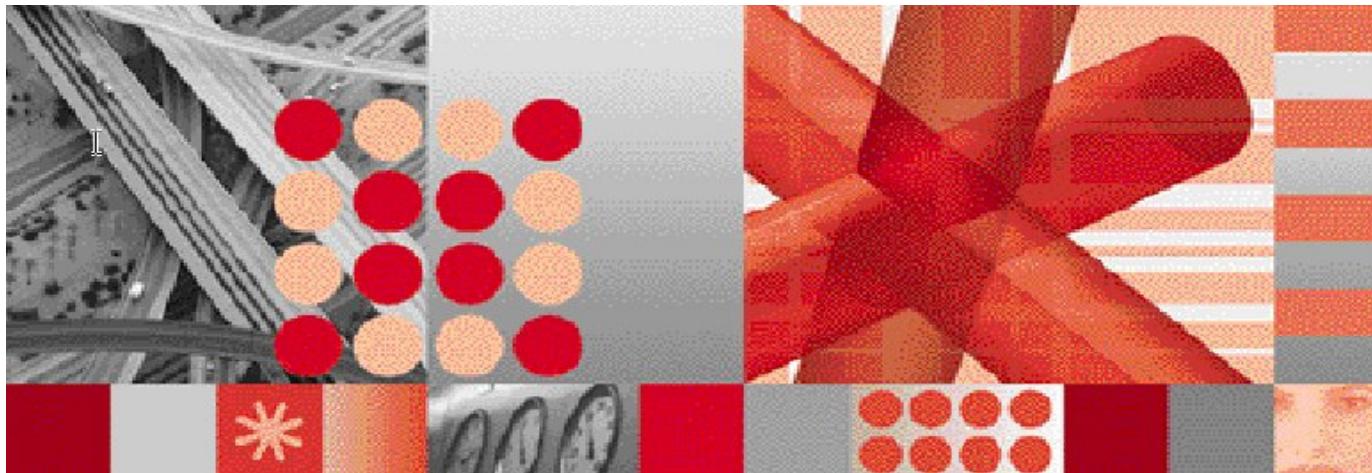**Tivoli.** **Netcool® Performance Manager for Wireless**

IBM

FUNCTIONAL SPECIFICATION

UMTS Ericsson SGSN R8

Note: Before using this information and the product it supports, read the information in Notices on page 240.

This edition applies to IBM® Tivoli® Netcool® Performance Manager for Wireless and to all subsequent releases and modifications until otherwise indicated in new editions.

Table of Contents

About this Documentation

This document was last updated on April 21, 2010 09:30 am

Audience

The target audience of this document is IBM Performance Manager for Wireless customers. They should be familiar with telecommunication and IT principles and should also have a good understanding of Solaris.

IMPORTANT: Before attempting an installation of Performance Manager for Wireless you are strongly advised to read the release notes and any readme files distributed with your Performance Manager for Wireless software. Readme files and release notes may contain information specific to your installation not contained in this guide. Failure to consult readme files and release notes may result in a corrupt, incomplete or failed installation.

Note: Performance Manager for Wireless Administrators should not, without prior consultation and agreement from IBM, make any changes to the Index Organized tables or database schema. Changes to the Index Organized tables or database schema may result in corruption of data and failure of the Performance Manager for Wireless System. This applies to all releases of Performance Manager for Wireless using all versions of interfaces.

Required Skills and Knowledge

This guide assumes you are familiar with the following:

- General IT Principles
- Sun Solaris Operating System
- Oracle Database
- Windows operating systems
- Graphical User Interfaces
- Network Operator's OSS and BSS systems architecture

This guide also assumes that you are familiar with your company's network and with procedures for configuring, monitoring, and solving problems on your network.

1 Change History

Issue	Date	Author	Comments
1.0	15/09/2008	IBM	Release for Checkpoint Charlie
2.0	26/11/2009	IBM	Fixpack Release
3.0	21/04/2010	IBM	Fixpack Release

2. Document References

Document Name	Date	Document Reference
Vendor Documentation		
Ericsson SGSN R8 Counter Description rev B	2006-2007	1/190 84-AXB 250 05/6

3. Outstanding Issues

Number	Date	Description	Planned Resolution
None			

4. Prerequisites

This section lists the Tech Pack modules that the current Tech Pack is dependent on.

- Neutral Core GOM
- Neutral GSM BSS/NSS GOM
- Neutral GPRS/UMTS CN GOM
- Neutral GPRS BSS GOM
- Neutral UMTS UTRAN GOM
- VNL GOMlet
- ERI GOMlet

5. Network Model

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

5.1 Bearer

Frame Relay bearers, used between a PCU and an SGSN in a GPRS network.

Attribute Name	Description	Type	Related Object
Bearer_Id	A unique identifier for the Bearer.	STRING	
Bearer_Name	A user friendly name preferably unique for the Bearer.	STRING	
SGSN_Id	A unique identifier for the SGSN.	STRING	SGSN
PCU_Id	A unique identifier for the PCU.	STRING	PCU
Region_Id	Region associated with the Bearer.	STRING	Region
Network_Id	Network associated with the Bearer.	STRING	Network
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING	
CIR	Designed Committed Information Rate.	STRING	
Node_Id	A unique identifier for the Node.	STRING	
Node_Name	A user friendly name preferably unique for the Node.	STRING	
Node_Type	Type of Node.	STRING	
Vendor	Manufacturer of the Bearer	STRING	

5.2 Broadband_link

Broadband Link

Attribute Name	Description	Type	Related Object
BBlink_Id	Identifier of the BroadBand Link	STRING	
Bblink_Name	Meaningful name of the BroadBand Link	STRING	
Iface_ATM_port_Id	Identifier of the Iface ATM port	STRING	Iface_ATM_port
Interface_Id	Identifier of the Interface	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN	STRING	SGSN
Region_Id	Identifier of the region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
VPI_Id	Identifier of the Virtual Path Identifier	STRING	
VCI_Id	Identifier of the Virtual Circuit Identifier	STRING	
Vendor	Manufacturer of the Broadband_link	STRING	

5.3 DLCI

Data Link Connection Identifier.

Attribute Name	Description	Type	Related Object
DLCI_Id	A unique identifier for the DLCI.	STRING	
DLCI_Name	A user friendly name preferably unique for the DLCI.	STRING	
NSVC_Id	A unique identifier for the NSVC.	STRING	NSVC
Bearer_Id	A unique identifier for the Bearer.	STRING	Bearer
Region_Id	Region associated with the DLCI.	STRING	Region

Network_Id	Network associated with the DLCI.	STRING	Network
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING	
Vendor	Manufacturer of the DLCI	STRING	

5.4 Iface_Area

Area of a SGSN Ericsson

Attribute Name	Description	Type	Related Object
Iface_Area_Id	Identifier of the Iface Area	STRING	
Iface_Area_Name	Meaningful name for the Iface Area	STRING	
Interface_Id	Identifier of the Interface	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN	STRING	SGSN
Region_Id	Identifier of the region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING	
Iface_id	Identifier of the interface	STRING	
Area_Id	Identifier of the Area	STRING	
Vendor	Manufacturer of the Iface_Area	STRING	

5.5 Iface_ATM_port

ATM Port of a SGSN Ericsson

Attribute Name	Description	Type	Related Object

Iface_ATM_port_Id	Identifier of the interface and ATM port Ids concatenation	STRING	
Iface_ATM_port_Name	Meaningful name of the interface and ATM port Ids concatenation	STRING	
Interface_Id	Identifier of the Interface	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN	STRING	SGSN
Region_Id	Identifier of the region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
Port	ATM port number	STRING	
Vendor	Manufacturer of the Iface_ATM_port	STRING	

5.6 Iface_BGP_Peer

BGP Peer of a SGSN Ericsson

Attribute Name	Description	Type	Related Object
Iface_BGP_Peer_Id	Identifier of the Iface BGP Peer	STRING	
Iface_BGP_Peer_Name	Meaningful name for the Iface BGP Peer	STRING	
Interface_Id	Identifier of the Interface	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN	STRING	SGSN
Region_Id	Identifier of the region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
Vendor	Manufacturer of the Iface_BGP_Peer	STRING	

5.7 Iface_Ethernet_Port

Ethernet port of a SGSN Ericsson

Attribute Name	Description	Type	Related Object
Iface_Ethernet_Port_Id	Identifier of the Interface and Ethernet Unit id concatenation	STRING	
Iface_Ethernet_Port_Name	Meaningful name for the Iface Ethernet Port	STRING	
Interface_Id	Identifier of the Interface	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN	STRING	SGSN
Region_Id	Identifier of the region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
Port_Id	Identifier of the Ethernet port number	STRING	
Vendor	Manufacturer of the Iface_Ethernet_Port	STRING	

5.8 Iface_IPAddress

IP Address of a SGSN Ericsson

Attribute Name	Description	Type	Related Object
Iface_Ipadd_Id	Identifier of the Iface IPAddress	STRING	
Iface_Ipadd_Name	Meaningful name for the Iface IPAddress	STRING	
Interface_id	Identifier of the Interface	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN	STRING	SGSN
Region_Id	Identifier of the region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING	
Vendor	Manufacturer of the Iface_IPAddress	STRING	

5.9 Iface_Neighbour

Router neighbour of a SGSN Ericsson

Attribute Name	Description	Type	Related Object
Iface_Neighbour_Id	Identifier of the Iface Neighbour	STRING	
Iface_Neighbour_Name	Meaningful name of the Iface Neighbor	STRING	
Interface_Id	Identifier of the interface	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN	STRING	SGSN
Region_Id	Identifier of the region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
Vendor	Manufacturer of the Iface_Neighbour	STRING	

5.10 IP_Interface_Direction

Connection direction for the IP interface of a SGSN Ericsson

Attribute Name	Description	Type	Related Object
IP_Interface_direction_Id	Identifier of the connection direction	STRING	
IP_Interface_direction_Name	Meaningful name for the connection direction	STRING	
SGSN_Id	Identifier of the SGSN	STRING	SGSN
IP_Interface_Id	Identifier of the IP Interface	STRING	IP_Interface
Region_Id	Identifier of region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
Direction	Identifier of the direction	STRING	
Vendor	Manufacturer of the IP_Interface_Direction	STRING	

5.11   IP_Interface

IP Interface for the SGSN or GGSN.

Attribute Name	Description	Type	Related Object
Interface_Id	A unique identifier for the IP Interface.	STRING	
Interface_Name	A user friendly name preferably unique for the IP Interface.	STRING	
Region_Id	Region associated with the IP Interface.	STRING	Region
Network_Id	Network associated with the IP Interface.	STRING	Network
Node_Id	A unique identifier for the Node (connected to the IP Interface).	STRING	
Node_Name	A user friendly name preferably unique for the Node (connected to the IP Interface).	STRING	
Node_Type	Type of Node (connected to the IP Interface).	STRING	
Mib2_if_index	Index of the Mib2 interface.	STRING	
Mib2_if_name	A user friendly name preferably unique for the Mib2 interface.	STRING	
Mib2_if_descr	Description of the Mib2 interface.	STRING	
Mib2_if_type	Type of Mib2 interface.	STRING	
MTU	Maximum Transmission Unit of the IP Interface.	FLOAT	
Speed	Transmission speed of the IP Interface.	STRING	
Physical_address	Physical address of the IP Interface.	STRING	
Technology	Technology of the network/element (e.g. GPRS, UMTS).	STRING	
IP_Address	IP Address of the Node connected to the IP Interface.	STRING	
Subnet_Prefix_Length	Subnet prefix length allocation.	INTEGER	
Interface_Duplex	Interface duplex allocation.	STRING	
Interface_Version	Hardware/Software version of the IP Interface.	STRING	
Vendor	Manufacturer of the IP_Interface	STRING	

5.12   MagSlot_interface

Element describing the MagID.SlotID of a SGSN Ericsson

Attribute Name	Description	Type	Related Object
Interface_Id	Identifier of the Interface	STRING	
Interface_Name	Meaningful name for the Interface	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
Interface_Type	Type or description of the Interface	STRING	
Mag_Id	Identifier of the SGSN Mag	STRING	
Slot_Id	Identifier of the SGSN Slot	STRING	
Vendor	Manufacturer of the MagSlot_interface	STRING	

5.13   Narrowband_link

Narrowband Link

Attribute Name	Description	Type	Related Object
NBlink_Id	Identifier of the NarrowBand Link	STRING	
Nblink_Name	Meaningful name of the NarrowBand Link	STRING	
Interface_Id	Identifier of the interface	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN	STRING	SGSN
Region_Id	Identifier of the region	STRING	Region

Network_Id	Identifier of the network	STRING	Network
Vendor	Manufacturer of the Narrowband_link	STRING	

5.14 Network

Network information.

Attribute Name	Description	Type	Related Object
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.	STRING	
Vendor	Manufacturer of the Network	STRING	

5.15 NSVC

Network Service - Linking a GPRS PCU to an SGSN.

Attribute Name	Description	Type	Related Object
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	
Vendor	Manufacturer of the NSVC	STRING	

5.16 Processor

The Processor object represents a CPU inside another network element. Some elements have more than one Processor.

Attribute Name	Description	Type	Related Object
Processor_Id	A unique identifier for the Processor.	STRING	
Processor_Name	A user friendly name preferably unique for the Processor.	STRING	
Region_Id	Region associated with the Processor.	STRING	Region
Network_Id	Network associated with the Processor.	STRING	Network
Processor_Type	Type of Processor.	STRING	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING	
Node_Id	This is the identifier for the network element containing the Processor.	STRING	
Node_Name	A user friendly name preferably unique for the Node.	STRING	
Node_Type	The type of the network element containing the Processor.	STRING	
Processor_Version	Hardware/Software version of the Processor.	STRING	

Vendor	Manufacturer of the Processor	STRING	

5.17 Region

A user defined grouping of network elements.

Attribute Name	Description	Type	Related Object
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
Vendor	Manufacturer of the Region	STRING	

5.18 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.

Attribute Name	Description	Type	Related Object
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	
Vendor	Manufacturer of the Routing_Area	STRING	

5.19   Security_Association

Security association of the SGSN Ericsson

Attribute Name	Description	Type	Related Object
Security_Association_Id	Identifier of the Security association	STRING	
Security_Association_Name	Meaningful name of the Security Association	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
Vendor	Manufacturer of the Security_Association	STRING	

5.20   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.

This object is used for Data Availability tracking

Attribute Name	Description	Type	Related Object
SGSN_Id	A unique identifier for the SGSN.	STRING	
SGSN_Name	A user friendly name preferably unique for the SGSN.	STRING	
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.	STRING	
Max_PDP	Maximum number of PDP sessions supported by the SGSN.	STRING	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING	
Vendor	Manufacturer of the SGSN	STRING	

5.21 Signalling_Association

Signalling association of the SGSN Ericsson.

Attribute Name	Description	Type	Related Object
Signalling_Association_Id	A unique identifier for the Signalling Association.	STRING	
Signalling_Association_Name	Meaningful name for the Signalling Association.	STRING	
Interface_Id	Identifier of the Interface.	STRING	MagSlot_interface
SGSN_Id	Identifier of the SGSN.	STRING	SGSN
Region_Id	Identifier of the region.	STRING	Region
Network_Id	Identifier of the network.	STRING	Network
SA_Id	Identifier number of the M3UA association.	STRING	
Vendor	Manufacturer of the Signalling_Association	STRING	

5.22 Signalling_Point

Represents a signalling entity that is part of a Node.

Attribute Name	Description	Type	Related Object
SS7_Point_Id	A unique identifier for the SS7 Point.	STRING	

SS7_Point_Name	A user friendly name preferably unique for the SS7 Point.	STRING	
Region_Id	Region associated with the SS7 Point. SS7_Point - the default value is derived via the Node.	STRING	Region
Network_Id	Network associated with the SS7 Point.	STRING	Network
Node_Id	A unique identifier for the Node.	STRING	
Node_Name	A user friendly name preferably unique for the Node.	STRING	
Node_Type	Type of Node.	STRING	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).	STRING	
Adjacent_Node_Id	A unique identifier for the Adjacent Node.	STRING	
Vendor	Manufacturer of the Signalling_Point	STRING	

5.23 Subsystem

Subsystem

Attribute Name	Description	Type	Related Object
Subsystem_Id	Identifier of the Sub-system	STRING	
Subsystem_Name	Meaningful for the Subsystem	STRING	
Region_Id	Identifier of the region	STRING	Region
Network_Id	Identifier of the network	STRING	Network
Node_Id	Identifier of the SGSN	STRING	
Node_Type	Identifier of the node type	STRING	
Technology	Identifier of the technology	STRING	
Version	Version of the subsystem	STRING	
Node_Name	A user friendly name preferably unique for the Node.	STRING	
Vendor	Manufacturer of the Subsystem	STRING	

5.24 Tunnel_Association

Tunnel Association of a SGSN Ericsson

Attribute Name	Description	Type	Related Object
Tunnel_Association_Id	Tunnel Association Identifier	STRING	
Tunnel_Association_Name	Meaningful name of the Tunnel Association	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
Vendor	Manufacturer of the Tunnel_Association	STRING	

6. 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 acronymn, which is included in the table below.

- Bearer

- [DLCI](#)
- [SGSN](#)

6.1 Bearer Busy Hours

Busy Hour Name	Defining KPI	Acronym
Ericsson_Bearer_Traffic_Busy_Hour	Bearer.Ericsson.Frame_Relay_WAN.Max_frWanBytes	ebtrfbh

6.2 DLCI Busy Hours

Busy Hour Name	Defining KPI	Acronym
Ericsson_DLCI_Traffic_Busy_Hour	DLCI.Ericsson.Frame_Relay_PVC.Max_frPvcBytes	edtrfbh

6.3 SGSN Busy Hours

Busy Hour Name	Defining KPI	Acronym
Ericsson_SGSN_PDP_Active_Busy_Hour	SGSN.Ericsson.Session_management.NbrActPdpContext	espactbh
Ericsson_SGSN_PDP_Activation_Busy_Hour	SGSN.Ericsson.Session_management.Tot_AttActPdpContext	espabh
Ericsson_SGSN_GTP_Traffic_Busy_Hour	SGSN.Ericsson.GTP_payload.Tot_DataOctGn	esgtpbh
Ericsson_SGSN_3G_PDP_Activation_Busy_Hour	SGSN.Ericsson.Session_management_for_UMTS.AttActPdpContext	es3pabh
Ericsson_SGSN_3G_PDP_Active_Busy_Hour	SGSN.Ericsson.Session_management_for_UMTS.NbrActPdpContext	es3pactbh
Ericsson_SGSN_3G_GTP_Traffic_Busy_Hour	SGSN.Ericsson.GTP_payload_for_UMTS.Tot_DatOctIu	es3gtpbh

7. 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:

- Bearer
- Broadband_link
- DLCI
- Iface_Area
- Iface_ATM_port
- Iface_BGP_Peer
- Iface_Ethernet_Port
- Iface_IPAddress
- Iface_Neighbour
- IP_Interface
- IP_Interface_Direction
- MagSlot_interface
- Narrowband_link
- NSVC
- Processor
- Routing_Area
- Security_Association
- SGSN
- Signalling_Association
- Signalling_Point
- Subsystem
- Tunnel_Association

7.1 Bearer Performance Indicators

- Bearer.Ericsson.UMTS.Frame_Relay_WAN
- Bearer.Ericsson.UMTS.High_level_Data_Link_Control

7.1.1 Bearer.Ericsson.UMTS.Frame_Relay_WAN

Frame Relay Bearer statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
frWanLmiErrors	eri_bearer_frmrlywan_tab.tppfsv4sg3cumc0vt0nq1utprn	INT8	Frames	Number of bad frames received on LMI DLCI	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanLmiTimeouts	eri_bearer_frmrlywan_tab.yt4jicgxsqc44b0pw5dyp6p31l	INT8	#	Number of times T392 timer expired	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanLmiWanFlows	eri_bearer_frmrlywan_tab.w0xwnnefd4cpltxnpqs2yakhq2	INT8	#	-Obsolete in R6.0- Number of canput fails for frames on the LMI channel	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxAsynchs	eri_bearer_frmrlywan_tab.tlbua3n2gwbxqcd5iucgxq1nia	INT8	Frames	Number of asynchronous frames received	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxBytes	eri_bearer_frmrlywan_tab.yfe2abgkoabgmrjarc4xetebwa	INT8	Bytes	Number of bytes received	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxCLLMs	eri_bearer_frmrlywan_tab.tdra1dc44kbd0exeuuvv0ktcuk	INT8	Frames	Number of CLLM messages received	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxDrops	eri_bearer_frmrlywan_tab.uqcvv664ysbirbmqdod13ot4vq	INT8	#	Number of rx buffer allocation failures	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxFrames	eri_bearer_frmrlywan_tab.tglo2tcqtkc1mruaxrud05gq15	INT8	Frames	Number of frames received	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxFullStat	eri_bearer_frmrlywan_tab.smtpj3grgeckvroslnompdbgn5	INT8	Frames	Number of full status frames received	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxInvDLCI	eri_bearer_frmrlywan_tab.vtkgo2mcn2buruue6gvj5u2jxi	INT8	Frames	Number of frames for invalid DLCIs	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxInvRq	eri_bearer_frmrlywan_tab.yefli3rbdkb55svnq5gsipfg0n	INT8	Frames	Number of invalid frames received	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxLmiPolls	eri_bearer_frmrlywan_tab.wljh6gue46c34bumtss6fcstgy	INT8	Frames	Number of PVC status enquiries	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxSeqOnly	eri_bearer_frmrlywan_tab.y4g3tlqfmwbpjsox5mqvyqaewu	INT8	Frames	Number of keep alive frames received	Sum, ebtrfbh, esgtpbh, espactbh, tot

frWanRxTooBig	eri_bearer_frmrlywan_tab.s345k1qj1lcv1t3nenskdphklj	INT8	Frames	Frames received exceeding maximum size	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanRxUnattDLCIs	eri_bearer_frmrlywan_tab.xecqhk6nqqbd6upssfjfaaasid	INT8	Frames	Number of frames for unattached (unused) DLCIs	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxBytes	eri_bearer_frmrlywan_tab.weifglhnvib2ybry4gaeojqvaq	INT8	Bytes	Number of bytes transmitted	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxDrops	eri_bearer_frmrlywan_tab.vfbm6owsj6c5ccqqujbbgurx1h	INT8	Frames	The number of frames dropped in the upper write queue of failures.	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxFrames	eri_bearer_frmrlywan_tab.v2ixyhse66bitsu6qrike0dqxh	INT8	Frames	Number of frames transmitted	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxFullStat	eri_bearer_frmrlywan_tab.tcliwotxn6bdme55l631h66o6m	INT8	Frames	Number of full status Enquiry responses sent	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxInvRq	eri_bearer_frmrlywan_tab.y1wykw0xhuctnduhjphq5niywi	INT8	Frames	Number of invalid transmission frames	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxLmiPolls	eri_bearer_frmrlywan_tab.w46phwvpwtbxubgrad5jxqoffl	INT8	Frames	Number of transmitted PVC status enquiries	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxNoBuff	eri_bearer_frmrlywan_tab.y6d6oq3bacccee5ichndlbt3oi	INT8	#	Number of tx buffer allocation failures	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxSeqOnly	eri_bearer_frmrlywan_tab.tp0bibsvsxb1subq63gylmedvu	INT8	Frames	Number of other status enquiry responses sent	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanTxStops	eri_bearer_frmrlywan_tab.yg5lk5c14ucnftqtxe165fcm4i	INT8	Frames	Number of congested transmit frames	Sum, ebtrfbh, esgtpbh, espactbh, tot
frWanWanFlows	eri_bearer_frmrlywan_tab.ud03xa3la5cvkttv3up5o1wi0j	INT8	#	Number of canput fails on the lower layer	Sum, ebtrfbh, esgtpbh, espactbh, tot
Max_frWanBytes	eri_bearer_frmrlywan_tab.v2irx2v5epbuptht4vphbeiphv	INT8	Bytes	Maximum number of transmitted or received bytes	Average, avg, ebtrfbh, esgtpbh, espactbh, max, min, tot

7.1.2 Bearer.Ericsson.UMTS.High_level_Data_Link_Control

High Level Data Link Control statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
hdlcRxErrAbort	eri_bearer_hlevdatlkctl_tab.tomhqvtq2oc2du5hkle0wrt6qr	INT8	Frames	Number of frames discarded due to a disruption in the reception caused by a received High level Data Link Control (HDLC) Abort pattern	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcRxErrBusy	eri_bearer_hlevdatlkctl_tab.wflntfngx5cpadwpuhyanfvopf	INT8	#	Busy error Number of times the fraction has been restarted because the SCC has no empty message block in the Rx-BD queue to write the data to	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcRxErrCRC	eri_bearer_hlevdatlkctl_tab.weof2ydxe4cytc3w4uobecicwa	INT8	Frames	Number of frames discarded due to CRC error	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcRxErrLackOfBufs	eri_bearer_hlevdatlkctl_tab.ycnfsaeptrb6hddda60xwiko5w	INT8	Frames	Number of discarded frames due to an empty STREAMS message block pool	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcRxErrMaxFrameLen	eri_bearer_hlevdatlkctl_tab.yfegs35dfjc0seymsa6lc0vmao	INT8	Frames	Number of frames discarded due to exceeded maximum frame length	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcRxErrNonOctetAlign	eri_bearer_hlevdatlkctl_tab.vetgwueevlbpxs5dyeme52vb1b	INT8	Frames	Number of frames discarded due to noneven- 8-bit length	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcRxErrQueue	eri_bearer_hlevdatlkctl_tab.uc23h6gskgcokrh0nox0wbul3q	INT8	Frames	Number of frames lost due to internal queue error	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcRxOctets	eri_bearer_hlevdatlkctl_tab.vhmlwexvx1bd2e5s3ahou6evgi	INT8	Bytes	Number of received bytes	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcRxOK	eri_bearer_hlevdatlkctl_tab.xjrxkweaxjcupb06y2h021amj0	INT8	Frames	Number of received correct frames	Sum, ebtrfbh, esgtpbh, espactbh, tot
hdlcTxOctets	eri_bearer_hlevdatlkctl_tab.vqjvhw2jrbckvbt3x16520gjtc	INT8	Bytes	Number of transmitted bytes	Sum, ebtrfbh, esgtpbh, espactbh, tot

hdlcTxOK	eri_bearer_hlevdatlkctl_tab.tbiycm2umkbqjtq2shkmjcuuk6	INT8	Frames	Number of transmitted frames	Sum, ebtrfbh, esgtpbh, espactbh, tot

7.2 Broadband_link Performance Indicators

- Broadband_link.Ericsson.UMTS.SS7_broadband_link_for_UMTS

7.2.1 Broadband_link.Ericsson.UMTS.SS7_broadband_link_for_UMTS

SS7 broadband link statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7MessageReceivedPerLinkBb	eri_bblnk_ss7bblnkumts_tab.u5q630m462c3ndbydji6ior2cn	INT8	#	Number of MSU messages received on this broadband link.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7MessageSentPerLinkBb	eri_bblnk_ss7bblnkumts_tab.sgkl3oabbjcb0r0ilgnibdr2l2	INT8	#	Number of MSU messages sent on this broadband link	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7OctetsReceivedPerLinkBb	eri_bblnk_ss7bblnkumts_tab.w2vrqmlkmp2ahu25j035yhsysy	INT8	#	Number of KB received by MTP-L3 on a broadband link.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7OctetsSentPerLinkBb	eri_bblnk_ss7bblnkumts_tab.w2vrqmnkmp2ahu25j035yhsysy	INT8	#	Number of KB sent by MTP-L3 on a broadband link.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7SLFailureBb	eri_bblnk_ss7bblnkumts_tab.s4ba6lx4su2ahbfbj035xkctsi	INT8	#	The number of signalling link failures detected on a broadband link. Planned Out-Of-Service situations commenced by deactivating the link is not counted. The counter is indexed per link.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7SLRestorationBb	eri_bblnk_ss7bblnkumts_tab.s4ba6m24su2ahbfbj035xkctsi	INT8	#	The number of signalling link	Sum, es3gtpbh,

				restorations occurred on a broadband link. All restorations are counted including when the link is restored after a planned Out-Of-Service situation. The counter is indexed per link.	es3pabh, es3pactbh, tot

7.3 DLCI Performance Indicators

- DLCI.Ericsson.UMTS.Frame_Relay_PVC

7.3.1 DLCI.Ericsson.UMTS.Frame_Relay_PVC

Frame Relay PVC counters

KPI Name	Expression	Data Type	Units	Description	Aggregation
frPvcRxBECNs	eri_dlci_frmrlypvc_tab.wue5q0yluuc30bttkos14em4i4	INT8	Frames	BECN bit set on received frame count	Sum, ebtrfbh, edtrfbh, tot
frPvcRxBytes	eri_dlci_frmrlypvc_tab.twdwqtmgp1cfns2bqix2hclgya	INT8	Bytes	Number of bytes received	Sum, ebtrfbh, edtrfbh, tot
frPvcRxDe	eri_dlci_frmrlypvc_tab.xciqxw2esibxmc0eodmpv4y5oi	INT8	#	Discard eligibility bit set on received frame count	Sum, ebtrfbh, edtrfbh, tot
frPvcRxFECNs	eri_dlci_frmrlypvc_tab.r4atmjur1gc1jb4ebnko4rkrfb	INT8	Frames	FECN bit set on received frame count	Sum, ebtrfbh, edtrfbh, tot
frPvcRxFrames	eri_dlci_frmrlypvc_tab.ukcwgfhiafcsuuujqave6mhxa3	INT8	Frames	Number of frames received	Sum, ebtrfbh, edtrfbh, tot
frPvcRxStops	eri_dlci_frmrlypvc_tab.smodvefkymbx5roipiq5ghrbp1	INT8	#	Failed canputs to upper read queue	Sum, ebtrfbh, edtrfbh, tot
frPvcTxBytes	eri_dlci_frmrlypvc_tab.uujkupadnub11uyykswr5ufarg	INT8	Bytes	Number of bytes transmitted	Sum, ebtrfbh, edtrfbh, tot
frPvcTxDe	eri_dlci_frmrlypvc_tab.ymc15gqqo2bjucsey4fw4dfil2	INT8	Frames	Discard eligibility transmit total	Sum, ebtrfbh, edtrfbh, tot
frPvcTxFrames	eri_dlci_frmrlypvc_tab.weuyrstajocmntvb1304vrfufi	INT8	Frames	Number of frames transmitted	Sum, ebtrfbh, edtrfbh, tot

frPvcTxStops	eri_dlci_frmrlypvc_tab.w166ekrgbocq0bbwkcra5ajwel	INT8	Frames	Number of congested transmit frames	Sum, ebtrfbh, edtrfbh, tot
Max_frPvcBytes	eri_dlci_frmrlypvc_tab.tv4ybtm6hdbjdc0jylgwywaona	INT8	Bytes	Maximum number of transmitted or received bytes	Average, avg, ebtrfbh, edtrfbh, max, min, tot

7.4   Iface_Area Performance Indicators

- Iface_Area.Ericsson.UMTS.OSPF_Area

7.4.1   Iface_Area.Ericsson.UMTS.OSPF_Area

Open Shortest Path First (OSPF) routing protocol area statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ospfAreaBdrRtrCount	eri_ifarea_ospfarea_tab.wcetfikrewbule34vmdyw1mhlm	INTEGER	#	Number of area border routers reachable within this area	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
ospfAreaLsaCount	eri_ifarea_ospfarea_tab.xhxan5ock4c24rikdck46hayqh	INTEGER	#	Number of link-state advertisements (LSA) in this areas link-state database, excluding AS External LSAs	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
ospfAsBdrRtrCount	eri_ifarea_ospfarea_tab.yo2f1u2p4bbumtdmih0lu532wh	INTEGER	#	Number of Autonomous System border routers reachable within this area	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
ospfSpfRuns	eri_ifarea_ospfarea_tab.voftnc5xp2cfnexir4v5q44dvj	INT8	#	Number of times that the intra-area route table has been calculated using this areas link-state database (cf. Dijkstras algorithm)	Sum, esgtpbh, espabh, espactbh, tot

7.5 Iface_ATM_port Performance Indicators

- Iface_ATM_port.Ericsson.UMTS.ATM_Adaptation_Layer_5
- Iface_ATM_port.Ericsson.UMTS.ATM_Convergence
- Iface_ATM_port.Ericsson.UMTS.ATM_Layer
- Iface_ATM_port.Ericsson.UMTS.SDH_and_SONET

7.5.1 Iface_ATM_port.Ericsson.UMTS.ATM_Adaptation_Layer_5

ATM Adaptation Layer 5 (AAL5) statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
atmal5CRCErrors	eri_ifatmport_atmadlyr5_tab.vhbrfbwtjebqask3ltcstqiak6	INT8	Packets	Number of AAL5 CPCS PDUs received with CRC-32 errors	Sum, esgtpbh, espabh, espactbh, tot
atmal5IfInDiscards	eri_ifatmport_atmadlyr5_tab.vkghuqltmybjcd3tqyadyuun2i	INT8	Packets	Number of received AAL5 CPCS PDUs discarded. Possible reason may be input buffer overflow	Sum, esgtpbh, espabh, espactbh, tot
atmal5IfInErrors	eri_ifatmport_atmadlyr5_tab.x1lpnpwlykcturfbdoth2tkjqi	INT8	Packets	Number of error AAL5 CPCS PDUs received. The types of errors counted include CRC-32 errors, SAR time-out errors, and oversized SDU errors	Sum, esgtpbh, espabh, espactbh, tot
atmal5IfInOctets	eri_ifatmport_atmadlyr5_tab.vix6puah0kcfgbxel2nn6wolyr	INT8	Octets	Number of received AAL5 CPCS PDU octets	Sum, esgtpbh, espabh, espactbh, tot
atmal5IfInPkts	eri_ifatmport_atmadlyr5_tab.tdnb4rc1ayb5ve0qbr455dinih	INT8	Packets	Number of received AAL5 CPCS PDUs passed to a higher-layer	Sum, esgtpbh, espabh, espactbh, tot
atmal5IfOutDiscards	eri_ifatmport_atmadlyr5_tab.yv5g3ok5nuc3luvqnyyra4pn3k	INT8	Packets	Number of AAL5 CPCS PDUs received for transmission that are discarded	Sum, esgtpbh, espabh, espactbh, tot
atmal5IfOutErrors	eri_ifatmport_atmadlyr5_tab.tr6rgohkaibbpbwjlvoolcjcjq	INT8	Packets	Number of AAL5 CPCS PDUs that could not be transmitted due to errors	Sum, esgtpbh, espabh, espactbh, tot

atmal5IfOutOctets	eri_ifatmport_atmadlyr5_tab.yabp0etbwfb3keioa4f2i51uh0	INT8	Octets	Number of AAL5 CPCS PDU octets transmitted	Sum, esgtpbh, espabh, espactbh, tot
atmal5IfOutPkts	eri_ifatmport_atmadlyr5_tab.w1dpait4xobridefud2yrru1g5	INT8	Packets	Number of AAL5 CPCS PDUs received from a higher layer for transmission	Sum, esgtpbh, espabh, espactbh, tot
atmal5OverSizedSDUs	eri_ifatmport_atmadlyr5_tab.ux31rqrs0xc5bbuuygphqbp615	INT8	Packets	Number of AAL5 CPCS PDUs discarded on this AAL5 VCC at the interface associated with an AAL5 entity because the AAL5 SDUs were too large	Sum, esgtpbh, espabh, espactbh, tot

7.5.2 Iface_ATM_port.Ericsson.UMTS.ATM_Convergence

ATM Transmission Convergence Layer statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
atmtclCorrectableHECs	eri_ifatmport_atmconv_tab.rlxqsf6qf3cwwuj42kltib0i2r	INT8	#	Correctable HEC errors, if single-bit HEC error correction is enabled, otherwise not valid	Sum, esgtpbh, espabh, espactbh, tot
atmtclEgressCells	eri_ifatmport_atmconv_tab.y2dleegywpcbbu65wpdq1dgh4h	INT8	#	Number of user cells in egress direction	Sum, esgtpbh, espabh, espactbh, tot
atmtclIngressCells	eri_ifatmport_atmconv_tab.t5y0vv5u3ebbmt5y2udut0hu5t	INT8	#	Number of error free user cells in ingress direction	Sum, esgtpbh, espabh, espactbh, tot
atmtclOCDEvents	eri_ifatmport_atmconv_tab.tlqn3knp3jcfcexdcefrwnyfed	INT8	#	Number of times the Out of Cell Delineation (OCD) events occurred	Sum, esgtpbh, espabh, espactbh, tot
atmtclUncorrectableHECs	eri_ifatmport_atmconv_tab.u12uofjjducf6tnixbas6jqieu	INT8	#	Uncorrectable HEC errors, if single-bit HEC error correction is enabled, otherwise it is a count of all error cells	Sum, esgtpbh, espabh, espactbh, tot

7.5.3 Iface_ATM_port.Ericsson.UMTS.ATM_Layer

ATM layer statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
atmlCellDrops	eri_ifatmport_atmlyr_tab.shqv14nmm5cfbcychieav3c5rk	INT8	#	Number of cell drops	Sum, esgtpbh, espabh, espactbh, tot
atmlCLPCells	eri_ifatmport_atmlyr_tab.xl4xeec05fc0qe3epqcyuh0qmo	INT8	#	Number of received cells with Cell Loss Priority (CLP) flag set	Sum, esgtpbh, espabh, espactbh, tot
atmlCongestionErrors	eri_ifatmport_atmlyr_tab.vd5ekdoerwb03sqc22n4qqilfm	INT8	#	Number of received cells with PT field indicating congestion experienced	Sum, esgtpbh, espabh, espactbh, tot
atmlCPIErrors	eri_ifatmport_atmlyr_tab.yhicch1lc2ccgu32f6ykx4hihm	INT8	#	Number of received cells with Common Part Indicator (CPI) field different from zero	Sum, esgtpbh, espabh, espactbh, tot
atmlInvalidCells	eri_ifatmport_atmlyr_tab.v45cqkv4ihc4stbvd32hqhbhy3	INT8	#	Number of invalid cells	Sum, esgtpbh, espabh, espactbh, tot
atmlVpiVciLookupErrors	eri_ifatmport_atmlyr_tab.vrtldowhd5c0buekststn5natw	INT8	#	Number of VPI VCI look-up errors	Sum, esgtpbh, espabh, espactbh, tot

