA2AIRVH002IND 6WBG	S117457226	NUMBER	[M117440578] S117457226
SAAN6IV3XA2AIRVH002IND 6WBG	S117457227	NUMBER	[M117440578] S117457227
SAAN6IX3XA2AIRVH002IND 6WBG	S117457228	NUMBER	[M117440578] S117457228
SAAN6J03XA2AIRVH002IND 6WBG	S117457229	NUMBER	[M117440578] S117457229

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SAAN6J23XA2AIRVH002IND 6WBG	S117457230	NUMBER	[M117440578] S117457230
SAAN6J43XA2AIRVH002IND 6WBG	S117457231	NUMBER	[M117440578] S117457231
SAAN6J63XA2AIRVH002IND 6WBG	S117457232	FLOAT	[M117440578] S117457232
SAAN6JB3XA2AIRVH002IND 6WBG	S117457233	FLOAT	[M117440578] S117457233
UNBFWI0S0AC3TTXUGWW M22ALCO	S117457213	NUMBER	[M117440578] S117457213
WDD6LISQTHBDSC6C02NH H6NEED	S117457214	NUMBER	[M117440578] S117457214
U3C30BOX6YBISUW3DPCX YEP02K	S117457215	NUMBER	[M117440578] S117457215
RASGMAEMG0BMHT1F3WR CAUPDIE	S117457216	NUMBER	[M117440578] S117457216
T4C1CR0RAEC4PTUJJ41FLX N2N6	S117457217	NUMBER	[M117440578] S117457217
SW0Y5MMEVPBXVEKERL6 UYVQPAH	S117457218	NUMBER	[M117440578] S117457218
Y44XCFTJ1KBTWTUQ2HDF QHU010	S117457219	NUMBER	[M117440578] S117457219
VOUT3A63TECX4UU5EBK3O LQXKU	S117457220	NUMBER	[M117440578] S117457220
RGMYP5451BJ5EGINLHA3 MKUXO	S117457221	NUMBER	[M117440578] S117457221
SUWAANW2SBBWJRGY23IA YES34G	S117457222	NUMBER	[M117440578] S117457222

### 7.33.48HUA\_IU\_MODE\_SECURITY\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR 2(50)	[M117440576] SGSN_ID
TSTAMP		DATE	

INSTANCE_ID		NUMBER	
TL63XQMNY42AHC3LR02INC CNMDW	S117457025	NUMBER	[M117440576] S117457025
TL63XQONY42AHC3LR02INC NMDW	S117457026	NUMBER	[M117440576] S117457026
TL63XQQNY42AHC3LR02INC NMDW	S117457027	NUMBER	[M117440576] S117457027
TL63XQSNY42AHC3LR02INC NMDW	S117457028	NUMBER	[M117440576] S117457028
SAAN6IJ3XA2AIRVH002IND6 WBG	S117457029	NUMBER	[M117440576] S117457029
SAAN6IL3XA2AIRVH002IND 6WBG	S117457030	NUMBER	[M117440576] S117457030
RJRRPK0DMQBAURE3NWK YMYQ4Y	S117457013	NUMBER	[M117440576] S117457013
X0GLUAMHLSBLIBKNDN3U 5C3QSX	S117457014	NUMBER	[M117440576] S117457014
U6KVN3DMSKCX4SMV0R5L SDHWAV	S117457015	NUMBER	[M117440576] S117457015
RKUCBCJGIVB2VRXHXTEPR 4K216	S117457016	NUMBER	[M117440576] S117457016
WDTGGI4RKVBVLEUCFOYI 6042C0	S117457017	NUMBER	[M117440576] S117457017
Y10CISPRFBCXTR5QJ2T3WK 5S42	S117457018	NUMBER	[M117440576] S117457018
SWPJ3FMT2RCEDRAIJA3SU G16QS	S117457019	NUMBER	[M117440576] S117457019
TVBIKS1KNTCXLR063QJND NL0M2	S117457020	NUMBER	[M117440576] S117457020
WSGPPWW5JGBS3TR2PECSF 11KNW	S117457021	NUMBER	[M117440576] S117457021
UFU5GF240JCX3TJ4C5WM34	S117457022	NUMBER	[M117440576] S117457022

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TTMD			
YDX33JQOY3BS4R2RR4XCH MH60Q	S117457023	NUMBER	[M117440576] S117457023
VKM5C554CYBJQU56XNYGF XWBN3	S117457024	NUMBER	[M117440576] S117457024

### 7.33.49HUA\_IU\_MODE\_SERV\_HO\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHA R2(50)	[M117440660] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
U0KYT20VBDBI5B0OKFIQE AKBBN	S117465413	NUMBER	[M117440660] S117465413
T6WW33QQF5BT6EWDORS TJXV5U	S117465414	NUMBER	[M117440660] S117465414
RNMHHSVTITBRWTQW1NP H6GM6DG	S117465415	NUMBER	[M117440660] S117465415

### 7.33.50HUA\_IU\_MODE\_SERVICE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHA R2(50)	[M117440579] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6JD3XA2AIRVH002IN D6WBG	S117457320	NUMBER	[M117440579] S117457320
XKFE3F2KETCSNCG11XYX A22WA0	S117457313	NUMBER	[M117440579] S117457313
WHOFA40TY0CQYSXICV06 WI5G5L	S117457314	NUMBER	[M117440579] S117457314
SWTW4EEL01B2BTII35RQ1 FU5GI	S117457315	NUMBER	[M117440579] S117457315

TW2ULG3LD3CFWBQP45D UY0U5RA	S117457316	NUMBER	[M117440579] S117457316
UXFF6HDEIHB3UEPOR0SW AGE25U	S117457317	NUMBER	[M117440579] S117457317
SNUKTICFWAC1UCEJ3AB VYUTVB6	S117457318	NUMBER	[M117440579] S117457318
WX4U6LYEDEC5AD4GF1F Q2PCOF	S117457319	NUMBER	[M117440579] S117457319

**7.33.51HUA\_IU\_MODE\_SM\_L3\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440603] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UI3WNIQKDLNURU3OXHIS DWTKFD	S117459713	NUMBER	[M117440603] S117459713
RWBLV0OQIWBFBABX35 2P5X45B	S117459714	NUMBER	[M117440603] S117459714

**7.33.52HUA\_IU\_MODE\_SM\_RES\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440606] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RVSX1MVHH0C4BBR25K0Q LFINGM	S117460013	NUMBER	[M117440606] S117460013
V2RC2LAW5OC6CBYRKXN KEAO3CY	S117460014	NUMBER	[M117440606] S117460014

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YI3X0A0KA3BLBDSRCWWS 0KFQCC	S117460015	NUMBER	[M117440606] S117460015
YN4532YFLGB4SBER4JO2Y WSLKO	S117460016	NUMBER	[M117440606] S117460016
RJUF0SCMD1B1CTFN1514A YDTX1	S117460017	NUMBER	[M117440606] S117460017
V41MTEKWSKBOISRWWW HTIJK6WK	S117460018	NUMBER	[M117440606] S117460018
WBKQROKP0KBONUTMIFIE VFU1V	S117460019	NUMBER	[M117440606] S117460019
R560X50RW4C0DRRQ5VD5A MWF6N	S117460020	NUMBER	[M117440606] S117460020
VV1W00UJB0C0WBLUT2R Q2G10Y	S117460021	NUMBER	[M117440606] S117460021
XBS0UGG1GCBPCESHKAOC 2NQJJK	S117460022	NUMBER	[M117440606] S117460022
W1SETVCL1KCRKBTQT54E HGD0AL	S117460023	NUMBER	[M117440606] S117460023
T5D4TEWGSBDBIRLBE2C51 ALI3P	S117460024	NUMBER	[M117440606] S117460024

### 7.33.53HUA\_IU\_MODE\_USER\_REJECT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440662] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YJFSXGTCGQBJ2RNMEQA EPCOJFM	S117465613	NUMBER	[M117440662] S117465613
RBUU3EVL6YCO0DBKBKS Y5LUF6A	S117465614	NUMBER	[M117440662] S117465614
W3IJYSDNQIB24RNNCYNB OHQ26Q	S117465615	NUMBER	[M117440662] S117465615

**7.33.54HUA\_LCS\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440628] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S0LERLWS1VBVFEC6BO15EH SA6K	S117462213	NUMBER	[M117440628] S117462213
RRST4JAWUPBXKU5BLJIQ5K PWJQ	S117462214	NUMBER	[M117440628] S117462214
RVGHSE20GHBV5T5HBVKRG D2DCR	S117462215	NUMBER	[M117440628] S117462215
R3EBXWUQANCBCEUWRGB P2G6KS6	S117462216	NUMBER	[M117440628] S117462216
TSSD30ORMDBMESSLYFOIA BHB01	S117462217	NUMBER	[M117440628] S117462217
RXLFCFT5FCSEBIXUEBY5D 2NS4	S117462218	NUMBER	[M117440628] S117462218
WUTBA5AX62BE5BO4NM0FD JLRWV	S117462219	NUMBER	[M117440628] S117462219
XL002N60RBCISLNR0NQKJ BXNA	S117462220	NUMBER	[M117440628] S117462220
X3UVL3E3YVCEST2FB2ODYP WOWT	S117462221	NUMBER	[M117440628] S117462221
R4HB3FNQBDCVERPTL1AQX 2IWAD	S117462222	NUMBER	[M117440628] S117462222
VCOKO6B602BEXTNVG2SN5 XFLJG	S117462223	NUMBER	[M117440628] S117462223
UCOPEAFQFEBOHUEA0YHO EC1JIG	S117462224	NUMBER	[M117440628] S117462224
WN4SGKKKYUCUOEOTIBFR6	S117462225	NUMBER	[M117440628] S117462225

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I6BRO			
WT1RG0S4SJB5OSAOHH4AG CE1SO	S117462226	NUMBER	[M117440628] S117462226
X6PE53RTB6BPCE3VVKUCK2 0KLA	S117462227	NUMBER	[M117440628] S117462227
RBSJPV0WIIC6GEMD6EXFOIF XCJ	S117462228	NUMBER	[M117440628] S117462228
WIH3WKN4LNCUHB4WKKOX 4B3FAW	S117462229	NUMBER	[M117440628] S117462229
RN4QOU1H6PCJSTCPJ2LPD5Y 1U3	S117462230	NUMBER	[M117440628] S117462230
YL1T0YALSMCIEBWQUAKLS NIS6U	S117462231	NUMBER	[M117440628] S117462231
XDN4USVWOHCEYULMWGD KSRHO6K	S117462232	NUMBER	[M117440628] S117462232
UKMDFEQGNTBMJBCLHEIY WRCCY2	S117462233	NUMBER	[M117440628] S117462233
TSBBOGSJVKC2PCR11GK6SO B3HJ	S117462234	NUMBER	[M117440628] S117462234
UQ5PMM20K0BQYCFENVE5P 5PV0N	S117462235	NUMBER	[M117440628] S117462235
X4GXB0NNKUBJ0TOYRCHRG Y3V5J	S117462236	NUMBER	[M117440628] S117462236
S5HTYGAXF3B05EKQ1PUVM 4PU1O	S117462237	NUMBER	[M117440628] S117462237
XRIK5221A0CMYSTBVI30J0QI 3L	S117462238	NUMBER	[M117440628] S117462238
VLRM42JUI2C6GUK5QYMLB G1NX4	S117462239	NUMBER	[M117440628] S117462239
RTWNDESL1JB3ICY1WFKY3B EJ6U	S117462240	NUMBER	[M117440628] S117462240
WJE6JCREPDBJWC33SOMUR6 NLY3	S117462241	NUMBER	[M117440628] S117462241
VYYFBYOK4QBUQETDQ1GT H6Y0JX	S117462242	NUMBER	[M117440628] S117462242

SMY22M2VFPCWRC14H4FKC U4SSI	S117462243	NUMBER	[M117440628] S117462243
RAO5EGK0WQBA2RBAJXEG VDYQ4N	S117462244	NUMBER	[M117440628] S117462244
REBH4SL3YYCHMD2G2A2GS JSSKN	S117462245	NUMBER	[M117440628] S117462245
YE12XI4KWUBDHBHK4IRF5G JMFU	S117462246	NUMBER	[M117440628] S117462246
UPNV432BL5BKIC0KSKXKKN CVMJ	S117462247	NUMBER	[M117440628] S117462247
WTLPRMUQELBB5BAU4A0L0 CHC3P	S117462248	NUMBER	[M117440628] S117462248
V5Q3DEMALKBHF6E2L4I6I XO65	S117462249	NUMBER	[M117440628] S117462249
XXLY6WGVYKCFLUGITX2C3 BQ4YV	S117462250	NUMBER	[M117440628] S117462250
Y0UECP0VECBCPCEEI2S3PW UUTD	S117462251	NUMBER	[M117440628] S117462251
WBYPRSI1OJBF1R1PAI0XIO1 K13	S117462252	NUMBER	[M117440628] S117462252
R4OYVT5VPKCEGE2I6XOCLR DSVC	S117462253	NUMBER	[M117440628] S117462253
TQHTEC5OMMCUXRFPMEFX OGUMQL	S117462254	NUMBER	[M117440628] S117462254
RO4Q36RWWOCL3SROBVH24 F4N45	S117462255	NUMBER	[M117440628] S117462255
RSD4LUVCO4CB6E1PRKBKA AF03A	S117462256	NUMBER	[M117440628] S117462256
X23YPJVK22CG4SVJUETA34 WRKE	S117462257	NUMBER	[M117440628] S117462257
UTLXYXLXSLCDEX2TRNSK STPTD	S117462258	NUMBER	[M117440628] S117462258

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XHS4GG3VJKBES2EDSKJI2C KUJ	S117462259	NUMBER	[M117440628] S117462259
RF61IERMSEBGRUTYUHNQL DQBIQ	S117462260	NUMBER	[M117440628] S117462260
WNGLU4SSGHCOQRSGCDTG US2UJN	S117462261	NUMBER	[M117440628] S117462261
WJINHC5162CDEUODMKGXH MLPSH	S117462262	NUMBER	[M117440628] S117462262

### 7.33.55HUA\_LI\_MESS\_SENT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440647] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VSMJTTVHEHB2VUGKPGC W52JIIS	S117464113	NUMBER	[M117440647] S117464113
YNYCAHQF12CEWUKVV11 V0RMF0W	S117464114	NUMBER	[M117440647] S117464114
SGNYIAGIN6C0WEMGRJYB EI6RAC	S117464115	NUMBER	[M117440647] S117464115
RIB2J26QU2CSVC51XC3OW SGTXG	S117464116	NUMBER	[M117440647] S117464116
RUWHWHY56WB0ESTC5KP D0QQES6	S117464117	NUMBER	[M117440647] S117464117
SJUOUJJ2YSC2CUM4VG5PF WAGA6	S117464118	NUMBER	[M117440647] S117464118
T6BCWL2CINCKRR0HUG13S TP4AN	S117464119	NUMBER	[M117440647] S117464119
U61FVKBXH2CYVCB0JN3X MQPAMT	S117464120	NUMBER	[M117440647] S117464120

### 7.33.56HUA\_M117440630\_GB\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
-------------	--------------	-----------	----------------------

SGSN_ID		VARCHAR2(50)	[M117440630] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XSONY42AHC3LR02IN CNMDW	S117462445	NUMBER	[M117440630] S117462445
TL63XSQNY42AHC3LR02IN CNMDW	S117462446	NUMBER	[M117440630] S117462446
TL63XSSNY42AHC3LR02IN CNMDW	S117462447	NUMBER	[M117440630] S117462447
TL63XSUNY42AHC3LR02IN CNMDW	S117462448	NUMBER	[M117440630] S117462448
TL63XSWNY42AHC3LR02I NCNMDW	S117462449	NUMBER	[M117440630] S117462449
TL63XSYNY42AHC3LR02IN CNMDW	S117462450	NUMBER	[M117440630] S117462450
TL63XT1NY42AHC3LR02IN CNMDW	S117462451	NUMBER	[M117440630] S117462451
TL63XT3NY42AHC3LR02IN CNMDW	S117462452	NUMBER	[M117440630] S117462452
TL63XT5NY42AHC3LR02IN CNMDW	S117462453	NUMBER	[M117440630] S117462453
TL63XTANY42AHC3LR02IN CNMDW	S117462454	NUMBER	[M117440630] S117462454
TL63XTCNY42AHC3LR02IN CNMDW	S117462455	NUMBER	[M117440630] S117462455
TL63XTENY42AHC3LR02IN CNMDW	S117462456	NUMBER	[M117440630] S117462456
TL63XTGNY42AHC3LR02IN CNMDW	S117462457	NUMBER	[M117440630] S117462457
TL63XTINY42AHC3LR02IN CNMDW	S117462458	NUMBER	[M117440630] S117462458

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TL63XTKNY42AHC3LR02IN CNMDW	S117462459	NUMBER	[M117440630] S117462459
TL63XTMNY42AHC3LR02I NCNMDW	S117462460	NUMBER	[M117440630] S117462460
TL63XTONY42AHC3LR02IN CNMDW	S117462461	NUMBER	[M117440630] S117462461
TL63XTQNY42AHC3LR02IN CNMDW	S117462462	NUMBER	[M117440630] S117462462
TL63XTSNY42AHC3LR02IN CNMDW	S117462463	NUMBER	[M117440630] S117462463
TL63XTUNY42AHC3LR02IN CNMDW	S117462464	NUMBER	[M117440630] S117462464
TL63XTWNY42AHC3LR02I NCNMDW	S117462465	NUMBER	[M117440630] S117462465
TL63XTYNY42AHC3LR02IN CNMDW	S117462466	NUMBER	[M117440630] S117462466
TL63XU1NY42AHC3LR02IN CNMDW	S117462498	NUMBER	[M117440630] S117462498
TL63XU3NY42AHC3LR02IN CNMDW	S117462467	NUMBER	[M117440630] S117462467
TL63XU5NY42AHC3LR02IN CNMDW	S117462468	NUMBER	[M117440630] S117462468
TL63XUANY42AHC3LR02I NCNMDW	S117462469	NUMBER	[M117440630] S117462469
TL63XVYNY42AHC3LR02I NCNMDW	S117462470	NUMBER	[M117440630] S117462470

### 7.33.57HUA\_M117440630\_IU\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440630] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XUCNY42AHC3LR02IN	S117462471	NUMBER	[M117440630] S117462471