7.5.4 Iface_ATM_port.Ericsson.UMTS.SDH_and_SONET

SDH and SONET statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
atmplLineAIS	eri_ifatmport_sdhsonet_tab.t4qlquebsnb2xdjixbv2hc665p	INT8	#	Number of Line Alarm	Sum, esgtpbh,

				Indication Signal (AIS) events	espabh, espactbh, tot
atmplLineOverheadBIPErrors	eri_ifatmport_sdhsonet_tab.y00vlfkengbm3e4ek2cat0yq2l	INT8	#	Number of line overhead Bit Interleaved Parity (BIP) errors	Sum, esgtpbh, espabh, espactbh, tot
atmplLineRDI	eri_ifatmport_sdhsonet_tab.ycerjgt0m5bksdcvdsujki3ysk	INT8	#	Number of Line Remote Defect Indication (RDI) events	Sum, esgtpbh, espabh, espactbh, tot
atmplLineREI	eri_ifatmport_sdhsonet_tab.y402irouutcficrppp3ik1v54l	INT8	#	Number of line Remote Error Indications(REI), former FEBE	Sum, esgtpbh, espabh, espactbh, tot
atmplLOF	eri_ifatmport_sdhsonet_tab.vyvpiqnubacvpu4i6igw5rdt02	INT8	#	Number of Loss Of Frames (LOF) events	Sum, esgtpbh, espabh, espactbh, tot
atmplLOP	eri_ifatmport_sdhsonet_tab.vks2kiekndc2fdd1ms2scrc3i6	INT8	#	Number of Loss Of Pointer (LOP) events	Sum, esgtpbh, espabh, espactbh, tot
atmplLOS	eri_ifatmport_sdhsonet_tab.wfgccrfgljbqvehk0n00ecbyhp	INT8	#	Number of Loss Of Signals (LOS) events	Sum, esgtpbh, espabh, espactbh, tot
atmplOOF	eri_ifatmport_sdhsonet_tab.t3tivnmfjhbs3tn44q4l0t4eis	INT8	#	Number of Out Of Frames (OOF) events	Sum, esgtpbh, espabh, espactbh, tot
atmplPathAIS	eri_ifatmport_sdhsonet_tab.wiidsho3nub5irjwvr5tra646f	INT8	#	Number of path Alarm Indication Signal (AIS) events	Sum, esgtpbh, espabh, espactbh, tot
atmplPathOverheadBIPErrors	eri_ifatmport_sdhsonet_tab.waptf2nn0xcw3cx2keqgxdr2ti	INT8	#	Number of path overhead Bit Interleaved Parity (BIP) errors	Sum, esgtpbh, espabh, espactbh, tot
atmplPathRDI	eri_ifatmport_sdhsonet_tab.x4muqf21skbxwdlsx5edd2yq0x	INT8	#	Number of path Remote Defect Indication (RDI) events	Sum, esgtpbh, espabh, espactbh, tot
atmplPathREI	eri_ifatmport_sdhsonet_tab.s6dmvmk5ixc0luiuiiep20wnv4	INT8	#	Number of path Remote	Sum, esgtpbh,

				Error Indications(REI), former FEBE	espabh, espactbh, tot
atmplSectionOverheadBIPErrors	eri_ifatmport_sdhsonet_tab.wiax23qnydbmuuy4muegco246p	INT8	#	Number of section overhead Bit Interleaved Parity (BIP) errors	Sum, esgtpbh, espabh, espactbh, tot

7.6 Iface_BGP_Peer Performance Indicators

- Iface_BGP_Peer.Ericsson.UMTS.BGP_Peer

7.6.1 Iface_BGP_Peer.Ericsson.UMTS.BGP_Peer

Border Gateway Protocol (BGP) peer statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
bgpPeerFsmEstablishedTransitions	eri_ifbgppeer_bgppeer_tab.t4cowndftsb4gsj5lbe4elavye	INT8	#	Number of times the BGP FSM is transitioned into the established state.	Sum, esgtpbh, espabh, espactbh, tot
bgpPeerInTotalMessages	eri_ifbgppeer_bgppeer_tab.t14byncpkmcd0d6i5jbffapoak	INT8	#	Number of messages received from the remote peer on this connection.	Sum, esgtpbh, espabh, espactbh, tot
bgpPeerInUpdateElapsedTime	eri_ifbgppeer_bgppeer_tab.ugaxkbgksxcdie1auw0uuv6k26	INTEGER	Seconds	Elapsed time since the last BGP UPDATE message was received from the peer. Each time the bpgPeerInUpdates is incremented, the value of this gauge is set to zero.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
bgpPeerInUpdates	eri_ifbgppeer_bgppeer_tab.t0bkbaitsjbe6b4o5ciqw4hr4u	INT8	#	Number of BGP UPDATE messages	Sum, esgtpbh, espabh,

				received on this connection.	espactbh, tot
bgpPeerOutTotalMessages	eri_ifbgppeer_bgppeer_tab.sqqvls242gcidu3biy4e02gtrj	INT8	#	Number of messages transmitted to the remote peer on this connection.	Sum, esgtpbh, espabh, espactbh, tot
bgpPeerOutUpdates	eri_ifbgppeer_bgppeer_tab.rj04gnfp6dchabivhketct5uqv	INT8	#	Number of BGP UPDATE messages transmitted on this connection.	Sum, esgtpbh, espabh, espactbh, tot

7.7   Iface_Ethernet_Port Performance Indicators

- Iface_Ethernet_Port.Ericsson.UMTS.Ethernet

7.7.1 Iface_Ethernet_Port.Ericsson.UMTS.Ethernet

Ethernet port interface statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ethInErrorsBUF	eri_ifetherport_ether_tab.xs0d4angx3b4aui1lgs43lmo4q	INT8	#	Number of incoming buffer errors	Sum, esgtpbh, espabh, espactbh, tot
ethInErrorsCE	eri_ifetherport_ether_tab.s62gs4e011ckbbjndcak1pixks	INT8	#	Number of incoming CRC errors	Sum, esgtpbh, espabh, espactbh, tot
ethInErrorsCLBLK	eri_ifetherport_ether_tab.rk0sxescl2bpicdhakev5lojiu	INT8	#	Number of incoming clblk errors	Sum, esgtpbh, espabh, espactbh, tot
ethInErrorsCS	eri_ifetherport_ether_tab.v1bo1f6qhgbj4densaksh562jk	INT8	#	Number of incoming collisions seen	Sum, esgtpbh, espabh, espactbh, tot

ethInErrorsFF	eri_ifetherport_ether_tab.wnan2x0w65bmatvjpobkhjxd5e	INT8	#	Failed the address recognition filtering	Sum, esgtpbh, espabh, espactbh, tot
ethInErrorsMBLK	eri_ifetherport_ether_tab.x4pc6w5xf2bb1s40wlkv4b3fby	INT8	#	Number of incoming mblock errors	Sum, esgtpbh, espabh, espactbh, tot
ethInErrors	eri_ifetherport_ether_tab.tiiafaqoi3clfdlgngadur4l5i	INT8	#	Number of incoming errors	Sum, esgtpbh, espabh, espactbh, tot
ethInErrorsRF	eri_ifetherport_ether_tab.rukj2npe04cqmcume4c51wq40b	INT8	#	Number of runt frames (frames damaged by collision)	Sum, esgtpbh, espabh, espactbh, tot
ethInErrorsTL	eri_ifetherport_ether_tab.x50se62cg6bh5brwx3emjuafw0	INT8	Frames	Ethernet frame too long	Sum, esgtpbh, espabh, espactbh, tot
ethInMF	eri_ifetherport_ether_tab.vogh5cv0dxbyiu5ui5fuwp14m2	INT8	#	(Obsolete in R7.0 This is replaced by ifInPkts) Ethernet Multicast frames received	Sum, esgtpbh, espabh, espactbh, tot
ethInPkts	eri_ifetherport_ether_tab.yyowcer56nbwqc6fmcisa6igj3	INT8	Packets	(Obsolete in R7.0 This is replaced by ifInPkts) Number of packets delivered by this sub-layer to a higher (sub-)layer	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrorOWN	eri_ifetherport_ether_tab.rafuseooqec5sbnotks11myoel	INT8	#	Number of outgoing own errors	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrorsBUF	eri_ifetherport_ether_tab.ydfimf0miecpablv4avy5qjnir	INT8	#	Number of outgoing buffer errors	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrorsEC	eri_ifetherport_ether_tab.rc2wwl50lrcb0ugsqrqfe5egpm	INT8	#	Number of outgoing excessive collisions	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrorsLC	eri_ifetherport_ether_tab.xdl3pyfi5mbkssln1qjhamywf4	INT8	#	Number of outgoing late collisions	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrorsLO	eri_ifetherport_ether_tab.trhwplxygmc22tqh4hfl1k4tlt	INT8	#	Number of outgoing loss of carrier errors	Sum, esgtpbh, espabh, espactbh,

					tot
ethOutErrorsNC	eri_ifetherport_ether_tab.t5s3fnmnddb13t31efjpfjujwk	INT8	#	Number of outgoing no carrier errors	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrors	eri_ifetherport_ether_tab.ua20jjnvf0bbsdhnhd5s152kx1	INT8	#	Number of outbound errors	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrorsTO	eri_ifetherport_ether_tab.w3sdmn40tybhpeqfkfegys4b31	INT8	#	Number of outgoing transmit jabber timeouts	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrorsTXD	eri_ifetherport_ether_tab.skpt43ktivbjueyd0qmsmkcl5l	INT8	#	Number of transmit descriptor errors (TxD could not be created)	Sum, esgtpbh, espabh, espactbh, tot
ethOutErrorsUF	eri_ifetherport_ether_tab.rctagkxtcycfeb1dnma04q0h5t	INT8	#	Number of outgoing underflow errors	Sum, esgtpbh, espabh, espactbh, tot
ethOutPkts	eri_ifetherport_ether_tab.w0r6pylvl4bkaeheawdqfelea3	INT8	Packets	(Obsolete in R7.0 This is replaced by ifOutPkts) Number of packets that higher-level protocols requested to be transmitted	Sum, esgtpbh, espabh, espactbh, tot

7.8   Iface_IPAddress Performance Indicators

- Iface_IPAddress.Ericsson.UMTS.OSPF_Interface

7.8.1   Iface_IPAddress.Ericsson.UMTS.OSPF_Interface

Open Shortest Path First (OSPF) routing protocol interface statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ospfIfEvents	eri_ifipadd_ospfif_tab.tua5e4cspqcd0rq2nmg511x6wt	INT8	#	Number of times this OSPF interface has changed its state, or an error has occurred	Sum, esgtpbh, espabh, espactbh, tot

7.9 Iface_Neighbour Performance Indicators

- Iface_Neighbour.Ericsson.UMTS.OSPF_Neighbour

7.9.1 Iface_Neighbour.Ericsson.UMTS.OSPF_Neighbour

Open Shortest Path First (OSPF) routing protocol neighbour statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ospfNbrEvents	eri_ifneigh_ospfneigh_tab.ro2nikw3e3bx5bplwcfl0rufm5	INT8	#	Number of times this neighbour relationship has changed state, or an error has occurred	Sum, esgtpbh, espabh, espactbh, tot

7.10 IP_Interface Performance Indicators

- IP_Interface.Ericsson.UMTS.IP_Traffic

7.10.1 IP_Interface.Ericsson.UMTS.IP_Traffic

IP traffic statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ifInDiscards	eri_ipif_iptraf_tab.s4ba6fr4su2ahbfbj035xkctsi	INT8	Packets	Number of inbound IP packets dropped in the Ethernet driver due to lack of resources.	Sum, tot
ifInOctets	eri_ipif_iptraf_tab.sfwdeyubf6cf1esg35ytvklmu5	INT8	Octets	Number of octets received on the interface, including framing characters	Sum, tot
ifInPkts	eri_ipif_iptraf_tab.ye0gfssl5ybxcbeycfecorydbt	INT8	Packets	Number of packets, delivered by this sub-layer to a higher (sub-)layer	Sum, tot

ifOutDiscards	eri_ipif_iptraf_tab.sung5pevpoc0eemn1bwwuuvis3	INT8	Packets	Number of outbound packets that have been dropped in the Ethernet driver due to lack of resources. There can be a lack of resources when full packet queues, or when the driver is out of buffers, clusters, or descriptors.	Sum, tot
ifOutOctets	eri_ipif_iptraf_tab.rdfaaxhpsvb1ibwrppbbdqaeh2	INT8	Octets	Number of octets transmitted out of the interface, including framing characters	Sum, tot
ifOutPkts	eri_ipif_iptraf_tab.xejh61fac4bn1r2vircdgw3dok	INT8	Packets	Number of packets that higher-level protocols requested to be transmitted	Sum, tot
ifOutQlen	eri_ipif_iptraf_tab.tgl0spxsrpcmltttnws20rcape	INTEGER	Packets	Length of the output packet queue (in packets)	Average, avg, max, min, tot

7.11 IP_Interface_Direction Performance Indicators

- IP_Interface_Direction.Ericsson.UMTS.IP_Filtering

7.11.1 IP_Interface_Direction.Ericsson.UMTS.IP_Filtering

IP Filtering Slot statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
filterAllowedPackets	eri_ipifdir_ipfilt_tab.sih2jw1ayeb4tcldenmawivrtd	INT8	Packets	Number of packets allowed by filter for a specific interface and direction	Sum, esgtpbh, espabh, espactbh, tot
filterDeniedPackets	eri_ipifdir_ipfilt_tab.rmkjild6i3bm2s1ftrcphk5eiw	INT8	Packets	Number of packets denied by filter for a specific interface and direction	Sum, esgtpbh, espabh, espactbh, tot
filterIpsecPackets	eri_ipifdir_ipfilt_tab.yhriaoecmvcr1e2cy331xjo0bm	INT8	Packets	Number of packets classified as IPsec by filter for a specific interface and direction	Sum, esgtpbh, espabh, espactbh, tot

7.12 MagSlot_interface Performance Indicators

- MagSlot_interface.Ericsson.UMTS.GPB_Sys
- MagSlot_interface.Ericsson.UMTS.ICMP_messages
- MagSlot_interface.Ericsson.UMTS.IP_Datagram
- MagSlot_interface.Ericsson.UMTS.IP_Filtering_Slot
- MagSlot_interface.Ericsson.UMTS.Ipsec_and_GRE_Slot
- MagSlot_interface.Ericsson.UMTS.OSPF_CPU
- MagSlot_interface.Ericsson.UMTS.SS7_Stack_for_UMTS
- MagSlot_interface.Ericsson.UMTS.SS7_Stack

7.12.1 MagSlot_interface.Ericsson.UMTS.GPB_Sys

(Obsolete in R8) System General Processing Board statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
SYSsnCpuUsageGPB	eri_magslotif_gpbsys_tab.yoa4eco6vycgos4uwsnvunr63s	FLOAT	%	(Obsolete in R8) Current CPU usage per processor for a General Processing Board (GPB)	Average, avg, esgtpbh, espabh, espactbh, max, min, tot

7.12.2 MagSlot_interface.Ericsson.UMTS.ICMP_messages

ICMP message statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
icmpInDestUnreachs	eri_magslotif_icmpmsg_tab.udmoakfwpdbkocl6h3jcxgn2wk	INT8	#	Number of ICMP Destination Unreachable messages received	Sum, esgtpbh, espabh, espactbh, tot
icmpInEchoReps	eri_magslotif_icmpmsg_tab.x3pulu04rvckhr3suyrecslb4t	INT8	#	Number of ICMP Echo Reply messages received	Sum, esgtpbh, espabh, espactbh, tot
icmpInEchos	eri_magslotif_icmpmsg_tab.xpaj1ghcp6c1otfk1w333urf4p	INT8	#	Number of ICMP Echo (request)	Sum, esgtpbh,

				messages received	espabh, espactbh, tot
icmpInErrors	eri_magslotif_icmpmsg_tab.vrwllffytjbhhss3pyfvnu31rx	INT8	#	Number of ICMP messages which the entity received but determined as having ICMPspecific errors (bad ICMP checksums, bad length, etc)	Sum, esgtpbh, espabh, espactbh, tot
icmpInMsgs	eri_magslotif_icmpmsg_tab.veln0h64kob0mbursdx1yfkyq4	INT8	#	Number of ICMP messages which the entity received Note that this counter also includes all those counted by icmpInErrors	Sum, esgtpbh, espabh, espactbh, tot
icmpInParmProbs	eri_magslotif_icmpmsg_tab.rrhrod2qn4cl6rrja10uasqgog	INT8	#	Number of ICMP Parameter Problem messages received	Sum, esgtpbh, espabh, espactbh, tot
icmpInRedirects	eri_magslotif_icmpmsg_tab.u6ccp0qwnschtt3kvtkqnby0kr	INT8	#	Number of ICMP Redirect messages received	Sum, esgtpbh, espabh, espactbh, tot
icmpInTimeExcds	eri_magslotif_icmpmsg_tab.tw14sy20nwbcgs5xk05dsxngha	INT8	#	Number of ICMP Time Exceeded messages received	Sum, esgtpbh, espabh, espactbh, tot
icmpOutDestUnreachs	eri_magslotif_icmpmsg_tab.tmkpgymhmab65sspeljhe2q2st	INT8	#	Number of ICMP Destination Unreachable messages sent	Sum, esgtpbh, espabh, espactbh, tot
icmpOutEchoReps	eri_magslotif_icmpmsg_tab.wq32dahcukc2wdsgcxs1ogyrmv	INT8	#	Number of ICMP Echo Reply messages sent	Sum, esgtpbh, espabh, espactbh, tot
icmpOutEchos	eri_magslotif_icmpmsg_tab.retsm4xt4mc2cumwuey0ucslvt	INT8	#	Number of ICMP Echo (request) messages sent	Sum, esgtpbh, espabh, espactbh, tot
icmpOutErrors	eri_magslotif_icmpmsg_tab.yqybueooqrbdrc4od6lqaeg3e2	INT8	#	Number of ICMP messages which this entity did not send due to problems discovered within ICMP such as a lack of buffers	Sum, esgtpbh, espabh, espactbh, tot
icmpOutMsgs	eri_magslotif_icmpmsg_tab.s046ax6mkobuquupn6hwwxkqjk	INT8	#	Number of ICMP messages which this entity attempted to send	Sum, esgtpbh, espabh, espactbh, tot

icmpOutParmProbs	eri_magslotif_icmpmsg_tab.sobqgijoj3csmegvjvej2qt2f5	INT8	#	Number of ICMP Parameter Problem messages sent	Sum, esgtpbh, espabh, espactbh, tot
icmpOutRedirects	eri_magslotif_icmpmsg_tab.wwv3da2lv3butcjqjeo30nxq4r	INT8	#	Number of ICMP Redirect messages sent For a host, this object will always be zero, since hosts do not send redirects	Sum, esgtpbh, espabh, espactbh, tot
icmpOutTimeExcds	eri_magslotif_icmpmsg_tab.yk0v5yyckobdqbtorxfu6pckic	INT8	#	Number of ICMP Time Exceeded messages sent	Sum, esgtpbh, espabh, espactbh, tot

7.12.3 MagSlot_interface.Ericsson.UMTS.IP_Datagram

IP Datagram statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ipForwDatagrams	eri_magslotif_ipdata_tab.wmmn5yptr5cldbv2ycwmumx2r3	INT8	#	Number of input datagrams for which this entity was not their final IP destination, as a result of which an attempt was made to find a route to forward them to that destination	Sum, esgtpbh, espabh, espactbh, tot
ipFragCreates	eri_magslotif_ipdata_tab.xd5k0sg3rlcx1us66gsdp3oldv	INT8	#	Number of IP datagram fragments that have been generated as a result of fragmentation at this entity	Sum, esgtpbh, espabh, espactbh, tot
ipFragFails	eri_magslotif_ipdata_tab.ukfhcxmtjgcm0bvsqcq0eidv2h	INT8	#	Number of IP datagrams that have been discarded because they needed to be fragmented at this entity	Sum, esgtpbh, espabh, espactbh, tot
ipFragOKs	eri_magslotif_ipdata_tab.waxl0u1yilcmwbfv022kuacu1k	INT8	#	Number of IP datagrams that have been fragmented at this entity	Sum, esgtpbh, espabh, espactbh, tot
ipInAddrErrors	eri_magslotif_ipdata_tab.t5u6v2gl4scv6eposmgfd1qfes	INT8	#	Number of input datagrams discarded because the IP address in their IP headers destination field was not a valid address This count includes invalid addresses (eg 0000) and addresses of unsupported	Sum, esgtpbh, espabh, espactbh, tot

				Classes (eg Class E)	
ipInHdrErrors	eri_magslotif_ipdata_tab.tixp0covaacqdul0dobyrm51eo	INT8	#	Number of input datagrams discarded due to errors in their IP headers, including bad checksums, version number mismatch, other format errors, time-to-live exceeded, errors discovered in processing their IP options	Sum, esgtpbh, espabh, espactbh, tot
ipInReceives	eri_magslotif_ipdata_tab.t4yo513xryb2kshvey62xh5mfe	INT8	#	Number of input datagrams received from interfaces, including those received in error	Sum, esgtpbh, espabh, espactbh, tot
ipOutNoRoutes	eri_magslotif_ipdata_tab.roytyooahicxddo6tjcbes0yfr	INT8	#	Number IP datagrams discarded because no route could be found to transmit them to their destination	Sum, esgtpbh, espabh, espactbh, tot
ipReasmFails	eri_magslotif_ipdata_tab.xwyjl42lk4bfjeuypxh4vmrooj	INT8	#	Number of failures detected by the IP re-assembly algorithm (for whatever reason: timed out, errors, etc)	Sum, esgtpbh, espabh, espactbh, tot
ipReasmOKs	eri_magslotif_ipdata_tab.y46ncyuflwclotdg6l6smn5rqs	INT8	#	Number of IP datagrams successfully re-assembled	Sum, esgtpbh, espabh, espactbh, tot
ipReasmReqds	eri_magslotif_ipdata_tab.v6rnhd5ldocylc3fixgoha3xqe	INT8	#	Number IP fragments received which needed to be reassembled at this entity	Sum, esgtpbh, espabh, espactbh, tot

7.12.4 MagSlot_interface.Ericsson.UMTS.IP_Filtering_Slot

IP Filtering Slot statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
filterAllowedPacketsOnSlot	eri_magslotif_ipfilslot_tab.sy2mnng1ohc1hcjy1q1qy1i26b	INT8	Packets	Number of packets allowed by filter on this slot.	Sum, esgtpbh, espabh, espactbh, tot
filterDeniedPacketsOnSlot	eri_magslotif_ipfilslot_tab.uputwrklcwbf1bg4vwm1bfcv44	INT8	Packets	Number of packets denied by filter on this slot.	Sum, esgtpbh, espabh, espactbh,

					tot
filterIpsecPacketsOnSlot	eri_magslotif_ipfilslot_tab.t6rc3iwgqechyc2wmsjs3y0ytk	INT8	Packets	Number of packets classified as IPsec or GRE by filter on this slot.	Sum, esgtpbh, espabh, espactbh, tot

7.12.5 MagSlot_interface.Ericsson.UMTS.Ipsec_and_GRE_Slot

IPsec and GRE slot protocol statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ipsecIncorrectPackets	eri_magslotif_ipsgreslt_tab.us4d2dc02dchib03hrikorces4	INT8	Packets	Number of packets not processed (cf. Packets processed - input ok packets - out ok packets)	Sum, esgtpbh, espabh, espactbh, tot
ipsecIssIllegalSpi	eri_magslotif_ipsgreslt_tab.w3e2r02l6ibqwcyfx3lki2jie3	INT8	Packets	Number of incoming packets which spi does not have an SA in IPSEC SAD	Sum, esgtpbh, espabh, espactbh, tot
ipsecIssInOkPackets	eri_magslotif_ipsgreslt_tab.uxbyigu25wci0uh1j34risyipo	INT8	Packets	Number of packets which has been processed correctly, coming in	Sum, esgtpbh, espabh, espactbh, tot
ipsecIssMd5Mismatch	eri_magslotif_ipsgreslt_tab.uivpvutqyqbsdspweh30huswly	INT8	#	Number of times the comparison between the given value and the calculated (with md5 alg) value did not match	Sum, esgtpbh, espabh, espactbh, tot
ipsecIssOutOkPackets	eri_magslotif_ipsgreslt_tab.smy6233tc1cd1ugfy6sqr1anhv	INT8	Packets	Number of packets which has been processed correctly, going out	Sum, esgtpbh, espabh, espactbh, tot
ipsecIssSha1Mismatch	eri_magslotif_ipsgreslt_tab.uu5wd3fk6fcecub0ucearyonvt	INT8	#	Number of times the comparison between the given value and the calculated (with sha1 alg) value did not match	Sum, esgtpbh, espabh, espactbh, tot
ipsecWaPacketsProcessed	eri_magslotif_ipsgreslt_tab.wl1vkmwoitbkadfk0eymspbmf0	INT8	Packets	Randomize dropped packets during high CPU load. Incremented every time an	Sum, esgtpbh, espabh, espactbh, tot

				IPSEC header is added or removed	

7.12.6 MagSlot_interface.Ericsson.UMTS.OSPF_CPU

Open Shortest Path First (OSPF) routing protocol network statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ospfExternLsaCount	eri_magslotif_ospfcpu_tab.rodccm5ygkc4uuiy5lxbaakr3e	INTEGER	#	Number of external (LS type 5) link-state advertisements in the link-state database	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
ospfOriginateNewLsas	eri_magslotif_ospfcpu_tab.welefpuqq4br6tcr3lrbnnchls	INT8	#	Number of new link-state advertisements (LSA) that have been originated	Sum, avg, esgtpbh, espabh, espactbh, tot
ospfRxNewLsas	eri_magslotif_ospfcpu_tab.rlelnu42xfc3pbdecyffq4f53t	INT8	#	Number of link-state advertisements received determined to be new instantiations (not include newer instantiations of self-originated link-state advertisements)	Sum, avg, esgtpbh, espabh, espactbh, tot

7.12.7 MagSlot_interface.Ericsson.UMTS.SS7_Stack_for_UMTS

SS7 stack statistics for UMTS

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7MessageOrigCR	eri_magslotif_s7stkumts_tab.soqqylfejicfgdhvqw6an00wkl	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of Connection Request messages sent.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7MessageOrigDT1	eri_magslotif_s7stkumts_tab.vneflhwd0xbnptwmhsdkdppfdg	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of Data Form 1 messages sent (Connection Oriented data).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7MessageOrigRLSD	eri_magslotif_s7stkumts_tab.wj2cafqggrchnectap3o46ccvo	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of Released messages sent.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7MessageTermCR	eri_magslotif_s7stkumts_tab.x5sss63smyckwb0t5fmh6liq2r	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of Connection Request messages received.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7MessageTermDT1	eri_magslotif_s7stkumts_tab.t5adiitlsvcyqtosop02piujlk	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of Data Form 1 messages received (Connection Oriented data).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7MessageTermRLSD	eri_magslotif_s7stkumts_tab.xnuk30u14qbn2dvlwm0wked12m	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of Released messages received.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
ss7NoOfCurrRunConnTot	eri_magslotif_s7stkumts_tab.xx6ai0ej6vcj6sodualnchlucl	INTEGER	#	(Changed in R7.0 Moved to Signalling_Point object) Number of currently running connections total.	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot

7.12.8 MagSlot_interface.Ericsson.UMTS.SS7_Stack

SS7 stack statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7MessageOrigUDT	eri_magslotif_s7stk_tab.tcpxrs3xgvb0htg3rg4pat3hbn	INT8	#	(Changed in R7.0 Moved to	Sum, esgtpbh,

				Signalling_Point object) Number of unit data (UDT) messages originated per class and source	espabh, espactbh, tot
ss7MessageOrigXUDT	eri_magslotif_s7stk_tab.vtf6w1rpevbuqdd6d4afc5jnck	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of extended unit data (XUDT) messages originated per class and source	Sum, esgtpbh, espabh, espactbh, tot
ss7MessageTermUDT	eri_magslotif_s7stk_tab.sofo5ddlqnckdbmjnmynq6cq5g	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of UDT messages terminated per class and sink	Sum, esgtpbh, espabh, espactbh, tot
ss7MessageTermXUDT	eri_magslotif_s7stk_tab.ws2q4ogfj2cpnrhmn1aoqxwqxl	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of XUDT messages, that are terminated	Sum, esgtpbh, espabh, espactbh, tot
ss7MSUDiscardError	eri_magslotif_s7stk_tab.wuvj3bqbajbidrfrmjbsmc64ou	INT8	#	(Changed in R7.0 Moved to SGSN object) Message signalling unit (MSU) is discarded due to routing data error	Sum, esgtpbh, espabh, espactbh, tot
ss7NoOfIncSegMes	eri_magslotif_s7stk_tab.uak1mqdrptcx4ccmpf2l1d3jx2	INT8	#	(Changed in R7.0 Moved to Signalling_Point object) Number of incoming segmented messages.	Sum, esgtpbh, espabh, espactbh, tot
ss7NoOfRunDialTot	eri_magslotif_s7stk_tab.r0jrlyf2wrbj1te6pbqviw6nll	INTEGER	#	(Changed in R7.0 Moved to SGSN object) Number of running dialogues, total.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
ss7NoOfRunOpTot	eri_magslotif_s7stk_tab.rvunei3l5abeubjnuoprxgeyld	INTEGER	#	(Changed in R7.0 Moved to SGSN object) Number of running operations, total.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
ss7ProtocolErrorComp	eri_magslotif_s7stk_tab.vut5b1jchtckxc3tfydelxrgbt	INT8	#	(Changed in R7.0 Moved to SGSN object) Protocol error detected in component portion	Sum, esgtpbh, espabh, espactbh, tot
ss7ProtocolErrorTraA	eri_magslotif_s7stk_tab.s5s1cd3vp0c0cc1d1xulbfgkkq	INT8	#	(Changed in R7.0 Moved to SGSN object) Protocol error occurred, since P-abort is unrecognized	Sum, esgtpbh, espabh, espactbh, tot

				transaction identity (TID)	
ss7ProtocolErrorTraD	eri_magslotif_s7stk_tab.vaevgjunt6cafsdxklceq56w1x	INT8	#	(Changed in R7.0 Moved to SGSN object) Protocol error occurred, since P-abort is unrecognized message type	Sum, esgtpbh, espabh, espactbh, tot
ss7SLFailure	eri_magslotif_s7stk_tab.slj4x03cpsbuhs55246j4y4lm1	INT8	#	(Obsolete in R7.0 This has been replaced by ss7SLFailureNb and ss7SLFailureBb) Signalling link (SL) failure is detected	Sum, esgtpbh, espabh, espactbh, tot
ss7SLRestoration	eri_magslotif_s7stk_tab.r3p6pfmamcbvgrbl61b1uxj56x	INT8	#	(Obsolete in R7.0 This has been replaced by ss7SLRestorationNb and ss7SLRestorationBb) SL restoration has occurred	Sum, esgtpbh, espabh, espactbh, tot
ss7SPInaccess	eri_magslotif_s7stk_tab.s2ewk2bijdbqqcocwlpied54gk	INT8	#	(Changed in R7.0 Moved to SGSN object) Adjacent signalling point (SP) is inaccessible	Sum, esgtpbh, espabh, espactbh, tot
ss7TCMessageReceive	eri_magslotif_s7stk_tab.t1gbmjujexb6erdpdghjgvmdo1	INT8	#	(Changed in R7.0 Moved to SGSN object) Number of TC messages received by the stack	Sum, esgtpbh, espabh, espactbh, tot
ss7TCMessageSent	eri_magslotif_s7stk_tab.ts6lt3gql5bo4d1kk2ego0unbl	INT8	#	(Changed in R7.0 Moved to SGSN object) Number of transaction capability (TC) messages sent by the stack	Sum, esgtpbh, espabh, espactbh, tot

7.13 Narrowband_link Performance Indicators

- Narrowband_link.Ericsson.UMTS.SS7_narrowband_link

7.13.1 Narrowband_link.Ericsson.UMTS.SS7_narrowband_link

SS7 link statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation

ss7MessageReceivedPerLinkNb	eri_nblnk_ss7nblnk_tab.xdxeyc020kbqabolyelq6a06t1	INT8	#	Number of MSU messages received on this narrowband link.	Sum, esgtpbh, espabh, espactbh, tot
ss7MessageSentPerLinkNb	eri_nblnk_ss7nblnk_tab.v40lirjjhpby0d6iy31cjfw5sx	INT8	#	Number of MSU messages sent on this narrowband link.	Sum, esgtpbh, espabh, espactbh, tot
ss7OctetsReceivedPerLinkNb	eri_nblnk_ss7nblnk_tab.w2vrqmpkmp2ahu25j035yhsysy	INT8	#	Number of KB received by MTP-L3 on a narrowband link.	Sum, esgtpbh, espabh, espactbh, tot
ss7OctetsSentPerLinkNb	eri_nblnk_ss7nblnk_tab.w2vrqmrkmp2ahu25j035yhsysy	INT8	#	Number of KB sent by MTP-L3 on a narrowband link.	Sum, esgtpbh, espabh, espactbh, tot
ss7SLFailureNb	eri_nblnk_ss7nblnk_tab.s4ba6lv4su2ahbfbj035xkctsi	INT8	#	The number of signalling link failures detected on a narrowband link. Planned Out-Of-Service situations commenced by deactivating the link is not counted. The counter is indexed per link.	Sum, esgtpbh, espabh, espactbh, tot
ss7SLRestorationNb	eri_nblnk_ss7nblnk_tab.s4ba6m04su2ahbfbj035xkctsi	INT8	#	The number of signalling link restorations occurred on a narrowband link. All restorations are counted including when the link is restored after a planned Out-Of-Service situation. The counter is indexed per link.	Sum, esgtpbh, espabh, espactbh, tot

7.14 NSVC Performance Indicators

- NSVC.Ericsson.UMTS.BSSGP
- NSVC.Ericsson.UMTS.NSC

7.14.1 NSVC.Ericsson.UMTS.BSSGP

BSS GPRS Protocol (GPRS) statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
bssgpDownlinkOctets	eri_nsvc_bssgp_tab.s43qwbqtneb6beplqsu5bnp4an	INT8	Octets	The total number of downlink BSSGP octets per Network Service Entity (NSE).	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsBuffBucketFull	eri_nsvc_bssgp_tab.w2vrqljkmp2ahu25j035yhsysy	INT8	Packets	Total number of IP packets being buffered due to flow control. This counter is increased when buffering IP packets and either the BSS Cell bucket is full, the BSS MS bucket is full or when the BSS PFC bucket is full.	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsBuffLlcSuspend	eri_nsvc_bssgp_tab.w2vrqllkmp2ahu25j035yhsysy	INT8	Packets	Number of IP packets buffered due to suspended Logical Link Control (LLC) between MS and SGSN.	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsBuff	eri_nsvc_bssgp_tab.w2vrqlhkmp2ahu25j035yhsysy	INT8	Packets	Total number of IP packets buffered. It is updated when downlink payload is buffered.	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsSignalling	eri_nsvc_bssgp_tab.y4p14q1rcgbnhbhs6mp5juth1j	INT8	Packets	The number of downlink BSSGP signalling	Sum, esgtpbh, espabh,

				packets per NSE.	espactbh, tot
bssgpDownlinkPackets	eri_nsvc_bssgp_tab.v4c4fuh3rqcaadn5mqt13ulojw	INT8	Packets	The total number of downlink BSSGP packets per NSE.	Sum, esgtpbh, espabh, espactbh, tot
bssgpStatusBvcUnknown	eri_nsvc_bssgp_tab.w2vrqm0kmp2ahu25j035yhsysy	INT8	#	Number of BVC unknown BSSGP-STATUS messages sent to the Base Station Controller (BSC).	Sum, esgtpbh, espabh, espactbh, tot
bssgpUplinkOctets	eri_nsvc_bssgp_tab.y5arr5xrpwcjirjtliatb2hjsb	INT8	Octets	The total number of uplink BSSGP octets per NSE.	Sum, esgtpbh, espabh, espactbh, tot
bssgpUplinkPacketsSignalling	eri_nsvc_bssgp_tab.ripupcsj3cc4esolcu1it2v36r	INT8	Packets	The number of uplink BSSGP signalling packets per NSE.	Sum, esgtpbh, espabh, espactbh, tot
bssgpUplinkPackets	eri_nsvc_bssgp_tab.to2fsqnhuvbubtum3e1hfa0vhd	INT8	Packets	The total number of uplink BSSGP packets per NSE.	Sum, esgtpbh, espabh, espactbh, tot
Total_BSSGP_Octets	{bssgpUplinkOctets}+{bssgpDownlinkOctets}	INT8	Octets	The total number of uplink and downlink BSSGP octets per NSE	Sum, esgtpbh, espabh, espactbh, tot
Total_BSSGP_Packets	{bssgpUplinkPackets}+{bssgpDownlinkPackets}	INT8	Packets	The total number of uplink and downlink BSSGP packets per NSE	Sum, esgtpbh, espabh, espactbh, tot

Total_BSSGP_Signalling_Packets	{bssgpUplinkPacketsSignalling}+{bssgpDownlinkPacketsSignalling}	INT8	Packets	The total number of uplink and downlink BSSGP signalling packets per NSE	Sum, esgtpbh, espabh, espactbh, tot

7.14.2 NSVC.Ericsson.UMTS.NSC

Network Service Virtual Connection statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
nsDownlinkPacketsDiscarded	eri_nsvc_nsc_tab.s4ba6i44su2ahbfbj035xkctsi	INT8	Packets	The number of discarded packets in the NS layer due to congestion in the upper layer of the Frame Relay stack.	Sum, esgtpbh, espabh, espactbh, tot
nsDownlinkPackets	eri_nsvc_nsc_tab.s4ba6i24su2ahbfbj035xkctsi	INT8	Packets	The number of packets successfully transmitted from the Network Service (NS) layer to the upper layer of the Frame Relay stack.	Sum, esgtpbh, espabh, espactbh, tot

7.15 Processor Performance Indicators

- Processor.Ericsson.UMTS.CPU_for_Interface_Board
- Processor.Ericsson.UMTS.Sys_Resource

7.15.1 Processor.Ericsson.UMTS.CPU_for_Interface_Board

(Obsolete in R8) Statistic measurement for the CPU usage for an Interface Board (IBxx)

KPI Name	Expression	Data Type	Units	Description	Aggregation
snCpuUsageIB	eri_processor_cpu_ifbrd_tab.r2twob0fjdcipr365bkkjrjjo2	FLOAT	%	(Obsolete in R8) Current CPU usage per	Average, avg,

					processor for an Interface Board (IBxx)	max, min

7.15.2 Processor.Ericsson.UMTS.Sys_Resource

System Resource for Interface Board (IBxx) or General Processing Board (GPB).

KPI Name	Expression	Data Type	Units	Description	Aggregation
gsnCpuUsage	eri_sys_resource_tab.w2vrqmdkmp2ahu25j035yhsysy	FLOAT	%	Current CPU usage per processor for an IBxx or GPB.	Average, avg, max, min
gsnMemUsage	eri_sys_resource_tab.w2vrqmfkmp2ahu25j035yhsysy	FLOAT	%	Current Memory usage per processor for an IBxx or GPB. (not Power and Ethernet Board (PEB)).	Average, avg, max, min
PayloadAllocationFailureG	eri_sys_resource_tab.w2vrqmhkmp2ahu25j035yhsysy	INTEGER	Packets	Number of deleted IP packets due to memory allocation failure.	Sum, avg, max, min
PayloadAllocationFailureU	eri_sys_resource_tab.w2vrqmjkmp2ahu25j035yhsysy	INTEGER	Packets	Number of deleted IP packets due to memory allocation failure.	Sum, avg, max, min

7.16 Routing_Area Performance Indicators

- Routing_Area.Ericsson.UMTS.Mobility_Management_for_UMTS
- Routing_Area.Ericsson.UMTS.Mobility_Management
- Routing_Area.Ericsson.UMTS.Session_management_for_UMTS
- Routing_Area.Ericsson.UMTS.Session_management

7.16.1 Routing_Area.Ericsson.UMTS.Mobility_Management_for_UMTS

Statistic measurements for the mobility management for the UMTS network

KPI Name	Expression	Data Type	Units	Description	Aggregation

_%_MM_SuccGprsDetachSgsn_U	100 * {MM_SuccGprsDetachSgsn_U}/{AttGprsDetachSgsn}	FLOAT	%	Percentage of successful completed SGSN-initiated GPRS detach procedures within this SGSN area.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_MM_SuccNormalIntraSgsnRaUpdate_U	100 * {MM_SuccNormalIntraSgsnRaUpdate_U}/{MM_AttNormalIntraSgsnRaUpdate_U}	FLOAT	%	Percentage of successful normal intra-SGSN RA Update procedures initiated in this SGSN.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccGprsAttach	100 * {SuccGprsAttach}/{AttGprsAttach}	FLOAT	%	Percentage of successful performed GPRS Attach procedures initiated in this SGSN area.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccInterSgsnRaUpdate	100 * {SuccInterSgsnRaUpdate}/{AttInterSgsnRaUpdate}	FLOAT	%	Percentage of successful completed Inter-SGSN Routing Area Update Procedures initiated in this SGSN area.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccIntraSgsnRaUpdate	100 * {SuccIntraSgsnRaUpdate}/{AttIntraSgsnRaUpdate}	FLOAT	%	Percentage of successful performed Intra-SGSN Routing Area Update procedures initiated in this SGSN area.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccPsPagingProcIu	100 * {SuccPsPagingProcIu}/{AttPsPagingProcIu}	FLOAT	%	Percentage of successful PS paging procedures that are initiated at the SGSN, over the Iu interface.	Average, avg, es3gtpbh, es3pabh, es3pactbh
AttGprsAttach	eri_ra_mobmgmtumts_tab.y44hdol6obckqbp0nc5qb6fi44	INT8	#	Attempted GPRS Attach procedures initiated in this SGSN area. Both sending and re-sending from MSs are counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttGprsDetachMs	eri_ra_mobmgmtumts_tab.tie3jpabbfc41u4lls02byxgp0	INT8	#	MS initiated GPRS Detach procedures within the SGSN area. Both sending and re-sending from MSs are counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttGprsDetachSgsn	eri_ra_mobmgmtumts_tab.t5dra16ojtcedu4i00lblanm	INT8	#	Attempted GPRS Detach procedures initiated by	Sum, es3gtpbh, es3pabh, es3pactbh, tot

	5w			SGSN. The counter is not incremented when re-sending Detach Request to the MS.	
AttInterSgsnRaUpdate	eri_ra_mobmgmtumts_tab.xayw1x50nhc15evllbumuq6rp1	INT8	#	Attempted Inter-SGSN Routing Area Update procedures initiated in this SGSN area. Both sending and re-sending from MSs are counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttIntraSgsnRaUpdate	eri_ra_mobmgmtumts_tab.uofyndj1hnbfcs1nrrqcqsh1bs	INT8	#	Attempted Intra-SGSN Routing Area Update procedures initiated in this SGSN area. Both sending and re-sending from MSs are counted. All types of Intra-SGSN RA Update requests are counted: Normal RA Update, Periodic RA Update and RA Update acting as resume of a suspended MS.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttPsPagingProcIu	eri_ra_mobmgmtumts_tab.xflochgpufc2edtlu2hovbsm1y	INT8	#	Total number of PS paging procedures that are initiated at the SGSN, over the Iu interface. A paging procedure means that the counter is incremented once when sending the first set of paging (that is 3 paging messages with new P-TMSI and possibly 2 paging messages with old P-TMSI). A new paging set (triggered by a new DL PDU) is regarded as a new procedure. Paging with IMSI (due to abnormal situation) is also regarded as a new procedure.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_AttNormalIntraSgsnRaUpdate_U	eri_ra_mobmgmtumts_tab.t1x5uptpigcltbbgqtwgsxqd	INT8	#	The number of attempted normal intra-SGSN RA	Sum, es3gtpbh, es3pabh, es3pactbh, tot

	xj			Update procedures initiated in this SGSN. Periodic RA updates are not counted. Resending from MSs are also counted.	
MM_NbrActAttachedSubRA_U	eri_ra_mobmgmtumts_tab.srxxtpk3robu2d0muuvuyfrsqe	INTEGER	#	The number of attached subscribers per RA within this SGSN. Default Alarm Triggering Level: 90pc of the limit for attached subscribers depending on HW and the size of the scalable SGSN. Default Alarm Clearing Level: 85pc of the limit for attached subscribers depending on HW and the size of the scalable SGSN. Severity: Minor Default Supervision Active: False	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
MM_SuccFirstPsPagingIu	eri_ra_mobmgmtumts_tab.s4ba6g24su2ahbfbj035xkctsi	INT8	#	Number of successful first paging messages in the PS paging procedure.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_SuccGprsDetachSgsn_U	eri_ra_mobmgmtumts_tab.u0fu6guwsmc25rr1t2qukmoqwe	INT8	#	The number of successfully completed SGSN-initiated GPRS detach procedures within this SGSN area.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_SuccNormalIntraSgsnRaUpdate_U	eri_ra_mobmgmtumts_tab.uwyo12lontbqftd3ta32y3u1bs	INT8	#	The number of successfully performed normal intra-SGSN RA Update procedures initiated in this SGSN. Periodic RA updates and RA updates acting as resume of a suspended MS are not counted. The counter is not stepped when resending RA Update Accept to the MS.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccGprsAttach	eri_ra_mobmgmtumts_tab.s2untfv5vbbgoc5dr3cvc356a0	INT8	#	Successfully performed GPRS Attach procedures initiated in this SGSN area.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

SuccInterSgsnRaUpdate	eri_ra_mobmgmtumts_tab.rab42h4uiob41u3xquyt45ce0b	INT8	#	Successfully completed Inter-SGSN Routing Area Update Procedures initiated in this SGSN area.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccIntraSgsnRaUpdate	eri_ra_mobmgmtumts_tab.xugos6cvowbtybhhgyfdlspphI	INT8	#	successfully performed Intra-SGSN Routing Area Update procedures initiated in this SGSN area.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccPsPagingProcIu	eri_ra_mobmgmtumts_tab.uwxn35pjbobfndnkjh0wo2lfbv	INT8	#	Total number of successful PS paging procedures that are initiated at the SGSN, over the Iu interface.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

7.16.2 Routing_Area.Ericsson.UMTS.Mobility_Management

Statistic measurements for the mobility management

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_MM_SuccCombiInterSgsnRaUpdate_G	100 * {MM_SuccCombiInterSgsnRaUpdate_G}/{MM_AttCombiInterSgsnRaUpdate_G}	FLOAT	%	Percentage of successful combined RA/LA updates (inter-SGSN) procedures initiated in the SGSN.	Average, avg, esgtpbh, espabh, espactbh
_%_MM_SuccCombiIntraSgsnRaUpdate_G	100 * {MM_SuccCombiIntraSgsnRaUpdate_G}/{MM_AttCombiIntraSgsnRaUpdate_G}	FLOAT	%	Percentage of successful combined RA/LA updates (intra-SGSN) procedures initiated in the SGSN.	Average, avg, esgtpbh, espabh, espactbh
_%_MM_SuccGprsDetachSgsn	100 * {MM_SuccGprsDetachSgsn}/{AttGprsDetachSgsn}	FLOAT	%	Percentage of successful completed SGSN-initiated GPRS detach procedures within this SGSN area.	Average, avg, esgtpbh, espabh, espactbh
_%_MM_SuccNormalIntraSgsnRaUpdate_G	100 * {MM_SuccNormalIntraSgsnRaUpdate_G}/{MM_AttNormalIntraSgsnRaUpdate_G}	FLOAT	%	Percentage of successful normal intra-SGSN Routing Area Update procedures initiated in this SGSN.	Average, avg, esgtpbh, espabh, espactbh

_%_SuccGprsAttach	100 * {SuccGprsAttach}/{AttGprsAttach}	FLOAT	%	Percentage of successful performed GPRS Attach procedures initiated in this SGSN area.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccInterSgsnRaUpdate	100 * {SuccInterSgsnRaUpdate}/{AttInterSgsnRaUpdate}	FLOAT	%	Percentage of successful completed Inter-SGSN Routing Area Update Procedures initiated in this SGSN area.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccIntraSgsnRaUpdate	100 * {SuccIntraSgsnRaUpdate}/{AttIntraSgsnRaUpdate}	FLOAT	%	Percentage of successful performed Intra-SGSN Routing Area Update procedures initiated in this SGSN area.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccPsPagingProcGb	100 * {SuccPsPagingProcGb}/{AttPsPagingProcGb}	FLOAT	%	Percentage of successful PS paging procedures that are initiated at the SGSN, over the Gb interface.	Average, avg, esgtpbh, espabh, espactbh
AttGprsAttach	eri_ra_mobmgmt_tab.xi1yvg0hdabufuwkwjlqt4ggsc	INT8	#	Attempted GPRS Attach procedures initiated within this SGSN area. Both sending and re-sending from MSs are counted.	Sum, esgtpbh, espabh, espactbh, tot
AttGprsDetachMs	eri_ra_mobmgmt_tab.x6ucurtpqxbils2q0v2qu4h2vh	INT8	#	MS initiated GPRS Detach procedures within the SGSN area. Both sending and re-sending from MSs are counted.	Sum, esgtpbh, espabh, espactbh, tot
AttGprsDetachSgsn	eri_ra_mobmgmt_tab.u5ux4s3trrcbbuepsg5ixpjsre	INT8	#	Attempted GPRS detach procedures initiated by SGSN.	Sum, esgtpbh, espabh, espactbh, tot
AttInterSgsnRaUpdate	eri_ra_mobmgmt_tab.ra0owpukn4c1tbpesapxcuty15	INT8	#	Attempted Inter-SGSN Routing Area Update procedures initiated in this SGSN area. Both sending and re-sending from MSs are counted.	Sum, esgtpbh, espabh, espactbh, tot
AttIntraSgsnRaUpdate	eri_ra_mobmgmt_tab.xuw3tvdj4rcaudqvvg3docn4w6	INT8	#	Attempted Intra-SGSN Routing Area Update	Sum, esgtpbh, espabh, espactbh, tot

				procedures initiated in this SGSN area. Both sending and re-sending from MSs are counted. All types of Intra-SGSN RA Update requests are counted: Normal RA Update, Periodic RA Update and RA Update acting as resume of a suspended MS.	
AttPsPagingProcGb	eri_ra_mobmgmt_tab.rjws ajcr6pbembadurumu3lmqp	INT8	#	Total number of Packet-Switched (PS) paging procedures that are initiated at the SGSN, over the Gb interface. A paging procedure means that the counter is incremented once when sending the first set of paging (that is 3 paging messages with new P-TMSI and possibly 2 paging messages with old P-TMSI). A new paging set (triggered by a new DL PDU) is regarded as a new procedure. Paging with IMSI (due to abnormal situation) is also regarded as a new procedure.	Sum, esgtpbh, espabh, espactbh, tot
MM_AttCombiInterSgsnRa Update_G	eri_ra_mobmgmt_tab.x52a ov52p3bspsn5ba5glsdyg5	INT8	#	The number of combined RA/LA updates (inter-SGSN) procedures initiated in the SGSN.	Sum, esgtpbh, espabh, espactbh, tot
MM_AttCombiIntraSgsnRa Update_G	eri_ra_mobmgmt_tab.trg2 nho6n3chfcmxg5ydjjo6ao	INT8	#	The number of combined RA/LA updates (intra-SGSN) procedures initiated in the SGSN.	Sum, esgtpbh, espabh, espactbh, tot
MM_AttImsiCombiInterSgs nRaUpdate_G	eri_ra_mobmgmt_tab.w4k soa1kthcbjt20trd6j2ogfo	INT8	#	The number of combined RA/LA updates with IMSI attach (inter-SGSN) procedures initiated in the SGSN.	Sum, esgtpbh, espabh, espactbh, tot

MM_AttImsiCombiIntraSgsnRaUpdate_G	eri_ra_mobmgmt_tab.uilxox0i3qbtebqdeh1y0n2d2x	INT8	#	The number of combined RA/LA updates with IMSI attach (intra-SGSN) procedures initiated in the SGSN.	Sum, esgtpbh, espabh, espactbh, tot
MM_AttIntraSgsnRaUpdate_G	eri_ra_mobmgmt_tab.wxlibrwalcbd0ryj12r6iotf2v	INT8	#	Obsolete in R6.0. The number of attempted Intra-SGSN Routing Area Update procedures initiated in this SGSN area. Both sending and resending from MSs are counted. All types of Intra-SGSN RA Update requests are counted: Normal RA Update, Periodic RA Update and RA Update acting as resume of a suspended MS.	Sum, esgtpbh, espabh, espactbh, tot
MM_AttNormalIntraSgsnRaUpdate_G	eri_ra_mobmgmt_tab.t64ybmeei6c0mb2wurrt4y5adc	INT8	#	The number of attempted normal intra-SGSN RA Update procedures initiated in this SGSN. Periodic RA updates are not counted. Resending from MSs are also counted.	Sum, esgtpbh, espabh, espactbh, tot
MM_NbrActAttachedSubRA_G	eri_ra_mobmgmt_tab.tux4smftsbbdjrrdtwl0c1cao6	INTEGER	#	The number of attached subscribers per RA within this SGSN. Default Alarm Triggering Level: 90pc of the limit for attached subscribers depending on HW and the size of the scalable SGSN. Default Alarm Clearing Level: 85pc of the limit for attached subscribers depending on HW and the size of the scalable SGSN. Severity: Minor Default Supervision Active: True	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
MM_SuccCombiInterSgsnRaUpdate_G	eri_ra_mobmgmt_tab.r4bp6hia4pcsfcpoijxrp65byc	INT8	#	The number of successfully performed combined RA/LA	Sum, esgtpbh, espabh, espactbh, tot

				updates (inter-SGSN) procedures initiated in the SGSN.	
MM_SuccCombiIntraSgsnRaUpdate_G	eri_ra_mobmgmt_tab.xuen311xwwbisrsvppmwshatl3	INT8	#	The number of successfully performed combined RA/LA updates (intra-SGSN) procedures initiated in the SGSN.	Sum, esgtpbh, espabh, espactbh, tot
MM_SuccFirstPsPagingGb	eri_ra_mobmgmt_tab.s4ba6g04su2ahbfbj035xkctsi	INT8	#	Number of successful first paging messages in the Packet-Switched (PS) paging procedure.	Sum, esgtpbh, espabh, espactbh, tot
MM_SuccGprsDetachSgsn	eri_ra_mobmgmt_tab.ssxyejrgmhbratp04nyht6adp1	INT8	#	The number of successfully completed SGSN-initiated GPRS detach procedures within this SGSN area.	Sum, esgtpbh, espabh, espactbh, tot
MM_SuccNormalIntraSgsnRaUpdate_G	eri_ra_mobmgmt_tab.u0iipkftngb5msww4isos2gyii	INT8	#	The number of successfully performed normal intra-SGSN Routing Area Update procedures initiated in this SGSN. Periodic RA Updates and RA Updates acting as resume of a suspended MS are not counted. The counter is not stepped when resending RA Update Accept to the MS.	Sum, esgtpbh, espabh, espactbh, tot
SuccGprsAttach	eri_ra_mobmgmt_tab.t6j1omoq6scw5d30v64vd0t3xv	INT8	#	Successfully performed GPRS Attach procedures initiated in this SGSN area.	Sum, esgtpbh, espabh, espactbh, tot
SuccInterSgsnRaUpdate	eri_ra_mobmgmt_tab.syyl1uvpaicvleurr1w0mva0jn	INT8	#	Successfully completed Inter-SGSN Routing Area Update Procedures initiated in this SGSN area.	Sum, esgtpbh, espabh, espactbh, tot
SuccIntraSgsnRaUpdate	eri_ra_mobmgmt_tab.x50e6naexjbuhuf0oifgqfgpya	INT8	#	successfully performed Intra-SGSN Routing Area Update procedures initiated in this SGSN area.	Sum, esgtpbh, espabh, espactbh, tot

| SuccPsPagingProcGb | eri_ra_mobmgmt_tab.xwfij eoqfyckudijohyc6kmg1w | INT8 | # | Total number of successful PS paging procedures that are initiated at the SGSN, over the Gb interface. | Sum, esgtpbh, espabh, espactbh, tot |

7.16.3 Routing_Area.Ericsson.UMTS.Session_management_for_UMTS

Statistic measurements for the session management for the UMTS network.

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_SM_SuccActPdpContextRa_U	100 * {SM_SuccActPdpContextRa_U}/{SM_AttActPdpContextRa_U}	FLOAT	%	Percentage of successfully completed primary PDP context activations per RA within this SGSN. For these context activations, the GGSN is updated successfully.	Average, avg, es3gtpbh, es3pabh, es3pactbh
SM_AttActPdpContextRa_U	eri_ra_sesmgmtumts_tab.s4ba6jn4su2ahbfbj035xkctsi	INT8	#	The number of attempted primary PDP context activation procedures per RA within this SGSN. These include the static as well as the dynamic PDP addresses. The counter is incremented as the SGSN identifies the message as a RIL3 Activate PDP Context Request message.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_SuccActPdpContextRa_U	eri_ra_sesmgmtumts_tab.s4ba6jt4su2ahbfbj035xkctsi	INT8	#	The number of successfully completed primary PDP context activations per RA within this SGSN. For these context activations, the GGSN is updated successfully.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

7.16.4 Routing_Area.Ericsson.UMTS.Session_management

Statistic measurements for the session management.

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_SM_SuccActPdpContextRa_G	100 * {SM_SuccActPdpContextRa_G}/{SM_AttActPdpContextRa_G}	FLOAT	%	Percentage of successfully completed primary PDP context activations per RA within this SGSN. For these context activations, the GGSN is updated successfully.	Average, avg, esgtpbh, espabh, espactbh
SM_AttActPdpContextRa_G	eri_ra_sesmgmt_tab.s4ba6jl4su2ahbfbj035xkctsi	INT8	#	The number of attempted primary PDP context activation procedures per RA within this SGSN. These include the static as well as the dynamic PDP addresses. The counter is incremented as the SGSN identifies the message as a RIL3 Activate PDP Context Request message.	Sum, esgtpbh, espabh, espactbh, tot
SM_SuccActPdpContextRa_G	eri_ra_sesmgmt_tab.s4ba6jp4su2ahbfbj035xkctsi	INT8	#	The number of successfully completed primary PDP context activations per RA within this SGSN. For these context activations, the GGSN is updated successfully.	Sum, esgtpbh, espabh, espactbh, tot

7.17 Security_Association Performance Indicators

- [Security_Association.Ericsson.UMTS.IP_Security_Association](#)

7.17.1 Security_Association.Ericsson.UMTS.IP_Security_Association

IP security association statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ipsecSaCurrentBytes	eri_secassoc_ipsecassoc_tab.vjiptiudx6barcwmac51vund2n	INT8	Bytes	Number of bytes transferred on this security association (SA) so far	Sum, esgtpbh, espabh, espactbh, tot
ipsecSaPacketsNotOk	eri_secassoc_ipsecassoc_tab.u5hivterehcrhcwlx3yu2tfw44	INT8	Packets	Number of incorrect packets processed associated with the current security association (SA)	Sum, esgtpbh, espabh, espactbh, tot
ipsecSaPacketsOk	eri_secassoc_ipsecassoc_tab.uuer12wahjcg6uw1cbl3dye0jl	INT8	Packets	Number of correct packets processed associated with the current security association (SA)	Sum, esgtpbh, espabh, espactbh, tot

7.18 SGSN Performance Indicators

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7.18.1 SGSN.Ericsson.UMTS.BSSGP

BSS GPRS Protocol (GPRS) statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
bssgpAttResumeProc	eri_sgsn_bssgp_tab.uypkffjh3gbf5ryglx0diffdww	INT8	#	The number of attempted BSS GPRS Protocol (BSSGP) resume procedures.	Sum, esgtpbh, espabh, espactbh, tot
bssgpAttSuspendProc	eri_sgsn_bssgp_tab.rimatlqxrgcshulv6fd6jmbj1e	INT8	#	The total number of downlink BSSGP suspend procedures	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsBuffMobileSuspend	eri_sgsn_bssgp_tab.w2vrqlnkmp2ahu25j035yhsysy	INT8	#	Counter will be increased when buffering packets and the last reason for delay was the MS that has suspended GPRS.	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsBuffSnapshot	eri_sgsn_bssgp_tab.w2vrqlpkmp2ahu25j035yhsysy	INT8	Packets	Number of IP packets currently being buffered.	Average, esgtpbh, espabh, espactbh, tot

bssgpDownlinkPacketsDiscardedBucketFull	eri_sgsn_bssgp_tab.w2vrqlrkmp2ahu25j035yhsysy	INT8	Packets	Total number of discarded IP packets due to Bucket Full.	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsDiscardedBvcBlocked	eri_sgsn_bssgp_tab.w2vrqltkmp2ahu25j035yhsysy	INT8	Packets	Number of discarded packets due to blocked BVCs.	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsDiscardedMobileSuspend	eri_sgsn_bssgp_tab.w2vrqlvkmp2ahu25j035yhsysy	INT8	Packets	Number of discarded IP packets due to suspended mobile.	Sum, esgtpbh, espabh, espactbh, tot
bssgpDownlinkPacketsDiscardLlcSuspended	eri_sgsn_bssgp_tab.w2vrqlxkmp2ahu25j035yhsysy	INT8	Packets	Number of Internet Protocol (IP) packets discarded due to suspended LLC between Mobile Station (MS) and Serving GPRS Support Node (SGSN).	Sum, esgtpbh, espabh, espactbh, tot

7.18.2 SGSN.Ericsson.UMTS.CAMEL_UMTS

Statistic measurements for UMTS CAMEL dialogs

KPI Name	Expression	Data Type	Units	Description	Aggregation
AttCamelDialogues	eri_sgsn_camel_umts_tab.vod53fjkvvc6fcr5dhdlue4lyx	INT8	#	Number of CAMEL dialogue attempts.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
FailDialoguesScf	eri_sgsn_camel_umts_tab.ykxkg1a5wvc1fblpxabj4wmv2h	INT8	#	Number of failed CAMEL dialogues, error or reject from gsmSCF.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
FailDialoguesSsf	eri_sgsn_camel_umts_tab.ymhs3j56phcudrqnv5eajdnuqr	INT8	#	Number of failed CAMEL dialogues, aborted locally by gprsSSF.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

7.18.3 SGSN.Ericsson.UMTS.CAMEL

Statistic measurements for the CAMEL dialogs

KPI Name	Expression	Data Type	Units	Description	Aggregation
AttCamelDialogues	eri_sgsn_camel_tab.rb0vh64uxbchrbkayektk2iwv3	INT8	#	Number of CAMEL dialogue attempts.	Sum, esgtpbh, espabh, espactbh, tot
FailDialoguesScf	eri_sgsn_camel_tab.wdn2bglcwccrcbhpnhnkwffv2i	INT8	#	Number of failed CAMEL dialogues, error or reject from gsmSCF.	Sum, esgtpbh, espabh, espactbh, tot
FailDialoguesSsf	eri_sgsn_camel_tab.y1nk0i1ak2c1mbxg0mr42xd0ry	INT8	#	Number of failed CAMEL dialogues, aborted locally by gprsSSF.	Sum, esgtpbh, espabh, espactbh, tot

7.18.4 SGSN.Ericsson.UMTS.EIR

IMEI verification related response from EIR

KPI Name	Expression	Data Type	Units	Description	Aggregation
nbrOfBlackAnswerInSgsn	eri_sgsn_eir_tab.ycete0obvjbrgbno3d4w6supj5	INT8	#	The number of black list answers received from the EIR. Note: The counter contains a total count for both GSM and WCDMA.	Sum, esgtpbh, espabh, espactbh, tot
nbrOfCheckIMEIRequest	eri_sgsn_eir_tab.siadxa2n5ecypu3ohrda1hlyxu	INT8	#	The number of check IMEI requests sent to the EIR. Note that the counter contains a total count for both GSM and WCDMA.	Sum, esgtpbh, espabh, espactbh, tot
nbrOfGreyAnswerInSgsn	eri_sgsn_eir_tab.wfwihu4wpobg4cc3ruis2eeqkm	INT8	#	The number of grey list answers received from the EIR. Note: The counter contains a total count for both GSM and WCDMA.	Sum, esgtpbh, espabh, espactbh, tot
nbrOfUnknownAnswerInSgsn	eri_sgsn_eir_tab.rjjwqie3yebxbcyfqdhwgv14gr	INT8	#	The number of unknown IMEI answers received from the EIR. Note that the	Sum, esgtpbh, espabh, espactbh,

				counter contains a total count for both GSM and WCDMA.	tot
nbrOfWhiteAnswerInSgsn	eri_sgsn_eir_tab.vvh5xdrrnib44rodpynojad4pr	INT8	#	The number of white list answers received from the EIR. Note! The counter contains a total count for both GSM and WCDMA.	Sum, esgtpbh, espabh, espactbh, tot

7.18.5 SGSN.Ericsson.UMTS.GSN_Overload_Protection

Statistic measurements for the GSN Overload Protection

KPI Name	Expression	Data Type	Unit s	Description	Aggregation
gsnOverloadProtectionIgnoredExistingConnections	eri_sgsn_gsnovldprot_tab.xpubafb50xbnkdf4k15pdoxw10	INT8	#	Counter is incremented when a request for an existing connection is ignored on the GPB with local functions, that is, it processes traffic control functions, which may be distributed onto all GPBs.	Sum, esgtpbh, espabh, espactbh, tot
gsnOverloadProtectionIgnoredNewConnections	eri_sgsn_gsnovldprot_tab.wonj1vkai6burrn2c1f3uq0luv	INT8	#	Counter is incremented when a request for a new connection is ignored	Sum, esgtpbh, espabh, espactbh, tot

				on the GPB with local functions, that is, it processes traffic control functions, which may be distributed onto all GPBs.	
gsnOverloadProtectionSs7MessageReject_1	eri_sgsn_gsnovldprot_tab.xtbh2e45mx2ahuda0035yecwke	INTEGER	#	Counter is incremented when an outgoing TCAP or SCCP request message has been rejected by SGSN due to an overload situation (Priority 1).	Sum, esgtpbh, espabh, espactbh, tot
gsnOverloadProtectionSs7MessageReject_2	eri_sgsn_gsnovldprot_tab.xtbh2e65mx2ahuda0035yecwke	INTEGER	#	Counter is incremented when an outgoing TCAP or SCCP request message has been rejected by SGSN due to an overload situation (Priority 2).	Sum, esgtpbh, espabh, espactbh, tot

gsnOverloadProtectionSs7MessageReject_3	eri_sgsn_gsnovldprot_tab.xtbh2eb5mx2ahuda0035yecwke	INTEGER	#	Counter is incremented when an outgoing TCAP or SCCP request message has been rejected by SGSN due to an overload situation (Priority 3).	Sum, esgtpbh, espabh, espactbh, tot
gsnOverloadProtectionSs7MessageReject_4	eri_sgsn_gsnovldprot_tab.y1pbfmv5mx2ahuda0035yecwke	INTEGER	#	Counter is incremented when an outgoing TCAP or SCCP request message has been rejected by SGSN due to an overload situation (Priority 4).	Sum, esgtpbh, espabh, espactbh, tot
gsnOverloadProtectionSs7MessageReject_5	eri_sgsn_gsnovldprot_tab.ybcuign5mx2ahuda0035yecwke	INTEGER	#	Counter is incremented when an outgoing TCAP or SCCP request message has been rejected by SGSN due to an overload situation (Priority 5).	Sum, esgtpbh, espabh, espactbh, tot

gsnOverloadProtectionSs7MessageReject	eri_sgsn_gsnovldprot_tab.upil2vxn4wcdarntrox1jbqubj	INT8	#	Counter is incremented when an outgoing TCAP or SCCP request message has been rejected by SGSN due to an overload situation (Total all priorities 1-5).	Sum, esgtpbh, espabh, espactbh, tot

7.18.6 SGSN.Ericsson.UMTS.GTP_payload_for_UMTS

Statistic measurements for the GPRS Tunnelling Protocol data on the UMTS network

KPI Name	Expression	Data Type	Units	Description	Aggregation
GTPDLPktBuffU	eri_sgsn_gtppayloadumts_tab.w2vrqm2kmp2ahu25j035yhsysy	INT8	Packets	Number of IP packets currently being buffered in downlink direction.	Average, es3gtpbh, es3pabh, es3pactbh, tot
GTPMBMSOutDataPktIu	eri_sgsn_gtppayloadumts_tab.w2vrqm6kmp2ahu25j035yhsysy	INT8	#	Number of MBMS bearer context GTP data PDUs which have been generated by the GTP-U protocol entity on the Iu interface.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
GTPTotalDLPktBuffU	eri_sgsn_gtppayloadumts_tab.w2vrqmbkmp2ahu25j035yhsysy	INT8	Packets	Total number of IP packets buffered.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
GTPtpuInDataOctIu	eri_sgsn_gtppayloadumts_tab.xmnlgcua4cbd3usgb6hflpmfnq	INT8	Octets	Number of octets of incoming GTP data packets on the Iu	Sum, es3gtpbh, es3pabh,

KPI Name	Expression	Data Type	Units	Description	Aggregation
				interface	es3pactbh, pcl95, tot
GTPtpuInDataPktIu	eri_sgsn_gtppayloadumts_tab.r5q3rokpw4b4uuibn2xjx24wo4	INT8	Packets	Number of incoming GTP data packets on the Iu interface	Sum, es3gtpbh, es3pabh, es3pactbh, tot
GTPtpuOutDataOctIu	eri_sgsn_gtppayloadumts_tab.uetfv3tsg0clibn4kdjh0fdscc	INT8	Octets	Number of octets of outgoing GTP data packets on the Iu interface	Sum, es3gtpbh, es3pabh, es3pactbh, pcl95, tot
GTPtpuOutDataPktIu	eri_sgsn_gtppayloadumts_tab.vfudbywodacbteydsp0rfjk21d	INT8	Packets	Number of outgoing GTP data packets on the Iu interface	Sum, es3gtpbh, es3pabh, es3pactbh, tot
Tot_DatOctIu	eri_sgsn_gtppayloadumts_tab.x4xkdnm6tuckqef3kwujn11kg1	INT8	Octets	Total incoming and outgoing GTP octets	Sum, es3gtpbh, es3pabh, es3pactbh, pcl95, tot

7.18.7 SGSN.Ericsson.UMTS.GTP_payload

Statistic measurements for the GPRS Tunnelling Protocol data

KPI Name	Expression	Data Type	Units	Description	Aggregation
InDataOctGn	eri_sgsn_gtppayload_tab.ta1d2bwbx2bq6deiek5wk3qsqx	INT8	Octets	Number of octets of incoming GTP data packets on the Gn interface	Sum, esgtpbh, espabh, espactbh, pcl95, tot
InDataPktGn	eri_sgsn_gtppayload_tab.ues0jsidbqcjed6dyjmvhwsyd0	INT8	Packets	Number of incoming GTP data packets on the Gn interface	Sum, esgtpbh, espabh, espactbh, tot
MBMSInDataPktGn	eri_sgsn_gtppayload_tab.w2vrqm4kmp2ahu25j035yhsysy	INT8	#	Number of GTP data PDUs for MBMS bearer contexts which have been accepted and processed by the GTP entity on the Gn interface.	Sum, esgtpbh, espabh, espactbh, tot
OutDataOctGn	eri_sgsn_gtppayload_tab.rog6u334brbuer2kjy510tb5kh	INT8	Octets	Number of octets of outgoing GTP data packets on the Gn interface	Sum, esgtpbh, espabh, espactbh,

					pcl95, tot
OutDataPktGn	eri_sgsn_gtppayload_tab.vega6sailpbnbd4bsmexx53tcy	INT8	Packets	Number of outgoing GTP data packets on the Gn interface	Sum, esgtpbh, espabh, espactbh, tot
PayloadgtpuErrorPkt	eri_sgsn_gtppayload_tab.so4ru3owonbyfddknbfpjxikjv	INT8	Packets	Payload length indicated in GTP header inconsistent with actual length	Sum, esgtpbh, espabh, espactbh, tot
Tot_DataOctGn	eri_sgsn_gtppayload_tab.y3jlms6b3xbmpbyhpaogfi12hf	INT8	Octets	Total incoming and outgoing GTP octets	Sum, esgtpbh, espabh, espactbh, pcl95, tot
Tot_DataPktGn	{InDataPktGn} + {OutDataPktGn}	INT8	Packets	Number of incoming and outgoing GTP data packets on the Gn interface	Sum, esgtpbh, espabh, espactbh, tot

7.18.8 SGSN.Ericsson.UMTS.Logical_link_control

Statistic measurements for the Logical Link Control (LLC)

KPI Name	Expression	Data Type	Units	Description	Aggregation
errLlcFramesDetectedBySgsn	eri_sgsn_loglnkctrl_tab.wuqms1fpyocg1e1ont4mq3nstf	INT8	Frames	Number of erroneously received LLC frames in case of error detection in the SGSN (uplink transmission, SGSN).	Sum, esgtpbh, espabh, espactbh, tot
nbrLlcFramesReceived	eri_sgsn_loglnkctrl_tab.vnipk34xfsb1ncwflwivvasxmm	INT8	Frames	Number of received LLC frames by the SGSN.	Sum, esgtpbh, espabh, espactbh, tot
nbrLlcFramesSent	eri_sgsn_loglnkctrl_tab.ry3aliofhvc4nuysqtfcyfdn0v	INT8	Frames	Number of LLC frames sent by the SGSN.	Sum, esgtpbh, espabh, espactbh, tot

7.18.9 SGSN.Ericsson.UMTS.MBMS_PerfMonitoring

Multimedia Broadcast Multiple Service (MBMS) statistics.