CNMDW			
TL63XUENY42AHC3LR02IN CNMDW	S117462472	NUMBER	[M117440630] S117462472
TL63XUGNY42AHC3LR02IN CNMDW	S117462473	NUMBER	[M117440630] S117462473
TL63XUINY42AHC3LR02IN CNMDW	S117462474	NUMBER	[M117440630] S117462474
TL63XUKNY42AHC3LR02IN CNMDW	S117462475	NUMBER	[M117440630] S117462475
TL63XUMNY42AHC3LR02I NCNMDW	S117462476	NUMBER	[M117440630] S117462476
TL63XUONY42AHC3LR02IN CNMDW	S117462477	NUMBER	[M117440630] S117462477
TL63XUQNY42AHC3LR02IN CNMDW	S117462478	NUMBER	[M117440630] S117462478
TL63XUSNY42AHC3LR02IN CNMDW	S117462479	NUMBER	[M117440630] S117462479
TL63XUUNY42AHC3LR02IN CNMDW	S117462480	NUMBER	[M117440630] S117462480
TL63XUWNY42AHC3LR02I NCNMDW	S117462481	NUMBER	[M117440630] S117462481
TL63XUYN42AHC3LR02IN CNMDW	S117462482	NUMBER	[M117440630] S117462482
TL63XV1NY42AHC3LR02IN CNMDW	S117462483	NUMBER	[M117440630] S117462483
TL63XV3NY42AHC3LR02IN CNMDW	S117462484	NUMBER	[M117440630] S117462484
TL63XV5NY42AHC3LR02IN CNMDW	S117462485	NUMBER	[M117440630] S117462485
TL63XVANY42AHC3LR02IN CNMDW	S117462486	NUMBER	[M117440630] S117462486
TL63XVCNY42AHC3LR02IN	S117462487	NUMBER	[M117440630] S117462487

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CNMDW			
TL63XVENY42AHC3LR02IN CNMDW	S117462488	NUMBER	[M117440630] S117462488
TL63XVGNY42AHC3LR02IN CNMDW	S117462489	NUMBER	[M117440630] S117462489
TL63XVINY42AHC3LR02IN CNMDW	S117462490	NUMBER	[M117440630] S117462490
TL63XVKNY42AHC3LR02IN CNMDW	S117462491	NUMBER	[M117440630] S117462491
TL63XVMNY42AHC3LR02I NCNMDW	S117462492	NUMBER	[M117440630] S117462492
TL63XVONY42AHC3LR02IN CNMDW	S117462499	NUMBER	[M117440630] S117462499
TL63XVQNY42AHC3LR02IN CNMDW	S117462493	NUMBER	[M117440630] S117462493
TL63XVSNY42AHC3LR02IN CNMDW	S117462494	NUMBER	[M117440630] S117462494
TL63XVUNY42AHC3LR02IN CNMDW	S117462495	NUMBER	[M117440630] S117462495
TL63XWINY42AHC3LR02IN CNMDW	S117462496	NUMBER	[M117440630] S117462496

### 7.33.58HUA\_M117440672\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440672] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XWENY42AHC3LR02I NCNMDW	S117467513	NUMBER	[M117440672] S117467513
TL63XWGNV42AHC3LR02I NCNMDW	S117467514	NUMBER	[M117440672] S117467514
TL63XWINY42AHC3LR02IN CNMDW	S117467515	NUMBER	[M117440672] S117467515

**7.33.59HUA\_M117440673\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440673] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XWKNY42AHC3LR02I NCNMDW	S117467613	NUMBER	[M117440673] S117467613
TL63XWMNY42AHC3LR02I NCNMDW	S117467614	NUMBER	[M117440673] S117467614
TL63XWONY42AHC3LR02I NCNMDW	S117467615	NUMBER	[M117440673] S117467615

**7.33.60HUA\_M117440674\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440674] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XWQNY42AHC3LR02I NCNMDW	S117467713	NUMBER	[M117440674] S117467713
TL63XWSNY42AHC3LR02I NCNMDW	S117467714	NUMBER	[M117440674] S117467714
TL63XWUNY42AHC3LR02I NCNMDW	S117467715	NUMBER	[M117440674] S117467715

**7.33.61HUA\_M117440678\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
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SGSN_ID		VARCHAR2(50)	[M117440678] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6RH3XA2AIRVH002IND6WBG	S117469814	NUMBER	[M117440678] S117469814
TL63XXGNY42AHC3LR02INCNMWDW	S117469813	NUMBER	[M117440678] S117469813

### 7.33.62HUA\_M117440679\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440679] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6RJ3XA2AIRVH002IND6WBG	S117469914	NUMBER	[M117440679] S117469914
TL63XXINY42AHC3LR02INCNMWDW	S117469913	NUMBER	[M117440679] S117469913

### 7.33.63HUA\_M117440680\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440680] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XXKNY42AHC3LR02INCNMWDW	S117470013	NUMBER	[M117440680] S117470013
TL63XXMNY42AHC3LR02INCNMWDW	S117470014	NUMBER	[M117440680] S117470014
TL63XXONY42AHC3LR02INCNMWDW	S117470015	NUMBER	[M117440680] S117470015

TL63XXQNY42AHC3LR02IN CNMDW	S117470016	NUMBER	[M117440680] S117470016
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**7.33.64HUA\_M117440681\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440681] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XXSNY42AHC3LR02IN CNMDW	S117470113	NUMBER	[M117440681] S117470113
TL63XXUNY42AHC3LR02IN CNMDW	S117470114	NUMBER	[M117440681] S117470114
TL63XXWNY42AHC3LR02I NCNMDW	S117470115	NUMBER	[M117440681] S117470115
TL63XXYNY42AHC3LR02IN CNMDW	S117470116	NUMBER	[M117440681] S117470116

**7.33.65HUA\_M117440683\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440683] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6RP3XA2AIRVH002I ND6WBG	S117471113	NUMBER	[M117440683] S117471113
SAAN6RR3XA2AIRVH002I ND6WBG	S117471114	NUMBER	[M117440683] S117471114
SAAN6RT3XA2AIRVH002I ND6WBG	S117471115	NUMBER	[M117440683] S117471115

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SAAN6RV3XA2AIRVH002I ND6WBG	S117471116	NUMBER	[M117440683] S117471116
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### 7.33.66HUA\_M117440716\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440716] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6WF3XA2AIRVH002I ND6WBG	S117473913	NUMBER	[M117440716] S117473913
SAAN6WH3XA2AIRVH002I ND6WBG	S117473914	NUMBER	[M117440716] S117473914

### 7.33.67HUA\_M117440717\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440717] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6WJ3XA2AIRVH002I ND6WBG	S117474013	NUMBER	[M117440717] S117474013
SAAN6WL3XA2AIRVH002I ND6WBG	S117474014	NUMBER	[M117440717] S117474014

### 7.33.68HUA\_MAP\_BASIC\_TRAFFIC\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440610] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SO4MTAGKELCNKCN36N3OF	S117460413	NUMBER	[M117440610] S117460413

FADAO			
RGXNI2PIMDBYCT46ILPEOA DUU3	S117460414	NUMBER	[M117440610] S117460414
YOCX5Y503HB63REM5JG631N 3AR	S117460415	NUMBER	[M117440610] S117460415
TUI1MA2HSDCQQEEPWMQIU ARGKE	S117460416	NUMBER	[M117440610] S117460416
UUKDDDLRCUCD2UU3A44M WNE5WP	S117460417	NUMBER	[M117440610] S117460417
YHJRMF42OUCDUSYBCQTQP ABW4W	S117460418	NUMBER	[M117440610] S117460418
VB61UV44CYCY6C0DWP4TIY 15XO	S117460419	NUMBER	[M117440610] S117460419
Y1UJCEGD2HB0CBCF0REX042 JLT	S117460420	NUMBER	[M117440610] S117460420
WY26U4Q1HCCNJE6G6XK4DO Q024	S117460421	NUMBER	[M117440610] S117460421
SLALNVTG2FBAPSQ1OHXTN GLJXP	S117460422	NUMBER	[M117440610] S117460422
VOQNFQX63WCD4U3TWEVA LHTOPF	S117460423	NUMBER	[M117440610] S117460423
STXOWQCCCWC0QS12I2MGE SKSGV	S117460424	NUMBER	[M117440610] S117460424
R0PJUMYSIDIC3RUO5O3NVUL VMLH	S117460425	NUMBER	[M117440610] S117460425
WHU5BM4FGRC0ID21WGYX2 FJY3L	S117460426	NUMBER	[M117440610] S117460426
WY6TSPNRQ6CNYB4JMSTTN K0BTJ	S117460427	NUMBER	[M117440610] S117460427
ULY2LAGVCOC1VULY4EAFY 6O5HV	S117460428	NUMBER	[M117440610] S117460428
RD2E2TNV04B3XC6MS5PNBN	S117460429	NUMBER	[M117440610] S117460429

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GFDN			
XCOIJKTWIC10TN1OU15LB0 BGN	S117460430	NUMBER	[M117440610] S117460430
XITNI3A5U2CUESJ2KV6T1KS VX5	S117460431	NUMBER	[M117440610] S117460431
VVXGIHXCJRB3PSB5P5TWA0 2EMM	S117460432	NUMBER	[M117440610] S117460432
XEVQEEP2GGCX0E6HTB4JPW 31QV	S117460433	NUMBER	[M117440610] S117460433
TEH53AE6RSBE0RJIL5IAQJY WCP	S117460434	NUMBER	[M117440610] S117460434
UCNO6AEH6GB5XCSGDYCLD HGGXW	S117460435	NUMBER	[M117440610] S117460435
TOMUCPEWPWBN5RHKH3VO RU0MCM	S117460436	NUMBER	[M117440610] S117460436
REVL A2OYMGC BFT2TATBAU VAXDJ	S117460437	NUMBER	[M117440610] S117460437
S1HXGJWHV1BNYDP66UR0H R16YC	S117460438	NUMBER	[M117440610] S117460438
XX5HV1LUWKCGPSISOSRPA V24X5	S117460439	NUMBER	[M117440610] S117460439
VWKNEOLQJOBITRH2BPWC4 1MTBE	S117460440	NUMBER	[M117440610] S117460440
TFYXOKF44NB4TEQMFVC35S 301J	S117460441	NUMBER	[M117440610] S117460441
UWQ6FKMJTMC6CRNF3EU64 CLPYA	S117460442	NUMBER	[M117440610] S117460442
W2J2L2C1QXCG4UFGAYH332 HYPD	S117460443	NUMBER	[M117440610] S117460443
SLR3WNEX1EB0XER2YW3JSB MFSS	S117460444	NUMBER	[M117440610] S117460444
RJPYOPR1BNBJVSL1RDBWD AQHHD	S117460445	NUMBER	[M117440610] S117460445
UCOPUC2L6VB14SJOMVQYAJ TBIF	S117460446	NUMBER	[M117440610] S117460446

WR01C1AEQWCCSSSNXOM6 UGT456	S117460447	NUMBER	[M117440610] S117460447
W43N3ICXHTC3CEBACUI2H6 OLW5	S117460448	NUMBER	[M117440610] S117460448
RSX62CS3VWCOPTXKVH4TY FF5IJ	S117460449	NUMBER	[M117440610] S117460449
YSAJCYMBILCKODLGCFUT3 EAQLT	S117460450	NUMBER	[M117440610] S117460450
WKWG4UBW4ECHERKKNXQ AFGWS0	S117460451	NUMBER	[M117440610] S117460451
V50K2MAE14B5VBQACQ33PS 6IJY	S117460452	NUMBER	[M117440610] S117460452
RYTPIRUL3FCB5BEMXKPM0S B46X	S117460453	NUMBER	[M117440610] S117460453
TL63XRONY42AHC3LR02INC NMDW	S117460454	NUMBER	[M117440610] S117460454
TL63XRQNY42AHC3LR02INC NMDW	S117460455	NUMBER	[M117440610] S117460455
TL63XRSNY42AHC3LR02INC MDW	S117460456	NUMBER	[M117440610] S117460456
TL63XRUNY42AHC3LR02INC NMDW	S117460457	NUMBER	[M117440610] S117460457

### 7.33.69HUA\_MAP\_COMMON\_TRAF\_ERR\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440612] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TDPOKVQXQUCO6CBMYHG W6IC0JT	S117460613	NUMBER	[M117440612] S117460613

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SAOOXNVHTACSURSVMDX OIKEXYA	S117460614	NUMBER	[M117440612] S117460614
WEA5KI5PXOBVHD1XWDAJ 0OPNPT	S117460615	NUMBER	[M117440612] S117460615
SNM0KQO3NWBCFS5RGTV1 CD2D3B	S117460616	NUMBER	[M117440612] S117460616
SEKIN2021KCGBRUMCJJOH RU1LD	S117460617	NUMBER	[M117440612] S117460617
XL01VCSP16BUIISOVAGDH3 PCIDS	S117460618	NUMBER	[M117440612] S117460618
USIMA5112FB3XB0HV1B4OC C1JS	S117460619	NUMBER	[M117440612] S117460619
UX66JT4DHYB2HUDHNRCM 0WM2HX	S117460620	NUMBER	[M117440612] S117460620
U5360HRYLGCB0T5GOKVSG CSOWC	S117460621	NUMBER	[M117440612] S117460621
UTQPHTAJKYCS2EE4NNRW RJLQOP	S117460622	NUMBER	[M117440612] S117460622
TRR4R2D3JWBV5UJ4KDS1FS 25WO	S117460623	NUMBER	[M117440612] S117460623
XF3TD0DRBJC3IRTWJTI1WJ P2QY	S117460624	NUMBER	[M117440612] S117460624
XFQ2BIODI0B3MR1OKONJIC YPJR	S117460625	NUMBER	[M117440612] S117460625
Y5I4GOHKTMCMC22D3DQHNU HK0PRF	S117460626	NUMBER	[M117440612] S117460626
TG162PWF4KB0TU3R6JQ4K5 SMXU	S117460627	NUMBER	[M117440612] S117460627
R0MHT0V4XCBAWRCUI3DU KB5TWE	S117460628	NUMBER	[M117440612] S117460628
YHWG0PLTLBC6ITDLIUI1CT C5QW	S117460629	NUMBER	[M117440612] S117460629
WMLAFBG2HWBY6SRFXEQ N1CFSJP	S117460630	NUMBER	[M117440612] S117460630
WLH2P0F2MJCR4D5CQL4M0	S117460631	NUMBER	[M117440612] S117460631

JB2AT			
SKGICRYHTYCFLRJ3GMVY KPXJWK	S117460632	NUMBER	[M117440612] S117460632
S54PJ62JU1CHJUEA100BDAP XO6	S117460633	NUMBER	[M117440612] S117460633
YRQ26AIF1JCWXEJOE1L1VS HH4C	S117460634	NUMBER	[M117440612] S117460634
X5ULAYKDWPC1DEAFVU0C DLNURM	S117460635	NUMBER	[M117440612] S117460635
X1KBDA2T1OBW0EPE1IJ4A MCJH1	S117460636	NUMBER	[M117440612] S117460636
XNUNO61UTVBYDBQQA06L BSSN33	S117460637	NUMBER	[M117440612] S117460637
UQ5QBI0YD2BB2DG164HE3P 3XSV	S117460638	NUMBER	[M117440612] S117460638
VBCEMUJWG6CFKBHTJNTC XX5GQH	S117460639	NUMBER	[M117440612] S117460639
SBTPCOCYHRB6QRD4JOJCL PYHJK	S117460640	NUMBER	[M117440612] S117460640
WBV5T4NYTOBYVT6EDK0D VVXTUP	S117460641	NUMBER	[M117440612] S117460641
VHMGO4CWJSCIUDCTDLLE EYNMMA	S117460642	NUMBER	[M117440612] S117460642
YCY4RRCWUICUQTFVONN OMERR3T	S117460643	NUMBER	[M117440612] S117460643
WI2OCFFTSMBOUCCOKRCX CRBMXA	S117460644	NUMBER	[M117440612] S117460644
VUS2CNP0L3B6GUM3K6KM MGRLBE	S117460645	NUMBER	[M117440612] S117460645

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### 7.33.70HUA\_MAP\_ERR\_TIMEOUT\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440611] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YA6GQVPXXFBE5BXVVVK3 DBYHA3	S117460513	NUMBER	[M117440611] S117460513
YLC0M425AKBE4RU1C3JS2 GUP6L	S117460514	NUMBER	[M117440611] S117460514
YX62EFL0NLB0STDO304GU XUKCC	S117460515	NUMBER	[M117440611] S117460515
X2LHDSIIHXBLXETWFERL1 GKS3E	S117460516	NUMBER	[M117440611] S117460516
TMPNUKYPQACX5E3FGPTK I6GNI4	S117460517	NUMBER	[M117440611] S117460517
R6P4MAUS3IB5XCCJHDHSM YCRQU	S117460518	NUMBER	[M117440611] S117460518
RD1M4AEPIACRSEA52INTB 4A2OP	S117460519	NUMBER	[M117440611] S117460519
SHGET2MG3OCFTD0BTY02S ISQOF	S117460520	NUMBER	[M117440611] S117460520
Y5A5R6WI2VBVQUJJQPHOT CG2X3	S117460521	NUMBER	[M117440611] S117460521
U2MF4QEUS3BKCCQG6YE6 0E6TMH	S117460522	NUMBER	[M117440611] S117460522
S5GYJ4P2XBC6MELRO4VD2 Q5MEY	S117460523	NUMBER	[M117440611] S117460523
T0KM4J0IAJCDDBP6NU6015 21X3	S117460524	NUMBER	[M117440611] S117460524
XL3V5M1F1FBCPRQNNDQH GQDSA2	S117460525	NUMBER	[M117440611] S117460525
SCRYV6AI5HBKSSU6J0NXL 3RQ1F	S117460526	NUMBER	[M117440611] S117460526

YBN4FKFGPMC MOEBMULH O6TEEGV	S117460527	NUMBER	[M117440611] S117460527
R3DBCTBRFCCEEEYMGFQG N141O1	S117460528	NUMBER	[M117440611] S117460528
YFU24EVBA1CFC SAYBYU45 RKT3V	S117460529	NUMBER	[M117440611] S117460529

**7.33.71HUA\_MAP\_GC\_MESS\_TRANSF\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440613] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VITHDB562OBHNS5L116O BCIBYF	S117460713	NUMBER	[M117440613] S117460713
TYUMEQVI6CCNVE4REL1 IVVIUKR	S117460714	NUMBER	[M117440613] S117460714
RANT5Q1JE4BT3RIF54P4V QAO6L	S117460715	NUMBER	[M117440613] S117460715

**7.33.72HUA\_MTP\_LINK\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440622] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
R4XJV16BQBB2WCNR2T2L N12G2K	S117461613	NUMBER	[M117440622] S117461613
S3A4U4LTJPC16C16E6QLQ4 E45L	S117461614	NUMBER	[M117440622] S117461614

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TSDBSC6KNXCG3DSSDXPS OFVMNN	S117461615	NUMBER	[M117440622] S117461615
S4I56LAADYCQHC1VBA3N2 MBXAE	S117461616	NUMBER	[M117440622] S117461616
UN3ON0UMNHBAICJUHFEY CF601B	S117461617	FLOAT	[M117440622] S117461617
VYXHVE3WPIB0KR1WWPQ W05GJYQ	S117461618	FLOAT	[M117440622] S117461618
XJ0CXV1VPWCEHS35M6162 N0OET	S117461619	NUMBER	[M117440622] S117461619
TRCOVINER1BBQB66Y4B1I OHT1T	S117461620	FLOAT	[M117440622] S117461620
XMRFM22NRJCGYBDROLT UR0IKIL	S117461621	FLOAT	[M117440622] S117461621

### 7.33.73HUA\_PDP\_CONT\_DEACTV\_GB\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440691] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WEY2H25VWR2AIR02B04 U3BMV6J	S117470313	NUMBER	[M117440691] S117470313
WEY2H2AVWR2AIR02B04 U3BMV6J	S117470314	NUMBER	[M117440691] S117470314
WEY2H2CVWR2AIR02B04 U3BMV6J	S117470315	NUMBER	[M117440691] S117470315
WEY2H2EVWR2AIR02B04 U3BMV6J	S117470316	NUMBER	[M117440691] S117470316

### 7.33.74HUA\_PDP\_CONT\_DEACTV\_IU\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440692] SGSN_ID

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WEY2H2GVWR2AIR02B04 U3BMV6J	S117470413	NUMBER	[M117440692] S117470413
WEY2H2IVWR2AIR02B04U 3BMV6J	S117470414	NUMBER	[M117440692] S117470414
WEY2H2KVWR2AIR02B04 U3BMV6J	S117470415	NUMBER	[M117440692] S117470415

**7.33.75HUA\_RANAP\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440542] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UV1545OETHB2XSN4K5WTX REPUG	S117453613	NUMBER	[M117440542] S117453613
S5DJTUGVT1CSBRJAE6RMH BCKJO	S117453614	NUMBER	[M117440542] S117453614
TJ4364EASWCOFSWG4ULQ0 CPADI	S117453615	NUMBER	[M117440542] S117453615
XHSQL2W23GCJVT4C3AVGS 52YXA	S117453616	NUMBER	[M117440542] S117453616
UT6JSBSXVGB24CYFOMCN BA6N0P	S117453617	NUMBER	[M117440542] S117453617
YQBU3O1L3FCVABG3D3R20 IOA1E	S117453618	NUMBER	[M117440542] S117453618
WAJFOEU2YMCTTBEAHKIH 2QG2V3	S117453619	NUMBER	[M117440542] S117453619
UPCGSQO2B3CB5BOHI3J063	S117453620	NUMBER	[M117440542] S117453620

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EUFN			
YJOXRSU5PCCVXE2JDW61 WPAG6S	S117453621	NUMBER	[M117440542] S117453621
T1JPM3Q3SNCG5SWCPU55C 6V0MD	S117453622	NUMBER	[M117440542] S117453622
SNLLUYLENCCELUBP5LKJR FTFWK	S117453623	NUMBER	[M117440542] S117453623
UXOY6XUNJ1C2HEGCNBX2 3RSQW5	S117453624	NUMBER	[M117440542] S117453624
ULIT4MJ1E4CLAUW4DLREA KAXTC	S117453625	NUMBER	[M117440542] S117453625
VAQSBV2V0BB30TL0OY6FA X0OA5	S117453626	NUMBER	[M117440542] S117453626
SRBOLWW6B5B6NRH065FX WSX6TX	S117453627	NUMBER	[M117440542] S117453627
WSFRRGKPAICLOSUQOLP51 O3YUW	S117453628	NUMBER	[M117440542] S117453628
SENVPEA1SBBXFEFRUVN2X BUJO4	S117453629	NUMBER	[M117440542] S117453629
VTXGJQHJ4FBTTR433AVD0T QR5B	S117453630	NUMBER	[M117440542] S117453630
V35RFNAV0PCUGTYAT6PIC RSFR4	S117453631	NUMBER	[M117440542] S117453631
VLSODHRROVB0PT0E2D56K JOSTY	S117453632	NUMBER	[M117440542] S117453632
WXC1QKNEB4CDEEKI3SWT MXRRBL	S117453633	NUMBER	[M117440542] S117453633
RCUUTQTFP6B4WTCFYCLA Y66C4T	S117453634	NUMBER	[M117440542] S117453634
XVMXW4BKF3B2PECF0PQK 3IVAXI	S117453635	NUMBER	[M117440542] S117453635
WHMRQSCF0UB6BTGCEM46 GYAX4P	S117453636	NUMBER	[M117440542] S117453636
TV0MX2BGY6BG0UX2FKV6 ENOTJR	S117453637	NUMBER	[M117440542] S117453637

WU3XOWXIEIC3WCPDE3PM TAXM0T	S117453638	NUMBER	[M117440542] S117453638
ST0WMNAKJRB5RDAYSCW XUIDLRQ	S117453639	NUMBER	[M117440542] S117453639
XFYTU12YP4BOXEMLWM2O NMY1KK	S117453640	NUMBER	[M117440542] S117453640
RDE2JMTR44CLIDU12IITGPG Q4P	S117453641	NUMBER	[M117440542] S117453641
SFOCBQPKFLC5VCCCB0VK5 2AFXF	S117453642	NUMBER	[M117440542] S117453642
WHSVYAWAW0HB2TD12V14 WABLYO2	S117453643	NUMBER	[M117440542] S117453643
XBR122PXVPC3VEC42U3GQ 53UWG	S117453644	NUMBER	[M117440542] S117453644
UAJTEHEALSC36CYJKICRV TAR6W	S117453645	NUMBER	[M117440542] S117453645
UPAHGU3BBABTERWFXLFP TUI3US	S117453646	NUMBER	[M117440542] S117453646
W6FU4LERT6CSVDVP04SBIR WONO	S117453647	NUMBER	[M117440542] S117453647
Y1FUWJFT0TBOKBNTMFQI XSSIDR	S117453648	NUMBER	[M117440542] S117453648
TL63XOSNY42AHC3LR02INC NMDW	S117453649	NUMBER	[M117440542] S117453649
TL63XOUNY42AHC3LR02IN CNMDW	S117453650	NUMBER	[M117440542] S117453650
TL63XOWNY42AHC3LR02IN CNMDW	S117453651	NUMBER	[M117440542] S117453651
TL63XOYNY42AHC3LR02IN CNMDW	S117453652	NUMBER	[M117440542] S117453652
TL63XP1NY42AHC3LR02INC NMDW	S117453653	NUMBER	[M117440542] S117453653

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**7.33.76HUA\_SCCP\_AVAILABILITY\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440615] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WN6EJ0335NCG3BC1TDDR3PLSO1	S117460913	NUMBER	[M117440615] S117460913
VJVX455U65CN4TCPT0GLGRAKDR	S117460914	NUMBER	[M117440615] S117460914
X3EXFNVFNAC1PDS5VMF RVJ3LEQ	S117460916	NUMBER	[M117440615] S117460916
RTBEOQ3VSYCSRDAOPDJ0OMTOAF	S117460917	NUMBER	[M117440615] S117460917

**7.33.77HUA\_SCCP\_PERFORMANCE\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440614] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RTYAQB3J4QCD4ET0ONA4U0RSKP	S117460813	NUMBER	[M117440614] S117460813
VKNVISADJQCVECBDB0F0QKTYW	S117460814	NUMBER	[M117440614] S117460814
Y13SWLBCLSC1MS32024AQIBB0A	S117460815	NUMBER	[M117440614] S117460815
S05I6LQMT2CL3EUYYPBGGF2UF	S117460816	NUMBER	[M117440614] S117460816
SHCYCTOXXKFCOFS0LDGIG2ONCFT	S117460817	NUMBER	[M117440614] S117460817
XUNO3HA0VSBMUU4SIK6	S117460819	NUMBER	[M117440614] S117460819

CCT51KD			
TU4RBTIS4PC0LRL6ETN14 BQTAT	S117460820	NUMBER	[M117440614] S117460820
XHC5RW6R0RCNUTSTYSJU 1EIRG6	S117460821	NUMBER	[M117440614] S117460821

**7.33.78HUA\_SCCP\_UTILIZATION\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440616] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VAVBICUNBWBJSNRM42 HOVW3V5	S117461013	NUMBER	[M117440616] S117461013
V1BUI3UOXSBQCE5FEN1 WSCWDA	S117461014	NUMBER	[M117440616] S117461014
SUC6PMIJSBCPWBXQBH3V 00TOGF	S117461015	NUMBER	[M117440616] S117461015
SNWECWVPSUBMNS0J5S3B 1OX2QM	S117461016	NUMBER	[M117440616] S117461016
XYVAVT4R0BCJPTRHVWAI EST5GK	S117461017	NUMBER	[M117440616] S117461017
WJCCT5XIXECP1SN536WOJ WWBW4	S117461019	NUMBER	[M117440616] S117461019
VWV44N54CDCCLRXLRI 50L566	S117461020	NUMBER	[M117440616] S117461020
Y5LIWGT4ADB1NBKMMRG 6CQF2XN	S117461021	NUMBER	[M117440616] S117461021
SHEYLO1YNCBT2EK1AI01H 52MJW	S117461022	NUMBER	[M117440616] S117461022

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### 7.33.79HUA\_SGSN\_BSSGP\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440519] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SY02IJ6VELBLDUKF4RIDRP Q4SA	S117451313	NUMBER	[M117440519] S117451313
U3LNRFIX50CATUXBTYDN6 YEGPM	S117451314	NUMBER	[M117440519] S117451314
XPKXQNQVYIC0XCOHJFY6B C0P2P	S117451315	NUMBER	[M117440519] S117451315
R2CBOALUW6BLIT4RNNRK WONWMJ	S117451316	NUMBER	[M117440519] S117451316
TN44DCO00PBUTDHT25NKB 3FFUX	S117451317	NUMBER	[M117440519] S117451317
TDSH5K1L2LBRLCV3INQKD US44F	S117451318	NUMBER	[M117440519] S117451318
RYUEFNXMHW53SGCODKJ FQ2DQR	S117451319	NUMBER	[M117440519] S117451319
YG23B1DEA4B0JEWVFGC3B 5H45K	S117451320	NUMBER	[M117440519] S117451320
SCGKKO3312BLMSNYI30ELE AS43	S117451321	NUMBER	[M117440519] S117451321
YHBJHOS6BJCMVE12I251XF4 YXP	S117451322	NUMBER	[M117440519] S117451322
VCCGMPX4RPC13TEF2GLJR ATE0C	S117451323	NUMBER	[M117440519] S117451323
TSBNRLYFMFBAQCMF3LLW EA0OMX	S117451324	NUMBER	[M117440519] S117451324
R2XTW0E0HKBEPEKQD3LI6 SB6EO	S117451325	NUMBER	[M117440519] S117451325
R5JMQ3QWWHBXWR21XQJ3 SJ3HP6	S117451326	NUMBER	[M117440519] S117451326

WWJSASYICGBHUDGDMS0E G10WQC	S117451327	NUMBER	[M117440519] S117451327
S5IOI1XQUUC4BBTJXJIIOPY YLF	S117451328	NUMBER	[M117440519] S117451328
SKWVSQ2NOVB60U6X2CKH BQY5SG	S117451329	NUMBER	[M117440519] S117451329
UX32VCVBNECINT6LOPOPW LH4TE	S117451330	NUMBER	[M117440519] S117451330
X4RD2AY4X0B5NBH4V0TGO 536NH	S117451331	NUMBER	[M117440519] S117451331
SRHU3VRCWAB21EAWX2DH 4KTRUH	S117451332	NUMBER	[M117440519] S117451332
UJS0NQCX1DBOFCJEUTQBE 0YIX3	S117451333	NUMBER	[M117440519] S117451333
UFKSUG14NRCMPTBQNWS6 MGRWQQ	S117451334	NUMBER	[M117440519] S117451334
S46D53VX6TCJOREQA2QUT ODC5T	S117451335	NUMBER	[M117440519] S117451335
TJNDLNTAP0CFGR204CI3OF OCF2	S117451336	NUMBER	[M117440519] S117451336
SAAN63H3XA2AIRVH002IND 6WBG	S117451337	NUMBER	[M117440519] S117451337
SAAN63J3XA2AIRVH002IND6 WBG	S117451338	NUMBER	[M117440519] S117451338
SAAN63L3XA2AIRVH002IND 6WBG	S117451339	NUMBER	[M117440519] S117451339
SAAN63N3XA2AIRVH002IND 6WBG	S117451340	NUMBER	[M117440519] S117451340
SAAN63P3XA2AIRVH002IND 6WBG	S117451341	NUMBER	[M117440519] S117451341

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### 7.33.80HUA\_SGSN\_CDR\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440512] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN62L3XA2AIRVH002IND6WBG	S117450627	NUMBER	[M117440512] S117450627
SAAN62N3XA2AIRVH002IND6WBG	S117450628	NUMBER	[M117440512] S117450628
SAAN62P3XA2AIRVH002IND6WBG	S117450629	NUMBER	[M117440512] S117450629
SAAN62R3XA2AIRVH002IND6WBG	S117450630	NUMBER	[M117440512] S117450630
SAAN62T3XA2AIRVH002IND6WBG	S117450631	NUMBER	[M117440512] S117450631
SECWMUIRHDCO4CF1RFTDGTAM1	S117450613	NUMBER	[M117440512] S117450613
TF5AP0CBG5C1OBQHNO3VLY20NE	S117450614	NUMBER	[M117440512] S117450614
TKHR1NU3MLCT5RC63VNWUS6WJY	S117450615	NUMBER	[M117440512] S117450615
WXG6UXK2W1BIGB4RI5LCOCXD3V	S117450616	NUMBER	[M117440512] S117450616
TJMK45PLFICLVEFQRKFDRLFTKX	S117450617	NUMBER	[M117440512] S117450617
XVJU2HGCH0CARRTOO0H6HE6YAM	S117450618	NUMBER	[M117440512] S117450618
UTDK4C1BR4BVBEP4FE0LB50ES	S117450619	NUMBER	[M117440512] S117450619
S5K3DOFOMAC6ESOA1MY1HWM5QV	S117450620	NUMBER	[M117440512] S117450620
TI2NOKTKABBU5UNA3IT0UGFOE2	S117450621	NUMBER	[M117440512] S117450621

R61SUVGKQ4B3JECO0L6ST4 AVE0	S117450622	NUMBER	[M117440512] S117450622
RARAEATNB0B5FSC4Q3C5T GNGLB	S117450623	NUMBER	[M117440512] S117450623
YSW5VH2M53BS2THOEPMN P6BXUH	S117450624	NUMBER	[M117440512] S117450624
W1RVSQUR6CC0GBSNL3XN LQTJHV	S117450625	NUMBER	[M117440512] S117450625
VLDPOSILHEC0GRBUVLKH VABIJO	S117450626	NUMBER	[M117440512] S117450626

**7.33.81HUA\_SGSN\_COMP\_CARD\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440518] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XW1WNM6RPICOOS1LGNA QXJFS23	S117451213	NUMBER	[M117440518] S117451213
UUARMMMQOEBROD0U5Q D6HJ5MTE	S117451214	NUMBER	[M117440518] S117451214
WXPPQ5CVQUBK0CVYE1IH X202A2	S117451215	NUMBER	[M117440518] S117451215
RKRL4031KPBB3TUTXHROC LHNF6	S117451216	NUMBER	[M117440518] S117451216

**7.33.82HUA\_SGSN\_DNS\_REQUEST\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440531] SGSN_ID

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TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6BH3XA2AIRVH002IN D6WBG	S117452519	NUMBER	[M117440531] S117452519
WUT1S1S4JNCSLSIDFX1TMJ 5R6M	S117452513	NUMBER	[M117440531] S117452513
WDQ2RKL3QSCHKBYX3NR DESHFEL	S117452514	NUMBER	[M117440531] S117452514
TEMLYQGUXGBA0TBO62IN NSLM66	S117452515	NUMBER	[M117440531] S117452515
S64SN0AAK3C6MDAK6DFJP TLEX4	S117452516	NUMBER	[M117440531] S117452516
Y1LSP2YRN6CWASI4YFLVD NRGNR	S117452517	NUMBER	[M117440531] S117452517
VX45NP4XDPBRMCYNHBB3 BSAWMN	S117452518	NUMBER	[M117440531] S117452518

### 7.33.83HUA\_SGSN\_ENCRYPTION\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440521] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN63R3XA2AIRVH002IN D6WBG	S117451525	NUMBER	[M117440521] S117451525
SAAN63T3XA2AIRVH002IN D6WBG	S117451526	NUMBER	[M117440521] S117451526
SAAN63V3XA2AIRVH002IN D6WBG	S117451527	NUMBER	[M117440521] S117451527
SAAN63X3XA2AIRVH002IN D6WBG	S117451528	NUMBER	[M117440521] S117451528
SAAN6403XA2AIRVH002IN D6WBG	S127938279	NUMBER	[M117440521] S127938279
SAAN6423XA2AIRVH002IN	S127938280	NUMBER	[M117440521] S127938280