KPI Name	Expression	Data Type	Units	Description	Aggregation
SM_NbrActSessions	eri_mbms_perfmon_tab.w2vrqn0kmp2ahu25j035yhsysy	INT8	#	Number of active MBMS sessions in this SGSN.	Average, es3gtpbh, es3pabh, es3pactbh, tot

7.18.10 SGSN.Ericsson.UMTS.Mobility_Management_for_UMTS

Statistic measurements for the mobility management for the UMTS network

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_NbrHomeSub	100 * {NbrHomeSub}/{NbrActAttachedSub}	FLOAT	%	Percentage of GPRS home subscribers located in the SGSN location register.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_NbrVisitingForeign	100 * {NbrVisitingForeign}/{NbrActAttachedSub}	FLOAT	%	Percentage of visiting foreign GPRS subscribers located in the SGSN location register.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_NbrVisitingNatSub	100 * {NbrVisitingNatSub}/{NbrActAttachedSub}	FLOAT	%	Percentage of visiting national GPRS subscribers located in the SGSN location register.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_RELOC_FailInterSGSNInt	100 * {RELOC_FailInterSGSNInt}/{RELOC_AttInterSGSN}	FLOAT	%	Percentage of failed Inter-SGSN SRNS Relocation procedures, due to internal reasons, counted in the old	Average, avg, es3gtpbh, es3pabh, es3pactbh

				SGSN.	
_%_RELOC_FailIntraSGSNInt	100 * {RELOC_FailIntraSGSNInt}/{RELOC_AttIntraSGSN}	FLOAT	%	Percentage of failed Intra-SGSN SRNS Relocations, due to internal reasons.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_RELOC_SuccInterSGSNNew	100 * {RELOC_SuccInterSGSNNew}/{RELOC_AttInterSGSNNew}	FLOAT	%	Percentage of successful Inter-SGSN SRNS Relocation procedures. The counter is incremented when the new SGSN receives a Forward Relocation Complete Acknowledge message from the old SGSN.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_RELOC_SuccInterSGSN	100 * {RELOC_SuccInterSGSN}/{RELOC_AttInterSGSN}	FLOAT	%	Percentage of successful Inter-SGSN SRNS Relocation procedures, counted in the old SGSN.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_RELOC_SuccIntraSGSN	100 * {RELOC_SuccIntraSGSN}/{RELOC_AttIntraSGSN}	FLOAT	%	Percentage of successful Intra-SGSN SRNS Relocations.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_succGprsAttachUmts	100 * {succGprsAttachUmts}/{attGprsAttachUmts}	FLOAT	%	Percentage of successful GPRS attaches.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_succGprsDetachSgsnUmts	100 * {succGprsDetachSgsnUmts}/{attGprsDetachSgsnUmts}	FLOAT	%	Percentage of successful GPRS detaches initiated by the SGSN.	Average, avg, es3gtpbh, es3pabh, es3pactbh

_%_succInterSgsnRaUpdateUmts	100 * {succInterSgsnRaUpdateUmts}/{attInterSgsnRaUpdateUmts}	FLOAT	%	Percentage of successful inter-SGSN RA updates.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_succIntraSgsnRaUpdateUmts	100 * {succIntraSgsnRaUpdateUmts}/{attIntraSgsnRaUpdateUmts}	FLOAT	%	Percentage of successful intra-SGSN RA update procedures.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_succPacketSwitchingPagingUmts	100 * {succPacketSwitchingPagingUmts}/{attPacketSwitchingPagingUmts}	FLOAT	%	Percentage of successful PS paging procedures.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_unsuccGprsAttachUmts	100 * {unsuccGprsAttachUmts}/{attGprsAttachUmts}	FLOAT	%	Percentage of unsuccessful GPRS attach requests, that is, the number of reject messages sent.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_unsuccPacketSwitchingPagingUmts	100 * {unsuccPacketSwitchingPagingUmts}/{attPacketSwitchingPagingUmts}	FLOAT	%	Percentage of unsuccessful packet switched paging procedures within this SGSN area, that is, packed switching paging procedures that are re-started when the previous attempt has timed out.	Average, avg, es3gtpbh, es3pabh, es3pactbh
attGprsAttachUmts	eri_sgsn_mobmgmtumts_tab.s4ba6gj4su2ahbfbj035xkctsi	INT8	#	The number of attempted GPRS attach procedures initiated within this SGSN area. Resending from MSs are also counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
attGprsDetachMsUmts	eri_sgsn_mobmgmtumts_tab.s4ba6gt4su2ahbfbj035xkctsi	INT8	#	The number of attempted GPRS	Sum, es3gtpbh,

				detach procedures.	es3pabh, es3pactbh, tot
attGprsDetachSgsnUmts	eri_sgsn_mobmgmtumts_tab.s4ba6gv4su2ahbfbj035xkctsi	INT8	#	The number of attempted GPRS detach procedures initiated by the SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
attInterSgsnRaUpdateUmts	eri_sgsn_mobmgmtumts_tab.s4ba6h24su2ahbfbj035xkctsi	INT8	#	The number of attempted inter-SGSN RA update procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
attIntraSgsnRaUpdateUmts	eri_sgsn_mobmgmtumts_tab.s4ba6hb4su2ahbfbj035xkctsi	INT8	#	The number of attempted intra-SGSN RA update procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
attPacketSwitchingPagingUmts	eri_sgsn_mobmgmtumts_tab.s4ba6hh4su2ahbfbj035xkctsi	INT8	#	The number of attempted PS paging procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
IRATHO_AttInterSGSNNewGsmUmts	eri_sgsn_mobmgmtumts_tab.w2vrqnrkmp2ahu25j035yhsysy	INT8	#	Number of Inter Inter-Radio Access Technology (IRAT) PS Handover attempts in new SGSN WCDMA, including possible retransmissions.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
IRATHO_AttInterSGSNOldGsmUmts	eri_sgsn_mobmgmtumts_tab.w2vrqnvkmp2ahu25j035yhsysy	INT8	#	Number of Inter IRAT PS Handover attempts in old SGSN GSM, including possible retransmissions.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
IRATHO_AttIntraSGSNGsmUmts	eri_sgsn_mobmgmtumts_tab.w2vrqo0kmp2ahu25j035yhsysy	INT8	#	Number of Intra SGSN IRAT PS	Sum, es3gtpbh,

				Handover from GSM to WCDMA attempts, including possible retransmissions.	es3pabh, es3pactbh, tot
IRATHO_SuccInterSGSNNewGsmUmts	eri_sgsn_mobmgmtumts_tab.w2vrqo4kmp2ahu25j035yhsysy	INT8	#	Number of successful Inter IRAT PS Handovers in new SGSN when moving from GSM to WCDMA.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
IRATHO_SuccInterSGSNOldGsmUmts	eri_sgsn_mobmgmtumts_tab.w2vrqobkmp2ahu25j035yhsysy	INT8	#	Number of successful Inter IRAT PS Handovers when moving from GSM to WCDMA.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
IRATHO_SuccIntraSGSNGsmUmts	eri_sgsn_mobmgmtumts_tab.w2vrqofkmp2ahu25j035yhsysy	INT8	#	Number of successful Intra IRAT PS Handovers when moving from GSM to WCDMA.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_AttAttachAcceptNon3GPPCompU	eri_sgsn_mobmgmtumts_tab.w2vrqonkmp2ahu25j035yhsysy	INT8	#	Number of 'Attach Accept' messages that are altered during retransmission due to non Third Generation Partnership Project (3GPP) compliant UEs.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_AttAuthCiphReqNon3GPPCompU	eri_sgsn_mobmgmtumts_tab.w2vrqorkmp2ahu25j035yhsysy	INT8	#	Number of 'Authentication and Ciphering Request' messages that are altered during retransmission due to non 3GPP compliant UEs.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_AttChangeOfLocalTime_U	eri_sgsn_mobmgmtumts_tab.w2vrqovkmp2ahu25j035yhsysy	INT8	#	Incremented when SGSN detects a	Sum, es3gtpbh,

				change in offset and/or daylight savings time in SGSNs handling of MS local time.	es3pabh, es3pactbh, tot
MM_AttDetachInactiveSub_U	eri_sgsn_mobmgmtumts_tab.w2vrqoxkmp2ahu25j035yhsysy	INT8	#	Number of attempted detach of inactive subscribers procedures within this SGSN area.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_AttRauAcceptNon3GPPCompU	eri_sgsn_mobmgmtumts_tab.w2vrqp2kmp2ahu25j035yhsysy	INT8	#	Number of 'Routing Area Update Accept' messages that are altered during retransmission due to non 3GPP compliant UEs.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_AttServiceReqData_U	eri_sgsn_mobmgmtumts_tab.w2vrqp4kmp2ahu25j035yhsysy	INT8	#	Number of attempted Service request procedures of data type in the SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_AttServiceRequest_U	eri_sgsn_mobmgmtumts_tab.w2vrqp6kmp2ahu25j035yhsysy	INT8	#	Number of attempted Service request procedures of data, signalling, or paging response type, in the SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_NbrCamelSub_U	eri_sgsn_mobmgmtumts_tab.xrqlrwogv0bl0ccusk1mfkx5y3	INTEGER	#	The number of attached subscriber within this SGSN area with CAMEL service. Default Alarm Triggering Level: value of 40pc of the limit for attached subscribers depending on HW and the size of the scalable SGSN. Default Alarm	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot

				Clearing Level: value of 35pc of the limit for attached subscribers depending on HW and the size of the scalable SGSN. Severity: Minor Default Supervision Active: False	
MM_nbrDetachedInactiveSub_U	eri_sgsn_mobmgmtumts_tab.w2vrqpbkmp2ahu25j035yhsysy	INT8	#	Number of detached inactive subscribers within this SGSN area.	Average, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccAttachCC11_U	eri_sgsn_mobmgmtumts_tab.s4ba6gd4su2ahbfbj035xkctsi	INT8	#	The number of unsuccessful MM attach procedures that return cause code #11, (PLMN not allowed).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccAttachCC17_U	eri_sgsn_mobmgmtumts_tab.vuagwkr5waclpsmuq6c11n1lg3	INT8	#	The number of unsuccessful MM attach procedures, which returns cause code #17, (Network failure).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccAttachCSPSCoord_U	eri_sgsn_mobmgmtumts_tab.s4ba6gf4su2ahbfbj035xkctsi	INT8	#	The number of attach procedures being rejected due to coordination of CS and PS in a Multi-Operator Core Network (MOCN) constellation.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccInterSgsnRau_U	eri_sgsn_mobmgmtumts_tab.w2vrqpfkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM inter- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to	Sum, es3gtpbh, es3pabh, es3pactbh, tot

				the MS.	
MM_UnsuccInterSgsnRauCC10_U	eri_sgsn_mobmgmtumts_tab.w2vrqpjkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM inter- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS with cause code #10, Implicitly detached.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccInterSgsnRauCC14_U	eri_sgsn_mobmgmtumts_tab.yy0hw4g1pcca1euwpho3tcjbxl	INT8	#	The number of unsuccessful MM inter-RA update procedures, which returns cause code#14, (GPRS services not allowed in this PLMN).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccInterSgsnRauCC15_U	eri_sgsn_mobmgmtumts_tab.w2vrqpnkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM inter- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS with cause code #15, No Suitable Cells In Location Area.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccInterSgsnRauCC17_U	eri_sgsn_mobmgmtumts_tab.rcfxobbqqub2ndh1rubfvo1qbw	INT8	#	The number of unsuccessful MM inter-RA update procedures, which returns cause code#17, (Network failure).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccInterSgsnRauCC9_U	eri_sgsn_mobmgmtumts_tab.wwgvhifgw0c6aevhsuxwnhyu1x	INT8	#	The number of unsuccessful MM inter-RA update procedures, which	Sum, es3gtpbh, es3pabh, es3pactbh,

				returns cause code#9, (MS identity cannot be derived by the network).	tot
MM_UnsuccIntraSgsnRau_U	eri_sgsn_mobmgmtumts_tab.w2vrqprkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM intra- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccIntraSgsnRauCC14_U	eri_sgsn_mobmgmtumts_tab.rkx52hoqm1cjhewwhffqjdvmsk	INT8	#	The number of unsuccessful MM intra-RA update procedures, which returns cause code#14, meaning GPRS services not allowed in this PLMN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccIntraSgsnRauCC15_U	eri_sgsn_mobmgmtumts_tab.w2vrqpvkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM intra- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS with cause code #15, No Suitable Cells In Location Area.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccIntraSgsnRauCC17_U	eri_sgsn_mobmgmtumts_tab.ujmo2tfaojc5prkn432ow6t00h	INT8	#	The number of unsuccessful MM intra-RA Update procedures, which returns cause code#17, meaning network failure.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_UnsuccISRAUCSPSCoord_U	eri_sgsn_mobmgmtumts_tab.s4ba6gh4su2ahbfbj035xkctsi	INT8	#	The number of Inter SGSN Routing Area	Sum, es3gtpbh,

				Update procedures being rejected due to coordination of CS and PS in an MOCN constellation.	es3pabh, es3pactbh, tot
MM_UnsuccServiceReq_U	eri_sgsn_mobmgmtumts_tab.w2vrqq0kmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful Service Request procedures in the SGSN. It is incremented when a Service Reject message is sent.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
MM_USucIntraSgsnRAUCSPSCoord_U	eri_sgsn_mobmgmtumts_tab.w2vrqpxkmp2ahu25j035yhsysy	INT8	#	Number of intra-SGSN RAU procedures being rejected due to the coordination of CS and PS in an MOCN constellation.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
NbrActAttachedSub	eri_sgsn_mobmgmtumts_tab.wxxn3mxykvbk6cxv0ux0Igb2du	INTEGER	#	Attached subscribers within this SGSN area. This gauge reflects the correct number of attached subscribers in the node. The gauge will then be incremented and decremented in other cases as well (that is Inter-SGSN RA Update, Implicitly Detached, and so on.)	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
NbrHomeSub	eri_sgsn_mobmgmtumts_tab.txsdpderubca6eocuo5viglk46	INTEGER	#	GPRS home subscribers located in the SGSN location register. The GPRS MM state of this subscriber is GMM_REGISTERED or GMM_DEREGISTERE	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot

				D. Only GPRS subscribers that are homed in the same GPRS network are considered.	
NbrVisitingForeign	eri_sgsn_mobmgmtumts_tab.uj32lrt4mhcslud1l3hrhr3wpi	INTEGER	#	Visiting foreign GPRS subscribers located in the SGSN location register. The GPRS MM state of this subscriber is GMM_REGISTERED or GMM_DEREGISTERED. Only GPRS subscribers that are homed in a GPRS network of a foreign country are considered.	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
NbrVisitingNatSub	eri_sgsn_mobmgmtumts_tab.upden5giltb44ux1n6bod004u0	INTEGER	#	Visiting national GPRS subscribers located in the SGSN location register. The GPRS MM state of this subscriber is GMM_REGISTERED or GMM_DEREGISTERED. Only GPRS subscribers that are homed in a partner GPRS network of the same country are considered.	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
RELOC_AttInterSGSNNew	eri_sgsn_mobmgmtumts_tab.s4ba6lp4su2ahbfbj035xkctsi	INT8	#	The number of attempted Inter-SGSN SRNS Relocation procedures, counted in the new SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
RELOC_AttInterSGSN	eri_sgsn_mobmgmtumts_tab.s4ba6lf4su2ahbfbj035xkctsi	INT8	#	The number of attempted Inter-	Sum, es3gtpbh,

				SGSN SRNS Relocation procedures.	es3pabh, es3pactbh, tot
RELOC_AttIntraSGSN	eri_sgsn_mobmgmtumts_tab.s4ba6l24su2ahbfbj035xkctsi	INT8	#	The number of attempts Intra-SGSN Serving Radio Network Subsystem (SRNS) Relocations.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
RELOC_FailInterSGSNInt	eri_sgsn_mobmgmtumts_tab.s4ba6ln4su2ahbfbj035xkctsi	INT8	#	The number of failed Inter-SGSN SRNS Relocation procedures, due to internal reasons, counted in the old SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
RELOC_FailIntraSGSNInt	eri_sgsn_mobmgmtumts_tab.s4ba6ld4su2ahbfbj035xkctsi	INT8	#	The number of failed Intra-SGSN SRNS Relocations, due to internal reasons.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
RELOC_SuccInterSGSNNew	eri_sgsn_mobmgmtumts_tab.s4ba6lt4su2ahbfbj035xkctsi	INT8	#	The number of successful Inter-SGSN SRNS Relocation procedures. The counter is incremented when the new SGSN receives a Forward Relocation Complete Acknowledge message from the old SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
RELOC_SuccInterSGSN	eri_sgsn_mobmgmtumts_tab.s4ba6lj4su2ahbfbj035xkctsi	INT8	#	The number of successful Inter-SGSN SRNS Relocation procedures, counted in the old SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
RELOC_SuccIntraSGSN	eri_sgsn_mobmgmtumts_tab.s4ba6l64su2ahbfbj035xkctsi	INT8	#	The number of	Sum,

				successful Intra-SGSN SRNS Relocations.	es3gtpbh, es3pabh, es3pactbh, tot
succGprsAttachUmts	eri_sgsn_mobmgmtumts_tab.s4ba6gn4su2ahbfbj035xkctsi	INT8	#	The number of successful GPRS attaches.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
succGprsDetachSgsnUmts	eri_sgsn_mobmgmtumts_tab.s4ba6h04su2ahbfbj035xkctsi	INT8	#	The number of successful GPRS detaches initiated by the SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
succInterSgsnRaUpdateUmts	eri_sgsn_mobmgmtumts_tab.s4ba6h64su2ahbfbj035xkctsi	INT8	#	The number of successful inter-SGSN RA updates.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
succIntraSgsnRaUpdateUmts	eri_sgsn_mobmgmtumts_tab.s4ba6hf4su2ahbfbj035xkctsi	INT8	#	The number of successful intra-SGSN RA update procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
succPacketSwitchingPagingUmts	eri_sgsn_mobmgmtumts_tab.s4ba6hl4su2ahbfbj035xkctsi	INT8	#	The number of successful PS paging procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
Total_UnsuccAttach	{UnsuccAttachCC7} + {UnsuccAttachCC8} + {UnsuccAttachCC13} + {UnsuccAttachCC14} + {UnsuccAttachCC15} + {UnsuccAttachCC22} + {MM_UnsuccAttachCC11_U} + {MM_UnsuccAttachCC17_U}	INT8	#	Total of unsuccessful MM procedures for all returns cause codes.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
UnsuccAttachCC13	eri_sgsn_mobmgmtumts_tab.sclcx4kxu6clxdluhbgylysd1m	INT8	#	Unsuccessful MM procedures which returns cause code #13, (Roaming not allowed in this location area).	Sum, es3gtpbh, es3pabh, es3pactbh, tot

UnsuccAttachCC14	eri_sgsn_mobmgmtumts_tab.s4pkf5h25kcdbdr2056pesp3ig	INT8	#	Unsuccessful MM procedures which returns cause code #14, (GPRS services not allowed in this PLMN).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
UnsuccAttachCC15	eri_sgsn_mobmgmtumts_tab.yha5b22xeebtjd0jlxfx5ybsxo	INT8	#	Unsuccessful MM procedures, which returns cause code #15, (No suitable cells in location area).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
UnsuccAttachCC22	eri_sgsn_mobmgmtumts_tab.t1pekj1xllblgsw1vu6hxpd2si	INT8	#	Unsuccessful MM procedures which returns cause code #22, (Congestion).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
UnsuccAttachCC7	eri_sgsn_mobmgmtumts_tab.wq12xjxsecc1mc4ah3smsaw3pk	INT8	#	Unsuccessful MM procedures which returns cause code #7, (GPRS Services not allowed).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
UnsuccAttachCC8	eri_sgsn_mobmgmtumts_tab.wwkbdyrjybbk0uw4pl41r0ld64	INT8	#	Unsuccessful MM procedures which returns cause code #8, (GPRS and non-GPRS services not allowed).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
unsuccGprsAttachUmts	eri_sgsn_mobmgmtumts_tab.s4ba6gr4su2ahbfbj035xkctsi	INT8	#	The number of unsuccessful GPRS attach requests, that is, the number of reject messages sent.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
unsuccPacketSwitchingPagingUmts	eri_sgsn_mobmgmtumts_tab.s4ba6hp4su2ahbfbj035xkctsi	INT8	#	The number of unsuccessful packet switched paging procedures within this SGSN area, that is, packed switching	Sum, es3gtpbh, es3pabh, es3pactbh, tot

				paging procedures that are re-started when the previous attempt has timed out.	
USucIntSgsnGsmUmtsRauCSPSCoord	eri_sgsn_mobmgmtumts_tab.w2vrqojkmp2ahu25j035yhsysy	INT8	#	Number of intra-SGSN inter-system change procedures being rejected due to the coordination of CS and PS in an MOCN constellation.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

7.18.11 SGSN.Ericsson.UMTS.Mobility_Management

Statistic measurements for the mobility management

KPI Name	Expression	Data Type	Unit s	Description	Aggregatio n
_%_NbrHomeSub	100 * {NbrHomeSub}/{NbrActAttachedSub}	FLOAT	%	Percentage of GPRS home subscribers located in the SGSN location register.	Average, avg, esgtpbh, espabh, espactbh
_%_NbrVisitingForeign	100 * {NbrVisitingForeign}/{NbrActAttachedSub}	FLOAT	%	Percentage of visiting foreign GPRS subscribers located in the SGSN location register.	Average, avg, esgtpbh, espabh, espactbh
_%_NbrVisitingNatSub	100 * {NbrVisitingNatSub}/{NbrActAttachedSub}	FLOAT	%	Percentage of visiting national GPRS subscribers located in the SGSN location register.	Average, avg, esgtpbh, espabh, espactbh
_%_succCombiAttach	100 * {SuccCombiAttach}/{AttCombiAttach}	FLOAT	%	Successfully completed Combined GPRS/IMSI Attach procedures initiated by this SGSN area. The	Average, avg, esgtpbh, espabh,

				counter is not incremented when re-sending Attach Accepts to the MS. If the IMSI (CS) Attach failed but the GPRS Attach was successful, no counters are incremented.	espactbh
_%_succGprsAttach	100 * {SuccGprsAttach}/{AttGprsAttach}	FLOAT	%	Successfully performed GPRS Attach procedures within this SGSN area. The counter is not incremented when re-sending Attach Accept to the MS. If an attach request indicating Combined GPRS/IMSI Attach was received and the IMSI (CS) Attach failed but the GPRS Attach was successful, the counter is not incremented.	Average, avg, esgtpbh, espabh, espactbh
_%_succGprsDetachSgsn	100 * {SuccGprsDetachSgsn}/{AttGprsDetachSgsn}	FLOAT	%	Successfully completed GPRS Detach procedures SGSN-initiated within the SGSN area. The procedure is not considered successful if Detach Accept is not received, even though the MS is detached in the network.	Average, avg, esgtpbh, espabh, espactbh
_%_succImsiAttach	100 * {SuccImsiAttach}/{AttImsiAttach}	FLOAT	%	Successfully performed GPRS Attach procedures while IMSI is already attached. The attempts initiated within this SGSN area are counted. The counter is not incremented when re-sending Attach Accept to the MS.	Average, avg, esgtpbh, espabh, espactbh
_%_succInterSgsnRaUpdate	100 * {succInterSgsnRaUpdate}/{attInterSgsnRaUpdate}	FLOAT	%	Successfully completed Inter-SGSN Routing Area Update procedures in this SGSN.	Average, avg, esgtpbh, espabh,

					espactbh
_%_succIntraSgsnRaUpdate	100 * {SuccIntraSgsnRaUpdate}/{AttIntraSgsnRaUpdate}	FLOAT	%	Successfully performed Intra-SGSN Routing Area Update procedures initiated in this SGSN. The counter is not stepped when re-sending RA Update to the MS. All types of Intra-SGSN RA Update Requests are counted: Normal RA Update, Periodic RA Update and RA Update acting as resume of a suspended MS.	Average, avg, esgtpbh, espabh, espactbh
AttCombiAttach	eri_sgsn_mobmgmt_tab.t1qmwfd2f1bgrrtdj1q4wg604w	INT8	#	Attempts of Combined GPRS/IMSI Attach procedures initiated by this SGSN area. Re-sending from MSs are also counted.	Sum, esgtpbh, espabh, espactbh, tot
AttCombiDetachMs	eri_sgsn_mobmgmt_tab.x3oigr63qlbt4rxf0hwekjw15m	INT8	#	Attempted MS-initiated Combined GPRS/IMSI Detach procedures within this SGSN area. Re-sending from MSs are also counted.	Sum, esgtpbh, espabh, espactbh, tot
AttDetachInactiveSub	eri_sgsn_mobmgmt_tab.usvhmsykflchvdqvocj6ms142s	INT8	#	Attempted detach of inactive subscribers procedures within this SGSN area.	Sum, esgtpbh, espabh, espactbh, tot
AttGprsAttach	eri_sgsn_mobmgmt_tab.ruuuufpb06cvbtlmhpfp1cejqb	INT8	#	Attempted GPRS Attach procedures initiated within this SGSN area. Both sending and re-sending from MSs are counted.	Sum, esgtpbh, espabh, espactbh, tot
attGprsAttachVisitor	eri_sgsn_mobmgmt_tab.w2vrqn2kmp2ahu25j035yhsysy	INT8	#	Number of attempted GPRS attach procedures, within this SGSN area, initiated by visiting GPRS subscribers.	Sum, esgtpbh, espabh, espactbh, tot
AttGprsDetachMs	eri_sgsn_mobmgmt_tab.xo3r600fyhbrousimexugrui3x	INT8	#	Attempted GPRS Detach procedures within this	Sum, esgtpbh,

				SGSN area. Both sending and re-sending from MSs are counted.	espabh, espactbh, tot
AttGprsDetachSgsn	eri_sgsn_mobmgmt_tab.tii3ajrr2bchiry6mrtrnhfuco	INT8	#	Attempted GPRS Detach procedures initiated by SGSN. The counter is incremented when sending Detach Request to an MS. The counter is not incremented when re-sending Detach Request to the MS.	Sum, esgtpbh, espabh, espactbh, tot
AttImsiAttach	eri_sgsn_mobmgmt_tab.ux32awsgn4bbnun3jeymdg00mh	INT8	#	Attempted GPRS Attach procedures initiated while International Mobile Subscriber Identity (IMSI) is already attached. The attempts initiated within this SGSN area are counted. Re-sending from MSs are also counted.	Sum, esgtpbh, espabh, espactbh, tot
attImsiDetachMS	eri_sgsn_mobmgmt_tab.rffsganyjacghbc3oct3ppabmh	INT8	#	Attempted MS-initiated IMSI Detach procedures within this SGSN area. Re-sending from MSs are also counted.	Sum, esgtpbh, espabh, espactbh, tot
attInterSgsnRaUpdate	eri_sgsn_mobmgmt_tab.strhlri602csge2jwt1vd0scvb	INT8	#	Attempted Inter-SGSN Routing Area procedures initiated in this SGSN, where the old RA is served by another SGSN. Both sending and re-sending from MSs are counted.	Sum, esgtpbh, espabh, espactbh, tot
attInterSgsnRaUpdateVisitor	eri_sgsn_mobmgmt_tab.w2vrqn4kmp2ahu25j035yhsysy	INT8	#	Number of attempted inter-SGSN Routing Area Update (RAU) procedures initiated by visiting GPRS subscribers within this SGSN, where the old RA is served by another SGSN.	Sum, esgtpbh, espabh, espactbh, tot

AttIntraSgsnRaUpdate	eri_sgsn_mobmgmt_tab.rh6xcxagqwbamrlod2fb3i63gr	INT8	#	Attempted Intra-SGSN Routing Area Update procedures initiated within this SGSN area. Both sending and re-sending from MSs are counted. All types of Intra- SGSN RA Update requests are counted: Normal RA Update, Periodic RA Update and RA Update acting as resume of a suspended MS.	Sum, esgtpbh, espabh, espactbh, tot
AttPacketSwitchingPaging	eri_sgsn_mobmgmt_tab.t5k5p22c6vclfe3u3hrijus5ov	INT8	#	Attempted packet switched-paging procedures, for GPRS services, within the SGSN area. The initial paging procedure, as well as the repeated paging procedures are counted. A paging procedure means that the counter is incremented once when sending the first set of paging (that is, 3 paging messages with new Packet Temporary Mobile Subscriber Identity [P-TMSI] and possibly 2 paging messages with old P-TMSI). A new paging set (triggered by a new DL PDU) is regarded as a new procedure. Paging with IMSI (due to abnormal situation) is also regarded as a new procedure.	Sum, esgtpbh, espabh, espactbh, tot
discardedAttachMsError	eri_sgsn_mobmgmt_tab.w2vrqn6kmp2ahu25j035yhsysy	INT8	#	Incremented when there is a rejected attach because the MS has wrong Temporary Logical Link Identity (TLLI).	Sum, esgtpbh, espabh, espactbh, tot
discardedCombiAttach	eri_sgsn_mobmgmt_tab.s4ba6ht4su2ahbfbj035xkctsi	INT8	#	The number of discarded combined GPRS/IMSI attach requests on the DP level	Sum, esgtpbh, espabh,

				due to overload protection or incorrect information elements.	espactbh, tot
discardedCombiRaUpdate	eri_sgsn_mobmgmt_tab.s4ba6hx4su2ahbfbj035xkctsi	INT8	#	The number of discarded combined routing area update requests on DP level, due to overload protection or incorrect information elements.	Sum, esgtpbh, espabh, espactbh, tot
discardedDetach	eri_sgsn_mobmgmt_tab.s4ba6i04su2ahbfbj035xkctsi	INT8	#	The number of discarded detach requests on DP level, due to overload protection or incorrect information elements.	Sum, esgtpbh, espabh, espactbh, tot
discardedGprsAttach	eri_sgsn_mobmgmt_tab.s4ba6hr4su2ahbfbj035xkctsi	INT8	#	The number of discarded GPRS attach requests on the Device Processor (DP) level due to overload protection or incorrect information elements.	Sum, esgtpbh, espabh, espactbh, tot
discardedRaUpdate	eri_sgsn_mobmgmt_tab.s4ba6hv4su2ahbfbj035xkctsi	INT8	#	The number of discarded routing area update requests on DP level, due to overload protection or incorrect information elements.	Sum, esgtpbh, espabh, espactbh, tot
gprsMmSgsnPagingProcedures	eri_sgsn_mobmgmt_tab.rsqfabfl03b14rsbipaujval1y	INT8	#	Total number of paging procedures per SGSN. A paging procedure means that the counter is incremented once when sending the first set of paging (that is 3 paging messages with new P-TMSI and possibly 2 paging messages with old P-TMSI). A new paging set (triggered by a new DL PDU) is regarded as a new procedure. Paging with IMSI (due to abnormal situation)	Sum, esgtpbh, espabh, espactbh, tot

				is also regarded as a new procedure. This measurement counts both Circuit-Switched (CS) and PS paging procedures. Note! There is no repetition for CS paging, hence each CS paging message is counted as one procedure.	
gprsMmSgsnRejectedByAdmissionControl	eri_sgsn_mobmgmt_tab.wgfmk3sy25chccmxgkcr6b1jpg	INT8	#	Attach or Inter-SGSN RA-update requests that were rejected by admission control. The request is rejected and fault code 22 is sent to the MS, indicating congestion. The admission control reject can be caused by maximum Simultaneously Attached Users (SAU) limit reached.	Sum, esgtpbh, espabh, espactbh, tot
gprsMmSgsnSuccessfulPagingProcedures	eri_sgsn_mobmgmt_tab.y26qid6e5pbhgu6hhdvbawivw4	INT8	#	Successful paging procedures in SGSN.	Sum, esgtpbh, espabh, espactbh, tot
gprsMmSgsnUnsuccessfulAttachRequests	eri_sgsn_mobmgmt_tab.x6sifg3bmlbcicowdt6joydrnk	INT8	#	Unsuccessful attach requests per SGSN, that is, whenever an attach reject message is sent.	Sum, esgtpbh, espabh, espactbh, tot
gprsMmSgsnUnsuccessfulPagingProcedures	eri_sgsn_mobmgmt_tab.x156d313yocy3cwifexttw2tli	INT8	#	(Obsolete in R7.0 This has been replaced by unsuccPacketSwitchingPaging) Unsuccessful PS paging procedures per SGSN.	Sum, esgtpbh, espabh, espactbh, tot
HHO_AttInterSGSNNew	eri_sgsn_mobmgmt_tab.w2vrqnbkmp2ahu25j035yhsysy	INT8	#	Number of Inter PS Handover attempts in new SGSN, including possible retransmissions.	Sum, esgtpbh, espabh, espactbh, tot
HHO_AttInterSGSNOld	eri_sgsn_mobmgmt_tab.w2vrqndkmp2ahu25j035yhs	INT8	#	Number of Inter PS	Sum,

	ysy			Handovers attempts in old SGSN, including possible retransmissions.	esgtpbh, espabh, espactbh, tot
HHO_AttIntraSGSN	eri_sgsn_mobmgmt_tab.w2vrqnfkmp2ahu25j035yhsysy	INT8	#	Number of Intra PS Handover attempts, including possible retransmissions.	Sum, esgtpbh, espabh, espactbh, tot
HHO_AttOptIntraSGSN	eri_sgsn_mobmgmt_tab.w2vrqnhkmp2ahu25j035yhsysy	INT8	#	Number of Optimized PS Handover attempts, including possible retransmissions.	Sum, esgtpbh, espabh, espactbh, tot
HHO_SuccInterSGSNNew	eri_sgsn_mobmgmt_tab.w2vrqnjkmp2ahu25j035yhsysy	INT8	#	Number of successful Inter PS Handover procedures in new SGSN.	Sum, esgtpbh, espabh, espactbh, tot
HHO_SuccInterSGSNOld	eri_sgsn_mobmgmt_tab.w2vrqnlkmp2ahu25j035yhsysy	INT8	#	Number of successful PS Handover procedures in old SGSN.	Sum, esgtpbh, espabh, espactbh, tot
HHO_SuccIntraSGSN	eri_sgsn_mobmgmt_tab.w2vrqnnkmp2ahu25j035yhsysy	INT8	#	Number of successful Intra PS Handover procedures.	Sum, esgtpbh, espabh, espactbh, tot
HHO_SuccOptIntraSGSN	eri_sgsn_mobmgmt_tab.w2vrqnpkmp2ahu25j035yhsysy	INT8	#	Number of successful Optimized PS Handover procedures.	Sum, esgtpbh, espabh, espactbh, tot
IRATHO_AttInterSGSNNewUmtsGsm	eri_sgsn_mobmgmt_tab.w2vrqntkmp2ahu25j035yhsysy	INT8	#	Number of Inter IRAT PS Handover attempts in new SGSN when moving from WCDMA to GSM, including possible retransmissions.	Sum, esgtpbh, espabh, espactbh, tot

IRATHO_AttInterSGSNOldUmtsGsm	eri_sgsn_mobmgmt_tab.w2vrqnxkmp2ahu25j035yhsysy	INT8	#	Number of Inter IRAT PS Handover attempts in old SGSN when moving from WCDMA to GSM, including possible retransmissions.	Sum, esgtpbh, espabh, espactbh, tot
IRATHO_AttIntraSGSNUmtsGsm	eri_sgsn_mobmgmt_tab.w2vrqo2kmp2ahu25j035yhsysy	INT8	#	Number of Intra IRAT PS Handover attempts when moving from WCDMA to GSM, including possible retransmissions.	Sum, esgtpbh, espabh, espactbh, tot
IRATHO_SuccInterSGSNNewUmtsGsm	eri_sgsn_mobmgmt_tab.w2vrqo6kmp2ahu25j035yhsysy	INT8	#	Number of successful Inter IRAT PS Handovers when moving from WCDMA to GSM.	Sum, esgtpbh, espabh, espactbh, tot
IRATHO_SuccInterSGSNOldUmtsGsm	eri_sgsn_mobmgmt_tab.w2vrqodkmp2ahu25j035yhsysy	INT8	#	Number of successful Inter IRAT PS Handovers in old SGSN when moving from WCDMA to GSM.	Sum, esgtpbh, espabh, espactbh, tot
IRATHO_SuccIntraSGSNUmtsGsm	eri_sgsn_mobmgmt_tab.w2vrqohkmp2ahu25j035yhsysy	INT8	#	Number of successful Intra IRAT PS Handovers when moving from WCDMA to GSM.	Sum, esgtpbh, espabh, espactbh, tot
MM_AttAttachAcceptNon3GPPCompG	eri_sgsn_mobmgmt_tab.w2vrqolkmp2ahu25j035yhsysy	INT8	#	Number of 'Attach Accept' messages that are altered during retransmission due to non 3GPP compliant User Equipment (UEs).	Sum, esgtpbh, espabh, espactbh, tot
MM_AttAuthCiphReqNon3GPPCompG	eri_sgsn_mobmgmt_tab.w2vrqopkmp2ahu25j035yhsysy	INT8	#	Number of 'Authentication and Ciphering Request' messages that are altered during retransmission due to non 3GPP compliant UEs.	Sum, esgtpbh, espabh, espactbh, tot
MM_AttChangeOfLocalTime_G	eri_sgsn_mobmgmt_tab.w2vrqotkmp2ahu25j035yhsysy	INT8	#	Incremented when SGSN detects a change in offset and/or daylight savings time in SGSNs handling of MS local time.	Sum, esgtpbh, espabh, espactbh, tot