D6WBG			
VUBKWY1CLHCVRE21Q1B V2LWY60	S117451513	NUMBER	[M117440521] S117451513
UI0KJFXO5HCGGR5BRUKV RMAO6E	S117451514	NUMBER	[M117440521] S117451514
RY2YP2X3E4BCVSNMNUVJ DWWIJP	S117451515	NUMBER	[M117440521] S117451515
W3JXW6SBE0BHAC21CM23 OHCEHC	S117451516	NUMBER	[M117440521] S117451516
XX2VBORXYKCVMUPE6LO DJR6TAE	S117451517	NUMBER	[M117440521] S117451517
W31HR46XMICGBTW5RRA U1BJ1EH	S117451518	NUMBER	[M117440521] S117451518
W2EP50FNQFCE4CHENC2K 5ODVPV	S117451519	NUMBER	[M117440521] S117451519
SND4LIUCJBCDCDTYIHFX MFQU1H	S117451520	NUMBER	[M117440521] S117451520
RGV4K4P6FVBG1ENRKJ214 GHYGM	S117451521	NUMBER	[M117440521] S117451521
TDPAEBXIBXBRSDRWM5K LTD1CAP	S117451522	NUMBER	[M117440521] S117451522
VE3JSGGBDSC44RMVG44V TCJSY0	S117451523	NUMBER	[M117440521] S117451523
WUOFGK10JDCX1D1GJVCV F4BXBQ	S117451524	NUMBER	[M117440521] S117451524
XS3GLWRHVA2AHD4AB00 PG3RX00	S127938275	NUMBER	[M117440521] S127938275
Y3RRQB2HVA2AHD4AB00P G3RX00	S127938276	NUMBER	[M117440521] S127938276
Y3RRQB4HVA2AHD4AB00P G3RX00	S127938277	NUMBER	[M117440521] S127938277
YG2M2PNHVA2AHD4AB00P	S127938278	NUMBER	[M117440521] S127938278

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G3RX00			
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### 7.33.84HUA\_SGSN\_FR\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440517] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WSP151VGREB3HDUU6JRQY1LB2D	S117451113	NUMBER	[M117440517] S117451113
THD6FJTXQICH1UDPQOO4U0AAXH	S117451114	NUMBER	[M117440517] S117451114
RMTU3BP16WCNSC6FMV10GNBUVA	S117451115	NUMBER	[M117440517] S117451115
XXU4VBM30BBLYBGIXCBGQ3SOMJ	S117451116	NUMBER	[M117440517] S117451116
UQ41QSUA5FC41CUCIJ06BWNBEM	S117451117	NUMBER	[M117440517] S117451117
RPTVRXVUBBBITR00WP6XRNCAI3	S117451118	NUMBER	[M117440517] S117451118
W6DU63WCBXBJRT0F1UG64TAJI6	S117451119	NUMBER	[M117440517] S117451119
R2YOIMRSBGBAPUH4PT6R4BOOOR	S117451120	NUMBER	[M117440517] S117451120
YV2HY4RTFBBWMTQTHRUQBWN5UP	S117451121	NUMBER	[M117440517] S117451121
W1DVX26PUGCXLRWIQMK2L5KKEH	S117451122	NUMBER	[M117440517] S117451122
V1EV01SBHFCLBUXYWNP6HX3UIY	S117451123	NUMBER	[M117440517] S117451123
YAJUV2M06TCCEUOE41JJ5UAVMY	S117451124	NUMBER	[M117440517] S117451124
YMDWE1FF5DCUFCWH1KUNNWT6IF	S117451125	NUMBER	[M117440517] S117451125

**7.33.85HUA\_SGSN\_GB\_RESOURCE\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440522] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TXMKCRQHU2CFXTIC3RKP YKKERY	S117451613	NUMBER	[M117440522] S117451613
UUMBB6NJ2TB10S6OFE5CD EKAFT	S117451614	NUMBER	[M117440522] S117451614
YV4XITRVHRBAUSYVWLY CE33K00	S117451615	NUMBER	[M117440522] S117451615
YGUULNRDBWCSWCH34X6 NPHUC5D	S117451616	NUMBER	[M117440522] S117451616
XOJU2PSUXPCMOUKNN55Q OM3EO4	S117451617	NUMBER	[M117440522] S117451617
YASBRQBFHFHBM0BYOXPA TR1RCUB	S117451618	NUMBER	[M117440522] S117451618
YLVRTY1FSCBWITWDY6SO 44F3AT	S117451619	NUMBER	[M117440522] S117451619

**7.33.86HUA\_SGSN\_LLC\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440515] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TPFR1JB4H5BT1EFUHDHGD U3NFW	S117450913	NUMBER	[M117440515] S117450913

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YVV5PML26WBSSSIQJQLBF KFTST	S117450914	NUMBER	[M117440515] S117450914
U2PFRQPEMRCDKBOGGC26 XLOQX5	S117450915	NUMBER	[M117440515] S117450915
XN2PCM0TRFCKFTTGHSUII KE30E	S117450916	NUMBER	[M117440515] S117450916
SKMK6FQPLICKJSW0RYGVL WWADL	S117450917	NUMBER	[M117440515] S117450917
YTALRPKX5UBU3UVOIVEY UBRL4C	S117450918	NUMBER	[M117440515] S117450918
USPFOCAD4BBOGCLDGGC5 Y0RG1V	S117450919	NUMBER	[M117440515] S117450919
XQ6KOLV651CNOBUJO4NAP 46GJB	S117450920	NUMBER	[M117440515] S117450920
SAAQMFC0GNCNOUEKQY5 RH2WGGQ	S117450921	NUMBER	[M117440515] S117450921
VWK11DFYXICCTSMADXY1 JAGRBX	S117450922	NUMBER	[M117440515] S117450922
U5D20IJ6F5CVGT266PQLFBR DC5	S117450923	NUMBER	[M117440515] S117450923
UH3TDYNC32BJMDYMMTB DED2NCH	S117450924	NUMBER	[M117440515] S117450924
XLME2YRCCBMOSG5KHD2 QCM4GL	S117450925	NUMBER	[M117440515] S117450925
TCX3I3CO5VCAFSFYJYSPAB 1AT0	S117450926	NUMBER	[M117440515] S117450926
WRWR04G23XBBHTXVIXX3 AAVUUP	S117450927	NUMBER	[M117440515] S117450927
XVNO6REPLBC6MSHBOEPF KCVWXV	S117450928	NUMBER	[M117440515] S117450928
WIJM2S2SB4CNTCQJHJE2FN QCBO	S117450929	NUMBER	[M117440515] S117450929
T350TSWFUBCOKT0LQ1UVD YCWY1	S117450930	NUMBER	[M117440515] S117450930
YC0IV0AG46CG4SOHNFHXK	S117450931	NUMBER	[M117440515] S117450931

QVU0Q			
YKFM0H21QRCHIEVIWHV1J W1EMD	S117450932	NUMBER	[M117440515] S117450932
V63HLX1CU3BK3TIGTADNR Q10TY	S117450933	NUMBER	[M117440515] S117450933
XVS5WNVQVDCVMRQ42ERJ 3SCSUG	S117450934	NUMBER	[M117440515] S117450934
RACS0YKCASBYRU1JNIWM R2514A	S117450935	NUMBER	[M117440515] S117450935
SPTRHTINV5CS1EJVL4E4Y6 QRST	S117450936	NUMBER	[M117440515] S117450936
TIMEEBQLUCC23DVYO4HF MNL5E3	S117450937	NUMBER	[M117440515] S117450937
UUDBHUXPELCHHRVWRVS PP2NL5I	S117450938	NUMBER	[M117440515] S117450938
VOU6LAN4MXCJYR14OQ1U XOAPGW	S117450939	NUMBER	[M117440515] S117450939
UA4VHK52ROBRXE46JFNS5F G4PQ	S117450940	NUMBER	[M117440515] S117450940
SXIYXAD1BMBCUDJ3ET3TX BXKUO	S117450941	NUMBER	[M117440515] S117450941
X14BCVGLH0CB2SD46OMVJ TE2WS	S117450942	NUMBER	[M117440515] S117450942
R4OER0GVTJCALBYCL1MGL H4TFV	S117450943	NUMBER	[M117440515] S117450943
VEPPAAEFIOCUFT51HL4C6I TWGV	S117450944	NUMBER	[M117440515] S117450944
R2J0E0XJQ3BFWCO2YYLA4 OTLAD	S117450945	FLOAT	[M117440515] S117450945
SG6YHTJ3N2BF1U0Y3RGTG5 3XJY	S117450916_18_24_2 6	NUMBER	[M117440515] S117450916 + S117450918 + S117450924 + S117450926

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SAAN62V3XA2AIRVH002IND 6WBG	S117450946	NUMBER	[M117440515] S117450946
SAAN62X3XA2AIRVH002IND 6WBG	S117450947	FLOAT	[M117440515] S117450947
SAAN6303XA2AIRVH002IND 6WBG	S117450948	FLOAT	[M117440515] S117450948
SAAN6323XA2AIRVH002IND 6WBG	S117450949	FLOAT	[M117440515] S117450949
SAAN6343XA2AIRVH002IND 6WBG	S117450950	FLOAT	[M117440515] S117450950
SAAN6363XA2AIRVH002IND 6WBG	S117450951	FLOAT	[M117440515] S117450951
SAAN63B3XA2AIRVH002IND 6WBG	S117450952	FLOAT	[M117440515] S117450952
SAAN63D3XA2AIRVH002IND 6WBG	S117450953	FLOAT	[M117440515] S117450953
SAAN63F3XA2AIRVH002IND 6WBG	S117450954	FLOAT	[M117440515] S117450954

### 7.33.87HUA\_SGSN\_NS\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR 2(50)	[M117440520] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WPHUKU1J5YBLCTQ2Y11KC 62ABL	S117451413	NUMBER	[M117440520] S117451413
RD3EVA4SDOCGB6RIH000 Q2A4T	S117451414	NUMBER	[M117440520] S117451414
TAOTLSHB13CW5BIWNAM6 GCF0EO	S117451415	NUMBER	[M117440520] S117451415
UIL5SF21G2CC3D1I3F1D2GH PLH	S117451416	NUMBER	[M117440520] S117451416
UFKVMT6XLECCRCF4BSFL3	S117451417	NUMBER	[M117440520] S117451417

QXVB3			
RP0NK4BLI5BF0DJA0KKFG3 NACS	S117451418	NUMBER	[M117440520] S117451418
XWU2DX5D03BRARQF01SQJ PNUTH	S117451419	NUMBER	[M117440520] S117451419
YLMEN005MFBC6SJHEWBK DKSQBO	S117451420	NUMBER	[M117440520] S117451420
XLXQBA26BNB20C6CEIIX01 YDP1	S117451421	NUMBER	[M117440520] S117451421
UFX3LW4QW3C30D5THTH2L H6MIU	S117451422	NUMBER	[M117440520] S117451422
RXTYMI15EPCQPEFKQKU1 MBJKUK	S117451423	NUMBER	[M117440520] S117451423
R4021EOIG2CQFTJYMXFGK U2BDD	S117451424	NUMBER	[M117440520] S117451424
YA065AJ5SUBQTB6UAFOE MSWV6	S117451425	NUMBER	[M117440520] S117451425
WGBE0PAGLCB1YCAV4Q2H EXDLU5	S117451426	NUMBER	[M117440520] S117451426
SUOWVPVNOKCG1BMXLXI VOMFBK1	S117451427	NUMBER	[M117440520] S117451427
YR0JFWJP5VB0BB2CKGE64A EO3S	S117451428	NUMBER	[M117440520] S117451428
SIDJEGT1FVCIBCQ6A0JCWD 31DB	S117451429	NUMBER	[M117440520] S117451429
TN00CPFS36BLAUUAF230DJ PBTG	S117451430	NUMBER	[M117440520] S117451430
RNWOQHSDINBGUSDNO1B B2PKECS	S117451431	NUMBER	[M117440520] S117451431
YESBVRPWIECYLBKJWUTY DKPQ3I	S117451432	NUMBER	[M117440520] S117451432
UQWO5UOALEBTEB3HDQR	S117451433	NUMBER	[M117440520] S117451433

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AGFDOSA			
RLYBSKQ5CDCG2BMENMM PALWL2B	S117451434	NUMBER	[M117440520] S117451434
TL63XMYNY42AHC3LR02IN CNMDW	S117451435	FLOAT	[M117440520] S117451435
TL63XN1NY42AHC3LR02INC NMDW	S117451436	FLOAT	[M117440520] S117451436
TL63XN3NY42AHC3LR02INC NMDW	S117451437	FLOAT	[M117440520] S117451437
TL63XN5NY42AHC3LR02INC NMDW	S117451438	FLOAT	[M117440520] S117451438
TL63XNANY42AHC3LR02IN CNMDW	S117451439	NUMBER	[M117440520] S117451439
TL63XNCNY42AHC3LR02INC NMDW	S117451440	NUMBER	[M117440520] S117451440
TL63XNENY42AHC3LR02INC NMDW	S117451441	NUMBER	[M117440520] S117451441
TL63XNGNY42AHC3LR02IN CNMDW	S117451442	NUMBER	[M117440520] S117451442
TL63XNINY42AHC3LR02INC NMDW	S117451443	FLOAT	[M117440520] S117451443
TL63XNKNY42AHC3LR02IN CNMDW	S117451444	FLOAT	[M117440520] S117451444
TL63XNMNY42AHC3LR02IN CNMDW	S117451445	NUMBER	[M117440520] S117451445
TL63XNONY42AHC3LR02IN CNMDW	S117451446	NUMBER	[M117440520] S117451446
TL63XNQNY42AHC3LR02IN CNMDW	S117451447	NUMBER	[M117440520] S117451447
TL63XNSNY42AHC3LR02INC NMDW	S117451448	NUMBER	[M117440520] S117451448

### 7.33.88HUA\_SGSN\_RELOCATION\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
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SGSN_ID		VARCHAR2(50)	[M117440581] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XMAKFNYNRDC6PC6E4HI3EY2R50	S117457513	NUMBER	[M117440581] S117457513
VXN1QVDEOJBQRDN6AQI1VUYM6G	S117457514	NUMBER	[M117440581] S117457514
WGKNCCXCE2B42SFBVEIRU3EBIA	S117457515	NUMBER	[M117440581] S117457515
XBMYCJ0CP5BHDRSKIJLNLURXR	S117457516	NUMBER	[M117440581] S117457516
R6AK0H5HSEB3QSVHRPYHTCIOXE	S117457517	NUMBER	[M117440581] S117457517
V6PNA5R5DIBI5REPGSHDDTMNNG	S117457518	NUMBER	[M117440581] S117457518
TYP2T5VYMABQVEXGO3F5AT0GTL	S117457519	NUMBER	[M117440581] S117457519
U3R2JN16U2BTDBLD4500CN2QIY	S117457520	NUMBER	[M117440581] S117457520
V0BFYV3TXSC65CUHP3O4GCDEY5	S117457521	NUMBER	[M117440581] S117457521
UYGJQU5G5CCNHBWMOBW XIOAN4A	S117457522	NUMBER	[M117440581] S117457522
YEDW63LMQKBGAS34EAAPD5UT6C	S117457523	NUMBER	[M117440581] S117457523
XXUWSECW3NC51CQYSXYIJ2AXXL	S117457524	NUMBER	[M117440581] S117457524

**7.33.89HUA\_SGSN\_SNDP\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
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SGSN_ID		VARCHAR2(50)	[M117440516] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
X0EH4B5GXWCIBD03QV5JO 2YAVK	S117451013	NUMBER	[M117440516] S117451013
U0DQNSBEU1C2XTG4OYJE VWYBTJ	S117451014	NUMBER	[M117440516] S117451014
XNJ43E040MCWNEU3OSKM YOS164	S117451015	NUMBER	[M117440516] S117451015
URQ3E2HYGXCT2C5E6NWJ A604HH	S117451016	NUMBER	[M117440516] S117451016
XFUVDKWABXCDSTC05UY O5CJT3E	S117451017	NUMBER	[M117440516] S117451017
R5DSA5MINXCR2BOM5OLY 5MEPSB	S117451018	NUMBER	[M117440516] S117451018
UO3XBVXYIUBA1DK2M466 AD42CQ	S117451019	NUMBER	[M117440516] S117451019
VRBHPQNCJCIGDDCUDX R1OB1KO	S117451020	NUMBER	[M117440516] S117451020
UYJOGIAF0DBLFB2GWMP MXOAM1S	S117451021	NUMBER	[M117440516] S117451021
VTNTLFJPGFCRFUOFNTIT1 LTAKU	S117451022	NUMBER	[M117440516] S117451022
V4WEDVY15YB0ETUHW4D G1HUXFH	S117451023	NUMBER	[M117440516] S117451023
YRGR535EB1BCIUTM0KHY YFP1DL	S117451024	NUMBER	[M117440516] S117451024
TSX4BJB4KJCEBRJYLYS36D U164	S117451025	NUMBER	[M117440516] S117451025
YYC33D2MW2C1WCOW054 01WXC1Q	S117451026	NUMBER	[M117440516] S117451026
W0WSYBKVYPCXDTO1TJG 0LX4BQM	S117451027	NUMBER	[M117440516] S117451027

**7.33.90HUA\_SMS\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440630] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XYKGAWIY3GC5YT6MS464QDJVLX	S117462413	NUMBER	[M117440630] S117462413
UHJAOI6YIMCEED6F6646E4OH4X	S117462414	NUMBER	[M117440630] S117462414
TD34S1FPO5BVNB4NI1TB131W6H	S117462415	NUMBER	[M117440630] S117462415
WYTHK3DO6GBECRBNALGMFDP1PY	S117462416	NUMBER	[M117440630] S117462416
VP4R5NYMDKBM TU4O6BA5T3OH5S	S117462417	NUMBER	[M117440630] S117462417
WGI15AYHRYBIYE3GONP1CFLWC5	S117462418	NUMBER	[M117440630] S117462418
S16ERDTBOOCOKE LUTMB4IQTTOF	S117462419	NUMBER	[M117440630] S117462419
WOSPH2F0HSC1XDI0KU1ETKYUTN	S117462420	NUMBER	[M117440630] S117462420
RHHQR1NCHTBDVSVJKYHHGYRPRE	S117462421	NUMBER	[M117440630] S117462421
YYE630Q2NQC VLR4YHM0TPFEBJ1	S117462422	NUMBER	[M117440630] S117462422
T0H5IT2ST3BJKRRTWC4V5PUL1S	S117462423	NUMBER	[M117440630] S117462423
VG4OKG1E2RC46RM01G5E6SHVNP	S117462424	NUMBER	[M117440630] S117462424
UIUHSJEAUB64R2UOHF4XP	S117462425	NUMBER	[M117440630] S117462425

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T24G			
WAC6E4S3A2CL4S5RYWXDP FVFGI	S117462426	NUMBER	[M117440630] S117462426
YC6GQ0P4TVCKKS6DYD6YJ5 UXR2	S117462427	NUMBER	[M117440630] S117462427
VLA5BTFCIFBLBUHDOXLJ1L 4XOP	S117462428	NUMBER	[M117440630] S117462428
YLJSSTRCNLBK6BPOGXWAI Q2O2P	S117462429	NUMBER	[M117440630] S117462429
WDSUXCEI6LC4LU4T0AYP26 U4YD	S117462430	NUMBER	[M117440630] S117462430
T5PWCLFDJWCKMUN62NEA5 TCAYH	S117462431	NUMBER	[M117440630] S117462431
VESK26PYCHBNAE3RM0T2Q DUOE4	S117462432	NUMBER	[M117440630] S117462432
W6K3MU4LBVC2ATXJQW0G5 CCXQ1	S117462433	NUMBER	[M117440630] S117462433
TEV3M2RADACX4D51KFQ2Q YARY1	S117462434	NUMBER	[M117440630] S117462434
TFA4XRPTIRCTNSKHT4OKSP IVEM	S117462435	NUMBER	[M117440630] S117462435
WCUUX66UVYB15SOJC4P353 5YLL	S117462436	NUMBER	[M117440630] S117462436
WUNDXXR4M6B4MD4HKRPA M5PS3T	S117462437	NUMBER	[M117440630] S117462437
XE3GFPTVROC3PR5QM6WHB C5B3R	S117462438	NUMBER	[M117440630] S117462438
XH5YRQ5R3JBFTRNSGQBQO R52VQ	S117462439	NUMBER	[M117440630] S117462439
Y10VYE6VXMB1RUQERIGNE EM2HC	S117462440	NUMBER	[M117440630] S117462440
YNWG4F2OWXB53R2VQDIVQ SLPSI	S117462441	NUMBER	[M117440630] S117462441
UF54ARU26RCLOSXKADQJIO 2PPC	S117462442	NUMBER	[M117440630] S117462442

WAVHBVAVVPBEGCCWPQV QM31XGN	S117462443	NUMBER	[M117440630] S117462443
XUY0152DMLCJKELCIGQFXY FTLH	S117462444	NUMBER	[M117440630] S117462444
TL63XVWNY42AHC3LR02INC NMDW	S117462497	NUMBER	[M117440630] S117462497

**7.33.91HUA\_SUPP\_SERVICE\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440629] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UIT6Y4GOVQBWQT34F3B KKGRV3P	S117462313	NUMBER	[M117440629] S117462313
RY5GHIU41IBMURJAPPP0I ON65H	S117462314	NUMBER	[M117440629] S117462314

**7.33.92HUA\_TCAP\_COMP\_UTIL\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440618] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YMHI023FRCCN6SCXYTA51T QSCH	S117461213	NUMBER	[M117440618] S117461213
RTL60AXKA2BC5S0PI4R41HE PL3	S117461214	NUMBER	[M117440618] S117461214
XLLBMHAHIQCPREG44S6AX 2E15H	S117461215	NUMBER	[M117440618] S117461215

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YATYNAKTR6CI1SOBQ5WR5 UK2ML	S117461216	NUMBER	[M117440618] S117461216
YA1P6WWGWNQB6CVVUSK 1GSMUEC	S117461217	NUMBER	[M117440618] S117461217
YPBP5LNCR3B4EEJALEWDS 0GUAT	S117461218	NUMBER	[M117440618] S117461218
TQBVA3PPHCBAICYNHXYD RG6DLT	S117461219	NUMBER	[M117440618] S117461219
VF2O4WDBEUBXUBKG1IBD EYGAK5	S117461220	NUMBER	[M117440618] S117461220
SHUBVRFEKPBXGDRPOV3H 5QKSGD	S117461221	NUMBER	[M117440618] S117461221
VHEC633QAOBJFUEM6YJK6 YQL4E	S117461222	NUMBER	[M117440618] S117461222

### 7.33.93HUA\_TCAP\_CSL\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440621] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
T12K1BPYBGBHERISBEOB MB1HC3	S117461513	NUMBER	[M117440621] S117461513
REDMGF2X0ACEWBJXDFJP VNR5QG	S117461514	NUMBER	[M117440621] S117461514
T5FUROA403COLS0VGYDJH 1CXTN	S117461515	NUMBER	[M117440621] S117461515
VQKBJEEE6EB5LE652E1GSB 6UMU	S117461516	NUMBER	[M117440621] S117461516
V2JU6LFGLICUHRU0T6BSC 2IEEQ	S117461517	NUMBER	[M117440621] S117461517
TSRATA5WTFB0CCYJJKRQJ HH2AR	S117461518	NUMBER	[M117440621] S117461518
U1EUP4SNTFC1QR6JC3MG	S117461519	NUMBER	[M117440621] S117461519

WG4GGG			
VD5WW2M5FUCT0RREBYU NKGXJMJ	S117461520	NUMBER	[M117440621] S117461520

**7.33.94HUA\_TCAP\_MESSAGE\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440619] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
X0IY4BYCUDC6HSRL4NMU W2SQB2	S117461313	NUMBER	[M117440619] S117461313
TLTVUQTIM0CDJSGCFX4Y NHM2G1	S117461314	NUMBER	[M117440619] S117461314
RQEH4N24YOBP0E2RSKRG YMBSQ1	S117461315	NUMBER	[M117440619] S117461315
X03U6LQHIDB3KC6VNMR5I OWOWP	S117461316	NUMBER	[M117440619] S117461316
W0IECDNNBxB4FBYUPPNA YMNBMR	S117461317	NUMBER	[M117440619] S117461317
R4UIBYI1H4CHLBACS36YS YUFR0	S117461318	NUMBER	[M117440619] S117461318
SC1UAHE3T3C21DVMHOA0J GLMPW	S117461319	NUMBER	[M117440619] S117461319
XNJ2YLW4GFCEIDWURHV6 ODRCP0	S117461320	NUMBER	[M117440619] S117461320
XLL1DNXNCOBG4SLCHVR XKIYKEX	S117461321	NUMBER	[M117440619] S117461321
X3NLWCUCOCHCIXBIOLEA1 2DH6RG	S117461322	NUMBER	[M117440619] S117461322

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**7.33.95HUA\_TCAP\_TSL\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440620] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VYSX3FLWVSCORRXOQXF Y54JMUR	S117461418	NUMBER	[M117440620] S117461418
WTJLVOPXHACIPCOVRP43 V32EC6	S117461419	NUMBER	[M117440620] S117461419
UWMAXD6VUACC2C5F1D6 D15WLCR	S117461420	NUMBER	[M117440620] S117461420
WUETYCQDVKBNSRXQYS 1YJMATF	S117461421	NUMBER	[M117440620] S117461421
TX33ET3BOOCO6DH6DCGK HM5SEP	S117461422	NUMBER	[M117440620] S117461422
WNUFSTEMR0B5FUDU5NIL NDFPD0	S117461423	NUMBER	[M117440620] S117461423
VKK6JQTXJGBWGCTC2MLL OJCU3S	S117461424	NUMBER	[M117440620] S117461424
UDQCU2YGI3CBXTEHWS ED0UFSKM	S117461425	NUMBER	[M117440620] S117461425
WNO25404PSCYFS0OF2ONO LBUFB	S117461426	NUMBER	[M117440620] S117461426
Y3GLEFTM0WBHRS1FGQ5T VXGWP6	S117461427	NUMBER	[M117440620] S117461427

**7.33.96HUA\_UE\_BANDWIDTH\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[M117440540] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

RLFQIGRX2JB5DRME2YTH U1NMLH	S117453413	FLOAT	[M117440540] S117453413
VLLOXTJUUVNBKIRFTYOE I110K0B	S117453414	FLOAT	[M117440540] S117453414
TQJIIW3MCKBORUMC4L1 BIYBDJH	S117453415	FLOAT	[M117440540] S117453415
SDPEQ1RJ0LCI0R14PUWD GIMA45	S117453416	FLOAT	[M117440540] S117453416

**7.33.97HUA\_UGFU\_NS\_TRANSF\_IP\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR R2(50)	[M117440665] SGSN_ID
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WC264CUTVHBIUCOOE00H UXEILU	S117465913	NUMBER	[M117440665] S117465913
WFWOM631P3BLWURCKN2 0BK5HSW	S117465914	NUMBER	[M117440665] S117465914
VRB0KIFDRDBX4D1WD4KV LSOMOT	S117465915	NUMBER	[M117440665] S117465915
TQJOJDNX4TBWDE15SHOT3 FFPSH	S117465916	NUMBER	[M117440665] S117465916
VTBP31ANSWBAJURY1MO MDLA516	S117465917	NUMBER	[M117440665] S117465917
YIW1D1JJV6B4ABFFUME5Q BKSV4	S117465918	NUMBER	[M117440665] S117465918
RHCAHCLPDSBYOSE0Y0DI ASDR61	S117465919	NUMBER	[M117440665] S117465919

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## 7.34 Raw SGSN\_Board Tables

### 7.34.1 HUA\_M117440712\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_BOARD_ID		VARCHAR2(50)	[M117440712] SGSN_ID & "/" & SRN & "-" & SN & "-" & BP
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6VV3XA2AIRVH002I ND6WBG	S117473513	NUMBER	[M117440712] S117473513
SAAN6VX3XA2AIRVH002I ND6WBG	S117473514	NUMBER	[M117440712] S117473514
SAAN6W03XA2AIRVH002I ND6WBG	S117473515	NUMBER	[M117440712] S117473515
SAAN6W23XA2AIRVH002I ND6WBG	S117473516	NUMBER	[M117440712] S117473516

### 7.34.2 HUA\_M117440718\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_BOARD_ID		VARCHAR2(50)	[M117440718] SGSN_ID & "/" & SRN & "-" & SN & "-" & BP
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6WN3XA2AIRVH002I ND6WBG	S117474113	NUMBER	[M117440718] S117474113
SAAN6WP3XA2AIRVH002I ND6WBG	S117474114	NUMBER	[M117440718] S117474114
SAAN6WR3XA2AIRVH002I ND6WBG	S117474115	NUMBER	[M117440718] S117474115
SAAN6WT3XA2AIRVH002I ND6WBG	S117474116	NUMBER	[M117440718] S117474116
SAAN6WV3XA2AIRVH002I ND6WBG	S117474117	NUMBER	[M117440718] S117474117

SAAN6WX3XA2AIRVH002I ND6WBG	S117474118	NUMBER	[M117440718] S117474118
SAAN6X03XA2AIRVH002I ND6WBG	S117474119	NUMBER	[M117440718] S117474119
SAAN6X23XA2AIRVH002I ND6WBG	S117474120	NUMBER	[M117440718] S117474120
SAAN6X43XA2AIRVH002I ND6WBG	S117474121	NUMBER	[M117440718] S117474121
SAAN6X63XA2AIRVH002I ND6WBG	S117474122	NUMBER	[M117440718] S117474122
SAAN6XB3XA2AIRVH002I ND6WBG	S117474123	NUMBER	[M117440718] S117474123
SAAN6XD3XA2AIRVH002I ND6WBG	S117474124	NUMBER	[M117440718] S117474124
SAAN6XF3XA2AIRVH002I ND6WBG	S117474125	NUMBER	[M117440718] S117474125
SAAN6XH3XA2AIRVH002I ND6WBG	S117474126	NUMBER	[M117440718] S117474126
SAAN6XJ3XA2AIRVH002IN D6WBG	S117474127	NUMBER	[M117440718] S117474127
SAAN6XL3XA2AIRVH002I ND6WBG	S117474128	NUMBER	[M117440718] S117474128

### 7.34.3 HUA\_M117440721\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_BOARD_ID		VARCHAR2(50)	[M117440721] SGSN_ID & "/" & SRN & "-" & SN & "-" & BP
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6XV3XA2AIRVH002I	S117474413	NUMBER	[M117440721] S117474413

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ND6WBG			
SAAN6XX3XA2AIRVH002I ND6WBG	S117474414	NUMBER	[M117440721] S117474414
SAAN6Y03XA2AIRVH002I ND6WBG	S117474415	NUMBER	[M117440721] S117474415
SAAN6Y23XA2AIRVH002I ND6WBG	S117474416	NUMBER	[M117440721] S117474416
SAAN6Y43XA2AIRVH002I ND6WBG	S117474417	NUMBER	[M117440721] S117474417
SAAN6Y63XA2AIRVH002I ND6WBG	S117474418	NUMBER	[M117440721] S117474418
SAAN6YB3XA2AIRVH002I ND6WBG	S117474419	NUMBER	[M117440721] S117474419
SAAN6YD3XA2AIRVH002I ND6WBG	S117474420	NUMBER	[M117440721] S117474420
SAAN6YF3XA2AIRVH002I ND6WBG	S117474421	NUMBER	[M117440721] S117474421

#### 7.34.4 HUA\_SGSN\_RESOURCE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_BOARD_ID		VARCHAR2(50)	[M117440626] SGSN_ID & "/" & SRN & "-" & SN & "-" & BP
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WXX3VG3VT2BKPTC6KB50H W55B2	S117462013	FLOAT	[M117440626] S117462013
XYACBN5KTHB54EWYHORS THPCP1	S117462014	FLOAT	[M117440626] S117462014
W0CSU0A2G0BYDUDKFGOC IHUFU3	S117462015	FLOAT	[M117440626] S117462015
VAFSCELBIDCX4CGPTYXD1 E5OKX	S117462016	NUMBER	[M117440626] S117462016
ST35NBTK4SBX1EX6P5HXFY	S117462017	NUMBER	[M117440626] S117462017

452H			
UIYTOCKVTNB63UJH5XVU4 J5OSO	S117462018	NUMBER	[M117440626] S117462018
TFYGOEP3GWBYOSQAOK CRW5WK1	S117462019	NUMBER	[M117440626] S117462019
WSYVJE3RJ0CHSS6I3HR5OQ R6LO	S117462020	FLOAT	[M117440626] S117462020

**7.34.5 HUA\_TCP\_IP\_TAB**

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_BOARD_ID		VARCHAR R2(50)	[M117440631] SGSN_ID & "/" & SRN & "-" & SN & "-" & BP
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WNTWNIVXHNB4HSVM3UK JOK3GKE	S117462513	NUMBER	[M117440631] S117462513
YAS4UIPG56CSYBTYD3SW15 IKDC	S117462514	NUMBER	[M117440631] S117462514
RNJT KCX1H2B4NSCYX2ILG M6GN5	S117462515	NUMBER	[M117440631] S117462515
WELAFCHCMTBW0BKNE141 2MTAFT	S117462516	NUMBER	[M117440631] S117462516
VD3GORC2UCBN2ECNJ3VJJ W1X3S	S117462517	NUMBER	[M117440631] S117462517
TMI2G0DATDCRQDXEQ5Q3 OM3IHI	S117462518	NUMBER	[M117440631] S117462518
YGOOWWW0EBCU2U6YKKH N1D4LGR	S117462519	NUMBER	[M117440631] S117462519
RSH4SEHNE5CC2RATAAF2G KQYAG	S117462520	NUMBER	[M117440631] S117462520

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XCLK4VS00YBMEROX6MUIJ1631D	S117462521	NUMBER	[M117440631] S117462521
U4MMLRKN5MB6NCHUW0K KCUFPIG	S117462522	NUMBER	[M117440631] S117462522
XLILOD1ABGBDLS1IPI33H4 OHHF	S117462523	NUMBER	[M117440631] S117462523
UPJ005I4PQBWDU512EU4QI6 FKU	S117462524	NUMBER	[M117440631] S117462524
T0Y01DDYVCC2PSHTBO3NM 4AQ5S	S117462525	NUMBER	[M117440631] S117462525
X5S5TIC5XWCJ3RNDJCE2WI G4F5	S117462526	NUMBER	[M117440631] S117462526
VNMJXRIA60BBPT1KDS1HT HENKA	S117462527	NUMBER	[M117440631] S117462527
W4WK2UHUD6CHPDTIO5OM PSY2H6	S117462528	NUMBER	[M117440631] S117462528
S6SR0512FABH6UP423I3M6J2 DN	S117462529	NUMBER	[M117440631] S117462529
RCF0SPLL6ABOHSADH4H5O JHDIK	S117462530	NUMBER	[M117440631] S117462530
XIA2J5CMUABBOTJ01GWFX UYV0U	S117462531	NUMBER	[M117440631] S117462531
Y3BRPVO2KYCNSLWJ0PS3 2IP4B	S117462532	NUMBER	[M117440631] S117462532
TPPQW6C4EJB2JS153RL1I3H OOP	S117462533	NUMBER	[M117440631] S117462533

## 7.35 Raw SGSN\_PLMN Tables

### 7.35.1 HUA\_M117440686\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_PLMN_ID		VARCHAR2(50)	[M117440686] SGSN_ID & "/" & MCC & MNC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

SAAN6SN3XA2AIRVH002I ND6WBG	S117470613	NUMBER	[M117440686] S117470613
SAAN6SP3XA2AIRVH002I ND6WBG	S117470614	NUMBER	[M117440686] S117470614
SAAN6SR3XA2AIRVH002I ND6WBG	S117470615	NUMBER	[M117440686] S117470615

### 7.35.2 HUA\_M117440687\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_PLMN_ID		VARCHAR2(50)	[M117440687] SGSN_ID & "/" & MCC & MNC
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6ST3XA2AIRVH002I ND6WBG	S117470713	NUMBER	[M117440687] S117470713
SAAN6SV3XA2AIRVH002I ND6WBG	S117470714	NUMBER	[M117440687] S117470714
SAAN6SX3XA2AIRVH002I ND6WBG	S117470715	NUMBER	[M117440687] S117470715

## 7.36 Raw SGSN\_VLAN Tables

### 7.36.1 HUA\_M117440675\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_VLAN_ID		VARCHAR2(50)	[M117440675] SGSN_ID & "/" & FN
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XWWNY42AHC3LR02I NCNMDW	S117468613	NUMBER	[M117440675] S117468613

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TL63XWYNY42AHC3LR02IN CNMDW	S117468614	NUMBER	[M117440675] S117468614
TL63XX1NY42AHC3LR02IN CNMDW	S117468615	NUMBER	[M117440675] S117468615
TL63XX3NY42AHC3LR02IN CNMDW	S117468616	NUMBER	[M117440675] S117468616