MM_AttRauAcceptNon3GPPCompG	eri_sgsn_mobmgmt_tab.w2vrqp0kmp2ahu25j035yhsysy	INT8	#	Number of 'Routing Area Update Accept' messages that are altered during retransmission due to non 3GPP compliant UEs.	Sum, esgtpbh, espabh, espactbh, tot
MM_NbrCamelSub_G	eri_sgsn_mobmgmt_tab.r50psh0efwb5hbes2o4hcnm5yp	INTEGER	#	The number of attached subscriber within this SGSN area with CAMEL service. Default Alarm Triggering Level: value of 40pc of the limit for attached subscribers depending on HW and the size of the scalable SGSN. Default Alarm Clearing Level: value of 35pc of the limit for attached subscribers depending on HW and the size of the scalable SGSN. Severity: Minor Default Supervision Active: False	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
MM_NbrSubPmmConnected	eri_sgsn_mobmgmt_tab.tvjphdycurbo1e0tduprkjmwwr	INTEGER	#	This measurement provides the number of subscribers in PMM-CONNECTED state. Default Alarm Triggering Level: 180000 Default Alarm Clearing Level: 175000 Severity: Warning Default Supervision Active: False	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
MM_UnsuccAttachCC11_G	eri_sgsn_mobmgmt_tab.s4ba6gb4su2ahbfbj035xkctsi	INT8	#	The number of unsuccessful MM attach procedures that return cause code #11, (PLMN not allowed).	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccAttachCC17_G	eri_sgsn_mobmgmt_tab.rfygpyc0mbcjysc6i5ebv4o43q	INT8	#	The number of unsuccessful MM attach procedures, which returns cause code #17, (Network failure).	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccInterSgsnRau_G	eri_sgsn_mobmgmt_tab.w2vrqpdkmp2ahu25j035yhs	INT8	#	Number of unsuccessful MM	Sum,

	ysy			inter- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS.	esgtpbh, espabh, espactbh, tot
MM_UnsuccInterSgsnRauCC10_G	eri_sgsn_mobmgmt_tab.w2vrqphkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM inter- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS with cause code #10, Implicitly detached.	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccInterSgsnRauCC14_G	eri_sgsn_mobmgmt_tab.rvkor3yrmdbq3trqfs2wtbbo6c	INT8	#	The number of unsuccessful MM inter-RA update procedures, which returns cause code#14, (GPRS services not allowed in this PLMN).	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccInterSgsnRauCC15_G	eri_sgsn_mobmgmt_tab.w2vrqplkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM inter- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS with cause code #15, No Suitable Cells In Location Area.	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccInterSgsnRauCC17_G	eri_sgsn_mobmgmt_tab.rjxnsyn4wacttcxjglun22qbhe	INT8	#	The number of unsuccessful MM inter-RA update procedures, which returns cause code#17, (Network failure).	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccInterSgsnRauCC9_G	eri_sgsn_mobmgmt_tab.xv0k0yxspeb5it4144rlbqr0mm	INT8	#	The number of unsuccessful MM inter-RA update procedures, which returns cause code#9, (MS identity cannot be derived by the network).	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccIntraSgsnRau_G	eri_sgsn_mobmgmt_tab.w2vrqppkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM intra- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS.	Sum, esgtpbh, espabh, espactbh, tot

MM_UnsuccIntraSgsnRauCC14_G	eri_sgsn_mobmgmt_tab.wig0f666s3bnxs6vgbncsuoyfr	INT8	#	The number of unsuccessful MM intra-RA update procedures, which returns cause code#14, meaning GPRS services not allowed in this PLMN.	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccIntraSgsnRauCC15_G	eri_sgsn_mobmgmt_tab.w2vrqptkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful MM intra- RAU procedures, that is, whenever a Routing Area Update Reject message is sent to the MS with cause code #15, No Suitable Cells In Location Area.	Sum, esgtpbh, espabh, espactbh, tot
MM_UnsuccIntraSgsnRauCC17_G	eri_sgsn_mobmgmt_tab.wkcfxb6lopcdfdwfqgvh0kjfyc	INT8	#	The number of unsuccessful MM intra-RA Update procedures, which returns cause code#17, meaning network failure.	Sum, esgtpbh, espabh, espactbh, tot
NbrActAttachedSub	eri_sgsn_mobmgmt_tab.ur2ttguheqc23s5v5yvlttaofr	INTEGER	#	Attached subscribers within this SGSN area. Note! This gauge reflects the correct number of attached subscribers in the node. The gauge will then be incremented and decremented in other cases as well (that is Inter-SGSN RA Update, Implicitly Detached, and so on.)	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
nbrDetachedInactiveSub	eri_sgsn_mobmgmt_tab.urwp5rl1r5cddrtqmwab3re50x	INTEGER	#	Detached inactive subscribers procedures within this SGSN area.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
NbrHomeSub	eri_sgsn_mobmgmt_tab.ttlyurt6yobgbrgl3crpcq1n5p	INTEGER	#	GPRS home subscribers located in the SGSN location register. The GPRS MM state of this subscriber is GMM_REGISTERED or	Average, avg, esgtpbh, espabh, espactbh,

				GMM_DEREGISTERED. Only GPRS subscribers that are homed in the same GPRS network are considered.	max, min, tot
nbrOfSubReady	eri_sgsn_mobmgmt_tab.r4ljooivakbqhdg4nfmjl52plc	INTEGER	#	Subscribers in ready state within this SGSN area.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
nbrOfSubStandby	eri_sgsn_mobmgmt_tab.sxnrnfgtu3cdssngjey2oxjjxy	INTEGER	#	Subscribers in standby state within this SGSN area.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
NbrVisitingForeign	eri_sgsn_mobmgmt_tab.vd4bcq2uqocwpt0r3ienoitcc0	INTEGER	#	Visiting foreign GPRS subscribers located in the SGSN location register. The GPRS MM state of this subscriber is GMM_REGISTERED or GMM_DEREGISTERED. Only GPRS subscribers that are homed in a GPRS network of a foreign country are considered.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
NbrVisitingNatSub	eri_sgsn_mobmgmt_tab.r0g0ctnsmvcwku60vayygit5nf	INTEGER	#	Visiting national GPRS subscribers located in the SGSN location register. The GPRS MM state of this subscriber is GMM_REGISTERED or GMM_DEREGISTERED. Only GPRS subscribers that are homed in a partner GPRS network of the same country are considered.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
subscribersInTransitionalState	eri_sgsn_mobmgmt_tab.vio6vgsoyxc1atsmns5egjh0bt	INTEGER	#	Subscribers in transitional state, that is subscribers	Average, avg,

				that are in the middle of Attach/Detach or PDP Context Activation/Deactivation procedures.	esgtpbh, espabh, espactbh, max, min, tot
SuccCombiAttach	eri_sgsn_mobmgmt_tab.tfeelv14isb5jsc0nhninesx6k	INT8	#	Successfully completed Combined GPRS/IMSI Attach procedures initiated by this SGSN area. The counter is not incremented when re-sending Attach Accepts to the MS. If the IMSI (CS) Attach failed but the GPRS Attach was successful, no counters are incremented.	Sum, esgtpbh, espabh, espactbh, tot
SuccGprsAttach	eri_sgsn_mobmgmt_tab.une5gmq2i1bk0sclj1mc0ac1md	INT8	#	Successfully performed GPRS Attach procedures within this SGSN area. The counter is not incremented when re-sending Attach Accept to the MS. If an attach request indicating Combined GPRS/IMSI Attach was received and the IMSI (CS) Attach failed but the GPRS Attach was successful, the counter is not incremented.	Sum, esgtpbh, espabh, espactbh, tot
succGprsAttachVisitor	eri_sgsn_mobmgmt_tab.w2vrqq2kmp2ahu25j035yhsysy	INT8	#	Number of successfully performed GPRS attach procedures within this SGSN area, initiated by visiting GPRS subscribers.	Sum, esgtpbh, espabh, espactbh, tot
SuccGprsDetachSgsn	eri_sgsn_mobmgmt_tab.vqquxx61jbc3sdmodu3kh6jam4	INT8	#	Successfully completed GPRS Detach procedures SGSN-initiated within the SGSN area. The procedure is not considered successful if Detach Accept is not received, even though the MS is detached in the	Sum, esgtpbh, espabh, espactbh, tot

				network.	
SuccImsiAttach	eri_sgsn_mobmgmt_tab.uukfuuy3k3c0isfdtkdvh613kv	INT8	#	Successfully performed GPRS Attach procedures while IMSI is already attached. The attempts initiated within this SGSN area are counted. The counter is not incremented when re-sending Attach Accept to the MS.	Sum, esgtpbh, espabh, espactbh, tot
succInterSgsnRaUpdate	eri_sgsn_mobmgmt_tab.tyukbcw2hfbl2cch6oix22gijt	INT8	#	Successfully completed Inter-SGSN Routing Area Update procedures in this SGSN.	Sum, esgtpbh, espabh, espactbh, tot
succInterSgsnRaUpdateVisitor	eri_sgsn_mobmgmt_tab.w2vrqq4kmp2ahu25j035yhsysy	INT8	#	Number of successfully completed inter-SGSN RAU procedures initiated by visiting GPRS subscribers within this SGSN area.	Sum, esgtpbh, espabh, espactbh, tot
SuccIntraSgsnRaUpdate	eri_sgsn_mobmgmt_tab.v52h6leptmcmusw6jlscg3yhtn	INT8	#	Successfully performed Intra-SGSN Routing Area Update procedures initiated in this SGSN. The counter is not stepped when re-sending RA Update to the MS. All types of Intra-SGSN RA Update Requests are counted: Normal RA Update, Periodic RA Update and RA Update acting as resume of a suspended MS.	Sum, esgtpbh, espabh, espactbh, tot
Total_UnsuccAttach	{UnsuccAttachCC7} + {UnsuccAttachCC8} + {UnsuccAttachCC13} + {UnsuccAttachCC14} + {UnsuccAttachCC15} + {UnsuccAttachCC22} + {MM_UnsuccAttachCC11_G} + {MM_UnsuccAttachCC17_G}	INT8	#	Total unsuccessful MM procedures with all returns cause codes	Sum, esgtpbh, espabh, espactbh, tot
UnsuccAttachCC13	eri_sgsn_mobmgmt_tab.uyqec6u0h0bw2r3n4eqrhl43ig	INT8	#	Unsuccessful MM procedures which returns cause code #13, (Roaming not allowed in this location	Sum, esgtpbh, espabh, espactbh,

				area).	tot
UnsuccAttachCC14	eri_sgsn_mobmgmt_tab.xjqgn0a1s5cg3rp2ohch6mb2gh	INT8	#	Unsuccessful MM procedures which returns cause code #14 (GPRS services not allowed in this PLMN).	Sum, esgtpbh, espabh, espactbh, tot
UnsuccAttachCC15	eri_sgsn_mobmgmt_tab.t2qdusd2a2ci0r0io5hpaavdtl	INT8	#	Unsuccessful MM procedures, which returns cause code #15, (No suitable cells in location area).	Sum, esgtpbh, espabh, espactbh, tot
UnsuccAttachCC22	eri_sgsn_mobmgmt_tab.r5sk5gypt2bilc4e1ejxrols4j	INT8	#	Unsuccessful MM procedures which returns cause code #22, (Congestion).	Sum, esgtpbh, espabh, espactbh, tot
UnsuccAttachCC7	eri_sgsn_mobmgmt_tab.uqm1xv32u1cdye6k5x4sjnis2j	INT8	#	Unsuccessful MM procedures which returns cause code #7 (GPRS Services not allowed).	Sum, esgtpbh, espabh, espactbh, tot
UnsuccAttachCC8	eri_sgsn_mobmgmt_tab.xqjakvw2jucm6e35oqtieftlc1	INT8	#	Unsuccessful MM procedures which returns cause code #8 (GPRS and non-GPRS services not allowed).	Sum, esgtpbh, espabh, espactbh, tot
unsuccPacketSwitchingPaging	eri_sgsn_mobmgmt_tab.x3ix4mddjqb6ktdxjjph4aj6ho	INT8	#	Unsuccessful packet-switched paging (GPRS) procedures within this SGSN area, that is, packed-switching paging procedures that are restarted when the previous attempt has timed out. An unsuccessful paging procedure means that the counter is incremented once when a set of paging has failed (that is, 3 paging messages with new P-TMSI and possibly 2 paging	Sum, esgtpbh, espabh, espactbh, tot

		#		messages with old P-TMSI). A new paging set (triggered by a new DL PDU) is regarded as a new procedure. Unsuccessful paging with IMSI (due to abnormal situation) is also regarded as a new procedure.	

7.18.12 SGSN.Ericsson.UMTS.MS_connections_for_UMTS

Statistic measurements for the ISP for the UMTS network

KPI Name	Expression	Data Type	Units	Description	Aggregation
MM_AttachedLost_U	eri_sgsn_msconsumts_tab.s4ba6g64su2ahbfbj035xkctsi	INT8	#	Number of attached MSs lost due to a crash or restart, except for node restart and large restart	Sum, es3gtpbh, es3pabh, es3pactbh, tot

7.18.13 SGSN.Ericsson.UMTS.MS_connections

Statistic measurements for the ISP

KPI Name	Expression	Data Type	Units	Description	Aggregation
gsnAutomaticConnectionRestarts	eri_sgsn_mscons_tab.tmla2bfqk1cavux2ybs56tg2h2	INT8	#	Counter is incremented when an error is detected in software which handles a single subscriber (MS) and results in an automatic connection restart.	Sum, esgtpbh, espabh, espactbh, tot
gsnManualConnectionRestarts	eri_sgsn_mscons_tab.x4qqxv6t6kbqlbhlge2d6guomc	INT8	#	Counter is incremented when an operator manually initiates a restart of a specific subscriber (MS) via the Application	Sum, esgtpbh, espabh, espactbh, tot

				Execution PXM form.	
MM_AttachedLost_G	eri_sgsn_mscons_tab.s4ba6g44su2ahbfbj035xkctsi	INT8	#	Number of attached MSs lost due to a crash or restart, except for node restart and large restart.	Sum, esgtpbh, espabh, espactbh, tot

7.18.14 SGSN.Ericsson.UMTS.MS_security_for_UMTS

Statistic measurements for the MS security for the UMTS network

KPI Name	Expression	Data Type	Unit s	Description	Aggregatio n
_%_SEC_SuccContextRequestToPsgsn _U	100 * {SEC_SuccContextRequestToPsgsn_U}/{SEC_AttContextRequestToPsgs n_U}	FLOA T	%	Percentage of success in replied SGSN context requests that were sent to a partner (previous) SGSN for subscribers registering afresh in this SGSN.	Average, avg, es3gtpbh, es3pabh, es3pactbh
AttAuthProcsSgsnSim	eri_sgsn_mssecumts_tab.wvkfghv6pjbk2bto0ufwu15waq	INT8	#	Number of authenticatio n procedures that are started within this SGSN area for a subscriber using a SIM. Valid for GSM subscribers located	Sum, es3gtpbh, es3pabh, es3pactbh, tot

					within WCDMA Access System.
AttAuthProcsSgsnUsim	eri_sgsn_mssecumts_tab.vavxpeqkypcidtjqw5tvs6mnyy	INT8	#	Number of authentication procedures that are started within this SGSN area for a subscriber using a USIM. Valid for WCDMA subscribers located within WCDMA Access Systems	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttIdentityReqImsi	eri_sgsn_mssecumts_tab.tkynakk6l3be5csdwyolb1nvrq	INT8	#	Number of attempted Identity Request procedures initiated by this SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
RecPOAuthFailSgsn	eri_sgsn_mssecumts_tab.ugej1o61fhcycselcgletin3q3	INT8	#	Number of ciphering and authentication failures within this SGSN area.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SEC_AttContextRequestToPsgsn_U	eri_sgsn_mssecumts_tab.totnxgfgb4cfjswrko4rqqegnv	INT8	#	The number of SGSN context requests sent to a partner (previous)	Sum, es3gtpbh, es3pabh, es3pactbh, tot

				SGSN for subscribers registering afresh in this SGSN. Resending are also counted.	
SEC_AttCtxtReqFromPsgsn_U	eri_sgsn_mssecumts_tab.w2vrqr0kmp2ahu25j035yhsysy	INT8	#	Number of SGSN context requests sent to a partner (previous) SGSN for subscribers registering afresh in this SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SEC_AttSecMode	eri_sgsn_mssecumts_tab.s4ba6kx4su2ahbfbj035xkctsi	INT8	#	The number of security mode control procedures started by the SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SEC_SuccContextRequestToPsgsn_U	eri_sgsn_mssecumts_tab.s64ypco42dbnosgyndavs5bnb3	INT8	#	The number of successfully replied SGSN context requests that were sent to a partner (previous) SGSN for subscribers registering afresh in this SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SEC_SuccSecMode	eri_sgsn_mssecumts_tab.s4ba6l04su2ahbfbj035xkctsi	INT8	#	The number of successful	Sum, es3gtpbh,

				security mode procedures. The security mode command response from MS starts the uplink integrity protection (and possible ciphering). All following messages sent from the MS are integrity protected (and possibly ciphered).	es3pabh, es3pactbh, tot
SuccAuthProcsSgsnSim	eri_sgsn_mssecumts_tab.x6ls2qgumuc4bs0kir4ri4a1x1	INT8	#	Number of successful authenticatio n procedures within this SGSN area, for a subscriber using a SIM. Valid for GSM subscribers located within WCDMA access System.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccAuthProcsSgsnUsim	eri_sgsn_mssecumts_tab.yk0ntil2p6b5xbfhhp4crictuj	INT8	#	Number of successful authenticatio n procedures within this SGSN area,	Sum, es3gtpbh, es3pabh, es3pactbh, tot

				for a subscriber using a USIM. Valid for WCDMA subscribers located within WCDMA Access Systems.	
SuccIdentityReqImsi	eri_sgsn_mssecumts_tab.saay4ut4s1bh4rbq1b6afx5wgy	INT8	#	Number of successfully completed Identity Request procedures initiated by this SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

7.18.15 SGSN.Ericsson.UMTS.MS_Security

Statistic measurements for the MS security

KPI Name	Expression	Data Type	Unit s	Description	Aggregatio n
_%_SEC_SuccContextRequestToPsgsn _G	100 * {SEC_SuccContextRequestToPsgsn_G}/{SEC_AttContextRequestToPsgsn_G}	FLOA T	%	Percentage of success in replied SGSN context requests that were sent to a partner (previous) SGSN for subscribers registering afresh in this SGSN.	Average, avg, esgtpbh, espabh, espactbh

_%_succAuthInSgsn	100 * {succAuthInSgsn}/{attAuthInSgsn}	FLOAT	%	Percentage of successful authentication procedures within this SGSN area.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccAuthProcsSgsnSim	100 * {SuccAuthProcsSgsnSim}/{AttAuthProcsSgsnSim}	FLOAT	%	Percentage of successful authentication procedures within this SGSN area for a subscriber using a SIM.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccAuthProcsSgsnUsim	100 * {SuccAuthProcsSgsnUsim}/{AttAuthProcsSgsnUsim}	FLOAT	%	Percentage of successful authentication procedures within this SGSN area, for a subscriber using a USIM. Valid for WCDMA subscribers located within GSM Access Systems.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccIdentityReqImsi	100 * {SuccIdentityReqImsi}/{AttIdentityReqImsi}	FLOAT	%	Percentage of successfully completed Identity Request procedures initiated by this SGSN.	Average, avg, esgtpbh, espabh, espactbh
attAuthInSgsn	eri_sgsn_mssec_tab.wiveqxyy5hb3krmgena6ipc6ng	INT8	#	Number of authentication procedures	Sum, esgtpbh, espabh,

				that are started within this SGSN area.	espactbh, tot
AttAuthProcsSgsnSim	eri_sgsn_mssec_tab.wmsqtgun1jbr4u3bh40y1400sm	INT8	#	Number of authentication procedures that are started within this SGSN area for a subscriber using a SIM.	Sum, esgtpbh, espabh, espactbh, tot
AttAuthProcsSgsnUsim	eri_sgsn_mssec_tab.rgpplxw3bkbfwdpnx266fxl3ew	INT8	#	Number of authentication procedures that are started within this SGSN area for a subscriber using a Universal Subscriber Identity Module (USIM). Valid for WCDMA subscribers located within GSM Access Systems.	Sum, esgtpbh, espabh, espactbh, tot
AttIdentityReqImsi	eri_sgsn_mssec_tab.yksc1yln1xblxbqa44sf4jii52	INT8	#	Number of attempted Identity Request procedures initiated by this SGSN.	Sum, esgtpbh, espabh, espactbh, tot

attReqAuthSetsSentToHlrBySgsn	eri_sgsn_mssec_tab.sq0djv0elsb2vbm3n1pthyfuxb	INT8	#	Number of attempted MAP requests for authentication sets, sent to the HLR by the SGSN.	Sum, esgtpbh, espabh, espactbh, tot
emptyResponsesForAuthSetsFromHlr	eri_sgsn_mssec_tab.ynycw2hrkmbm0dx0vn1mlf6h0d	INT8	#	Number of empty responses to the MAP requests for authentication sets that were sent to the HLR.	Sum, esgtpbh, espabh, espactbh, tot
RecPOAuthFailSgsn	eri_sgsn_mssec_tab.xejhltod1hbaad52qn0m22v4ka	INT8	#	Number of ciphering and authentication failures within this SGSN area.	Sum, esgtpbh, espabh, espactbh, tot
SEC_AttContextRequestToPsgsn_G	eri_sgsn_mssec_tab.vi4tx5thb6bjnbi2gkiq16vtgi	INT8	#	The number of SGSN context requests sent to a partner (previous) SGSN for subscribers registering afresh in this SGSN. Resending are also counted.	Sum, esgtpbh, espabh, espactbh, tot
SEC_AttCtxtReqFromPsgsn_G	eri_sgsn_mssec_tab.w2vrqqxkmp2ahu25j035yhsysy	INT8	#	Number of SGSN context	Sum, esgtpbh, espabh,

				requests received from a partner (new) SGSN for a subscriber deregistering from this SGSN.	espactbh, tot
SEC_SuccContextRequestToPsgsn_G	eri_sgsn_mssec_tab.sjrwqy620ecwgsev66grna0vxi	INT8	#	The number of successfully replied SGSN context requests that were sent to a partner (previous) SGSN for subscribers registering afresh in this SGSN.	Sum, esgtpbh, espabh, espactbh, tot
succAuthInSgsn	eri_sgsn_mssec_tab.sgdpta405jboedq6et6yqicdmp	INT8	#	Number of successful authentication procedures within this SGSN area.	Sum, esgtpbh, espabh, espactbh, tot
SuccAuthProcsSgsnSim	eri_sgsn_mssec_tab.vyl0vvji3scn1rg6q31w2gaocs	INT8	#	Number of successful authentication procedures within this SGSN area for a subscriber using a SIM.	Sum, esgtpbh, espabh, espactbh, tot
SuccAuthProcsSgsnUsim	eri_sgsn_mssec_tab.wbqwvvxgkab5fuu24nanlyaw4s	INT8	#	Number of successful authenticatio	Sum, esgtpbh, espabh,

				n procedures within this SGSN area, for a subscriber using a USIM. Valid for WCDMA subscribers located within GSM Access Systems.	espactbh, tot
SuccIdentityReqImsi	eri_sgsn_mssec_tab.y1kkhympvnctkbm3xsp1c1pyts	INT8	#	Number of successfully completed Identity Request procedures initiated by this SGSN.	Sum, esgtpbh, espabh, espactbh, tot
SuccReqAuthSetsSentToHlrBySGSN	eri_sgsn_mssec_tab.yteuob6cxlbgrsjodn50dw2qt6	INT8	#	Number of successful MAP requests for authentication sets that were sent to the HLR by the SGSN.	Sum, esgtpbh, espabh, espactbh, tot

7.18.16 SGSN.Ericsson.UMTS.Performance_Monitoring

Statistic measurements for the Performance Monitoring

KPI Name	Expression	Data Type	Units	Description	Aggregation
pmReadingsPerHour	eri_sgsn_perfmon_tab.yapvlekiiybepequygy5uktcxc	FLOAT	#	-Obsolete in R6.0- Maximum measurement type readings per hour. That's the average load	Average, avg, esgtpbh, espabh, espactbh, max, min,

				caused by performance monitoring during one hour	tot
pmReadingsPerOccasion	eri_sgsn_perfmon_tab.sgpgyk3nv2bieem0a1bbws5jky	FLOAT	#	Maximum measurement type readings per reading occasion	Average, avg, esgtpbh, espabh, espactbh, max, min, tot

7.18.17 SGSN.Ericsson.UMTS.QoS_for_UMTS

Statistic measurements for the Quality of Service for the UMTS network

KPI Name	Expression	Data Type	Units	Description	Aggregation
CurrentGuaranteedBitRate	eri_sgsn_qosumts_tab.xe5k031oxtbl1uxxcvrn6nn04p	FLOAT	kbps	Current aggregated guaranteed bit rate (UL+DL) for the node, related to streaming PDP contexts.	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
DLBackgroundPktDiscarded	eri_sgsn_qosumts_tab.xkbqy3ppcobkdt3i6adyiau0pd	INT8	Packets	Number of WCDMA downlink background packets discarded.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
DLBackgroundPktForwarded	eri_sgsn_qosumts_tab.vgefhqafi3bn4rhdpwfb6wyinq	INT8	Packets	Number of WCDMA downlink background packets forwarded.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
DLInteractivePktDiscarded	eri_sgsn_qosumts_tab.xqi52qdju0bw0tvmtyhqtp5h10	INT8	Packets	Number of WCDMA downlink interactive packets discarded.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
DLInteractivePktForwarded	eri_sgsn_qosumts_tab.uryp3igcrmc0vs6qo3gbplu3vv	INT8	Packets	Number of WCDMA downlink interactive packets forwarded.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

DLPktDiscarded	{DLStreamingPktDiscarded} + {DLInteractivePktDiscarded} + {DLBackgroundPktDiscarded} + {QoS_DLConversationalPktDiscarded_U}	INT8	Packets	Number of WCDMA downlink packets discarded (streaming, interactive and background).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
DLPktForwarded	{DLStreamingPktForwarded} + {DLInteractivePktForwarded} + {DLBackgroundPktForwarded} + {QoS_DLConversationalPktForwarded_U}	INT8	Packets	Number of WCDMA downlink packets forwarded (streaming, interactive and background).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
DLStreamingPktDiscarded	eri_sgsn_qosumts_tab.xmgcpopnrabjxsm5rida2wygpo	INT8	Packets	Number of WCDMA downlink streaming packets discarded.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
DLStreamingPktForwarded	eri_sgsn_qosumts_tab.v2p5fobj5cbddelvpy0cx2mvbs	INT8	Packets	Number of WCDMA downlink streaming packets forwarded.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_AttActConversationalPdpContext_U	eri_sgsn_qosumts_tab.s4ba6ib4su2ahbfbj035xkctsi	INT8	#	The number of attempted PDP context activation procedures with conversational PDP context. The counter is incremented when the MS requests the QoS conversational class.	Sum, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
QoS_AttActInteractivePdpContext_U	eri_sgsn_qosumts_tab.s4ba6j64su2ahbfbj035xkctsi	INT8	#	The number of attempted PDP context activation procedures with interactive PDP context. The counter is incremented when the MS requests the QoS interactive class, or when the	Sum, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot

				MS requests subscribed QoS which is interactive.	
QoS_AttActStreamingPdpContext_U	eri_sgsn_qosumts_tab.s4ba6j24su2ahbfbj035xkctsi	INT8	#	The number of attempted PDP context activation procedures with streaming PDP context. The counter is incremented when the MS requests the QoS streaming class.	Sum, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
QoS_BackgroundAttRabAss_U	eri_sgsn_qosumts_tab.w2vrqq6kmp2ahu25j035yhsysy	INT8	#	Number of Radio Access Bearer (RAB) setup attempts for QoS Background. Modify RAB is not countet.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_BackgroundReSentRabAss_U	eri_sgsn_qosumts_tab.w2vrqqbkmp2ahu25j035yhsysy	INT8	#	Number of re-sent Radio Access Bearer (RAB) assignment for QoS background. Modify RAB is not counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_BackgroundSuccRabAss_U	eri_sgsn_qosumts_tab.w2vrqqdkmp2ahu25j035yhsysy	INT8	#	Number of successful Radio Access Bearer (RAB) assignment responses for QoS Background. Modify RAB is not countet.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_ConversationalAttRabAss_U	eri_sgsn_qosumts_tab.w2vrqqfkmp2ahu25j035yhsysy	INT8	#	Number of Radio Access Bearer (RAB) setup attempts for QoS Conversational. Modify RAB is not countet.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

QoS_ConversationalReStRabAss_U	eri_sgsn_qosumts_tab.w2vrqqhkmp2ahu25j035yhsysy	INT8	#	Number of re-sent Radio Access Bearer (RAB) assignment for QoS conversational. Modify RAB is not counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_ConversationalSuccRabAss_U	eri_sgsn_qosumts_tab.w2vrqqjkmp2ahu25j035yhsysy	INT8	#	Number of Radio Access Bearer (RAB) assignment responses for QoS conversational. Modify RAB is not counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_DLConversationalPktDiscarded_U	eri_sgsn_qosumts_tab.s4ba6if4su2ahbfbj035xkctsi	INT8	Packets	The number of downlink conversational packets discarded through policing.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_DLConversationalPktForwarded_U	eri_sgsn_qosumts_tab.s4ba6ij4su2ahbfbj035xkctsi	INT8	Packets	The number of downlink conversational packets forwarded on the GTP-U layer.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_GuaranteedBitRateAttempts_U	eri_sgsn_qosumts_tab.s4ba6in4su2ahbfbj035xkctsi	INT8	#	The number of PDP context activation procedures that are checked for admission control. The counter is incremented when the SGSN checks the GBR (admission control) for both the conversational and streaming traffic classes.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_GuaranteedBitRateDowngrades_U	eri_sgsn_qosumts_tab.s4ba6ir4su2ahbfbj035xkctsi	INT8	#	The number of rejected conversational and downgraded streaming PDP	Sum, es3gtpbh, es3pabh, es3pactbh, tot

				context procedures. The counter is incremented when the SGSN due to admission control rejects a conversational or downgrade streaming request to interactive QoS class.	
QoS_InteractiveAttRabAss_U	eri_sgsn_qosumts_tab.w2vrqqlkmp2ahu25j035yhsysy	INT8	#	Number of Radio Access Bearer (RAB) setup attempts for QoS Interactive. Modify RAB is not countet.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_InteractiveReSentRabAss_U	eri_sgsn_qosumts_tab.w2vrqqnkmp2ahu25j035yhsysy	INT8	#	Number of re-sent Radio Access Bearer (RAB) assignment for QoS interactive. Modify RAB is not counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_InteractiveSuccRabAss_U	eri_sgsn_qosumts_tab.w2vrqqpkmp2ahu25j035yhsysy	INT8	#	Number of Radio Access Bearer (RAB) assignment responses for QoS Interactive. Modify RAB is not countet.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_NbrActConversationalPdpContext_U	eri_sgsn_qosumts_tab.s4ba6iv4su2ahbfbj035xkctsi	INTEGER	#	The number of currently active PDP contexts with QoS conversational.	Average, es3gtpbh, es3pabh, es3pactbh, tot
QoS_NbrActInteractivePdpContext_U	eri_sgsn_qosumts_tab.s4ba6jh4su2ahbfbj035xkctsi	INTEGER	#	The number of currently active PDP contexts with QoS interactive.	Average, es3gtpbh, es3pabh, es3pactbh, tot
QoS_NbrActStreamingPdpContext_U	eri_sgsn_qosumts_tab.s4ba6jd4su2ahbfbj035xkctsi	INTEGER	#	The number of currently active PDP contexts with QoS	Average, es3gtpbh, es3pabh,

				streaming.	es3pactbh, tot
QoS_StreamingAttRabAss_U	eri_sgsn_qosumts_tab.w2vrqqrkmp2ahu25j035yhsysy	INT8	#	Number of Radio Access Bearer (RAB) setup attempts for QoS Streaming. Modify RAB is not countet.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_StreamingReSentRabAss_U	eri_sgsn_qosumts_tab.w2vrqqtkmp2ahu25j035yhsysy	INT8	#	Number of re-sent Radio Access Bearer (RAB) assignment for QoS streaming. Modify RAB is not counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
QoS_StreamingSuccRabAss_U	eri_sgsn_qosumts_tab.w2vrqqvkmp2ahu25j035yhsysy	INT8	#	Number of Radio Access Bearer (RAB) assignment responses for QoS streaming. Modify RAB is not counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

7.18.18 SGSN.Ericsson.UMTS.QoS

Statistic measurements for the Quality of service

KPI Name	Expression	Data Type	Units	Description	Aggregation
CurrentGuaranteedBitRate	eri_sgsn_qos_tab.slunr2dubec4wrn4lxfhtycg1s	FLOAT	kbps	Current aggregated guaranteed bit rate (UL+DL) for the node, related to streaming PDP contexts.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
DLBackgroundPktDiscarded	eri_sgsn_qos_tab.xtpitcpv5mcqxb4rxrum6tsobj	INT8	Packets	Number of downlink background packets discarded on the LLC layer.	Sum, esgtpbh, espabh, espactbh, tot
DLBackgroundPktForwarded	eri_sgsn_qos_tab.seufboanxgcbkbejyhx2webxkb	INT8	Packets	Number of downlink background packets	Sum, esgtpbh, espabh,

				forwarded on the LLC layer.	espactbh, tot
DLInteractivePktDiscarded	eri_sgsn_qos_tab.yyobi1vpd3cjudbfdffvuyjhbm	INT8	Packets	Number of downlink interactive packets discarded on the LLC layer.	Sum, esgtpbh, espabh, espactbh, tot
DLInteractivePktForwarded	eri_sgsn_qos_tab.sy6ill6i56cuietdhn1cre0eki	INT8	Packets	Number of downlink interactive packets forwarded on the LLC layer.	Sum, esgtpbh, espabh, espactbh, tot
DLPktDiscarded	{DLStreamingPktDiscarded} + {DLInteractivePktDiscarded} + {DLBackgroundPktDiscarded} + {QoS_DLConversationalPktDiscarded_G}	INT8	Packets	Number of downlink packets discarded on the LLC layer (streaming, interactive ,background and conversational).	Sum, esgtpbh, espabh, espactbh, tot
DLPktForwarded	{DLStreamingPktForwarded} + {DLInteractivePktForwarded} + {DLBackgroundPktForwarded} + {QoS_DLConversationalPktForwarded_G}	INT8	Packets	Number of uplink packets forwarded (streaming, interactive background and conversational).	Sum, esgtpbh, espabh, espactbh, tot
DLStreamingPktDiscarded	eri_sgsn_qos_tab.utw3is5sh6cyxbbgoyfd3c2slf	INT8	Packets	Number of downlink streaming packets discarded on the LLC layer.	Sum, esgtpbh, espabh, espactbh, tot
DLStreamingPktForwarded	eri_sgsn_qos_tab.ulrm46nkoscpvdnsir5r0ig3t5	INT8	Packets	Number of downlink streaming packets forwarded on the LLC layer.	Sum, esgtpbh, espabh, espactbh, tot
QoS_AttActConversationalPdpContext_G	eri_sgsn_qos_tab.s4ba6i64su2ahbfbj035xkctsi	INT8	#	The number of attempted PDP context activation procedures with conversational PDP context. The counter is incremented when the MS requests the Quality of Service (QoS) conversational class.	Sum, esgtpbh, espabh, espactbh, tot

QoS_AttActInteractivePdpContext_G	eri_sgsn_qos_tab.s4ba6j44su2ahbfbj035xkctsi	INT8	#	The number of attempted PDP context activation procedures with interactive PDP context. The counter is incremented when the MS requests the QoS interactive class, or when the MS requests the subscribed QoS class which is interactive.	Sum, esgtpbh, espabh, espactbh, tot
QoS_AttActStreamingPdpContext_G	eri_sgsn_qos_tab.s4ba6j04su2ahbfbj035xkctsi	INT8	#	The number of attempted PDP context activation procedures with streaming PDP context. The counter is incremented when the MS requests the QoS streaming class.	Sum, esgtpbh, espabh, espactbh, tot
QoS_DLConversationalPktDiscarded_G	eri_sgsn_qos_tab.s4ba6id4su2ahbfbj035xkctsi	INT8	Packets	The number of downlink conversational packets discarded through policing, flow control, and Gb scheduling.	Sum, esgtpbh, espabh, espactbh, tot
QoS_DLConversationalPktForwarded_G	eri_sgsn_qos_tab.s4ba6ih4su2ahbfbj035xkctsi	INT8	Packets	The number of downlink conversational packets forwarded on the LLC layer.	Sum, esgtpbh, espabh, espactbh, tot
QoS_GuaranteedBitRateAttempts_G	eri_sgsn_qos_tab.s4ba6il4su2ahbfbj035xkctsi	INT8	#	The number of PDP context activation procedures that are checked for admission control. The counter is incremented when the SGSN checks the Guaranteed Bit Rate (GBR) (admission control) for both the conversational and streaming traffic	Sum, esgtpbh, espabh, espactbh, tot

				classes.	
QoS_GuaranteedBitRateDowngrades_G	eri_sgsn_qos_tab.s4ba6ip4su2ahbfbj035xkctsi	INT8	#	The number of rejected conversational and downgraded streaming PDP context procedures. The counter is incremented when the SGSN due to admission control rejects a conversational or downgrade streaming request to the interactive QoS class.	Sum, esgtpbh, espabh, espactbh, tot
QoS_NbrActConversationalPdpContext_G	eri_sgsn_qos_tab.s4ba6it4su2ahbfbj035xkctsi	INTEGER	#	The number of currently active PDP contexts with QoS conversational.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
QoS_NbrActInteractivePdpContext_G	eri_sgsn_qos_tab.s4ba6jf4su2ahbfbj035xkctsi	INTEGER	#	The number of currently active PDP contexts with QoS interactive.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
QoS_NbrActStreamingPdpContext_G	eri_sgsn_qos_tab.s4ba6jb4su2ahbfbj035xkctsi	INTEGER	#	The number of currently active PDP contexts with QoS streaming.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
QoS_ULConversationalPktForwarded	eri_sgsn_qos_tab.s4ba6ix4su2ahbfbj035xkctsi	INT8	Packets	The number of uplink conversational packets forwarded.	Sum, esgtpbh, espabh, espactbh, tot
ULBackgroundPktForwarded	eri_sgsn_qos_tab.rcwaead53ucfrs00bv03ajlyha	INT8	Packets	Number of uplink background packets forwarded.	Sum, esgtpbh, espabh, espactbh, tot
ULInteractivePktForwarded	eri_sgsn_qos_tab.saccuwuqn2cawtdtwyygoch11h	INT8	Packets	Number of uplink interactive packets forwarded.	Sum, esgtpbh, espabh, espactbh, tot

ULPktForwarded	{ULStreamingPktForwarded} + {ULInteractivePktForwarded} + {ULBackgroundPktForwarded} + {QoS_ULConversationalPktForwarded}	INT8	Packets	Number of downlink packets forwarded on the LLC layer (streaming, interactive background and conversational).	Sum, esgtpbh, espabh, espactbh, tot
ULStreamingPktForwarded	eri_sgsn_qos_tab.tp4kjppwqtccwuaihru1645wai	INT8	Packets	Number of uplink streaming packets forwarded.	Sum, esgtpbh, espabh, espactbh, tot

7.18.19 SGSN.Ericsson.UMTS.Session_management_for_UMTS

Statistic measurements for the session management for the UMTS network

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_SM_SuccActPdpContextSgsnHome_U	100 * {SM_SuccActPdpContextSgsnHome_U}/{SM_AttActPdpContextSgsnHome_U}	FLOAT	%	Percentage of of successful PDP Context Activation procedures per SGSN for home subscribers.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SM_SuccActSecondPdpContext_U	100 * {SM_SuccActSecondPdpContext_U}/{SM_AttActSecondPdpContext_U}	FLOAT	%	Percentage of successfully completed Secondary PDP context activations.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SM_SuccModPdpContextMs_U	100 * {SM_SuccModPdpContextMs_U}/{SM_AttModPdpContextMs_U}	FLOAT	%	Percentage of successful handled MS-Initiated PDP context modifications procedures.	Average, avg, es3gtpbh, es3pabh, es3pactbh

_%_SM_SuccUpdPdpContextGgsn_U	100 * {SM_SuccUpdPdpContextGgsn_U}/{SM_AttUpdPdpContextGgsn_U}	FLOAT	%	Percentage of successfully handled GGSN-Initiated PDP context update procedures for QoS renegotiation. These updates are performed successfully when a positive update PDP context response is received from the SGSN. Only QoS renegotiation procedures are counted.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccActPdpContextDyn	100 * {SuccActPdpContextDyn}/{AttActPdpContextDyn}	FLOAT	%	Percentage of successful dynamic PDP context activations procedures initiated by MS	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccActPdpContext	100 * {SuccActPdpContext}/{AttActPdpContext}	FLOAT	%	Percentage of successful PDP context activations procedures	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccDeactPdpContextMs	100 * {SuccDeactPdpContextMs}/{AttDeactPdpContextMs}	FLOAT	%	Percentage of successful MS initiated	Average, avg, es3gtpbh,

				PDP context deactivation procedures.	es3pabh, es3pactbh
_%_SuccDeactPdpContextSgsn	100 * {SuccDeactPdpContextSgsn}/{AttDeactPdpContextSgsn}	FLOAT	%	Percentage of successful SGSN initiated PDP context deactivations	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccModPdpContextSgsn	100 * {SuccModPdpContextSgsn}/{AttModPdpContextSgsn}	FLOAT	%	Percentage of successfully handled SGSN-Initiated PDP context modifications procedures. These modifications are performed successfully when a positive Modify PDP Context Accept is received from the MS.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccUpdPdpContextSgsn	100 * {SuccUpdPdpContextSgsn}/{AttUpdPdpContextSgsn}	FLOAT	%	Percentage of successfully handled SGSN-initiated PDP Context Update procedures. These updates are performed successfully when a	Average, avg, es3gtpbh, es3pabh, es3pactbh

				positive Update PDP Context response is received from the GGSN.	
AttActPdpContextDyn	eri_sgsn_sesmgmtumts_tab.yg0o5wvr6hbljernvmdkyb0qfw	INT8	#	Number of attempted PDP Context Activation requests where a dynamic PDP address is requested by the MS.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttActPdpContext	eri_sgsn_sesmgmtumts_tab.wpl2s5vpnhc0isqnsm6o5it1jg	INT8	#	Number of attempted PDP Context Activation procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttDeactPdpContextGgsn	eri_sgsn_sesmgmtumts_tab.swal5d5ucvboxdu20so5re51e4	INT8	#	Number of PDP context that is disconnected by the GGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttDeactPdpContextMs	eri_sgsn_sesmgmtumts_tab.vsmtk2hap1c2vbjjvhkgtcptlf	INT8	#	Number of PDP context that is disconnected by the MS.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttDeactPdpContextSgsn	eri_sgsn_sesmgmtumts_tab.rfkj00ogl4clpefgcr2psmn6m3	INT8	#	Number of PDP context that is disconnected by the SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttModPdpContextSgsn	eri_sgsn_sesmgmtumts_tab.s346v1oa6dcjfuiw216gpvr5mt	INT8	#	Number of	Sum,

				attempted SGSN-Initiated PDP Context Modifications procedures	es3gtpbh, es3pabh, es3pactbh, tot
AttUpdPdpContextSgsn	eri_sgsn_sesmgmtumts_tab.thbolkg1vfcnwubqsqwh52evsy	INT8	#	Number of attempted SGSN-initiated PDP Context Update procedures. An Update PDP Context Request message is sent from the SGSN to the GGSN, as part of the GPRS Inter-SGSN Routing Update procedure or the PDP Context Modification procedure, or to redistribute contexts due to load sharing. It is used to change the QoS and the path. The message is sent by the new SGSN at the Inter-SGSN Routing Update	Sum, es3gtpbh, es3pabh, es3pactbh, tot

				procedure.	
NbrActivePdpPerSgsn	eri_sgsn_sesmgmtumts_tab.rjo1faqxk5cgvbrfofdl6onups	INTEGER	#	Number of mobile subscribers with activated PDP context (that is, subscribers that can send/receive GPRS packet data). The gauge is incremented when a subscriber activates the first context and decremented when the subscriber deactivates the last context.	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
NbrActPdpContext	eri_sgsn_sesmgmtumts_tab.ws3c60y52ocantjk64ol1ps2tw	INTEGER	#	Number of active PDP contexts, that is, the gauge is incremented whenever a new PDP context is activated and decremented whenever a PDP context is deactivated.	Average, avg, es3gtpbh, es3pabh, es3pactbh, max, min, tot
SM_AttActPdpContextSgsnHome_U	eri_sgsn_sesmgmtumts_tab.sfrjm1tyoecd6r4uj3uwb2i0dv	INT8	#	The number	Sum,

				of attempted PDP Context Activation procedures per SGSN for home subscribers. Home subscribers are defined by the roaming status parameter during the IMSI-series configuration.	es3gtpbh, es3pabh, es3pactbh, tot
SM_AttActSecondPdpContext_U	eri_sgsn_sesmgmtumts_tab.s4ba6kp4su2ahbfbj035xkctsi	INT8	#	The number of attempted Secondary PDP context activation procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_AttDeactPdpContextSgsnCC38_U	eri_sgsn_sesmgmtumts_tab.tmrw3tdgjlbtcs2lha1km0hwko	INT8	#	The number of PDP context that is disconnected by the SGSN where cause code 38 (Network failure) is sent to the MS.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_AttDeactPdpContextSgsnCC39_U	eri_sgsn_sesmgmtumts_tab.s01exv0yyhcltumjhilp50f01u	INT8	#	The number of PDP context that is disconnected by the SGSN where cause code 39	Sum, es3gtpbh, es3pabh, es3pactbh, tot

				(Reactivation requested) is sent to the MS.	
SM_AttModPdpContextMs_U	eri_sgsn_sesmgmtumts_tab.tjkq4h20ptb63dc523fahvx2kd	INT8	#	The number of attempted MS-initiated PDP Context Modifications procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_AttRabModPS	eri_sgsn_sesmgmtumts_tab.s4ba6jj4su2ahbfbj035xkctsi	INT8	#	The number of attempted RAB Modify Request procedures. It is incremented when RAB Modify Request is received.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_AttUpdPdpContextGgsn_U	eri_sgsn_sesmgmtumts_tab.s4ba6k24su2ahbfbj035xkctsi	INT8	#	The number of attempted GGSN-initiated PDP context update procedures. An Update PDP Context Request message can be sent from a GGSN to an SGSN to renegotiate the QoS of a PDP context. Only attempts at QoS negotiation are counted.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

SM_DeactivatedPDPCtxtOldSgsn_U	eri_sgsn_sesmgmtumts_tab.w2vrqr4kmp2ahu25j035yhsysy	INT8	#	Number of PDP contexts deleted in old SGSN instead of transferred to new SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_NDeactivatePDPCtxtOldSgsn_U	eri_sgsn_sesmgmtumts_tab.w2vrqrbkmp2ahu25j035yhsysy	INT8	#	Number of PDP contexts not deactivated by the old SGSN after the contexts were transferred to the new SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_PdpContextsLost_U	eri_sgsn_sesmgmtumts_tab.s4ba6kb4su2ahbfbj035xkctsi	INT8	#	The number of PDP contexts lost due to any crash or restart except node restart and large restart. The measurement is collected and aggregated periodically. The accuracy may therefore be affected at repeated restarts.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_SuccActPdpContextSgsnHome_U	eri_sgsn_sesmgmtumts_tab.vjflesrjgqbkyt2kbq0re6wcxd	INT8	#	The number of successful PDP Context Activation	Sum, es3gtpbh, es3pabh, es3pactbh,

				procedures per SGSN for home subscribers. Home subscribers are defined by the roaming status parameter during the IMSI-series configuration	tot
SM_SuccActSecondPdpContext_U	eri_sgsn_sesmgmtumts_tab.s4ba6kv4su2ahbfbj035xkctsi	INT8	#	The number of successfully completed Secondary PDP context activations.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_SuccModPdpContextMs_U	eri_sgsn_sesmgmtumts_tab.uesuhte00pcxkrot3x2jpaywkl	INT8	#	The number of successfully handled MS-Initiated PDP context modifications procedures. These modifications are performed successfully when a Modify PDP Context is sent to the MS.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_SuccUpdPdpContextGgsn_U	eri_sgsn_sesmgmtumts_tab.s4ba6kf4su2ahbfbj035xkctsi	INT8	#	The number of successfully handled	Sum, es3gtpbh, es3pabh, es3pactbh,

				GGSN-Initiated PDP context update procedures for QoS renegotiation. These updates are performed successfully when a positive update PDP context response is received from the SGSN. Only QoS renegotiation procedures are counted.	tot
SM_UnsuccActPdpContext_U	eri_sgsn_sesmgmtumts_tab.w2vrqrdkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful primary PDP Context Activation procedures per SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SM_UnsuccActPdpContextCamel_U	eri_sgsn_sesmgmtumts_tab.w2vrqrhkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful primary PDP context activation procedures per SGSN, due to PDP context activation denial, received from the gsmSCF.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

SM_UnsuccActPdpContextCC38_U	eri_sgsn_sesmgmtumts_tab.sqj56g6g4ubdmcqluegtwtl4xb	INT8	#	The number of unsuccessful PDP Context procedures per SGSN due to cause code #38 (Network failure).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccActPdpContextDyn	eri_sgsn_sesmgmtumts_tab.t5n6ve5uhqc60bi0md36jgap4l	INT8	#	Number of successfully completed PDP Context Activation procedures where a dynamic PDP address is used.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccActPdpContext	eri_sgsn_sesmgmtumts_tab.spx2vw0pdvbd4dpfw5dsma0pqi	INT8	#	Number of successfully completed PDP Context Activation procedures.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccDeactPdpContextGgsn	eri_sgsn_sesmgmtumts_tab.w3uayc2l55ceyead14yc5jraji	INT8	#	Number of successfully handled PDP context deactivations initiated by the GGSN. For these context deactivations, the MS has accepted the PDP context deactivation.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccDeactPdpContextMs	eri_sgsn_sesmgmtumts_tab.vvnoreari0bbmcuawpkis52flg	INT8	#	Number of successfully	Sum, es3gtpbh,

				completed PDP context deactivations. For these context deactivations, the GGSN is updated successfully (that is, deletion of the PDP context).	es3pabh, es3pactbh, tot
SuccDeactPdpContextSgsn	eri_sgsn_sesmgmtumts_tab.xf66ibanjlbafr5rd335jqy101	INT8	#	Number of successfully handled PDP context deactivations initiated by the SGSN.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccModPdpContextSgsn	eri_sgsn_sesmgmtumts_tab.x4lhaan133bf4rlcayhr4163ol	INT8	#	Number of successfully handled SGSN-Initiated PDP context modifications procedures. These modifications are performed successfully when a positive Modify PDP Context Accept is received from the MS.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccUpdPdpContextSgsn	eri_sgsn_sesmgmtumts_tab.r5w0ptheyycrwrwi3p3cvdkyvx	INT8	#	Number of successfully handled SGSN-	Sum, es3gtpbh, es3pabh, es3pactbh,

				initiated PDP Context Update procedures. These updates are performed successfully when a positive Update PDP Context response is received from the GGSN.	tot
Tot_SuccActPdpContext	eri_sgsn_sesmgmtumts_tab.xqvsapfp1fciuc11sgvfcxfsmo	INT8	#	Obsolete in R6.0. Number of successful PDP context (including dynamic) activation procedures initiated by the MS	Sum, es3gtpbh, es3pabh, es3pactbh, tot
UnsuccActPdpContextCC26	eri_sgsn_sesmgmtumts_tab.w5dlg6u301c5gb51uqensdf3f3	INT8	#	Number of unsuccessful PDP Context procedures per SGSN due to cause code #26 (Insufficient resources).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
UnsuccActPdpContextCC27_28	eri_sgsn_sesmgmtumts_tab.tobvnyvh6mcqfuirybndyypraw	INT8	#	Number of unsuccessful PDP Context procedures per SGSN due to cause code #27	Sum, es3gtpbh, es3pabh, es3pactbh, tot

				(Unknown or missing access point name) and cause code #28 (Unknown PDP address or PDP type).	
UnsuccActPdpContextCC29	eri_sgsn_sesmgmtumts_tab.wsdjaai1mpcuxe40yt2rmohwij	INT8	#	Number of unsuccessful PDP Context procedures per SGSN due to cause code #29 (User Authentication Failed). The counter is incremented if the request is rejected by GGSN (RADIUS).	Sum, es3gtpbh, es3pabh, es3pactbh, tot
UnsuccActPdpContextCC32_33	eri_sgsn_sesmgmtumts_tab.r3e6ctifpkct2tpbcxaevl2clb	INT8	#	Number of unsuccessful PDP Context procedures per SGSN due to cause code #32 (Service option not supported) and cause code #33 (Requested Server Option not subscribed).	Sum, es3gtpbh, es3pabh, es3pactbh, tot

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Statistic measurements for the session management

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_SM_SuccActPdpContextSgsnHome_G	100 * {SM_SuccActPdpContextSgsnHome_G}/{SM_AttActPdpContextSgsnHome_G}	FLOAT	%	Percentage of successful PDP Context Activation procedures per SGSN for home subscribers.	Average, avg, esgtpbh, espabh, espactbh
_%_SM_SuccActSecondPdpContext_G	100 * {SM_SuccActSecondPdpContext_G}/{SM_AttActSecondPdpContext_G}	FLOAT	%	Percentage of successfully completed Secondary PDP context activations.	Average, avg, esgtpbh, espabh, espactbh
_%_SM_SuccRabAssignment	100 * {SM_SuccRabAssignment}/{SM_AttRabAssignment}	FLOAT	%	Percentage of successful RAB assignments.	Average, avg, esgtpbh, espabh, espactbh
_%_SM_SuccUpdPdpContextGgsn_G	100 * {SM_SuccUpdPdpContextGgsn_G}/{SM_AttUpdPdpContextGgsn_G}	FLOAT	%	Percentage of successfully handled GGSN-Initiated PDP context update procedures for QoS renegotiation. These	Average, avg, esgtpbh, espabh, espactbh

					updates are performed successfully when a positive update PDP context response is received from the SGSN. Only QoS renegotiation procedures are counted.	
_%_SuccActPdpContextDyn	100 * {SuccActPdpContextDyn}/{AttActPdpContextDyn}	FLOAT	%	Percentage of successful dynamic PDP context activations procedures initiated by MS	Average, avg, esgtpbh, espabh, espactbh
_%_SuccActPdpContext	100 * {SuccActPdpContext}/{AttActPdpContext}	FLOAT	%	Percentage of successful PDP context activations procedures initiated by MS	Average, avg, esgtpbh, espabh, espactbh
_%_SuccDeactPdpContextGgsn	100 * {SuccDeactPdpContextGgsn}/{AttDeactPdpContextGgsn}	FLOAT	%	Percentage of successful GGSN initiated PDP context deactivations	Average, avg, esgtpbh, espabh, espactbh
_%_SuccDeactPdpContextMs	100 * {SuccDeactPdpContextMs}/{AttDeactPdpContextMs}	FLOAT	%	Percentage of successful MS initiated PDP context deactivation procedures	Average, avg, esgtpbh, espabh, espactbh

_%_SuccDeactPdpContextSgsn	100 * {SuccDeactPdpContextSgsn}/{AttDeactPdpContextSgsn}	FLOAT	%	Percentage of successful SGSN initiated PDP context deactivations	Average, avg, esgtpbh, espabh, espactbh
_%_SuccModPdpContextMs	100 * {SuccModPdpContextMs}/{AttModPdpContextMs}	FLOAT	%	Percentage of successfully handled MS-Initiated PDP Context Modifications procedures.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccModPdpContextSgsn	100 * {SuccModPdpContextSgsn}/{SM_AttModPdpContextSgsn_G}	FLOAT	%	Percentage of successful handled SGSN-initiated PDP Context Modifications procedures.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccUpdPdpContextSgsn	100 * {SuccUpdPdpContextSgsn}/{SM_AttUpdPdpContextSgsn_G}	FLOAT	%	Percentage of successful attempted SGSN-initiated PDP context update procedures	Average, avg, esgtpbh, espabh, espactbh
AttActPdpContextDyn	eri_sgsn_sesmgmt_tab.rima5wqrp4cnbr4xg6dtpex1gh	INT8	#	Number of attempted dynamic PDP context activations procedures initiated by MS	Sum, esgtpbh, espabh, espactbh, tot
AttActPdpContext	eri_sgsn_sesmgmt_tab.ytpjikqaafb3esm1nwaiviftrg	INT8	#	Number of attempted PDP context	Sum, esgtpbh, espabh,

				activation procedures initiated by MS	espactbh, tot
AttDeactPdpContextGgsn	eri_sgsn_sesmgmt_tab.y5ucgi42cgbc4d1r1jhxigep5r	INT8	#	Number of PDP context that is disconnected by the GGSN.	Sum, esgtpbh, espabh, espactbh, tot
AttDeactPdpContextMs	eri_sgsn_sesmgmt_tab.u1pifikiyybnmrgse01n6e6sut	INT8	#	Number of PDP context that is disconnected by the MS.	Sum, esgtpbh, espabh, espactbh, tot
AttDeactPdpContextSgsn	eri_sgsn_sesmgmt_tab.rswlphngm1bkisaf2cta4v3vde	INT8	#	Number of PDP context that is disconnected by the SGSN.	Sum, esgtpbh, espabh, espactbh, tot
AttModPdpContextMs	eri_sgsn_sesmgmt_tab.sf3gaculigc1odvl42ibsu2ikl	INT8	#	Number of attempted MS-initiated PDP Context Modifications procedures.	Sum, esgtpbh, espabh, espactbh, tot
discardedPayloadPacket	eri_sgsn_sesmgmt_tab.s4ba6kj4su2ahbfbj035xkctsi	INT8	#	The number of discarded payload PDUs on DP level, due to overload protection or incorrect information elements.	Sum, esgtpbh, espabh, espactbh, tot
discardedSessionMgmnt	eri_sgsn_sesmgmt_tab.s4ba6kh4su2ahbfbj035xkctsi	INT8	#	The number of discarded session management	Sum, esgtpbh, espabh, espactbh,

					messages on DP level, due to overload protection or incorrect information elements.	tot
gprsSmSgsnDeactivations	eri_sgsn_sesmgmt_tab.w6cwkt3tpibxsto26peym0fnd6	INT8	#	Number of PDP Context Deactivations per SGSN of the PDP Contexts that has been active in SGSN.	Sum, esgtpbh, espabh, espactbh, tot
gprsSmSgsnUnsuccessfulActivations	eri_sgsn_sesmgmt_tab.rtrcfruoj4c4ncwmvp3uokb21q	INT8	#	Number of unsuccessful PDP Context Activation procedures per SGSN.	Sum, esgtpbh, espabh, espactbh, tot
gprsSmSgsnUnsuccessfulModifications	eri_sgsn_sesmgmt_tab.vlrvibcjsxctudpknii22l1xdp	INT8	#	Number of unsuccessful PDP Context Modification procedures per SGSN.	Sum, esgtpbh, espabh, espactbh, tot
NbrActivePdpPerSgsn	eri_sgsn_sesmgmt_tab.slf3fdndpkb6xeakq31ub4fq4o	INTEGER	#	Number of mobile subscribers with activated PDP context (that is, subscribers that can send/receive GPRS packet data). The gauge is incremented	Average, avg, esgtpbh, espabh, espactbh, max, min, tot

				when a subscriber activates the first context and decremented when the subscriber deactivates the last context.	
NbrActPdpContext	eri_sgsn_sesmgmt_tab.ym06fw1sjmb3vu5p4kx5euji15	INTEGER	#	Number of active PDP context	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
SM_AttActPdpContextSgsnHome_G	eri_sgsn_sesmgmt_tab.y2qefww4swbgurdvprd05dcifv	INT8	#	The number of attempted PDP Context Activation procedures per SGSN for home subscribers. Home subscribers are defined by the roaming status parameter during the IMSI-series configuration.	Sum, esgtpbh, espabh, espactbh, tot
SM_AttActSecondPdpContext_G	eri_sgsn_sesmgmt_tab.s4ba6kl4su2ahbfbj035xkctsi	INT8	#	The number of attempted Secondary PDP context activation procedures.	Sum, esgtpbh, espabh, espactbh, tot

SM_AttDeactPdpContextSgsnCC38_G	eri_sgsn_sesmgmt_tab.rcauigjgrccqvch12jktkonbkj	INT8	#	The number of PDP context that is disconnected by the SGSN where cause code 38 (Network failure) is sent to the MS.	Sum, esgtpbh, espabh, espactbh, tot
SM_AttDeactPdpContextSgsnCC39_G	eri_sgsn_sesmgmt_tab.rdlgbafw5cc1eudbh3df6gkjdr	INT8	#	The number of PDP context that is disconnected by the SGSN where cause code 39 (Reactivation requested) is sent to the MS.	Sum, esgtpbh, espabh, espactbh, tot
SM_AttModPdpContextSgsn_G	eri_sgsn_sesmgmt_tab.wox0xrxqgfcq6t04x5ahhk26k6	INT8	#	The number of attempted SGSN-Initiated PDP Context Modifications procedures.	Sum, esgtpbh, espabh, espactbh, tot
SM_AttRabAssignment	eri_sgsn_sesmgmt_tab.r0pbegwpacbmfrpxptsa6ulq34	INT8	#	The number of RAB assignment attempts. It is increased when a RAB Assignment Requests message with the information element	Sum, esgtpbh, espabh, espactbh, tot

				Setup RAB is sent to the RNC.	
SM_AttUpdPdpContextGgsn_G	eri_sgsn_sesmgmt_tab.s4ba6jx4su2ahbfbj035xkctsi	INT8	#	The number of attempted GGSN-initiated PDP context update procedures. An Update PDP Context Request message can be sent from a GGSN to an SGSN to renegotiate the QoS of a PDP context. Only attempts at QoS renegotiation are counted.	Sum, esgtpbh, espabh, espactbh, tot
SM_AttUpdPdpContextSgsn_G	eri_sgsn_sesmgmt_tab.w3xgy1sqibb03urha3cs34xo4c	INT8	#	The number of attempted SGSN-initiated PDP context update procedures. An Update PDP Context Request message shall be sent from a SGSN to a GGSN as part of the GPRS Inter SGSN Routing Update procedure or	Sum, esgtpbh, espabh, espactbh, tot

				the PDP Context Modification procedure. It shall be used to change the QoS and the path. The message shall be sent by the new SGSN at the Inter SGSN Routing Update procedure.	
SM_DeactivatedPDPCtxtOldSgsn_G	eri_sgsn_sesmgmt_tab.w2vrqr2kmp2ahu25j035yhsysy	INT8	#	Number of PDP contexts deleted in old SGSN instead of transferred to new SGSN.	Sum, esgtpbh, espabh, espactbh, tot
SM_NDeactivatePDPCtxtOldSgsn_G	eri_sgsn_sesmgmt_tab.w2vrqr6kmp2ahu25j035yhsysy	INT8	#	Number of PDP contexts not deactivated by the old SGSN after the contexts were transferred to the new SGSN.	Sum, esgtpbh, espabh, espactbh, tot
SM_PdpContextsLost_G	eri_sgsn_sesmgmt_tab.s4ba6k64su2ahbfbj035xkctsi	INT8	#	The number of PDP contexts lost due to any crash or restart except node restart and	Sum, esgtpbh, espabh, espactbh, tot

				large restart. The measurement is collected and aggregated periodically. The accuracy may therefore be affected at repeated restarts.	
SM_SuccActPdpContextSgsnHome_G	eri_sgsn_sesmgmt_tab.ynf5opa4iwckrdkfgde0pmk413	INT8	#	The number of successful PDP Context Activation procedures per SGSN for home subscribers. Home subscribers are defined by the roaming status parameter during the IMSI-series configuration	Sum, esgtpbh, espabh, espactbh, tot
SM_SuccActSecondPdpContext_G	eri_sgsn_sesmgmt_tab.s4ba6kt4su2ahbfbj035xkctsi	INT8	#	The number of successfully completed Secondary PDP context activations.	Sum, esgtpbh, espabh, espactbh, tot
SM_SuccRabAssignment	eri_sgsn_sesmgmt_tab.yqgng353uycdwr2r6ggtedrxwn	INT8	#	The number of successful RAB assignments. It is increased	Sum, esgtpbh, espabh, espactbh, tot

				when a RAB Assignment Response message is received indicating a successful RAB assignment.	
SM_SuccUpdPdpContextGgsn_G	eri_sgsn_sesmgmt_tab.s4ba6kd4su2ahbfbj035xkctsi	INT8	#	The number of successfully handled GGSN-Initiated PDP context update procedures for QoS renegotiation . These updates are performed successfully when a positive update PDP context response is received from the SGSN. Only QoS renegotiation procedures are counted.	Sum, esgtpbh, espabh, espactbh, tot
SM_UnsuccActPdpContextCamel_G	eri_sgsn_sesmgmt_tab.w2vrqrfkmp2ahu25j035yhsysy	INT8	#	Number of unsuccessful primary PDP context activation procedures per SGSN, due to PDP	Sum, esgtpbh, espabh, espactbh, tot

				context activation denial, received from the gsmSCF.	
SM_UnsuccActPdpContextCC38_G	eri_sgsn_sesmgmt_tab.t1wvvdnflmbrrbkbpo00fyhfuq	INT8	#	The number of unsuccessful PDP Context procedures per SGSN due to cause code #38 (Network failure).	Sum, esgtpbh, espabh, espactbh, tot
SuccActPdpContextDyn	eri_sgsn_sesmgmt_tab.uikbgxnwotb0qe0mm0rltifiay	INT8	#	Number of successful dynamic PDP context activations procedures initiated by MS	Sum, esgtpbh, espabh, espactbh, tot
SuccActPdpContext	eri_sgsn_sesmgmt_tab.tg5ugl2acfcobc4i10b36tpqau	INT8	#	Number of successful PDP context activations procedures initiated by MS	Sum, esgtpbh, espabh, espactbh, tot
SuccDeactPdpContextGgsn	eri_sgsn_sesmgmt_tab.rnqndc1f21ba4c51v5ty0nrhgx	INT8	#	Number of successfully handled PDP context deactivations initiated by the GGSN.	Sum, esgtpbh, espabh, espactbh, tot
SuccDeactPdpContextMs	eri_sgsn_sesmgmt_tab.vkuxppalb6ciwemgj6k0rvwwtl	INT8	#	Number of successfully completed PDP context	Sum, esgtpbh, espabh, espactbh,

				deactivations.	tot
SuccDeactPdpContextSgsn	eri_sgsn_sesmgmt_tab.y1ix11heu6bspephp22f55iaub	INT8	#	Number of successfully handled PDP context deactivations initiated by the SGSN.	Sum, esgtpbh, espabh, espactbh, tot
SuccModPdpContextMs	eri_sgsn_sesmgmt_tab.r3u2moirx4cosuynnn5usdwsvd	INT8	#	Number of successfully handled MS-Initiated PDP Context Modifications procedures. These modifications are performed successfully when a positive Modify PDP Context Accept is received from the MS.	Sum, esgtpbh, espabh, espactbh, tot
SuccModPdpContextSgsn	eri_sgsn_sesmgmt_tab.urvyyvgmhtc0wscye4vu1wyfr0	INT8	#	Number of successfully handled SGSN-initiated PDP Context Modifications procedures. These modifications are performed successfully when a positive	Sum, esgtpbh, espabh, espactbh, tot

				Modify PDP Context Accept is received from the MS.	
SuccUpdPdpContextSgsn	eri_sgsn_sesmgmt_tab.shr62c1ic4cuactvcd0c6gsyem	INT8	#	Number of successfully handled SGSN-initiated PDP Context Update procedures. These updates are performed successfully when a positive Update PDP Context response is received from the GGSN.	Sum, esgtpbh, espabh, espactbh, tot
Tot_AttActPdpContext	eri_sgsn_sesmgmt_tab.s41gl0nhgtboqddahsmuvsqk6t	INT8	#	Number of attempted PDP context (included Dynamic) activation procedures initiated by MS	Sum, esgtpbh, espabh, espactbh, tot
Tot_SuccActPdpContext	{SuccActPdpContext}	INT8	#	Obsolete in R6.0.Number of successful PDP context (included Dynamic) activation procedures initiated by	Sum, esgtpbh, espabh, espactbh, tot

				MS	
UnsuccActPdpContextCC26	eri_sgsn_sesmgmt_tab.yfwjsm526wcpjdqismx1baal45	INT8	#	Number of unsuccessful PDP Context procedures per SGSN due to cause code #26 (Insufficient resources).	Sum, esgtpbh, espabh, espactbh, tot
UnsuccActPdpContextCC27_28	eri_sgsn_sesmgmt_tab.r60ydipeqsbnsdmexhsksexsiv	INT8	#	Number of unsuccessful PDP Context procedures per SGSN due to cause code #27 (Unknown or missing access point name) and cause code #28 (Unknown PDP address or PDP type).	Sum, esgtpbh, espabh, espactbh, tot
UnsuccActPdpContextCC29	eri_sgsn_sesmgmt_tab.sujpkpukpub6qe50wk1wle4lft	INT8	#	Number of unsuccessful PDP Context procedures per SGSN due to cause code #29 (User Authenticatio n Failed).	Sum, esgtpbh, espabh, espactbh, tot
UnsuccActPdpContextCC32_33	eri_sgsn_sesmgmt_tab.uciwefiphsbvfrtkg2uuk6p3bg	INT8	#	Number of unsuccessful PDP Context procedures per SGSN	Sum, esgtpbh, espabh, espactbh, tot

				due to cause code #32 (Service option not supported) and cause code #33 (Requested Server Option not subscribed).	

7.18.21 SGSN.Ericsson.UMTS.Short_messages_for_UMTS

Statistic measurements for the Short Message Service for the UMTS Network

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_SuccMoPS	100 * {SuccMoPS}/{AttMoPS}	FLOAT	%	Percentage of successful PS SMS Mobile Originating attempts.	Average, avg, es3gtpbh, es3pabh, es3pactbh
_%_SuccMtPS	100 * {SuccMtPS}/{AttMtPS}	FLOAT	%	Percentage of successful PS SMS Mobile Terminating attempts.	Average, avg, es3gtpbh, es3pabh, es3pactbh
AttMoPS	eri_sgsn_shortmsgumts_tab.w230hhljg1bqssbsixgb66clj4	INT8	#	Number of PS SMS Mobile Originating attempts.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
AttMtPS	eri_sgsn_shortmsgumts_tab.yqfp4qasltboqstp56sv4n3x6d	INT8	#	Number of PS SMS Mobile Terminating attempts.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccMoPS	eri_sgsn_shortmsgumts_tab.sie05winijbjtcokfv0p526m6b	INT8	#	Number of successful PS SMS Mobile Originating attempts.	Sum, es3gtpbh, es3pabh, es3pactbh, tot
SuccMtPS	eri_sgsn_shortmsgumts_tab.wb4wdnhv0cc0ie2aoq1r5dj62v	INT8	#	Number of successful PS SMS Mobile Terminating attempts.	Sum, es3gtpbh, es3pabh, es3pactbh, tot

7.18.22 SGSN.Ericsson.UMTS.Short_Message

Statistic measurements for the Short Message Service

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_SuccMoPS	100 * {SuccMoPS}/{AttMoPS}	FLOAT	Erlang	Percentage of successful PS SMS Mobile Originating attempts.	Average, avg, esgtpbh, espabh, espactbh
_%_SuccMtPS	100 * {SuccMtPS}/{AttMtPS}	FLOAT	%	Percentage of successful PS SMS Mobile Terminating attempts.	Average, avg, esgtpbh, espabh, espactbh
AttMoPS	eri_sgsn_shortmsg_tab.ruot1006mpbk5dnqmxwqp4wgtt	INT8	#	Number of PS SMS Mobile Originating attempts.	Sum, esgtpbh, espabh, espactbh, tot
AttMtPS	eri_sgsn_shortmsg_tab.vou1c01tbkcowreq25qalprf22	INT8	#	Number of PS SMS Mobile Terminating attempts.	Sum, esgtpbh, espabh, espactbh, tot
SuccMoPS	eri_sgsn_shortmsg_tab.w2ylklq3o3bqrug20jbsntqyam	INT8	#	Number of successful PS SMS Mobile Originating attempts.	Sum, esgtpbh, espabh, espactbh, tot
SuccMtPS	eri_sgsn_shortmsg_tab.ryk21jt1qxc3yeq525brdckrjt	INT8	#	Number of successful PS SMS Mobile Terminating attempts.	Sum, esgtpbh, espabh, espactbh, tot

7.18.23 SGSN.Ericsson.UMTS.SS7_Stack

SS7 stack statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7AssocAvlForUP	eri_sgsn_s7stk_tab.s4ba6fv4su2ahbfbj035xkctsi	INT8	#	Number of times associations are available for UP traffic.	Sum, esgtpbh, espabh, espactbh, tot
ss7AssocUnavlForUP	eri_sgsn_s7stk_tab.s4ba6ft4su2ahbfbj035xkctsi	INT8	#	Number of times associations are unavailable for User Part (UP) traffic.	Sum, esgtpbh, espabh, espactbh, tot
ss7MsgDiscardedOPCScreening	eri_sgsn_s7stk_tab.w2vrqrjkmp2ahu25j035yhsysy	INT8	#	Number of discarded MSU packets received.	Sum, esgtpbh, espabh, espactbh, tot
ss7MSUDiscardError	eri_sgsn_s7stk_tab.s4ba6mf4su2ahbfbj035xkctsi	INT8	#	Message signalling unit (MSU) is discarded due to routing data error	Sum, esgtpbh, espabh, espactbh, tot

ss7NoOfRunDialTot	eri_sgsn_s7stk_tab.s4ba6mv4su2ahbfbj035xkctsi	INTEGER	#	Number of running dialogues, total.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
ss7NoOfRunOpTot	eri_sgsn_s7stk_tab.s4ba6mx4su2ahbfbj035xkctsi	INTEGER	#	Number of running operations, total.	Average, avg, esgtpbh, espabh, espactbh, max, min, tot
ss7ProtocolErrorComp	eri_sgsn_s7stk_tab.s4ba6ml4su2ahbfbj035xkctsi	INT8	#	Protocol error detected in component portion	Sum, esgtpbh, espabh, espactbh, tot
ss7ProtocolErrorTraA	eri_sgsn_s7stk_tab.s4ba6mn4su2ahbfbj035xkctsi	INT8	#	Protocol error occurred, since P-abort is unrecognized transaction identity (TID)	Sum, esgtpbh, espabh, espactbh, tot
ss7ProtocolErrorTraD	eri_sgsn_s7stk_tab.s4ba6mp4su2ahbfbj035xkctsi	INT8	#	Protocol error occurred, since P-abort is unrecognized message type	Sum, esgtpbh, espabh, espactbh, tot
ss7SPInaccess	eri_sgsn_s7stk_tab.s4ba6mh4su2ahbfbj035xkctsi	INT8	#	Adjacent signalling point (SP) is inaccessible	Sum, esgtpbh, espabh, espactbh, tot
ss7TCMessageReceive	eri_sgsn_s7stk_tab.s4ba6mr4su2ahbfbj035xkctsi	INT8	#	Number of TC messages received by the stack	Sum, esgtpbh, espabh, espactbh, tot
ss7TCMessageSent	eri_sgsn_s7stk_tab.s4ba6mt4su2ahbfbj035xkctsi	INT8	#	Number of transaction capability (TC) messages sent by the stack	Sum, esgtpbh, espabh, espactbh, tot

7.18.24 SGSN.Ericsson.UMTS.Subnetwork_dependent_convergence_protocol

Statistic measurements for the Subnetwork Dependent Convergence Protocol (SNDCP)

KPI Name	Expression	Data Type	Units	Description	Aggregation
downlinkSndcpNpduSent	eri_sgsn_sndcp_tab.vcxy2e4ppab1au6lgdvjun0q61	INT8	#	Number of outgoing N-PDUs sent by the SNDCP protocol layer.	Sum, esgtpbh, espabh, espactbh, tot
downlinkSndcpOctetSent	eri_sgsn_sndcp_tab.rtqiymo0phbabuk5kysywqdnkh	INT8	kOctets	Number of octets in outgoing N-PDUs sent by the SNDCP	Sum, esgtpbh, espabh, espactbh,

				protocol layer. The unit for this counter is kOctets (1024 octets).	pcl95, tot
uplinkSndcpNpduReceived	eri_sgsn_sndcp_tab.yndof3ldaycxjrnuhov6frkhlr	INT8	#	Number of incoming N-PDUs received by the SNDCP protocol layer.	Sum, esgtpbh, espabh, espactbh, tot
uplinkSndcpOctetReceivedMode	eri_sgsn_sndcp_tab.ygnuiitmxlbtlc1lnxuvtws425	INT8	kOctets	Number of octets in incoming N-PDUs received by the SNDCP protocol layer. The unit for this counter is kOctets (1024 octets).	Sum, esgtpbh, espabh, espactbh, pcl95, tot

7.18.25 SGSN.Ericsson.UMTS.WCDMA_GSM_Intersystem_Change

WCDMA-GSM intersystem change statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
_%_ISYSC_SuccIntraSgsnGsmUmtsRau	100 * {ISYSC_SuccIntraSgsnGsmUmtsRau}/{ISYSC_AttIntraSgsnGsmUmtsRau}	FLOAT	%	The percentage of successful intra-SGSN inter-system changes from GSM to WCDMA Systems.	Average, avg, esgtpbh, espabh, espactbh
_%_ISYSC_SuccIntraSgsnUmtsGsmRau	100 * {ISYSC_SuccIntraSgsnUmtsGsmRau}/{ISYSC_AttIntraSgsnUmtsGsmRau}	FLOAT	%	The percentage of successful intra-SGSN inter-system changes from	Average, avg, esgtpbh, espabh, espactbh

				WCDMA Systems to GSM.	
ISYSC_AttIntraSgsnGsmUmtsRau	eri_sgsn_wcdgsminteschg_tab.xhsqnq5dj3bgcdh21cnjytppar	INT8	#	The number of attempted intra-SGSN inter-system changes from GSM to WCDMA Systems.	Sum, esgtpbh, espabh, espactbh, tot
ISYSC_AttIntraSgsnUmtsGsmRau	eri_sgsn_wcdgsminteschg_tab.ry3wotlmx1cpqcfrjenxtd3k1p	INT8	#	The number of attempted intra-SGSN inter-system changes from WCDMA Systems to GSM.	Sum, esgtpbh, espabh, espactbh, tot
ISYSC_SuccIntraSgsnGsmUmtsRau	eri_sgsn_wcdgsminteschg_tab.rx5flue0whbrtsmobtvcsuvd5q	INT8	#	The number of successful intra-SGSN inter-system changes from GSM to WCDMA Systems.	Sum, esgtpbh, espabh, espactbh, tot
ISYSC_SuccIntraSgsnUmtsGsmRau	eri_sgsn_wcdgsminteschg_tab.w4yhujd6mpbm2txgjsvtbosxxf	INT8	#	The number of successful intra-SGSN inter-system changes from WCDMA	Sum, esgtpbh, espabh, espactbh, tot

				Systems to GSM.	