## 7.37 Raw System\_Resource Tables

### 7.37.1 HUA\_PROCESS\_RESOURCE\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SYSTEM_RESOURCE_ID		VARCHAR2(50)	[M117440617] SGSN_ID & "/" & PROC_ID & "-" & PROC_TYPE & "-" & SN & "-" & SRN
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6OX3XA2AIRVH002I ND6WBG	S117462021	FLOAT	[M117440617] S117462021
SAAN6P03XA2AIRVH002I ND6WBG	S117462022	FLOAT	[M117440617] S117462022
SAAN6P23XA2AIRVH002I ND6WBG	S117462023	FLOAT	[M117440617] S117462023
SAAN6P43XA2AIRVH002I ND6WBG	S117462024	NUMBER	[M117440617] S117462024
SAAN6P63XA2AIRVH002I ND6WBG	S117462025	NUMBER	[M117440617] S117462025
SAAN6PB3XA2AIRVH002I ND6WBG	S117462026	NUMBER	[M117440617] S117462026
SAAN6PD3XA2AIRVH002I ND6WBG	S117462027	NUMBER	[M117440617] S117462027
SAAN6PF3XA2AIRVH002I ND6WBG	S117462028	FLOAT	[M117440617] S117462028
SAAN6PH3XA2AIRVH002I ND6WBG	S117462029	FLOAT	[M117440617] S117462029

SAAN6PJ3XA2AIRVH002IN D6WBG	S117462030	FLOAT	[M117440617] S117462030
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## 7.38 Raw UPIU\_Port Tables

### 7.38.1 HUA\_M117440676\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
UPIU_PORT_ID		VARCHAR2(50)	[M117440676] SGSN_ID &"/"& SRN &"-"& SN &"-"& PORT
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TL63XX5NY42AHC3LR02IN CNMDW	S117469613	NUMBER	[M117440676] S117469613
TL63XXANY42AHC3LR02I NCNMDW	S117469614	NUMBER	[M117440676] S117469614
TL63XXCNY42AHC3LR02I NCNMDW	S117469615	NUMBER	[M117440676] S117469615
TL63XXENY42AHC3LR02I NCNMDW	S117469616	NUMBER	[M117440676] S117469616

### 7.38.2 HUA\_M117440720\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
UPIU_PORT_ID		VARCHAR2(50)	[M117440720] SGSN_ID &"/"& SRN &"-"& SN &"-"& PORT
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SAAN6XR3XA2AIRVH002I ND6WBG	S117474313	NUMBER	[M117440720] S117474313

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SAAN6XT3XA2AIRVH002I ND6WBG	S117474314	NUMBER	[M117440720] S117474314
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## 7.39 Raw VLR\_SGSN Tables

### 7.39.1 HUA\_BSSAP\_BAS\_TRAF\_VLR\_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
VLR_SGSN_ID		VARCHAR2(50)	[M117440690] SGSN_ID & "/" & VLR
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VRSHGRQWIH2AIR02R04U3BMV6J	S117470213	NUMBER	[M117440690] S117470213
VRSHGRSWIH2AIR02R04U3BMV6J	S117470214	NUMBER	[M117440690] S117470214
VRSHGRUWIH2AIR02R04U3BMV6J	S117470215	NUMBER	[M117440690] S117470215
VRSHGRWWIH2AIR02R04U3BMV6J	S117470216	NUMBER	[M117440690] S117470216
VRSHGRYWIH2AIR02R04U3BMV6J	S117470217	NUMBER	[M117440690] S117470217
VRSHGS1WIH2AIR02R04U3BMV6J	S117470218	NUMBER	[M117440690] S117470218
VRSHGS3WIH2AIR02R04U3BMV6J	S117470219	NUMBER	[M117440690] S117470219
VRSHGS5WIH2AIR02R04U3BMV6J	S117470220	NUMBER	[M117440690] S117470220
VRSHGSAWIH2AIR02R04U3BMV6J	S117470221	NUMBER	[M117440690] S117470221

## 8 Performance Alarms

This section shows details of the performance alarms that are defined in this technology pack module:  
None.

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## 9 Reports

This section shows details of the reports that are defined in this technology pack module.

All reports can be run as raw, daily, weekly or monthly reports.

Where a KPI is marked (DA), it means Data Availability is to be reported upon it.

### 9.1 BSSGP packets traffic report

This report shows the "BSSGP layer" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
BSSGP layer	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SGSN_BSSGP.BSSGP_data_pkts_sent_to_NS (DA), SGSN.Huawei.SGSN_BSSGP.BSSGP_data_pkts_rec_from_NS, SGSN.Huawei.SGSN_BSSGP.BSSGP_data_pkts_sent_to_LLC, SGSN.Huawei.SGSN_BSSGP.BSSGP_data_pkts_rec_from_LLC, SGSN.Huawei.SGSN_BSSGP.BSSGP_UL_data_pkts_dropped, SGSN.Huawei.SGSN_BSSGP.BSSGP_DL_data_pkts_dropped, SGSN.Huawei.SGSN_BSSGP.BSSGP_reset_PDU_s_sent_to_BSS, SGSN.Huawei.SGSN_BSSGP.BSSGP_reset_PDU_s_rec_from_BSS, SGSN.Huawei.SGSN_BSSGP.BSSGP_status_PDU_s_sent_to_BSS, SGSN.Huawei.SGSN_BSSGP.BSSGP_status_PDU_s_rec_from_BSS

### 9.2 CAMEL report

This report shows the "CAMEL" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
CAMEL	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.CAMEL.SGSN_init_TCAP_dialogues,

	SGSN.Huawei.CAMEL.SGSN_rec_TCAP_dialogues, SGSN.Huawei.CAMEL.Average_duration_of_per_TCAP_dialogues (DA), SGSN.Huawei.CAMEL.ApplyChargingReportGPRS_oper_sent, SGSN.Huawei.CAMEL.ApplyChargingGPRS_oper_rec, SGSN.Huawei.CAMEL.Total_operations_rec, SGSN.Huawei.CAMEL.Total_operations_sent, SGSN.Huawei.CAMEL.Invalid_operations_rec, SGSN.Huawei.CAMEL.InitialDPGPRS_oper_sent, SGSN.Huawei.CAMEL.ContinueGPRS_oper_rec
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### 9.3 CDRs overview report

This report shows the "CDRs generated" performance

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
CDRs generated	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SGSN_CDR.S_CDRs_generated (DA), SGSN.Huawei.SGSN_CDR._%_S_CDRs_generated_fail, SGSN.Huawei.SGSN_CDR.M_CDRs_generated, SGSN.Huawei.SGSN_CDR._%_M_CDRs_generated_fail, SGSN.Huawei.SGSN_CDR.S_SMO_CDRs_generated, SGSN.Huawei.SGSN_CDR._%_S_SMO_CDRs_generated_fail, SGSN.Huawei.SGSN_CDR.S_SMT_CDRs_generated, SGSN.Huawei.SGSN_CDR._%_S_SMT_CDRs_generated_fail, SGSN.Huawei.SGSN_CDR.LCS_MO_CDRs_generated, SGSN.Huawei.SGSN_CDR._%_LCS_MO_CDRs_generated_fail, SGSN.Huawei.SGSN_CDR.LCS_MT_CDRs_generated, SGSN.Huawei.SGSN_CDR._%_LCS_MT_CDRs_generated_fail, SGSN.Huawei.SGSN_CDR.LCS_NI_CDRs_generated, SGSN.Huawei.SGSN_CDR._%_LCS_NI_CDRs_generated_fail

### 9.4 CPU and memory utilisation graph

This graph shows the "Board CPU utilisation" performance for a selected "SGSN Board". The display consists of three graphs for the selected day.

Report Feature	Details
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Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN_Board
Primary Object	SGSN_Board
CPU occupation	SGSN_Board.Huawei.SGSN_Resource.Avg_CPU_occupation_ratio
Congestion and overload duration	SGSN_Board.Huawei.SGSN_Resource.CPU_overload_duration, SGSN_Board.Huawei.SGSN_Resource.CPU_congestion_duration
Message cache & dynamic memory utilisation	SGSN_Board.Huawei.SGSN_Resource.Avg_message_cache_area_util_ratio, SGSN_Board.Huawei.SGSN_Resource.Avg_dynamic_memory_util_ratio

## 9.5 CPU and memory utilisation report

This report shows the "Board CPU utilisation" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN_Board
Primary Object	SGSN_Board
Board CPU utilisation	SGSN_Board.SGSN_Board_Id, SGSN_Board.SGSN_Id, SGSN_Board.Huawei.SGSN_Resource.Avg_CPU_occupation_ratio (DA), SGSN_Board.Huawei.SGSN_Resource.Avg_message_cache_area_util_ratio, SGSN_Board.Huawei.SGSN_Resource.Avg_dynamic_memory_util_ratio, SGSN_Board.Huawei.SGSN_Resource.CPU_overload_times, SGSN_Board.Huawei.SGSN_Resource.CPU_overload_duration, SGSN_Board.Huawei.SGSN_Resource.CPU_congestion_times, SGSN_Board.Huawei.SGSN_Resource.CPU_congestion_duration

## 9.6 FR packets traffic report

This report shows the "FR layer" performance

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
FR layer	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SGSN_FR.FR_DL_data_pkts_sent (DA), SGSN.Huawei.SGSN_FR.FR_DL_data_pkts_dropped, SGSN.Huawei.SGSN_FR.FR_pkts_DL_resent,

	SGSN.Huawei.SGSN_FR.FR_pkts_dropped_by_FR_when_resent, SGSN.Huawei.SGSN_FR.FR_correct_UL_data_pkts_rec, SGSN.Huawei.SGSN_FR.FR_error_UL_data_pkts_rec, SGSN.Huawei.SGSN_FR.FR_correct_UL_signalling_pkts_rec, SGSN.Huawei.SGSN_FR.FR_error_UL_signalling_pkts_rec
--	---

## 9.7 Gb paging, attach and detach report

This report shows the "Routing Area for Gb link" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.Routing_Area
Primary Object	Routing_Area
Routing Area for Gb link	Routing_Area.Routing_Area_Id, Routing_Area.SGSN_Id, Routing_Area.LAC_Id, Routing_Area.Huawei.Gb_Mode_Radio_Resource_with_RAI.Attached_user (DA), Routing_Area.Huawei.Gb_Mode_Radio_Resource_with_RAI.Attached_Max_user, Routing_Area.Huawei.Gb_Mode_Paging_with_RAI.Pkt_paging_request, Routing_Area.Huawei.Gb_Mode_Paging_with_RAI.Pkt_paging_fail, Routing_Area.Huawei.Gb_Mode_Attach_with_RAI.GPRS_attach_request, Routing_Area.Huawei.Gb_Mode_Attach_with_RAI._%_GPRS_attach_accept, Routing_Area.Huawei.Gb_Mode_Attach_with_RAI.Com_attach_request, Routing_Area.Huawei.Gb_Mode_Attach_with_RAI._%_Com_attach_accept, Routing_Area.Huawei.Gb_Mode_Attach_with_RAI.GPRS_attach_request_while_IMSI_attached, Routing_Area.Huawei.Gb_Mode_Attach_with_RAI.GPRS_attach_acc_while_IMSI_attached, Routing_Area.Huawei.Gb_Mode_Detach_with_RAI.SGSN_init_detach_request, Routing_Area.Huawei.Gb_Mode_Detach_with_RAI.Successful_of_SGSN_init_detach, Routing_Area.Huawei.Gb_Mode_Detach_with_RAI.MS_init_combined_detach_request

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## 9.8 Gb PDP activation and deactivation MVNO report

This report shows the "Network Virtual Operators for Gb mode" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.MVNO
Primary Object	MVNO
Network Virtual Operators for Gb mode	MVNO.MVNO_Name, MVNO.MVNO_Type, MVNO.MVNO_Id, MVNO.Huawei.Gb_Mode_Radio_Resource_with_MVNO.Attached_users (DA), MVNO.Huawei.Gb_Mode_Attach_with_MVNO.GPRS_attach_request, MVNO.Huawei.Gb_Mode_Attach_with_MVNO.GPRS_attach_accept, MVNO.Huawei.Gb_Mode_Attach_with_MVNO._%_GPRS_attach_accept, MVNO.Huawei.Gb_Mode_Attach_with_MVNO.Combined_attach_request, MVNO.Huawei.Gb_Mode_Attach_with_MVNO.Combined_attach_accept, MVNO.Huawei.Gb_Mode_Attach_with_MVNO._%_Combined_attach_accept, MVNO.Huawei.Gb_Mode_PDP_Context_Activation_with_MVNO.MS_init_PDP_context_act, MVNO.Huawei.Gb_Mode_PDP_Context_Activation_with_MVNO.MS_init_PDP_context_act_success, MVNO.Huawei.Gb_Mode_PDP_Context_Activation_with_MVNO.MS_init_PDP_context_act_reject, MVNO.Huawei.Gb_Mode_SM_Resource_with_MVNO.Activated_PDP, MVNO.Huawei.Gb_Mode_SM_Resource_with_MVNO.Avg_act_PDP_Sessions_interactive, MVNO.Huawei.Gb_Mode_SM_Resource_with_MVNO.Avg_act_PDP_Sessions_conversation, MVNO.Huawei.Gb_Mode_SM_Resource_with_MVNO.Avg_act_PDP_Sessions_streaming, MVNO.Huawei.Gb_Mode_SM_Resource_with_MVNO.Avg_act_PDP_Sessions_background

## 9.9 Gb PDP activation and deactivation report

This report shows the "PDP context for Gb link" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN

Primary Object	SGSN
PDP context for Gb link	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.MS_init_PDP_context_act (DA), SGSN.Huawei.Gb_Mode_PDP_Context_Activation.MS_init_PDP_context_act_success, SGSN.Huawei.Gb_Mode_PDP_Context_Activation._ %_MS_init_PDP_context_act_success, SGSN.Huawei.Gb_Mode_PDP_Context_Deactivation.MS_init_PDP_context_deact, SGSN.Huawei.Gb_Mode_PDP_Context_Deactivation.MS_init_PDP_context_deact_success, SGSN.Huawei.Gb_Mode_PDP_Context_Deactivation._ %_MS_init_PDP_context_deact_success, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.Network_init_PDP_context_act, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.Network_init_PDP_context_act_suc, SGSN.Huawei.Gb_Mode_PDP_Context_Activation._ %_Network_init_PDP_context_act_suc, SGSN.Huawei.Gb_Mode_PDP_Context_Deactivation._ %_GGSN_init_PDP_context_deact_success, SGSN.Huawei.Gb_Mode_PDP_Context_Deactivation.SGSN_init_PDP_context_deact, SGSN.Huawei.Gb_Mode_PDP_Context_Deactivation.SGSN_init_PDP_context_deact_success, SGSN.Huawei.Gb_Mode_PDP_Context_Deactivation._ %_SGSN_init_PDP_context_deact_success, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.MS_init_PDP_act_with_dynamic_addr, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.MS_init_PDP_act_suc_with_dynamic_addr, SGSN.Huawei.Gb_Mode_PDP_Context_Activation._ %_MS_init_PDP_act_suc_with_dynamic_addr, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.PDP_context_reject, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.Foreign_subs_act_PDP_context_req, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.Foreign_subs_act_PDP_context_acc, SGSN.Huawei.Gb_Mode_PDP_Context_Activation.Foreign_subs_act

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\_PDP\_context\_reject

## 9.10 Gb traffic throughput graph

This graph shows the traffic throughput performance for a selected "BSS NSE". The display consists of three graphs for the selected day.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.BSS_NSE
Primary Object	BSS_NSE
Gb Processed	BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Mean_Throughput, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Peak_Throughput
Gb Received	BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Mean_rec_Throughput, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Peak_rec_Throughput
Gb Sent	BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Mean_sent_Throughput, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Peak_sent_Throughput

## 9.11 Gb traffic throughput report

This report shows the "Gb traffic with BSS NSE" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.BSS_NSE
Primary Object	BSS_NSE
Gb traffic	BSS_NSE.BSS_NSE_Id, BSS_NSE.SGSN_Id, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_sent_kbytes, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Mean_sent_Throughput, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Peak_sent_Throughput, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_rec_kbytes, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Mean_rec_Throughput, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Peak_rec_Throughput

	oughput, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_operated_kbytes , BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Mean_Through put, BSS_NSE.Huawei.Gb_Traffic_with_BSS.SGSN_Gb_Peak_Through ut
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## 9.12 Gn PDP context activation graph

This graph shows the "Gn mode PDP context activation" performance for a selected "SGSN". The display consists of three graphs for the selected day.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
MS init PDP	SGSN.Huawei.Gb_Mode_PDP_Context_Activation.MS_init_PDP_co ntext_act, SGSN.Huawei.Gb_Mode_PDP_Context_Activation._ %_MS_init_PDP_context_act_success
Network init PDP	SGSN.Huawei.Gb_Mode_PDP_Context_Activation.Network_init_PD P_context_act, SGSN.Huawei.Gb_Mode_PDP_Context_Activation._ %_Network_init_PDP_context_act_suc
PDP rejected	SGSN.Huawei.Gb_Mode_PDP_Context_Activation.PDP_context_rej ect

## 9.13 Gn traffic per QoS class report

This report shows the "QoS class for the Gn link" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
QoS class for the Gn link	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.GTPU_Gn_Interface.GTPU_pkts_rec_by_SGSN_on_ Gn (DA), SGSN.Huawei.GTPU_Gn_Interface.GTPU_pkts_discarded_by_SGS

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	N_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.Pkts_of_DL_conv_class_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.Pkts_of_DL_streaming_class_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.Pkts_of_DL_interactive_class_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.Pkts_of_DL_background_class_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.Pkts_of_UL_conv_class_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.Pkts_of_UL_streaming_class_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.Pkts_of_UL_interactive_class_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.Pkts_of_UL_background_class_on_Gn, SGSN.Huawei.GTPU_Gn_Interface.QoS1_pkts_dropped_due_queue_overflow_Gn, SGSN.Huawei.GTPU_Gn_Interface.QoS2_pkts_dropped_due_queue_overflow_Gn, SGSN.Huawei.GTPU_Gn_Interface.QoS3_pkts_dropped_due_queue_overflow_Gn, SGSN.Huawei.GTPU_Gn_Interface.QoS4_pkts_dropped_due_queue_overflow_Gn
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## 9.14 Gp traffic per QoS class report