7.19 Signalling_Association Performance Indicators

- Signalling_Association.Ericsson.UMTS.M3UA

7.19.1 Signalling_Association.Ericsson.UMTS.M3UA

SS7 association statistic

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7MessageSentPerAssociation	eri_sigassoc_m3ua_tab.s4ba6fx4su2ahbfbj035xkctsi	INT8	#	Number of Message Signal Units (MSUs) sent on the MTP-L3 User Adaptation Layer (M3UA) association.	Sum, esgtpbh, espabh, espactbh, tot
ss7MsgReceivedPerAssociation	eri_sigassoc_m3ua_tab.w2vrqmtkmp2ahu25j035yhsysy	INT8	#	Number of Message Signal Units (MSUs) received on the MTP-L3 User Adaptation Layer (M3UA) association.	Sum, esgtpbh, espabh, espactbh, tot
ss7OctetsSentPerAssociation	eri_sigassoc_m3ua_tab.w2vrqmxkmp2ahu25j035yhsysy	INT8	#	Number of KB sent by M3UA on an M3UA association.	Sum, esgtpbh, espabh, espactbh, tot
ss7OctReceivedPerAssociation	eri_sigassoc_m3ua_tab.w2vrqmvkmp2ahu25j035yhsysy	INT8	#	Number of KB received by M3UA on an M3UA association.	Sum, esgtpbh, espabh, espactbh, tot

7.20 Signalling_Point Performance Indicators

- Signalling_Point.Ericsson.UMTS.SS7_Stack_for_UMTS
- Signalling_Point.Ericsson.UMTS.SS7_Stack

7.20.1 Signalling_Point.Ericsson.UMTS.SS7_Stack_for_UMTS

SS7 stack statistics for UMTS

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7MessageOrigCR	eri_ss7point_s7stkumts_tab.s4ba6n04su2ahbfbj035xkctsi	INT8	#	Number of Connection Request messages sent.	Sum, tot
ss7MessageOrigDT1	eri_ss7point_s7stkumts_tab.s4ba6n24su2ahbfbj035xkctsi	INT8	#	Number of Data Form 1 messages sent (Connection Oriented data).	Sum, tot
ss7MessageOrigRLSD	eri_ss7point_s7stkumts_tab.s4ba6n44su2ahbfbj035xkctsi	INT8	#	Number of Released messages sent.	Sum, tot
ss7MessageTermCR	eri_ss7point_s7stkumts_tab.s4ba6n64su2ahbfbj035xkctsi	INT8	#	Number of Connection Request messages received.	Sum, tot
ss7MessageTermDT1	eri_ss7point_s7stkumts_tab.s4ba6nb4su2ahbfbj035xkctsi	INT8	#	Number of Data Form 1 messages received (Connection Oriented data).	Sum, tot
ss7MessageTermRLSD	eri_ss7point_s7stkumts_tab.s4ba6nd4su2ahbfbj035xkctsi	INT8	#	Number of Released messages received.	Sum, tot
ss7NoOfCurrRunConnTot	eri_ss7point_s7stkumts_tab.s4ba6nf4su2ahbfbj035xkctsi	INTEGER	#	Number of currently running connections total	Average, avg, max, min, tot

7.20.2 Signalling_Point.Ericsson.UMTS.SS7_Stack

SS7 stack statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7MessageOrigUDT	eri_ss7point_s7stk_tab.s4ba6m44su2ahbfbj035xkctsi	INT8	#	Number of unit data (UDT) messages originated per class and source	Sum, tot
ss7MessageOrigXUDT	eri_ss7point_s7stk_tab.s4ba6m64su2ahbfbj035xkctsi	INT8	#	Number of extended unit data (XUDT) messages originated per class and source	Sum, tot

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7MessageTermUDT	eri_ss7point_s7stk_tab.s4ba6mb4su2ahbfbj035xkctsi	INT8	#	Number of UDT messages terminated per class and sink	Sum, tot
ss7MessageTermXUDT	eri_ss7point_s7stk_tab.s4ba6md4su2ahbfbj035xkctsi	INT8	#	Number of XUDT messages, that are terminated	Sum, tot
ss7NoOfIncSegMes	eri_ss7point_s7stk_tab.s4ba6mj4su2ahbfbj035xkctsi	INT8	#	Number of incoming segmented messages.	Sum, tot

7.21 Subsystem Performance Indicators

- Subsystem.Ericsson.UMTS.TCAP

7.21.1 Subsystem.Ericsson.UMTS.TCAP

SS7 TCAP statistics

KPI Name	Expression	Data Type	Units	Description	Aggregation
ss7NoOfRunDialPerSsn	eri_subsystem_tcap_tab.s0vpymoib6ck2djgp3vkkvvtkw	INTEGER	#	Number of running TCAP dialogs per SSN.	Average, avg, max, min, tot
ss7NoOfRunOpPerSsn	eri_subsystem_tcap_tab.uwjcsopfd4cavs0v6nx0v41lxp	INTEGER	#	Number of running TCAP operations per SSN.	Average, avg, max, min, tot

7.22 Tunnel_Association Performance Indicators

- Tunnel_Association.Ericsson.UMTS.GRE_TA

7.22.1 Tunnel_Association.Ericsson.UMTS.GRE_TA

Generic Routing Encapsulation (GRE) Tunnel Association statistics

KPI Name	Expression	Data	Units	Description	Aggregation

		Type			
greTaCurrentBytes	eri_tunassoc_greta_tab.rassvmad2cb5rs5gxe4e1f1xwf	INT8	Bytes	Number of bytes transferred including the tunnel overhead.	Sum, esgtpbh, espabh, espactbh, tot
greTaPacketsNotOk	eri_tunassoc_greta_tab.s04mfhf6mwcerbio3kniiy6b0h	INT8	Packets	Number of incorrect packets processed associated with the current TA.	Sum, esgtpbh, espabh, espactbh, tot
greTaPacketsOk	eri_tunassoc_greta_tab.sl36uhuhpqcx2uf6stifvtrajg	INT8	Packets	Number of correct packets processed associated with the current TA.	Sum, esgtpbh, espabh, espactbh, tot

8 Database Schema

8.1 Hierarchy Tables

This section lists the hierarchy ("NC") tables that are included in this technology pack module's database schema.

8.1.1 NC_BEARER

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
BEARER_ID	VARCHAR2(50)		[FRWan] Node_Id & "/" & moid
PCU_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[FRWan] Node_Id

NODE_ID	VARCHAR2(50)	Y	[FRWan] Node_Id
REGION_ID	VARCHAR2(50)	Y	[FRWan] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[FRWan] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
BEARER_NAME	VARCHAR2(255)		[FRWan] Node_Id & "/" & moid
TECHNOLOGY	VARCHAR2(50)		[FRWan] "UMTS"
CIR	VARCHAR2(50)		[FRWan] "Populated by the customer"
NODE_NAME	VARCHAR2(255)		[FRWan] Node_Id
NODE_TYPE	VARCHAR2(50)		[FRWan] "SGSN"
VENDOR	VARCHAR2(50)		[FRWan] "Ericsson"

8.1.2 NC_BROADBAND_LINK

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
BBLINK_ID	VARCHAR2(50)		[LinkBd] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[LinkBd] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[LinkBd] Node_Id
IFACE_ATM_PORT_ID	VARCHAR2(50)	Y	[LinkBd] Node_Id & "/" & Mag_Id & "." & Slot_Id & "." & Port_Id
REGION_ID	VARCHAR2(50)	Y	[LinkBd] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[LinkBd] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
BBLINK_NAME	VARCHAR2(255)		[LinkBd] Node_Id & "/" & moid

VPI_ID	VARCHAR2(50)		[LinkBd] VPI_Id
VCI_ID	VARCHAR2(50)		[LinkBd] VCI_Id
VENDOR	VARCHAR2(50)		[LinkBd] "Ericsson"

8.1.3 NC_DLCI

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
DLCI_ID	VARCHAR2(50)		[FRPvc] Node_Id &"/"& moid
NSVC_ID	VARCHAR2(50)	Y	
BEARER_ID	VARCHAR2(50)	Y	[FRPvc] Node_Id & "/" & moid
REGION_ID	VARCHAR2(50)	Y	[FRPvc] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[FRPvc] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
DLCI_NAME	VARCHAR2(255)		[FRPvc] moid
TECHNOLOGY	VARCHAR2(50)		[FRPvc] "UMTS"
VENDOR	VARCHAR2(50)		[FRPvc] "Ericsson"

8.1.4 NC_IFACE_AREA

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
IFACE_AREA_ID	VARCHAR2(50)		[OSPF_Area] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[OSPF_Area] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[OSPF_Area] Node_Id

REGION_ID	VARCHAR2(50)	Y	[OSPF_Area] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[OSPF_Area] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
IFACE_AREA_NAME	VARCHAR2(255)		[OSPF_Area] Node_Id & "/" & moid
AREA_ID	VARCHAR2(50)		[OSPF_Area] Node_Id & "/" & Area_Id
TECHNOLOGY	VARCHAR2(50)		[OSPF_Area] "UMTS"
IFACE_ID	VARCHAR2(255)		
VENDOR	VARCHAR2(50)		[OSPF_Area] "Ericsson"

8.1.5 NC_IFACE_ATM_PORT

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
IFACE_ATM_PORT_ID	VARCHAR2(50)		[ATM_Index] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[ATM_Index] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[ATM_Index] Node_Id
REGION_ID	VARCHAR2(50)	Y	[ATM_Index] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[ATM_Index] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
PORT	VARCHAR2(50)		[ATM_Index] Port_Id
IFACE_ATM_PORT_NAME	VARCHAR2(255)		[ATM_Index] Node_Id & "/" & moid
VENDOR	VARCHAR2(50)		[ATM_Index] "Ericsson"

8.1.6 NC_IFACE_BGP_PEER

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
IFACE_BGP_PEER_ID	VARCHAR2(50)		[BGP] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[BGP] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[BGP] Node_Id
REGION_ID	VARCHAR2(50)	Y	[BGP] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[BGP] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
IFACE_BGP_PEER_NAME	VARCHAR2(255)		[BGP] Node_Id & "/" & moid
VENDOR	VARCHAR2(50)		[BGP] "Ericsson"

8.1.7 NC_IFACE_ETHERNET_PORT

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
IFACE_ETHERNET_PORT_ID	VARCHAR2(50)		[Ethernet] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[Ethernet] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[Ethernet] Node_Id
REGION_ID	VARCHAR2(50)	Y	[Ethernet] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[Ethernet] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
IFACE_ETHERNET_PORT_NAME	VARCHAR2(255)		[Ethernet] Node_Id & "/" & moid

PORT	VARCHAR2(50)		[Ethernet] Port_Id
VENDOR	VARCHAR2(50)		[Ethernet] "Ericsson"

8.1.8 NC_IFACE_IPADDRESS

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
IFACE_IPADD_ID	VARCHAR2(50)		[OSPF_Interface] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[OSPF_Interface] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[OSPF_Interface] Node_Id
REGION_ID	VARCHAR2(50)	Y	[OSPF_Interface] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[OSPF_Interface] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
IFACE_IPADD_NAME	VARCHAR2(255)		[OSPF_Interface] Node_Id & "/" & moid
TECHNOLOGY	VARCHAR2(50)		[OSPF_Interface] "UMTS"
VENDOR	VARCHAR2(50)		[OSPF_Interface] "Ericsson"

8.1.9 NC_IFACE_NEIGHBOUR

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
IFACE_NEIGHBOUR_ID	VARCHAR2(50)		[OSPF_Neighbor] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[OSPF_Neighbor] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[OSPF_Neighbor] Node_Id

REGION_ID	VARCHAR2(50)	Y	[OSPF_Neighbor] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[OSPF_Neighbor] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
IFACE_NEIGHBOUR_NAME	VARCHAR2(255)		[OSPF_Neighbor] Node_Id & "/" & moid
VENDOR	VARCHAR2(50)		[OSPF_Neighbor] "Ericsson"

8.1.10 NC_IP_INTERFACE_DIRECTION

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
IP_INTERFACE_DIRECTION_ID	VARCHAR2(50)		[Filtering_SA] Node_Id & "/" & moid
SGSN_ID	VARCHAR2(50)	Y	[Filtering_SA] Node_Id
IP_INTERFACE	VARCHAR2(50)	Y	[Filtering_SA] Node_id & "/" & ConnectionName
REGION_ID	VARCHAR2(50)	Y	[Filtering_SA] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[Filtering_SA] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
IP_INTEFACE_DIRECTION_NAME	VARCHAR2(255)		[Filtering_SA] Node_Id & "/" & moid
DIRECTION	VARCHAR2(50)		[Filtering_SA] Node_Id & "/" & Direction
VENDOR	VARCHAR2(50)		[Filtering_SA] "Ericsson"

8.1.11 NC_IP_INTERFACE

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		

INTERFACE_ID	VARCHAR2(50)		[PXM] Node_Id & "/" & moid
NODE_ID	VARCHAR2(50)	Y	[PXM] Node_Id
REGION_ID	VARCHAR2(50)	Y	[PXM] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[PXM] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
INTERFACE_NAME	VARCHAR2(255)		[PXM] Node_Id & "/" & moid
INTERFACE_VERSION	VARCHAR2(50)		
NODE_NAME	VARCHAR2(255)		[PXM] Node_Id
NODE_TYPE	VARCHAR2(50)		[PXM] "SGSN"
MIB2_IF_INDEX	VARCHAR2(50)		
MIB2_IF_NAME	VARCHAR2(255)		
MIB2_IF_DESCR	VARCHAR2(128)		
INTERFACE_DUPLEX	VARCHAR2(50)		
MIB2_IF_TYPE	VARCHAR2(50)		
IP_ADDRESS	VARCHAR2(64)		
SUBNET_PREFIX_LENGTH	NUMBER		
MTU	FLOAT		
SPEED	VARCHAR2(50)		[PXM] "Populated by the customer"
PHYSICAL_ADDRESS	VARCHAR2(64)		
TECHNOLOGY	VARCHAR2(50)		[PXM] "UMTS"
VENDOR	VARCHAR2(50)		[PXM] "Ericsson"

8.1.12 NC_MAGSLOT_INTERFACE

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
INTERFACE_ID	VARCHAR2(50)		[IP] Node_Id & "/" & moid
SGSN_ID	VARCHAR2(50)	Y	[IP] Node_Id
REGION_ID	VARCHAR2(50)	Y	[IP] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[IP] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
INTERFACE_NAME	VARCHAR2(255)		[IP] Node_Id & "/" & moid
INTERFACE_TYPE	VARCHAR2(50)		[IP] "Populated by the customer"
MAG_ID	VARCHAR2(50)		[IP] Mag_Id
SLOT_ID	VARCHAR2(50)		[IP] Slot_Id
VENDOR	VARCHAR2(50)		[IP] "Ericsson"

8.1.13 NC_NARROWBAND_LINK

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
NBLINK_ID	VARCHAR2(50)		[LinkNb] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[LinkNb] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[LinkNb] Node_Id
REGION_ID	VARCHAR2(50)	Y	[LinkNb] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[LinkNb] Network_Id
TIMESTAMP	DATE		

ENDSTAMP	DATE		
NBLINK_NAME	VARCHAR2(255)		[LinkNb] Node_Id & "/" & moid
VENDOR	VARCHAR2(50)		[LinkNb] "Ericsson"

8.1.14 NC_NETWORK

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
NETWORK_ID	VARCHAR2(50)		[GTP] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
NETWORK_TYPE	VARCHAR2(50)		[GTP] "Populated by the customer"
DEFAULT_LINK_SPEED	VARCHAR2(50)		[GTP] "Populated by the customer"
NETWORK_NAME	VARCHAR2(255)		[GTP] "Populated by the customer"
VENDOR	VARCHAR2(50)		[GTP] "Ericsson"

8.1.15 NC_NSVC

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
NSVC_ID	VARCHAR2(50)		[BSBGP_NSVC] Node_Id &"/"& moid
PCU_ID	VARCHAR2(50)	Y	
SGSN_ID	VARCHAR2(50)	Y	[BSBGP_NSVC] Node_Id
BEARER_ID	VARCHAR2(50)	Y	
REGION_ID	VARCHAR2(50)	Y	[BSBGP_NSVC] Region_Id

NETWORK_ID	VARCHAR2(50)	Y	[BSBGP_NSVC] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
NSVC_NAME	VARCHAR2(255)		[BSBGP_NSVC] Node_Id &"/"& moid
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)		
TECHNOLOGY	VARCHAR2(50)		[BSBGP_NSVC] "UMTS"
VENDOR	VARCHAR2(50)		[BSBGP_NSVC] "Ericsson"

8.1.16 NC_PROCESSOR

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
PROCESSOR_ID	VARCHAR2(50)		[Ibxx_GPB] Node_Id & "/" & moid
NODE_ID	VARCHAR2(50)	Y	[Ibxx_GPB] Node_Id
REGION_ID	VARCHAR2(50)	Y	[Ibxx_GPB] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[Ibxx_GPB] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
NODE_NAME	VARCHAR2(255)		[Ibxx_GPB] Node_Id
NODE_TYPE	VARCHAR2(50)		[Ibxx_GPB] "SGSN"

PROCESSOR_NAME	VARCHAR2(255)		[Ibxx_GPB] Node_Id & "/" & moid
PROCESSOR_TYPE	VARCHAR2(50)		[Ibxx_GPB] "Interface Board / General Processing Board"
TECHNOLOGY	VARCHAR2(50)		[Ibxx_GPB] "UMTS"
PROCESSOR_VERSION	VARCHAR2(50)		[Ibxx_GPB] "Populated by the customer"
VENDOR	VARCHAR2(50)		[Ibxx_GPB] "Ericsson"

8.1.17 NC_REGION

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
REGION_ID	VARCHAR2(50)		[GTP] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[GTP] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
REGION_NAME	VARCHAR2(255)		[GTP] "Populated by customer"
VENDOR	VARCHAR2(50)		[GTP] "Ericsson"

8.1.18 NC_ROUTING_AREA

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
ROUTING_AREA_ID	VARCHAR2(50)		[MM_IndexG] moid
LAC_ID	VARCHAR2(50)	Y	[MM_IndexG] substr(moid,7,5)
SGSN_ID	VARCHAR2(50)	Y	[MM_IndexG] Node_Id
REGION_ID	VARCHAR2(50)	Y	[MM_IndexG] Region_Id

NETWORK_ID	VARCHAR2(50)	Y	[MM_IndexG] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
ROUTING_AREA_NAME	VARCHAR2(255)		[MM_IndexG] moid
SGSN_UNIT_ID	VARCHAR2(50)		
VENDOR	VARCHAR2(50)		[MM_IndexG] "Ericsson"

8.1.19 NC_SECURITY_ASSOCIATION

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
SECURITY_ASSOCIATION_ID	VARCHAR2(50)		[IPSec_SA] Node_Id & "/" & SA_Name
SGSN_ID	VARCHAR2(50)	Y	[IPSec_SA] Node_Id
REGION_ID	VARCHAR2(50)	Y	[IPSec_SA] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[IPSec_SA] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
SECURITY_ASSOCIATION_NAME	VARCHAR2(255)		[IPSec_SA] Node_Id & "/" & SA_Name
VENDOR	VARCHAR2(50)		[IPSec_SA] "Ericsson"

8.1.20 NC_SGSN

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
SGSN_ID	VARCHAR2(50)		[GTP] Node_Id
REGION_ID	VARCHAR2(50)	Y	[GTP] Region_Id

NETWORK_ID	VARCHAR2(50)	Y	[GTP] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
SGSN_NAME	VARCHAR2(255)		[GTP] Node_Id
SGSN_IP_ADDRESS	VARCHAR2(64)		[GTP] "Populated by the customer"
SGSN_VERSION	VARCHAR2(50)		[GTP] "8.0"
MAX_SUBSCRIBER	VARCHAR2(50)		[GTP] "Populated by the customer"
MAX_PDP	VARCHAR2(50)		[GTP] "Populated by the customer"
TECHNOLOGY	VARCHAR2(50)		[GTP] "UMTS"
VENDOR	VARCHAR2(50)		[GTP] "Ericsson"

8.1.21 NC_SIGNALLING_ASSOCIATION

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
SIGNALLING_ASSOCIATION_ID	VARCHAR2(50)		[M3UA] Node_Id & "/" & moid
INTERFACE_ID	VARCHAR2(50)	Y	[M3UA] Node_Id & "/" & Mag_Id & "." & Slot_Id
SGSN_ID	VARCHAR2(50)	Y	[M3UA] Node_Id
REGION_ID	VARCHAR2(50)	Y	[M3UA] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[M3UA] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
SIGNALLING_ASSOCIATION_NAME	VARCHAR2(250)		[M3UA] Node_Id & "/" & moid
SA_ID	VARCHAR2(50)		[M3UA] SA_Id
VENDOR	VARCHAR2(50)		[M3UA] "Ericsson"

8.1.22 NC_SS7_POINT

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
SS7_POINT_ID	VARCHAR2(50)		[SS7_Index] Node_Id & "/" & moid
NODE_ID	VARCHAR2(50)	Y	[SS7_Index] Node_Id
REGION_ID	VARCHAR2(50)	Y	[SS7_Index] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[SS7_Index] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
NODE_NAME	VARCHAR2(255)		[SS7_Index] Node_Id
NODE_TYPE	VARCHAR2(50)		[SS7_Index] "SGSN"
SS7_POINT_NAME	VARCHAR2(255)		[SS7_Index] Node_Id & "/" & moid
ADJACENT_NODE_ID	VARCHAR2(50)		
TECHNOLOGY	VARCHAR2(50)		[SS7_Index] "UMTS"
VENDOR	VARCHAR2(50)		[SS7_Index] "Ericsson"

8.1.23 NC_SUBSYSTEM

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
SUBSYSTEM_ID	VARCHAR2(50)		[Ssn] Node_Id & "/" & moid
NODE_ID	VARCHAR2(50)	Y	[Ssn] Node_Id
REGION_ID	VARCHAR2(50)	Y	[Ssn] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[Ssn] Network_Id

TIMESTAMP	DATE		
ENDSTAMP	DATE		
SUBSYSTEM_NAME	VARCHAR2(255)		[Ssn] Node_Id & "/" & moid
NODE_TYPE	VARCHAR2(255)		[Ssn] "SGSN"
TECHNOLOGY	VARCHAR2(255)		[Ssn] "UMTS"
VERSION	VARCHAR2(255)		
NODE_NAME	VARCHAR2(255)		[Ssn] Node_Id
VENDOR	VARCHAR2(50)		[Ssn] "Ericsson"

8.1.24 NC_TUNNEL_ASSOCIATION

Column Name	Data Type	Time-Tracked?	Loader Block/Mapping
NC_ID	NUMBER		
TUNNEL_ASSOCIATION_ID	VARCHAR2(50)		[GRE_TA] Node_Id & "/" & moid
SGSN_ID	VARCHAR2(50)	Y	[GRE_TA] Node_Id
REGION_ID	VARCHAR2(50)	Y	[GRE_TA] Region_Id
NETWORK_ID	VARCHAR2(50)	Y	[GRE_TA] Network_Id
TIMESTAMP	DATE		
ENDSTAMP	DATE		
TUNNEL_ASSOCIATION_NAME	VARCHAR2(255)		[GRE_TA] Node_Id & "/" & moid
VENDOR	VARCHAR2(50)		[GRE_TA] "Ericsson"

8.2 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:

- Bearer
- Broadband_link
- DLCI
- Iface_Area
- Iface_ATM_port
- Iface_BGP_Peer
- Iface_Ethernet_Port
- Iface_IPAddress
- Iface_Neighbour
- IP_Interface
- IP_Interface_Direction
- MagSlot_interface
- Narrowband_link
- NSVC
- Processor
- Routing_Area
- Security_Association
- SGSN
- Signalling_Association
- Signalling_Point
- Subsystem
- Tunnel_Association

8.2.1 Raw Bearer Tables

8.2.1.1 ERI_BEARER_FRMRLYWAN_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BEARER_ID		VARCHAR2(50)	[FRWan] Node_Id & "/" & moid

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TPPFSV4SG3CUMC0VT0NQ1UTPRN	FRWANLMIERRORS	NUMBER	[FRWan] frWanLmiErrors
YT4JICGXSQC44B0PW5DYP6P31L	FRWANLMITIMEOUTS	NUMBER	[FRWan] frWanLmiTimeouts
W0XWNNEFD4CPLTXNPQS2YAKHQ2	FRWANLMIWANFLOWS	NUMBER	[FRWan] frWanLmiWanFlows
TLBUA3N2GWBXQCD5IUCGXQ1NIA	FRWANRXASYNCHS	NUMBER	[FRWan] frWanRxAsynchs
TDRA1DC44KBD0EXEUUVV0KTCUK	FRWANRXCLLMS	NUMBER	[FRWan] frWanRxCLLMs
YFE2ABGKOABGMRJARC4XETEBWA	FRWANRXBYTES	NUMBER	[FRWan] frWanRxBytes
SMTPJ3GRGECKVROSLNOMPDBGN5	FRWANRXFULLSTAT	NUMBER	[FRWan] frWanRxFullStat
S345K1QJ1LCV1T3NENSKDPHKLJ	FRWANRXTOOBIG	NUMBER	[FRWan] frWanRxTooBig
XECQHK6NQQBD6UPSSFJFAAASID	FRWANRXUNATTDLCIS	NUMBER	[FRWan] frWanRxUnattDLCIs
WEIFGLHNVIB2YBRY4GAEOJQVAQ	FRWANTXBYTES	NUMBER	[FRWan] frWanTxBytes
V2IXYHSE66BITSU6QRIKE0DQXH	FRWANTXFRAMES	NUMBER	[FRWan] frWanTxFrames
VFBM6OWSJ6C5CCQQUJBBGURX1H	FRWANTXDROPS	NUMBER	[FRWan] frWanTxDrops
TCLIWOTXN6BDME55L631H66O6M	FRWANTXFULLSTAT	NUMBER	[FRWan] frWanTxFullStat
TP0BIBSVSXB1SUBQ63GYLMEDVU	FRWANTXSEQONLY	NUMBER	[FRWan] frWanTxSeqOnly
TGLO2TCQTKC1MRUAXRUD05GQ15	FRWANRXFRAMES	NUMBER	[FRWan] frWanRxFrames
UQCVV664YSBIRBMQDOD13OT4VQ	FRWANRXDROPS	NUMBER	[FRWan] frWanRxDrops
VTKGO2MCN2BURUUE6GVJ5U2JXI	FRWANRXINVDLCI	NUMBER	[FRWan] frWanRxInvDLCI
YEFLI3RBDKB55SVNQ5GSIPFG0N	FRWANRXINVRQ	NUMBER	[FRWan] frWanRxInvRq
WLJH6GUE46C34BUMTSS6FCSTGY	FRWANRXLMIPOLLS	NUMBER	[FRWan] frWanRxLmiPolls
Y4G3TLQFMWBPJSOX5MQVYQAEWU	FRWANRXSEQONLY	NUMBER	[FRWan] frWanRxSeqOnly
Y1WYKW0XHUCTNDUHJPHQ5NIYWI	FRWANTXINVRQ	NUMBER	[FRWan] frWanTxInvRq
W46PHWVPWTBXUBGRAD5JXQOFFL	FRWANTXLMIPOLLS	NUMBER	[FRWan] frWanTxLmiPolls

Y6D6OQ3BACCCEE5ICHNDLBT3OI	FRWANTXNOBUFF	NUMBER	[FRWan] frWanTxNoBuff
YG5LK5C14UCNFTQTXE165FCM4I	FRWANTXSTOPS	NUMBER	[FRWan] frWanTxStops
V2IRX2V5EPBUPTHT4VPHBEIPHV	MAX_FRWANBYTES	NUMBER	[FRWan] if frWanRxBytes > frWanTxBytes then frWanRxBytes else frWanTxBytes
UD03XA3LA5CVKTTV3UP5O1WI0J	FRWANWANFLOWS	NUMBER	[FRWan] frWanWanFlows

8.2.1.2 ERI_BEARER_HLEVDATLKCTL_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BEARER_ID		VARCHAR2(50)	[E1_Link] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TOMHQVTQ2OC2DU5HKLE0WRT6QR	HDLCRXERRABORT	NUMBER	[E1_Link] hdlcRxErrAbort
WFLNTFNGX5CPADWPUHYANFVOPF	HDLCRXERRBUSY	NUMBER	[E1_Link] hdlcRxErrBusy
WEOF2YDXE4CYTC3W4UOBECICWA	HDLCRXERRCRC	NUMBER	[E1_Link] hdlcRxErrCRC
YCNFSAEPTRB6HDDDA60XWIKO5W	HDLCRXERRLACKOFBUFS	NUMBER	[E1_Link] hdlcRxErrLackOfBufs
YFEGS35DFJC0SEYMSA6LC0VMAO	HDLCRXERRMAXFRAMELEN	NUMBER	[E1_Link] hdlcRxErrMaxFrameLen
VETGWUEEVLBPXS5DYEME52VB1B	HDLCRXERRNONOCTETALIGN	NUMBER	[E1_Link] hdlcRxErrNonOctetAlign
UC23H6GSKGCOKRH0NOX0WBUL3Q	HDLCRXERRQUEUE	NUMBER	[E1_Link] hdlcRxErrQueue
XJRXKWEAXJCUPB06Y2H021AMJ0	HDLCRXOK	NUMBER	[E1_Link] hdlcRxOK
VHMLWEXVX1BD2E5S3AHOU6EVGI	HDLCRXOCTETS	NUMBER	[E1_Link] hdlcRxOctets
TBIYCM2UMKBQJTQ2SHKMJCUUK6	HDLCTXOK	NUMBER	[E1_Link] hdlcTxOK
VQJVHW2JRBCKVBT3X16520GJTC	HDLCTXOCTETS	NUMBER	[E1_Link] hdlcTxOctets

8.2.2 Raw Broadband_link Tables

8.2.2.1 ERI_BBLNK_SS7BBLNKUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
BBLINK_ID		VARCHAR2(50)	[LinkBd] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6LX4SU2AHBFBJ035XKCTSI	SS7SLFAILUREBB	NUMBER	[LinkBd] ss7SLFailureBb
S4BA6M24SU2AHBFBJ035XKCTSI	SS7SLRESTORATIONBB	NUMBER	[LinkBd] ss7SLRestorationBb
W2VRQMLKMP2AHU25J035YHSYSY	SS7OCTETSRECEIVEDPERLINKBB	NUMBER	[LinkBd] ss7OctetsReceivedPerLinkBb
W2VRQMNKMP2AHU25J035YHSYSY	SS7OCTETSSENTPERLINKBB	NUMBER	[LinkBd] ss7OctetsSentPerLinkBb
U5Q630M462C3NDBYDJI6IOR2CN	SS7MESSAGERECEIVEDPERLINKBB	NUMBER	[LinkBd] ss7MessageReceivedPerLinkBb
SGKL3OABBJCB0R0ILGNIBDR2L2	SS7MESSAGESENTPERLINKBB	NUMBER	[LinkBd] ss7MessageSentPerLinkBb

8.2.3 Raw DLCI Tables

8.2.3.1 ERI_DLCI_FRMRLYPVC_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
DLCI_ID		VARCHAR2(50)	[FRPvc] Node_Id &"/"& moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XCIQXW2ESIBXMC0EODMPV4Y5OI	FRPVCRXDE	NUMBER	[FRPvc] frPvcRxDe
TWDWQTMGP1CFNS2BQIX2HCLGYA	FRPVCRXBYTES	NUMBER	[FRPvc] frPvcRxBytes
R4ATMJUR1GC1JB4EBNKO4RKRFB	FRPVCRXFECNS	NUMBER	[FRPvc] frPvcRxFECNs
TV4YBTM6HDBJDC0JYLGWYWAONA	MAX_FRPVCBYTES	NUMBER	[FRPvc] if frPvcRxBytes > frPvcTxBytes then frPvcRxBytes else frPvcTxBytes

UUJKUPADNUB11UYYKSWR5UFARG	FRPVCTXBYTES	NUMBER	[FRPvc] frPvcTxBytes
WEUYRSTAJOCMNTVB1304VRFUFI	FRPVCTXFRAMES	NUMBER	[FRPvc] frPvcTxFrames
YMC15GQQO2BJUCSEY4FW4DFIL2	FRPVCTXDE	NUMBER	[FRPvc] frPvcTxDe
W166EKRGBOCQ0BBWKCRA5AJWEL	FRPVCTXSTOPS	NUMBER	[FRPvc] frPvcTxStops
WUE5Q0YLUUC30BTTKOS14EM4I4	FRPVCRXBECNS	NUMBER	[FRPvc] frPvcRxBECNs
UKCWGFHIAFCSUUUJQAVE6MHXA3	FRPVCRXFRAMES	NUMBER	[FRPvc] frPvcRxFrames
SMODVEFKYMBX5ROIPIQ5GHRBP1	FRPVCRXSTOPS	NUMBER	[FRPvc] frPvcRxStops

8.2.4 Raw Iface_Area Tables

8.2.4.1 ERI_IFAREA_OSPFAREA_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_AREA_ID		VARCHAR2(50)	[OSPF_Area] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VOFTNC5XP2CFNEXIR4V5Q44DVJ	OSPFSPFRUNS	NUMBER	[OSPF_Area] ospfSpfRuns
WCETFIKREWBULE34VMDYW1MHLM	OSPFAREABDRRTRCOUNT	NUMBER	[OSPF_Area] ospfAreaBdrRtrCount
YO2F1U2P4BBUMTDMIH0LU532WH	OSPFASBDRRTRCOUNT	NUMBER	[OSPF_Area] ospfAsBdrRtrCount
XHXAN5OCK4C24RIKDCK46HAYQH	OSPFAREALSACOUNT	NUMBER	[OSPF_Area] ospfAreaLsaCount

8.2.5 Raw Iface_ATM_port Tables

8.2.5.1 ERI_IFATMPORT_ATMADLYR5_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_ATM_PORT_ID		VARCHAR2(50)	[ATM_Index] Node_Id & "/" & moid