This report shows the "QoS class for the Gp link" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
QoS class for the Gp link	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.GTPU_Gp_Interface.GTPU_pkts_rec_by_SGSN_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.GTPU_pkts_discarded_by_SGSN_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.Pkts_of_DL_conv_class_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.Pkts_of_DL_streaming_class_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.Pkts_of_DL_interactive_class_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.Pkts_of_DL_background_class_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.Pkts_of_UL_conv_class_on_Gp,

	SGSN.Huawei.GTPU_Gp_Interface.Pkts_of_UL_streaming_class_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.Pkts_of_UL_interactive_class_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.Pkts_of_UL_background_class_on_Gp, SGSN.Huawei.GTPU_Gp_Interface.QoS1_pkts_dropped_due_queue_overflow_Gp, SGSN.Huawei.GTPU_Gp_Interface.QoS2_pkts_dropped_due_queue_overflow_Gp, SGSN.Huawei.GTPU_Gp_Interface.QoS3_pkts_dropped_due_queue_overflow_Gp, SGSN.Huawei.GTPU_Gp_Interface.QoS4_pkts_dropped_due_queue_overflow_Gp
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### 9.15 GTP-C messages and data traffic graph

This graph shows the GTP-C performance for a selected "SGSN". The display consists of three graphs for the selected day.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
GTP-C Message packets	SGSN.Huawei.GTP_Message_Processing.GTP_C_Message_pkts_rec, SGSN.Huawei.GTP_Message_Processing.GTP_C_Message_pkts_sent
GTP-C data packets	SGSN.Huawei.GTP_Message_Processing.GTP_C_data_pkts_rec, SGSN.Huawei.GTP_Message_Processing.GTP_C_data_pkts_sent
Session messages packets	SGSN.Huawei.GTP_Message_Processing.Session_msg_pkts_rec, SGSN.Huawei.GTP_Message_Processing.Session_msg_pkts_sent

### 9.16 GTP-C messages and data traffic report

This report shows the "GTP traffic" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN

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Primary Object	SGSN
GTP traffic	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.GTP_Message_Processing.GTP_C_Message_pkts_rec (DA), SGSN.Huawei.GTP_Message_Processing.GTP_C_Message_pkts_sen t, SGSN.Huawei.GTP_Message_Processing.GTP_C_data_pkts_rec, SGSN.Huawei.GTP_Message_Processing.GTP_C_data_pkts_sent, SGSN.Huawei.GTP_Message_Processing.Mobile_management_msg_ pkts_rec, SGSN.Huawei.GTP_Message_Processing.Mobile_management_msg_ pkts_sent, SGSN.Huawei.GTP_Message_Processing.Location_management_ms g_pkts_rec, SGSN.Huawei.GTP_Message_Processing.Location_management_ms g_pkts_sent, SGSN.Huawei.GTP_Message_Processing.Path_management_msg_pk ts_rec, SGSN.Huawei.GTP_Message_Processing.Path_management_msg_pk ts_sent, SGSN.Huawei.GTP_Message_Processing.GTP_SGSN_Context_requ ests_rec, SGSN.Huawei.GTP_Message_Processing.GTP_SGSN_Context_Requ ests_sent, SGSN.Huawei.GTP_Message_Processing.GTP_SGSN_Context_Resp onses_rec, SGSN.Huawei.GTP_Message_Processing.GTP_SGSN_Context_Resp onses_sent, SGSN.Huawei.GTP_Message_Processing.GTP_SGSN_Context_Ackn owledges_rec, SGSN.Huawei.GTP_Message_Processing.GTP_SGSN_Context_Ackn owledges_sent

## 9.17 GTP IP V4 traffic report

This report shows the "Traffic with specific Gn IP V4" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
Traffic with specific Gn IP V4	SGSN.SGSN_Id, SGSN.SGSN_Name, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_ Mean_sent_Throughput (DA), GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_ 

	Mean_rec_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_sent_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_rec_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_sent_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_rec_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_sent_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_rec_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_pkts
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## 9.18 GTP IP V4 traffic throughput graph

This graph shows the "IP V4 traffic" performance for a selected "GnGp IP V4". The display consists of three graphs for the selected day.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.GnGp_IPV4
Primary Object	GnGp_IPV4
GTP Sent	GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_sent_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_sent_Throughput
GTP operated	GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_Throughput

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GTP received	GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_rec_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_rec_Throughput
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## 9.19 GTP IP V6 traffic report

This report shows the "Traffic with specific Gn IP V6" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
Traffic with specific Gn IP V6	SGSN.SGSN_Id, SGSN.SGSN_Name, GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Mean_sent_Throughput_IPV6 (DA), GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Mean_rec_Throughput_IPV6, GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Mean_Throughput_IPV6, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_sent_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_rec_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_Throughput, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_sent_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_rec_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Mean_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_sent_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_rec_pkts, GnGp_IPV4.Huawei.Gn_Traffic_with_Specific_Gn_IP.SGSN_GTP_Peak_pkts

## 9.20 GTP IP V6 traffic throughput graph

This graph shows the "IP V6 traffic" performance for a selected "GnGp IP V6". The display consists of three graphs for the selected day.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.GnGp_IPV6
Primary Object	GnGp_IPV6
GTP Sent	GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Mean_sent_Throughput_IPV6, GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Peak_sent_Throughput_IPV6
GTP operated	GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Mean_Throughput_IPV6, GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Peak_Throughput_IPV6
GTP received	GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Mean_rec_Throughput_IPV6, GnGp_IPV6.Huawei.Gn_Traffic_with_Specific_Gn_IPV6.SGSN_GTP_Peak_rec_Throughput_IPV6

## 9.21 GTP-U Bearer packets traffic report

This report shows the "GTP-U Bearer" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
GTP-U Bearer	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.GTPU_Bearer.Pkts_rec (DA), SGSN.Huawei.GTPU_Bearer.Pkts_sent, SGSN.Huawei.GTPU_Bearer.DL_pkts_discarded, SGSN.Huawei.GTPU_Bearer.UL_pkts_discarded, SGSN.Huawei.GTPU_Bearer.IP_pkts_rec, SGSN.Huawei.GTPU_Bearer.GTP_pkts_rec_from_GGSN, SGSN.Huawei.GTPU_Bearer.GTP_pkts_sent_to_GGSN, SGSN.Huawei.GTPU_Bearer.UL_data_kbytes_rec_from_SNDP, SGSN.Huawei.GTPU_Bearer.DL_data_pkts_sent_to_SNDP, SGSN.Huawei.GTPU_Bearer.UL_data_kbytes_rec_from_RNC, SGSN.Huawei.GTPU_Bearer.DL_data_pkts_sent_to_RNC, SGSN.Huawei.GTPU_Bearer.SNDP_pkts_GTP_rec_from_SNDP,

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## 9.22 lu paging, attach and detach report

This report shows the "Routing Area for IU link" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.Routing_Area
Primary Object	Routing_Area
Routing Area for IU link	Routing_Area.Routing_Area_Id, Routing_Area.SGSN_Id, Routing_Area.LAC_Id, Routing_Area.Huawei.Iu_Mode_Radio_Resource_with_RAI.Attached_user (DA), Routing_Area.Huawei.Iu_Mode_Radio_Resource_with_RAI.Attached_Max_user, Routing_Area.Huawei.Iu_Mode_Paging_with_RAI.Pkt_paging_request, Routing_Area.Huawei.Iu_Mode_Paging_with_RAI.Pkt_paging_fail, Routing_Area.Huawei.Iu_Mode_Attach_with_RAI.GPRS_attach_request, Routing_Area.Huawei.Iu_Mode_Attach_with_RAI._%_GPRS_attach_success, Routing_Area.Huawei.Iu_Mode_Attach_with_RAI.Com_attach_request, Routing_Area.Huawei.Iu_Mode_Attach_with_RAI._%_Com_attach_accept, Routing_Area.Huawei.Iu_Mode_Attach_with_RAI.GPRS_attach_after_IMSI_att_request, Routing_Area.Huawei.Iu_Mode_Attach_with_RAI.GPRS_attach_success_after_IMSI_att, Routing_Area.Huawei.Iu_Mode_Detach_with_RAI.SGSN_init_detach_request, Routing_Area.Huawei.Iu_Mode_Detach_with_RAI.SGSN_init_detach_success, Routing_Area.Huawei.Iu_Mode_Detach_with_RAI.MS_init_com_detach_request

## 9.23 lu PDP activation and deactivation MVNO report

This report shows the "Network Virtual Operators for Iu mode" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.MVNO
Primary Object	MVNO

Network Virtual Operators for Iu mode	MVNO.MVNO_Name, MVNO.MVNO_Type, MVNO.MVNO_Id, MVNO.Huawei.Iu_Mode_Radio_Resource_with_MVNO.Attached_u sers (DA), MVNO.Huawei.Iu_Mode_Attach_with_MVNO.GPRS_attach_request , MVNO.Huawei.Iu_Mode_Attach_with_MVNO.GPRS_attach_accept, MVNO.Huawei.Iu_Mode_Attach_with_MVNO._ %_GPRS_attach_accept, MVNO.Huawei.Iu_Mode_Attach_with_MVNO.Combined_attach_req uest, MVNO.Huawei.Iu_Mode_Attach_with_MVNO.Combined_attach_ac cept, MVNO.Huawei.Iu_Mode_Attach_with_MVNO._ %_Combined_attach_accept, MVNO.Huawei.Iu_Mode_PDP_Context_Activation_with_MVNO.M S_init_PDP_context_act, MVNO.Huawei.Iu_Mode_PDP_Context_Activation_with_MVNO.M S_init_PDP_context_act_success, MVNO.Huawei.Iu_Mode_PDP_Context_Activation_with_MVNO.M S_init_PDP_context_act_reject, MVNO.Huawei.Iu_Mode_SM_Resource_with_MVNO.Activated_PD P, MVNO.Huawei.Iu_Mode_SM_Resource_with_MVNO.Avg_act_PDP _Sessions_interactive, MVNO.Huawei.Iu_Mode_SM_Resource_with_MVNO.Avg_act_PDP _Sessions_conversation, MVNO.Huawei.Iu_Mode_SM_Resource_with_MVNO.Avg_act_PDP _Sessions_streaming, MVNO.Huawei.Iu_Mode_SM_Resource_with_MVNO.Avg_act_PDP _Sessions_background
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## 9.24 Iu PDP context activation graph

This graph shows the "Iu mode PDP context activation" performance for a selected "SGSN". The display consists of three graphs for the selected day.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
MS init PDP	SGSN.Huawei.Iu_Mode_PDP_Context_Activation.MS_init_PDP_con

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	text_act, SGSN.Huawei.Iu_Mode_PDP_Context_Activation._ %_MS_init_PDP_context_act_suc
Network init PDP	SGSN.Huawei.Iu_Mode_PDP_Context_Activation.Network_init_PD P_context_act, SGSN.Huawei.Iu_Mode_PDP_Context_Activation._ %_Network_init_PDP_context_act_suc
PDP rejected	SGSN.Huawei.Iu_Mode_PDP_Context_Activation.MS_init_PDP_con text_act_reject, SGSN.Huawei.Iu_Mode_PDP_Context_Activation.PDP_context_sec_ act_reject

## 9.25 LCS report

This report shows the "Location Service" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
Location Service	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.LCS.MS_init_loc_srvc_request (DA), SGSN.Huawei.LCS.MS_init_loc_srvc_success, SGSN.Huawei.LCS._ %_MS_init_loc_srvc_success, SGSN.Huawei.LCS.MS_terminated_loc_srvc_request, SGSN.Huawei.LCS.MS_terminated_loc_srvc_success, SGSN.Huawei.LCS._%_MS_terminated_loc_srvc_success, SGSN.Huawei.LCS.Network_init_loc_srvc_request, SGSN.Huawei.LCS.Network_init_loc_srvc_success, SGSN.Huawei.LCS._%_Network_init_loc_srvc_success, SGSN.Huawei.LCS.LCS_LDR_request, SGSN.Huawei.LCS.LCS_LDR_permit, SGSN.Huawei.LCS.LCS_LDR_succeed, SGSN.Huawei.LCS.LCS_LDR_fail_normal, SGSN.Huawei.LCS.LCS_LDR_fail_not_normal

## 9.26 LLC traffic report

This report shows the "LLC traffic" performance

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN

LLC traffic	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SGSN_LLC.LLC_data_pkts_sent_to_BSSGP (DA), SGSN.Huawei.SGSN_LLC.LLC_data_pkts_rec_from_BSSGP, SGSN.Huawei.SGSN_LLC.LLC_signalling_pkts_sent_to_BSSGP, SGSN.Huawei.SGSN_LLC.LLC_signalling_pkts_rec_from_BSSGP, SGSN.Huawei.SGSN_LLC.LLC_data_pkts_sent_to_SNDGP, SGSN.Huawei.SGSN_LLC.LLC_data_pkts_rec_from_SNDGP, SGSN.Huawei.SGSN_LLC.LLC_signalling_pkts_sent_to_SNDGP, SGSN.Huawei.SGSN_LLC.LLC_signalling_pkts_rec_from_L3MM, SGSN.Huawei.SGSN_LLC.LLC_DL_TOM_protocol_env_rec, SGSN.Huawei.SGSN_LLC.LLC_DL_TOM_protocol_env_sent
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## 9.27 M3UA link traffic report

This report shows the "M3UA Link" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.M3UA_link
Primary Object	M3UA_Link
M3UA Link	M3UA_Link.M3UA_Link_Id, M3UA_Link.M3UA_LinkSet_Id, M3UA_Link.Node_Id, M3UA_Link.Huawei.M3UA_link.Fault_times (DA), M3UA_Link.Huawei.M3UA_link.Unavailable_times, M3UA_Link.Huawei.M3UA_link.Congestion_times, M3UA_Link.Huawei.M3UA_link.Durations_of_unavailable, M3UA_Link.Huawei.M3UA_link.Durations_of_congestion, M3UA_Link.Huawei.M3UA_link.Msg_sent, M3UA_Link.Huawei.M3UA_link.Msg_rec, M3UA_Link.Huawei.M3UA_link.Octets_sent, M3UA_Link.Huawei.M3UA_link.Octets_rec

## 9.28 MBMS Broadcast Session report

MBMS Broadcast Session

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN

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MBMS Broadcast report	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.MBMS_Broadcast_Bearer_Resource.Average_Number_of_MBMS_Broadcast_Bearer_Contexts (DA), SGSN.Huawei.MBMS_Broadcast_Bearer_Resource.Realtime_Number_of_MBMS_Broadcast_Bearer_Contexts, SGSN.Huawei.MBMS_Broadcast_Bearer_Resource.Max_Number_of_MBMS_Broadcast_Bearer_Contexts, SGSN.Huawei.MBMS_Broadcast_Session_Start.Receive_Gn_MBMS_Session_Start_Request (DA), SGSN.Huawei.MBMS_Broadcast_Session_Start.Send_Gn_MBMS_Session_Start_Response_Accept, SGSN.Huawei.MBMS_Broadcast_Session_Start.Send_Gn_MBMS_Session_Start_Response_Reject, SGSN.Huawei.MBMS_Broadcast_Session_Stop.Receive_Gn_MBMS_Session_Stop_Request (DA), SGSN.Huawei.MBMS_Broadcast_Session_Stop.Send_Gn_MBMS_Session_Stop_Response_Accept, SGSN.Huawei.MBMS_Broadcast_Session_Stop.Send_Gn_MBMS_Session_Stop_Response_Reject
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## 9.29 Messages and packets traffic graph

This graph shows the traffic packets and BLOCK/UNBLOCK messages for a selected "NSVC". The display consists of three graphs for the selected day.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.NSVC
Primary Object	NSVC
BLOCK messages sent and received	NSVC.Huawei.NS_with_Specific_NSVC.NS_block_msg, NSVC.Huawei.NS_with_Specific_NSVC.NS_block_ack_msg
DL and UL Data packets from/to FR	NSVC.Huawei.NS_with_Specific_NSVC.DL_and_UL_pkts, NSVC.Huawei.NS_with_Specific_NSVC.DL_and_UL_pkts_discarded
UNBLOCK messages sent and received	NSVC.Huawei.NS_with_Specific_NSVC.NS_unblock_msg, NSVC.Huawei.NS_with_Specific_NSVC.NS_unblock_ack_msg

## 9.30 MM resource report

This report shows the number of attached users in SGSN

Report Feature	Details
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Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
Gb Mode Attached Users	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.Gb_Mode_Radio_Resource.Gb_mode_average_attached_users, SGSN.Huawei.Gb_Mode_Radio_Resource.Gb_mode_max_attached_users, SGSN.Huawei.Gb_Mode_Radio_Resource.Avg_Att_user_homePLMN, SGSN.Huawei.Gb_Mode_Radio_Resource.Max_Att_user_homePLMN, SGSN.Huawei.Gb_Mode_Radio_Resource.Avg_Att_user_connectPLMN, SGSN.Huawei.Gb_Mode_Radio_Resource.Max_Att_user_connectPLMN, SGSN.Huawei.Gb_Mode_Radio_Resource.Realtime_users_at_READY_status
Iu Mode Attached Users	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.Iu_Mode_Radio_Resource.Avg_attached_users, SGSN.Huawei.Iu_Mode_Radio_Resource.Max_attached_users, SGSN.Huawei.Iu_Mode_Radio_Resource.Avg_Attd_users_of_home_PLMN, SGSN.Huawei.Iu_Mode_Radio_Resource.Max_Attd_users_of_home_PLMN, SGSN.Huawei.Iu_Mode_Radio_Resource.Avg_Attd_user_of_connectPLMN, SGSN.Huawei.Iu_Mode_Radio_Resource.Max_Attd_user_of_connectPLMN, SGSN.Huawei.Iu_Mode_Radio_Resource.Avg_users_at_PMM_CONNECTED_status

### 9.31 MTP3B link traffic report

This report shows the "MTP3B Link" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.MTP3B_link
Primary Object	MTP3B_Link

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MTP3B Link	MTP3B_Link.MTP3B_Link_Id, MTP3B_Link.MTP3B_LinkSet_Id, MTP3B_Link.Node_Id, MTP3B_Link.Huawei.MTP3B_Link.Durations_of_in_service (DA), MTP3B_Link.Huawei.MTP3B_Link.MTP3B_MSU_sent, MTP3B_Link.Huawei.MTP3B_Link.MTP3B_MSU_rec, MTP3B_Link.Huawei.MTP3B_Link.MTP3B_SIF_and_SIO_OCTET S_sent, MTP3B_Link.Huawei.MTP3B_Link.MTP3B_SIF_and_SIO_OCTET S_rec, MTP3B_Link.Huawei.MTP3B_Link.Fault_times, MTP3B_Link.Huawei.MTP3B_Link.Durations_of_fault, MTP3B_Link.Huawei.MTP3B_Link.Local_LIN_times, MTP3B_Link.Huawei.MTP3B_Link.Durations_of_local_LIN, MTP3B_Link.Huawei.MTP3B_Link.Remote_LIN_times, MTP3B_Link.Huawei.MTP3B_Link.Durations_of_remote_LIN, MTP3B_Link.Huawei.MTP3B_Link.Changeover_times, MTP3B_Link.Huawei.MTP3B_Link.Congestion_times, MTP3B_Link.Huawei.MTP3B_Link.Durations_of_congestion, MTP3B_Link.Huawei.MTP3B_Link.Sending_occupation_percentage, MTP3B_Link.Huawei.MTP3B_Link.Receiving_occupation_percentag e
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## 9.32 MTP3 linkset traffic report

MTP3 linkset traffic report

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.MTP3_linkSet
Primary Object	MTP3_LinkSet
MTP3 linkset traffic report	MTP3_LinkSet.MTP3_LinkSet_Id, MTP3_LinkSet.MTP3_LinkPoint_Id, MTP3_LinkPoint.Node_Id, MTP3_LinkSet.Huawei.MTP3_link_set.Fault_times, MTP3_LinkSet.Huawei.MTP3_link_set.Durations_of_fault (DA), MTP3_LinkSet.Huawei.MTP3_link_set.MTP3_link_set_send_load_er l, MTP3_LinkSet.Huawei.MTP3_link_set.MTP3_link_set_receive_load _erl, MTP3_LinkSet.Huawei.MTP3_link_set.MTP3_MSU_sent, MTP3_LinkSet.Huawei.MTP3_link_set.MTP3_MSU_received, MTP3_LinkSet.Huawei.MTP3_link_set.MTP3_SIF_and_SIO_OCTE TS_sent

## 9.33 MTP3 link traffic report

This report shows the "MTP3 Link" performance

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.MTP3_link
Primary Object	MTP3_Link
MTP3 Link	MTP3_Link.Huawei.MTP3_link.MTP3_rec_TFP, MTP3_Link.MTP3_Link_Id, MTP3_Link.MTP3_LinkSet_Id, MTP3_Link.Node_Id, MTP3_Link.Huawei.MTP3_link.Send_load_eri (DA), MTP3_Link.Huawei.MTP3_link.Receive_load_eri, MTP3_Link.Huawei.MTP3_link.MTP3_MSU_sent, MTP3_Link.Huawei.MTP3_link.MTP3_MSU_rec, MTP3_Link.Huawei.MTP3_link.MTP3_SIF_and_SIO_Octets_sent, MTP3_Link.Huawei.MTP3_link.MTP3_SIF_and_SIO_Octets_rec, MTP3_Link.Huawei.MTP3_link.Fault_times, MTP3_Link.Huawei.MTP3_link.Durations_of_in_service, MTP3_Link.Huawei.MTP3_link.Durations_of_unavailable, MTP3_Link.Huawei.MTP3_link.Duration_of_fault, MTP3_Link.Huawei.MTP3_link.Number_of_congestion, MTP3_Link.Huawei.MTP3_link.Durations_of_congestion, MTP3_Link.Huawei.MTP3_link.Durations_of_local_LIN, MTP3_Link.Huawei.MTP3_link.Remote_LIN_times, MTP3_Link.Huawei.MTP3_link.Durations_of_remote_LIN, MTP3_Link.Huawei.MTP3_link.Remote_processor_fault_times, MTP3_Link.Huawei.MTP3_link.Durations_of_remote_processor_fault, MTP3_Link.Huawei.MTP3_link.Local_auto_changeover_times, MTP3_Link.Huawei.MTP3_link.MSU_discarded_for_congestion

### 9.34 RANAP report

This report shows the "RANAP" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
RANAP report	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.RANAP.Iu_connection_setup_request (DA), SGSN.Huawei.RANAP.Iu_connection_setup_success, SGSN.Huawei.RANAP.CN_init_Iu_interface_reset, SGSN.Huawei.RANAP.CN_init_traffic_control,

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	SGSN.Huawei.RANAP.RNC_init_Iu_interface_reset, SGSN.Huawei.RANAP.RNC_init_traffic_control, SGSN.Huawei.RANAP.Success_Reset_Acknowledge_rec, SGSN.Huawei.RANAP.Success_Reset_Acknowledge_sent, SGSN.Huawei.RANAP.Init_UE_Message_rec, SGSN.Huawei.RANAP.Release_Requests_rec, SGSN.Huawei.RANAP.Release_Command_sent_success, SGSN.Huawei.RANAP.Release_Complete_rec, SGSN.Huawei.RANAP.Relocation_Required_msg_rec, SGSN.Huawei.RANAP.Relocation_Request_msg_sent_success, SGSN.Huawei.RANAP.Relocation_Request_ACKs_rec
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### 9.35 SCCP availability and performance report

This report shows the "SCCP availability and utilisation" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
SCCP availability and utilisation	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SCCP_Availability.Duration_of_local_SCCP_unavail (DA), SGSN.Huawei.SCCP_Availability.Stop_times_of_local_SCCP_unavail, SGSN.Huawei.SCCP_Utilization.Sent_UDTS_message, SGSN.Huawei.SCCP_Utilization.Rec_UDTS_message, SGSN.Huawei.SCCP_Utilization.Total_msg_intended_for_local_subsys, SGSN.Huawei.SCCP_Utilization.Msg_need_global_title_translation, SGSN.Huawei.SCCP_Utilization.Total_msg_handled_by_subsys, SGSN.Huawei.SCCP_Performance.Routing_fail_no_transl_for_addr, SGSN.Huawei.SCCP_Performance.Routing_fail_no_matching_for_addr, SGSN.Huawei.SCCP_Performance.Routing_fail_network_fail, SGSN.Huawei.SCCP_Performance.Routing_fail_network_congestion, SGSN.Huawei.SCCP_Performance.Routing_fail_subsystem_fail, SGSN.Huawei.SCCP_Performance.Routing_fail_unequipment_user, SGSN.Huawei.SCCP_Performance.Routing_fail_reason_unknown, SGSN.Huawei.SCCP_Performance.Parse_error_checked_out

### 9.36 SM Performance for specific Routing Area

This report shows the performance of specific Routing Area.

Report Feature	Details
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Report Tree Branch	System.GPRS.Engineering.CN.Huawei.Routing_Area
Primary Object	Routing_Area
PDP Context Activation 2G	Routing_Area.Routing_Area_Id, Routing_Area.SGSN_Id, Routing_Area.LAC_Id, Routing_Area.Huawei.Specific_Routing_Area_SM_2G._ %_MS_init_PDP_act_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_2G._ %_MS_init_Sec_PDP_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_2G._ %_all_MS_init_PDP_succ
PDP Context Activation & Modification 3G	Routing_Area.Routing_Area_Id, Routing_Area.SGSN_Id, Routing_Area.LAC_Id, Routing_Area.Huawei.Specific_Routing_Area_SM_3G._ %_MS_init_PDP_act_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_3G._ %_MS_init_sec_PDP_act_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_3G._ %_all_MS_init_PDP_act_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_3G._ %_NET_init_PDP_act_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_3G._ %_SGSN_init_PDP_mod_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_3G._ %_GGSN_init_PDP_mod_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_3G._ %_RNC_init_PDP_mod_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_3G._ %_all_NET_init_PDP_mod_succ
PDP Context Activation Failures 2G	Routing_Area.Routing_Area_Id, Routing_Area.SGSN_Id, Routing_Area.LAC_Id, Routing_Area.Huawei.Specific_Routing_Area_SM_2G._ %_all_MS_init_PDP_succ, Routing_Area.Huawei.Specific_Routing_Area_SM_2G._2G_MS_totally_init_PDP_fail, Routing_Area.Huawei.Specific_Routing_Area_SM_2G.PDP_context_act_fail_user_auth_fail, Routing_Area.Huawei.Specific_Routing_Area_SM_2G.PDP_context_act_fail_unkown_PDP, Routing_Area.Huawei.Specific_Routing_Area_SM_2G.PDP_context_

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	act_fail_missing_APN, Routing_Area.Huawei.Specific_Routing_Area_SM_2G.PDP_context_act_fail_service_unsupp, Routing_Area.Huawei.Specific_Routing_Area_SM_2G.PDP_context_act_fail_service_unsubs
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### 9.37 SM resource report

This report shows the number of attached users in SGSN

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
Gb Mode PDP Sessions	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.Gb_Mode_SM_Resource.Average_users_with_act_PDP_context, SGSN.Huawei.Gb_Mode_SM_Resource.Max_users_with_act_PDP_context, SGSN.Huawei.Gb_Mode_SM_Resource.Average_act_PDP_context, SGSN.Huawei.Gb_Mode_SM_Resource.Max_act_PDP_context, SGSN.Huawei.Gb_Mode_SM_Resource.Average_PDP_act_duration, SGSN.Huawei.Gb_Mode_SM_Resource.Avg_user_with_PDP_onnectPLMN, SGSN.Huawei.Gb_Mode_SM_Resource.Gb_avg_act_PDP_of_connectPLMN
Iu Mode PDP Sessions	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.Iu_Mode_SM_Resource.Avg_users_with_active_PDP_context, SGSN.Huawei.Iu_Mode_SM_Resource.Max_users_with_active_PDP_context, SGSN.Huawei.Iu_Mode_SM_Resource.Avg_active_PDP_context, SGSN.Huawei.Iu_Mode_SM_Resource.Max_active_PDP_context, SGSN.Huawei.Iu_Mode_SM_Resource.Avg_PDP_act_duration
Gb Mode PDP Sessions per QoS Class	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.Gb_Mode_SM_Resource.Average_act_PDP_context, SGSN.Huawei.Gb_Mode_SM_Resource.Ave_act_PDP_Sessions_interactive, SGSN.Huawei.Gb_Mode_SM_Resource.Ave_act_PDP_Sessions_conversation, SGSN.Huawei.Gb_Mode_SM_Resource.Ave_act_PDP_Sessions_streaming, SGSN.Huawei.Gb_Mode_SM_Resource.Ave_act_PDP_Sessions_background

	kground
Iu Mode PDP Sessions per QoS Class	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.Iu_Mode_SM_Resource.Avg_active_PDP_context, SGSN.Huawei.Iu_Mode_SM_Resource.Avg_act_PDP_Sessions_interactive, SGSN.Huawei.Iu_Mode_SM_Resource.Avg_act_PDP_Sessions_conversation, SGSN.Huawei.Iu_Mode_SM_Resource.Avg_act_PDP_Sessions_streaming, SGSN.Huawei.Iu_Mode_SM_Resource.Avg_act_PDP_Sessions_background

### 9.38 SMS in Gb report

SMS traffic in Gb link

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
SMS in Gb Link report	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SMS_in_Gb.MS_originated_SMS_received (DA), SGSN.Huawei.SMS_in_Gb.MS_originated_SMS_successes, SGSN.Huawei.SMS_in_Gb.MS_originated_SMS_fail_authentication_fail, SGSN.Huawei.SMS_in_Gb.MS_originated_SMS_fail_ciphering_setting_fail, SGSN.Huawei.SMS_in_Gb.MS_originated_SM_fail_MO_service_limitation, SGSN.Huawei.SMS_in_Gb.MS_originated_SM_fail_SM_delivery_fault, SGSN.Huawei.SMS_in_Gb.MS_originated_SM_fail_not_supported_by_device, SGSN.Huawei.SMS_in_Gb.MS_originated_SM_fail_protocol_data_error, SGSN.Huawei.SMS_in_Gb.MS_originated_SM_fail_system_fault, SGSN.Huawei.SMS_in_Gb.MS_received_SM_received, SGSN.Huawei.SMS_in_Gb.MS_received_SM_successes, SGSN.Huawei.SMS_in_Gb.MS_received_SM_fail_illegal_user, SGSN.Huawei.SMS_in_Gb.MS_received_SM_fail_memory_fail,

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	SGSN.Huawei.SMS_in_Gb.MS_received_SM_fail_not_supported_by_device, SGSN.Huawei.SMS_in_Gb.MS_received_SM_fail_protocol_fail, SGSN.Huawei.SMS_in_Gb.MS_received_SM_fail_system_fault, SGSN.Huawei.SMS_in_Gb.MS_received_SM_fail_user_busy, SGSN.Huawei.SMS_in_Gb.MS_received_SM_fail_user_unattached
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### 9.39 SMS in Iu report

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
SMS in Iu report	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SMS_in_Iu.MS_originated_SMS_received (DA), SGSN.Huawei.SMS_in_Iu.MS_originated_SMS_successes, SGSN.Huawei.SMS_in_Iu.MS_originated_SMS_fail_authentication_fail, SGSN.Huawei.SMS_in_Iu.MS_originated_SMS_fail_ciphering_setting_fail, SGSN.Huawei.SMS_in_Iu.MS_originated_SM_fail_MO_service_limitation, SGSN.Huawei.SMS_in_Iu.MS_originated_SM_fail_SM_delivery_fault, SGSN.Huawei.SMS_in_Iu.MS_originated_SM_fail_not_supported_by_device, SGSN.Huawei.SMS_in_Iu.MS_originated_SM_fail_protocol_data_error, SGSN.Huawei.SMS_in_Iu.MS_originated_SM_fail_system_fault, SGSN.Huawei.SMS_in_Iu.MS_received_SM_received, SGSN.Huawei.SMS_in_Iu.MS_received_SM_fail_illegal_user, SGSN.Huawei.SMS_in_Iu.MS_received_SM_fail_memory_fail, SGSN.Huawei.SMS_in_Iu.MS_received_SM_fail_not_supported_by_device, SGSN.Huawei.SMS_in_Iu.MS_received_SM_fail_protocol_fail, SGSN.Huawei.SMS_in_Iu.MS_received_SM_fail_system_fault, SGSN.Huawei.SMS_in_Iu.MS_received_SM_fail_user_unattached, SGSN.Huawei.SMS_in_Iu.MS_received_SM_fail_user_busy

### 9.40 SMS report

This report shows the "Short Message Service" performance.

Report Feature	Details
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Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
Short Message Service	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SMS.MS_originated_SMS_attempts (DA), SGSN.Huawei.SMS.MS_originated_SMS_successes, SGSN.Huawei.SMS._%_MS_originated_SMS_successes, SGSN.Huawei.SMS.MS_rec_SM_attempts, SGSN.Huawei.SMS.MS_rec_SM_successes, SGSN.Huawei.SMS._ %_MS_rec_SM_successes, SGSN.Huawei.SMS.Notifications_due_MS_re_presence, SGSN.Huawei.SMS.Notifications_MS_mem_avail, SGSN.Huawei.SMS.L3_SMS_signalling_amount_rec, SGSN.Huawei.SMS.L3_SMS_signalling_amount_sent, SGSN.Huawei.SMS.CAMEL_user_requests_for_SM_origin, SGSN.Huawei.SMS.CAMEL_user_success_in_SM_origin, SGSN.Huawei.SMS._%_CAMEL_user_success_in_SM_origin, SGSN.Huawei.SMS.Num_of_Forwarded_bytes_for_MO_SMS, SGSN.Huawei.SMS.Num_of_Forwarded_bytes_for_MT_SMS

## 9.41 SNDCP frames traffic report

This report shows the "SNDP layer" performance.

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
SNDP layer	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.SGSN_SNDP.SNDP_data_pkts_sent_to_GTP (DA), SGSN.Huawei.SGSN_SNDP.SNDP_data_pkts_rec_from_GTP, SGSN.Huawei.SGSN_SNDP.SNDP_data_pkts_sent_to_LLC, SGSN.Huawei.SGSN_SNDP.SNDP_data_pkts_rec_from_LLC, SGSN.Huawei.SGSN_SNDP.SNDP_UL_data_pkts_dropped, SGSN.Huawei.SGSN_SNDP.SNDP_DL_data_pkts_dropped, SGSN.Huawei.SGSN_SNDP.Avg_PDP_context_usg_protocol_com pr, SGSN.Huawei.SGSN_SNDP.Avg_PDP_context_usg_data_compr

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## 9.42 Unknown traffic per QoS class report

This report shows the "QoS class for the unknown link" performance

Report Feature	Details
Report Tree Branch	System.GPRS.Engineering.CN.Huawei.SGSN
Primary Object	SGSN
QoS class for the unknown link	SGSN.SGSN_Id, SGSN.SGSN_Name, SGSN.Huawei.GTPU_Unknown_Interface.GTPU_pkts_rec_by_SGSN (DA), SGSN.Huawei.GTPU_Unknown_Interface.GTPU_pkts_discarded_by_SGSN, SGSN.Huawei.GTPU_Unknown_Interface.Pkts_of_DL_conv_class, SGSN.Huawei.GTPU_Unknown_Interface.Pkts_of_the_DL_streaming_class, SGSN.Huawei.GTPU_Unknown_Interface.Pkts_of_DL_interactive_class, SGSN.Huawei.GTPU_Unknown_Interface.Pkts_of_DL_background_class, SGSN.Huawei.GTPU_Unknown_Interface.Pkts_of_UL_conv_class, SGSN.Huawei.GTPU_Unknown_Interface.Pkts_of_UL_streaming_class, SGSN.Huawei.GTPU_Unknown_Interface.Pkts_of_UL_interactive_class, SGSN.Huawei.GTPU_Unknown_Interface.Pkts_of_UL_background_class, SGSN.Huawei.GTPU_Unknown_Interface.QoS1_pkts_drop_due_queue_overflow_UIF, SGSN.Huawei.GTPU_Unknown_Interface.QoS2_pkts_drop_due_queue_overflow_UIF, SGSN.Huawei.GTPU_Unknown_Interface.QoS3_pkts_drop_due_queue_overflow_UIF, SGSN.Huawei.GTPU_Unknown_Interface.QoS4_pkts_drop_due_queue_overflow_UIF

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