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VHBRFBWTJEBQASK3LTCSTQIAK6	ATMAL5CRCERRORS	NUMBER	[ATM_Index] atmal5CRCErrors
VKGHUQLTMYBJCD3TQYADYUUN2I	ATMAL5IFINDISCARDS	NUMBER	[ATM_Index] atmal5IfInDiscards
X1LPNPWLYKCTURFBDOTH2TKJQI	ATMAL5IFINERRORS	NUMBER	[ATM_Index] atmal5IfInErrors
VIX6PUAH0KCFGBXEL2NN6WOLYR	ATMAL5IFINOCTETS	NUMBER	[ATM_Index] atmal5IfInOctets
TDNB4RC1AYB5VE0QBR455DINIH	ATMAL5IFINPKTS	NUMBER	[ATM_Index] atmal5IfInPkts
YV5G3OK5NUC3LUVQNYYRA4PN3K	ATMAL5IFOUTDISCARDS	NUMBER	[ATM_Index] atmal5IfOutDiscards
TR6RGOHKAIBBPBWJLVOOLCJCJQ	ATMAL5IFOUTERRORS	NUMBER	[ATM_Index] atmal5IfOutErrors
YABP0ETBWFB3KEIOA4F2I51UH0	ATMAL5IFOUTOCTETS	NUMBER	[ATM_Index] atmal5IfOutOctets
W1DPAIT4XOBRIDEFUD2YRRU1G5	ATMAL5IFOUTPKTS	NUMBER	[ATM_Index] atmal5IfOutPkts
UX31RQRS0XC5BBUUYGPHQBP615	ATMAL5OVERSIZEDSDUS	NUMBER	[ATM_Index] atmal5OverSizedSDUs

8.2.5.2 ERI_IFATMPORT_ATMCONV_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_ATM_PORT_ID		VARCHAR2(50)	[ATM_Index] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RLXQSF6QF3CWWUJ42KLTIB0I2R	ATMTCLCORRECTABLEHECS	NUMBER	[ATM_Index] atmtclCorrectableHECs
Y2DLEEGYWPCBBU65WPDQ1DGH4H	ATMTCLEGRESSCELLS	NUMBER	[ATM_Index] atmtclEgressCells
T5Y0VV5U3EBBMT5Y2UDUT0HU5T	ATMTCLINGRESSCELLS	NUMBER	[ATM_Index] atmtclIngressCells
TLQN3KNP3JCFCEXDCEFRWNYFED	ATMTCLOCDEVENTS	NUMBER	[ATM_Index] atmtclOCDEvents
U12UOFJJDUCF6TNIXBAS6JQIEU	ATMTCLUNCORRECTABLEHECS	NUMBER	[ATM_Index] atmtclUncorrectableHECs

8.2.5.3 ERI_IFATMPORT_ATMLYR_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_ATM_PORT_ID		VARCHAR2(50)	[ATM_Index] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XL4XEEC05FC0QE3EPQCYUH0QMO	ATMLCLPCELLS	NUMBER	[ATM_Index] atmlCLPCells
YHICCH1LC2CCGU32F6YKX4HIHM	ATMLCPIERRORS	NUMBER	[ATM_Index] atmlCPIErrors
SHQV14NMM5CFBCYCHIEAV3C5RK	ATMLCELLDROPS	NUMBER	[ATM_Index] atmlCellDrops
VD5EKDOERWB03SQC22N4QQILFM	ATMLCONGESTIONERRORS	NUMBER	[ATM_Index] atmlCongestionErrors
V45CQKV4IHC4STBVD32HQHBHY3	ATMLINVALIDCELLS	NUMBER	[ATM_Index] atmlInvalidCells
VRTLDOWHD5C0BUEKSTSTN5NATW	ATMLVPIVCILOOKUPERRORS	NUMBER	[ATM_Index] atmlVpiVciLookupErrors

8.2.5.4 ERI_IFATMPORT_SDHSONET_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_ATM_PORT_ID		VARCHAR2(50)	[ATM_Layer] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
VYVPIQNUBACVPU4I6IGW5RDT02	ATMPLLOF	NUMBER	[ATM_Layer] atmplLOF
VKS2KIEKNDC2FDD1MS2SCRC3I6	ATMPLLOP	NUMBER	[ATM_Layer] atmplLOP
WFGCCRFGLJBQVEHK0N00ECBYHP	ATMPLLOS	NUMBER	[ATM_Layer] atmplLOS
T4QLQUEBSNB2XDJIXBV2HC665P	ATMPLLINEAIS	NUMBER	[ATM_Layer] atmplLineAIS
Y00VLFKENGBM3E4EK2CAT0YQ2L	ATMPLLINEOVERHEADBIPERRORS	NUMBER	[ATM_Layer] atmplLineOverheadBIPErrors
YCERJGT0M5BKSDCVDSUJKI3YSK	ATMPLLINERDI	NUMBER	[ATM_Layer] atmplLineRDI
Y402IROUUTCFICRPPP3IK1V54L	ATMPLLINEREI	NUMBER	[ATM_Layer] atmplLineREI

T3TIVNMFJHBS3TN44Q4L0T4EIS	ATMPLOOF	NUMBER	[ATM_Layer] atmplOOF
WIIDSHO3NUB5IRJWVR5TRA646F	ATMPLPATHAIS	NUMBER	[ATM_Layer] atmplPathAIS
WAPTF2NN0XCW3CX2KEQGXDR2TI	ATMPLPATHOVERHEADBIPERRORS	NUMBER	[ATM_Layer] atmplPathOverheadBIPErrors
X4MUQF21SKBXWDLSX5EDD2YQ0X	ATMPLPATHRDI	NUMBER	[ATM_Layer] atmplPathRDI
S6DMVMK5IXC0LUIUIIEP20WNV4	ATMPLPATHREI	NUMBER	[ATM_Layer] atmplPathREI
WIAX23QNYDBMUUY4MUEGCO246P	ATMPLSECTIONOVERHEADBIPERRORS	NUMBER	[ATM_Layer] atmplSectionOverheadBIPErrors

8.2.6 Raw Iface_BGP_Peer Tables

8.2.6.1 ERI_IFBGPPEER_BGPPEER_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_BGP_PEER_ID		VARCHAR2(50)	[BGP] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
T4COWNDFTSB4GSJ5LBE4ELAVYE	BGPPEERFSMESTABLISHEDTRANS	NUMBER	[BGP] bgpPeerFsmEstablishedTransitions
T14BYNCPKMCD0D6I5JBFFAPOAK	BGPPEERINTOTALMESSAGES	NUMBER	[BGP] bgpPeerInTotalMessages
UGAXKBGKSXCDIE1AUW0UUV6K26	BGPPEERINUPDATEELAPSEDTIME	NUMBER	[BGP] bgpPeerInUpdateElapsedTime
T0BKBAITSJBE6B4O5CIQW4HR4U	BGPPEERINUPDATES	NUMBER	[BGP] bgpPeerInUpdates
SQQVLS242GCIDU3BIY4E02GTRJ	BGPPEEROUTTOTALMESSAGES	NUMBER	[BGP] bgpPeerOutTotalMessages
RJ04GNFP6DCHABIVHKETCT5UQV	BGPPEEROUTUPDATES	NUMBER	[BGP] bgpPeerOutUpdates

8.2.7 Raw Iface_Ethernet_Port Tables

8.2.7.1   ERI_IFETHERPORT_ETHER_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_ETHERNET_PORT_ID		VARCHAR2(50)	[Ethernet] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TIIAFAQOI3CLFDLGNGADUR4L5I	ETHINERRORS	NUMBER	[Ethernet] ethInErrors
XS0D4ANGX3B4AUI1LGS43LMO4Q	ETHINERRORSBUF	NUMBER	[Ethernet] ethInErrorsBUF
S62GS4E011CKBBJNDCAK1PIXKS	ETHINERRORSCE	NUMBER	[Ethernet] ethInErrorsCE
RK0SXESCL2BPICDHAKEV5LOJIU	ETHINERRORSCLBLK	NUMBER	[Ethernet] ethInErrorsCLBLK
V1BO1F6QHGBJ4DENSAKSH562JK	ETHINERRORSCS	NUMBER	[Ethernet] ethInErrorsCS
WNAN2X0W65BMATVJPOBKHJXD5E	ETHINERRORSFF	NUMBER	[Ethernet] ethInErrorsFF
RAFUSEOOQEC5SBNOTKS11MYOEL	ETHOUTERROROWN	NUMBER	[Ethernet] ethOutErrorOWN
UA20JJNVF0BBSDHNHD5S152KX1	ETHOUTERRORS	NUMBER	[Ethernet] ethOutErrors
YDFIMF0MIECPABLV4AVY5QJNIR	ETHOUTERRORSBUF	NUMBER	[Ethernet] ethOutErrorsBUF
RC2WWL50LRCB0UGSQRQFE5EGPM	ETHOUTERRORSEC	NUMBER	[Ethernet] ethOutErrorsEC
XDL3PYFI5MBKSSLN1QJHAMYWF4	ETHOUTERRORSLC	NUMBER	[Ethernet] ethOutErrorsLC
TRHWPLXYGMC22TQH4HFL1K4TLT	ETHOUTERRORSLO	NUMBER	[Ethernet] ethOutErrorsLO
X4PC6W5XF2BB1S40WLKV4B3FBY	ETHINERRORSMBLK	NUMBER	[Ethernet] ethInErrorsMBLK
RUKJ2NPE04CQMCUME4C51WQ40B	ETHINERRORSRF	NUMBER	[Ethernet] ethInErrorsRF
X50SE62CG6BH5BRWX3EMJUAFW0	ETHINERRORSTL	NUMBER	[Ethernet] ethInErrorsTL
VOGH5CV0DXBYIU5UI5FUWP14M2	ETHINMF	NUMBER	[Ethernet] ethInMF
YYOWCER56NBWQC6FMCISA6IGJ3	ETHINPKTS	NUMBER	[Ethernet] ethInPkts
T5S3FNMNDDB13T31EFJPFJUJWK	ETHOUTERRORSNC	NUMBER	[Ethernet] ethOutErrorsNC

W3SDMN40TYBHPEQFKFEGYS4B31	ETHOUTERRORSTO	NUMBER	[Ethernet] ethOutErrorsTO
SKPT43KTIVBJUEYD0QMSMKCL5L	ETHOUTERRORSTXD	NUMBER	[Ethernet] ethOutErrorsTXD
RCTAGKXTCYCFEB1DNMA04Q0H5T	ETHOUTERRORSUF	NUMBER	[Ethernet] ethOutErrorsUF
W0R6PYLVL4BKAEHEAWDQFELEA3	ETHOUTPKTS	NUMBER	[Ethernet] ethOutPkts

8.2.7 Raw Iface_IPAddress Tables

8.2.7.1 ERI_IFIPADD_OSPFIF_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_IPADD_ID		VARCHAR2(50)	[OSPF_Interface] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TUA5E4CSPQCD0RQ2NMG511X6WT	OSPFIFEVENTS	NUMBER	[OSPF_Interface] ospfIfEvents

8.2.8 Raw Iface_Neighbour Tables

8.2.8.1 ERI_IFNEIGH_OSPFNEIGH_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IFACE_NEIGHBOUR_ID		VARCHAR2(50)	[OSPF_Neighbor] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RO2NIKW3E3BX5BPLWCFL0RUFM5	OSPFNBREVENTS	NUMBER	[OSPF_Neighbor] ospfNbrEvents

8.2.9 Raw IP_Interface Tables

8.2.9.1 ERI_IPIF_IPTRAF_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[PXM] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6FR4SU2AHBFBJ035XKCTSI	IFINDISCARDS	NUMBER	[PXM] ifInDiscards
SFWDEYUBF6CF1ESG35YTVKLMU5	IFINOCTETS	NUMBER	[PXM] ifInOctets
YE0GFSSL5YBXCBEYCFECORYDBT	IFINPKTS	NUMBER	[PXM] ifInPkts
RDFAAXHPSVB1IBWRPPBBDQAEH2	IFOUTOCTETS	NUMBER	[PXM] ifOutOctets
XEJH61FAC4BN1R2VIRCDGW3DOK	IFOUTPKTS	NUMBER	[PXM] ifOutPkts
SUNG5PEVPOC0EEMN1BWWUUVIS3	IFOUTDISCARDS	NUMBER	[PXM] ifOutDiscards
TGL0SPXSRPCMLTTTNWS20RCAPE	IFOUTQLEN	NUMBER	[PXM] ifOutQlen

8.2.10 Raw IP_Interface_Direction Tables

8.2.10.1 ERI_IPIFDIR_IPFILT_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
IP_INTERFACE_DIRECTION_ID		VARCHAR2(50)	[Filtering_SA] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RMKJILD6I3BM2S1FTRCPHK5EIW	FILTERDENIEDPACKETS	NUMBER	[Filtering_SA] filterDeniedPackets
SIH2JW1AYEB4TCLDENMAWIVRTD	FILTERALLOWEDPACKETS	NUMBER	[Filtering_SA] filterAllowedPackets
YHRIAOECMVCR1E2CY331XJO0BM	FILTERIPSECPACKETS	NUMBER	[Filtering_SA] filterIpsecPackets

8.2.11 Raw MagSlot_interface Tables

8.2.11.1 ERI_MAGSLOTIF_GPBSYS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[GPB] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YOA4ECO6VYCGOS4UWSNVUNR63S	SYSSNCPUUSAGEGPB	FLOAT	[GPB] SYS_gsnCpuUsageGPB

8.2.11.2 ERI_MAGSLOTIF_ICMPMSG_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[ICMP] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UDMOAKFWPDBKOCL6H3JCXGN2WK	ICMPINDESTUNREACHS	NUMBER	[ICMP] icmpInDestUnreachs
XPAJ1GHCP6C1OTFK1W333URF4P	ICMPINECHOS	NUMBER	[ICMP] icmpInEchos
X3PULU04RVCKHR3SUYRECSLB4T	ICMPINECHOREPS	NUMBER	[ICMP] icmpInEchoReps
VRWLLFFYTJBHHSS3PYFVNU31RX	ICMPINERRORS	NUMBER	[ICMP] icmpInErrors
VELN0H64KOB0MBURSDX1YFKYQ4	ICMPINMSGS	NUMBER	[ICMP] icmpInMsgs
RRHROD2QN4CL6RRJA10UASQGOG	ICMPINPARMPROBS	NUMBER	[ICMP] icmpInParmProbs
WQ32DAHCUKC2WDSGCXS1OGYRMV	ICMPOUTECHOREPS	NUMBER	[ICMP] icmpOutEchoReps
YQYBUEOOQRBDRC4OD6LQAEG3E2	ICMPOUTERRORS	NUMBER	[ICMP] icmpOutErrors
S046AX6MKOBUQUUPN6HWWXKQJK	ICMPOUTMSGS	NUMBER	[ICMP] icmpOutMsgs

SOBQGIJOJ3CSMEGVJVEJ2QT2F5	ICMPOUTPARMPROBS	NUMBER	[ICMP] icmpOutParmProbs
WWV3DA2LV3BUTCJQJEO30NXQ4R	ICMPOUTREDIRECTS	NUMBER	[ICMP] icmpOutRedirects
YK0V5YYCKOBDQBTORXFU6PCKIC	ICMPOUTTIMEEXCDS	NUMBER	[ICMP] icmpOutTimeExcds
U6CCP0QWNSCHTT3KVTKQNBY0KR	ICMPINREDIRECTS	NUMBER	[ICMP] icmpInRedirects
TW14SY20NWBCGS5XK05DSXNGHA	ICMPINTIMEEXCDS	NUMBER	[ICMP] icmpInTimeExcds
TMKPGYMHMAB65SSPELJHE2Q2ST	ICMPOUTDESTUNREACHS	NUMBER	[ICMP] icmpOutDestUnreachs
RETSM4XT4MC2CUMWUEY0UCSLVT	ICMPOUTECHOS	NUMBER	[ICMP] icmpOutEchos

8.2.11.3   ERI_MAGSLOTIF_IPDATA_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[IP] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
T4YO513XRYB2KSHVEY62XH5MFE	IPINRECEIVES	NUMBER	[IP] ipInReceives
TIXP0COVAACQDUL0DOBYRM51EO	IPINHDRERRORS	NUMBER	[IP] ipInHdrErrors
T5U6V2GL4SCV6EPOSMGFD1QFES	IPINADDRERRORS	NUMBER	[IP] ipInAddrErrors
WMMN5YPTR5CLDBV2YCWMUMX2R3	IPFORWDATAGRAMS	NUMBER	[IP] ipForwDatagrams
V6RNHD5LDOCYLC3FIXGOHA3XQE	IPREASMREQDS	NUMBER	[IP] ipReasmReqds
Y46NCYUFLWCLOTDG6L6SMN5RQS	IPREASMOKS	NUMBER	[IP] ipReasmOKs
ROYTYOOAHICXDDO6TJCBES0YFR	IPOUTNOROUTES	NUMBER	[IP] ipOutNoRoutes
XWYJL42LK4BFJEUYPXH4VMROOJ	IPREASMFAILS	NUMBER	[IP] ipReasmFails
WAXL0U1YILCMWBFV022KUACU1K	IPFRAGOKS	NUMBER	[IP] ipFragOKs
UKFHCXMTJGCM0BVSQCQ0EIDV2H	IPFRAGFAILS	NUMBER	[IP] ipFragFails
XD5K0SG3RLCX1US66GSDP3OLDV	IPFRAGCREATES	NUMBER	[IP] ipFragCreates

8.2.11.4   ERI_MAGSLOTIF_IPFILSLOT_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[Filtering_Slot] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UPUTWRKLCWBF1BG4VWM1BFCV44	FILTERDENIEDPACKETSONSLOT	NUMBER	[Filtering_Slot] filterDeniedPacketsOnSlot
SY2MNNG1OHC1HCJY1Q1QY1I26B	FILTERALLOWEDPACKETSONSLOT	NUMBER	[Filtering_Slot] filterAllowedPacketsOnSlot
T6RC3IWGQECHYC2WMSJS3Y0YTK	FILTERIPSECPACKETSONSLOT	NUMBER	[Filtering_Slot] filterIpsecPacketsOnSlot

8.2.11.5   ERI_MAGSLOTIF_IPSGRESLT_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[Ipsec] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WL1VKMWOITBKADFK0EYMSPBMF0	IPSECWAPACKETSPROCESSED	NUMBER	[Ipsec] ipsecWaPacketsProcessed
UXBYIGU25WCI0UH1J34RISYIPO	IPSECISSINOKPACKETS	NUMBER	[Ipsec] ipsecIssInOkPackets
SMY6233TC1CD1UGFY6SQR1ANHV	IPSECISSOUTOKPACKETS	NUMBER	[Ipsec] ipsecIssOutOkPackets
W3E2R02L6IBQWCYFX3LKI2JIE3	IPSECISSILLEGALSPI	NUMBER	[Ipsec] ipsecIssIllegalSpi
UU5WD3FK6FCECUB0UCEARYONVT	IPSECISSSHA1MISMATCH	NUMBER	[Ipsec] ipsecIssSha1Mismatch
UIVPVUTQYQBSDSPWEH30HUSWLY	IPSECISSMD5MISMATCH	NUMBER	[Ipsec] ipsecIssMd5Mismatch
US4D2DC02DCHIB03HRIKORCES4	IPSECINCORRECTPACKETS	NUMBER	[Ipsec] ipsecIncorrectPackets

8.2.11.6 ERI_MAGSLOTIF_OSPFCPU_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[OSPF_slot] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WELEFPUQQ4BR6TCR3LRBNNCHLS	OSPFORIGINATENEWLSAS	NUMBER	[OSPF_slot] ospfOriginateNewLsas
RODCCM5YGKC4UUIY5LXBAAKR3E	OSPFEXTERNLSACOUNT	NUMBER	[OSPF_slot] ospfExternLsaCount
RLELNU42XFC3PBDECYFFQ4F53T	OSPFRXNEWLSAS	NUMBER	[OSPF_slot] ospfRxNewLsas

8.2.11.7 ERI_MAGSLOTIF_S7STK_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[SS7] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TCPXRS3XGVB0HTG3RG4PAT3HBN	SS7MESSAGEORIGUDT	NUMBER	[SS7] ss7MessageOrigUDT
VTF6W1RPEVBUQDD6D4AFC5JNCK	SS7MESSAGEORIGXUDT	NUMBER	[SS7] ss7MessageOrigXUDT
SOFO5DDLQNCKDBMJNMYNQ6CQ5G	SS7MESSAGETERMUDT	NUMBER	[SS7] ss7MessageTermUDT
WS2Q4OGFJ2CPNRHMN1AOQXWQXL	SS7MESSAGETERMXUDT	NUMBER	[SS7] ss7MessageTermXUDT
WUVJ3BQBAJBIDRFRMJBSMC64OU	SS7MSUDISCARDERROR	NUMBER	[SS7] ss7MSUDiscardError
S5S1CD3VP0C0CC1D1XULBFGKKQ	SS7PROTOCOLERRORTRAA	NUMBER	[SS7] ss7ProtocolErrorTraA
VAEVGJUNT6CAFSDXKLCEQ56W1X	SS7PROTOCOLERRORTRAD	NUMBER	[SS7] ss7ProtocolErrorTraD
T1GBMJUJEXB6ERDPDGHJGVMDO1	SS7TCMESSAGERECEIVE	NUMBER	[SS7] ss7TCMessageReceive
TS6LT3GQL5BO4D1KK2EGO0UNBL	SS7TCMESSAGESENT	NUMBER	[SS7] ss7TCMessageSent
R0JRLYF2WRBJ1TE6PBQVIW6NLL	SS7NOOFRUNDIALTOT	NUMBER	[SS7] ss7NoOfRunDialTot

RVUNEI3L5ABEUBJNUOPRXGEYLD	SS7NOOFRUNOPTOT	NUMBER	[SS7] ss7NoOfRunOpTot
R3P6PFMAMCBVGRBL61B1UXJ56X	SS7SLRESTORATION	NUMBER	[SS7] ss7SLRestoration
S2EWK2BIJDBQQCOCWLPIED54GK	SS7SPINACCESS	NUMBER	[SS7] ss7SPInaccess
UAK1MQDRPTCX4CCMPF2L1D3JX2	SS7NOOFINCSEGMES	NUMBER	[SS7] ss7NoOfIncSegMes
VUT5B1JCHTCKXC3TFYDELXRGBT	SS7PROTOCOLERRORCOMP	NUMBER	[SS7] ss7ProtocolErrorComp
SLJ4X03CPSBUHS55246J4Y4LM1	SS7SLFAILURE	NUMBER	[SS7] ss7SLFailure

8.2.11.8 ERI_MAGSLOTIF_S7STKUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
INTERFACE_ID		VARCHAR2(50)	[SS7] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SOQQYLFEJICFGDHVQW6AN00WKL	SS7MESSAGEORIGCR	NUMBER	[SS7] ss7MessageOrigCR
VNEFLHWD0XBNPTWMHSDKDPPFDG	SS7MESSAGEORIGDT1	NUMBER	[SS7] ss7MessageOrigDT1
WJ2CAFQGGRCHNECTAP3O46CCVO	SS7MESSAGEORIGRLSD	NUMBER	[SS7] ss7MessageOrigRLSD
X5SSS63SMYCKWB0T5FMH6LIQ2R	SS7MESSAGETERMCR	NUMBER	[SS7] ss7MessageTermCR
T5ADIITLSVCYQTOSOP02PIUJLK	SS7MESSAGETERMDT1	NUMBER	[SS7] ss7MessageTermDT1
XNUK30U14QBN2DVLWM0WKED12M	SS7MESSAGETERMRLSD	NUMBER	[SS7] ss7MessageTermRLSD
XX6AI0EJ6VCJ6SODUALNCHLUCL	SS7NOOFCURRRUNCONNTOT	NUMBER	[SS7] ss7NoOfCurrRunConnTot

8.2.12   Raw Narrowband_link Tables

8.2.12.1 ERI_NBLNK_SS7NBLNK_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping

NBLINK_ID		VARCHAR2(50)	[LinkNb] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6LV4SU2AHBFBJ035XKCTSI	SS7SLFAILURENB	NUMBER	[LinkNb] ss7SLFailureNb
S4BA6M04SU2AHBFBJ035XKCTSI	SS7SLRESTORATIONNB	NUMBER	[LinkNb] ss7SLRestorationNb
W2VRQMPKMP2AHU25J035YHSYSY	SS7OCTETSRECEIVEDPERLINKNB	NUMBER	[LinkNb] ss7OctetsReceivedPerLinkNb
W2VRQMRKMP2AHU25J035YHSYSY	SS7OCTETSSENTPERLINKNB	NUMBER	[LinkNb] ss7OctetsSentPerLinkNb
XDXEYC020KBQABOLYELQ6A06T1	SS7MESSAGERECEIVEDPERLINKNB	NUMBER	[LinkNb] ss7MessageReceivedPerLinkNb
V40LIRJJHPBY0D6IY31CJFW5SX	SS7MESSAGESENTPERLINKNB	NUMBER	[LinkNb] ss7MessageSentPerLinkNb

8.2.13   Raw NSVC Tables

8.2.13.1   ERI_NSVC_BSSGP_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
NSVC_ID		VARCHAR2(50)	[BSBGP_NSVC] Node_Id &"/"& moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQLHKMP2AHU25J035YHSYSY	BSSGPDLPKTBUFF	NUMBER	[BSBGP_NSVC] bssgpDownlinkPacketsBuff
W2VRQLJKMP2AHU25J035YHSYSY	BSSGPDLPKTBUFFBUCKETFULL	NUMBER	[BSBGP_NSVC] bssgpDownlinkPacketsBuffBucketFull
W2VRQLLKMP2AHU25J035YHSYSY	BSSGPDLPKTBUFFLLCSUSPEND	NUMBER	[BSBGP_NSVC] bssgpDownlinkPacketsBuffLlcSuspend
W2VRQM0KMP2AHU25J035YHSYSY	BSSGPSTATUSBVCUNKNOWN	NUMBER	[BSBGP_NSVC] bssgpStatusBvcUnknown
V4C4FUH3RQCAADN5MQT13ULOJW	BSSGPDOWNLINKPACKETS	NUMBER	[BSBGP_NSVC] bssgpDownlinkPackets
S43QWBQTNEB6BEPLQSU5BNP4AN	BSSGPDOWNLINKOCTETS	NUMBER	[BSBGP_NSVC] bssgpDownlinkOctets
RIPUPCSJ3CC4ESOLCU1IT2V36R	BSSGPUPLINKPACKETSSIGNALLING	NUMBER	[BSBGP_NSVC] bssgpUplinkPacketsSignalling
Y5ARR5XRPWCJIRJTLIATB2HJSB	BSSGPUPLINKOCTETS	NUMBER	[BSBGP_NSVC] bssgpUplinkOctets

| TO2FSQNHUVBUBTUM3E1HFA0VHD | BSSGPUPLINKPACKETS | NUMBER | [BSBGP_NSVC] bssgpUplinkPackets |
| Y4P14Q1RCGBNHBHS6MP5JUTH1J | BSSGPDOWNLINKPACKETSSIGNALLING | NUMBER | [BSBGP_NSVC] bssgpDownlinkPacketsSignalling |

8.12.13.2 ERI_NSVC_NSC_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
NSVC_ID		VARCHAR2(50)	[NSC_NSVC] Node_Id &"/"& moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6I24SU2AHBFBJ035XKCTSI	NSDOWNLINKPACKETS	NUMBER	[NSC_NSVC] nsDownlinkPackets
S4BA6I44SU2AHBFBJ035XKCTSI	NSDOWNLINKPACKETSDISCARDED	NUMBER	[NSC_NSVC] nsDownlinkPacketsDiscarded

8.2.14   Raw Processor Tables

8.2.14.1   ERI_PROCESSOR_CPU_IFBRD_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
PROCESSOR_ID		VARCHAR2(50)	[Ibxx] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
R2TWOB0FJDCIPR365BKKJRJJO2	SNCPUUSAGEIB	FLOAT	[Ibxx] SYS_gsnCpuUsageIB

8.2.14.2   ERI_SYS_RESOURCE_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
PROCESSOR_ID		VARCHAR2(50)	[Ibxx_GPB] Node_Id & "/" & moid

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQMDKMP2AHU25J035YHSYSY	GSNCPUUSAGE	FLOAT	[Ibxx_GPB] SYS_gsnCpuUsage
W2VRQMFKMP2AHU25J035YHSYSY	GSNMEMUSAGE	FLOAT	[Ibxx_GPB] SYS_gsnMemUsage
W2VRQMHKMP2AHU25J035YHSYSY	PAYLOADFAILUREG	NUMBER	[Ibxx_GPB] SYS_PayloadAllocationFailure_G
W2VRQMJKMP2AHU25J035YHSYSY	PAYLOADFAILUREU	NUMBER	[Ibxx_GPB] SYS_PayloadAllocationFailure_U

8.2.15   Raw Routing_Area Tables

8.2.15.1   ERI_RA_MOBMGMT_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[MM_IndexG] moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XI1YVG0HDABUFUWKWJLQT4GGSC	ATTGPRSATTACH	NUMBER	[MM_IndexG] MM_AttGprsAttach_G
T6J1OMOQ6SCW5D30V64VD0T3XV	SUCCGPRSATTACH	NUMBER	[MM_IndexG] MM_SuccGprsAttach_G
X6UCURTPQXBILS2Q0V2QU4H2VH	ATTGPRSDETACHMS	NUMBER	[MM_IndexG] MM_AttGprsDetachMs_G
U5UX4S3TRRCBBUEPSG5IXPJSRE	ATTGPRSDETACHSGSN	NUMBER	[MM_IndexG] MM_AttGprsDetachSgsn_G
RA0OWPUKN4C1TBPESAPXCUTY15	ATTINTERSGSNRAUPDATE	NUMBER	[MM_IndexG] MM_AttInterSgsnRaUpdate_G
SYYL1UVPAICVLEURR1W0MVA0JN	SUCCINTERSGSNRAUPDATE	NUMBER	[MM_IndexG] MM_SuccInterSgsnRaUpdate_G
XUW3TVDJ4RCAUDQVVG3DOCN4W6	ATTINTRASGSNRAUPDATE	NUMBER	[MM_IndexG] MM_AttIntraSgsnRaUpdate_G
X50E6NAEXJBUHUF0OIFGQFGPYA	SUCCINTRASGSNRAUPDATE	NUMBER	[MM_IndexG] MM_SuccIntraSgsnRaUpdate_G
RJWSAJCR6PBEMBADURUMU3LMQP	ATTPSPAGINGPROCGB	NUMBER	[MM_IndexG] MM_AttPsPagingProcGb
XWFIJEOQFYCKUDIJOHYC6KMG1W	SUCCPSPAGINGPROCGB	NUMBER	[MM_IndexG] MM_SuccPsPagingProcGb
T64YBMEEI6C0MB2WURRT4Y5ADC	MM_ATTNORMALINTRASGSNRAUP_G	NUMBER	[MM_IndexG] MM_AttNormalIntraSgsnRaUpdate_G

U0IIPKFTNGB5MSWW4ISOS2GYII	MM_SUCCNORMALINTRASGSNRAUP_G	NUMBER	[MM_IndexG] MM_SuccNormalIntraSgsnRaUpdate_G
TUX4SMFTSBBDJRRDTWL0C1CAO6	MM_NBRACTATTACHEDSUBRA_G	NUMBER	[MM_IndexG] MM_NbrActAttachedSubRA_G
W4KSOA1KTHCBJT20TRD6J2OGFO	MM_ATTIMSICOMBIINTERSGSNRAUP_G	NUMBER	[MM_IndexG] MM_AttImsiCombiInterSgsnRaUpdate_G
X52AOV52P3BSPSN5BA5GLSDYG5	MM_ATTCOMBIINTERSGSNRAUPDATE_G	NUMBER	[MM_IndexG] MM_AttCombiInterSgsnRaUpdate_G
R4BP6HIA4PCSFCPOIJXRP65BYC	MM_SUCCCOMBIINTERSGSNRAUP_G	NUMBER	[MM_IndexG] MM_SuccCombiInterSgsnRaUpdate_G
UILXOX0I3QBTEBQDEH1Y0N2D2X	MM_ATTIMSICOMBIINTRASGSNRAUP_G	NUMBER	[MM_IndexG] MM_AttImsiCombiIntraSgsnRaUpdate_G
TRG2NHO6N3CHFCMXG5YDJJO6AO	MM_ATTCOMBIINTRASGSNRAUPDATE_G	NUMBER	[MM_IndexG] MM_AttCombiIntraSgsnRaUpdate_G
XUEN311XWWBISRSVPPMWSHATL3	MM_SUCCCOMBIINTRASGSNRAUP_G	NUMBER	[MM_IndexG] MM_SuccCombiIntraSgsnRaUpdate_G
SSXYEJRGMHBRATP04NYHT6ADP1	MM_SUCCGPRSDETACHSGSN	NUMBER	[MM_IndexG] MM_SuccGprsDetachSgsn_G
WXLIBRWALCBD0RYJ12R6IOTF2V	MM_ATTINTRASGSNRAUPDATE_G	NUMBER	[MM_IndexG] MM_AttIntraSgsnRaUpdate_G
S4BA6G04SU2AHBFBJ035XKCTSI	MM_SUCCFIRSTPSPAGINGGB	NUMBER	[MM_IndexG] MM_SuccFirstPsPagingGb

8.2.15.2 ERI_RA_MOBMGMTUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[MM_IndexU] moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
Y44HDOL6OBCKQBP0NC5QB6FI44	ATTGPRSATTACH	NUMBER	[MM_IndexU] MM_AttGprsAttach_U
S2UNTFV5VBBGOC5DR3CVC356A0	SUCCGPRSATTACH	NUMBER	[MM_IndexU] MM_SuccGprsAttach_U
TIE3JPABBFC41U4LLS02BYXGP0	ATTGPRSDETACHMS	NUMBER	[MM_IndexU] MM_AttGprsDetachMs_U
T5DRA16OJTCEDU4I00LBLANM5W	ATTGPRSDETACHSGSN	NUMBER	[MM_IndexU] MM_AttGprsDetachSgsn_U
XAYW1X50NHC15EVLLBUMUQ6RP1	ATTINTERSGSNRAUPDATE	NUMBER	[MM_IndexU] MM_AttInterSgsnRaUpdate_U
RAB42H4UIOB41U3XQUYT45CE0B	SUCCINTERSGSNRAUPDATE	NUMBER	[MM_IndexU] MM_SuccInterSgsnRaUpdate_U
UOFYNDJ1HNBFCS1NRRQCQSH1BS	ATTINTRASGSNRAUPDATE	NUMBER	[MM_IndexU] MM_AttIntraSgsnRaUpdate_U

XUGOS6CVOWBTYBHHGYFDLSPPHL	SUCCINTRASGSNRAUPDATE	NUMBER	[MM_IndexU] MM_SuccIntraSgsnRaUpdate_U
UWXN35PJBOBFNDNKJH0WO2LFBV	ATTPSPAGINGPROCIU	NUMBER	[MM_IndexU] MM_AttPsPagingProcIu
UWXN35PJBOBFNDNKJH0WO2LFBV	SUCCPSPAGINGPROCIU	NUMBER	[MM_IndexU] MM_SuccPsPagingProcIu
T1X5UPTPIGCLTBBGQTWGSXQDXJ	MM_ATTNORMALINTRASGSNRAUP_U	NUMBER	[MM_IndexU] MM_AttNormalIntraSgsnRaUpdate_U
UWYO12LONTBQFTD3TA32Y3U1BS	MM_SUCCNORMALINTRASGSNRAUP_U	NUMBER	[MM_IndexU] MM_SuccNormalIntraSgsnRaUpdate_U
U0FU6GUWSMC25RR1T2QUKMOQWE	MM_SUCCGPRSDETACHSGSN_U	NUMBER	[MM_IndexU] MM_SuccGprsDetachSgsn_U
SRXXTPK3ROBU2D0MUUVUYFRSQE	MM_NBRACTATTACHEDSUBRA_U	NUMBER	[MM_IndexU] MM_NbrActAttachedSubRA_U
S4BA6G24SU2AHBFBJ035XKCTSI	MM_SUCCFIRSTPSPAGINGIU	NUMBER	[MM_IndexU] MM_SuccFirstPsPagingIu

8.2.15.3   ERI_RA_SESMGMT_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[SM_Index] moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6JL4SU2AHBFBJ035XKCTSI	SM_ATTACTPDPCONTEXTRA_G	NUMBER	[SM_Index] SM_AttActPdpContextRa_G
S4BA6JP4SU2AHBFBJ035XKCTSI	SM_SUCCACTPDPCONTEXTRA_G	NUMBER	[SM_Index] SM_SuccActPdpContextRa_G

8.2.15.4   ERI_RA_SESMGMTUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
ROUTING_AREA_ID		VARCHAR2(50)	[SM_Index] moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6JN4SU2AHBFBJ035XKCTSI	SM_ATTACTPDPCONTEXTRA_U	NUMBER	[SM_Index] SM_AttActPdpContextRa_U
S4BA6JT4SU2AHBFBJ035XKCTSI	SM_SUCCACTPDPCONTEXTRA_U	NUMBER	[SM_Index] SM_SuccActPdpContextRa_U

8.2.16 Raw Security_Association Tables

8.2.16.1 ERI_SECASSOC_IPSECASSOC_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SECURITY_ASSOCIATION_ID		VARCHAR2(50)	[IPSec_SA] Node_Id & "/" & SA_Name
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UUER12WAHJCG6UW1CBL3DYE0JL	IPSECSAPACKETSOK	NUMBER	[IPSec_SA] ipsecSaPacketsOk
U5HIVTEREHCRHCWLX3YU2TFW44	IPSECSAPACKETSNOTOK	NUMBER	[IPSec_SA] ipsecSaPacketsNotOk
VJIPTIUDX6BARCWMAC51VUND2N	IPSECSACURRENTBYTES	NUMBER	[IPSec_SA] ipsecSaCurrentBytes

8.2.17 Raw SGSN Tables

8.2.17.1 ERI_MBMS_PERFMON_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[MBMS] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQN0KMP2AHU25J035YHSYSY	SM_NBRACTSESSIONS	NUMBER	[MBMS] SM_NbrActSessions

8.2.17.2 ERI_SGSN_BSSGP_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[BSBGP_SGSN] Node_Id

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQLNKMP2AHU25J035YHSYSY	BSSGPDLPKTBUFFMOBILESUSPEND	NUMBER	[BSBGP_SGSN] bssgpDownlinkPacketsBuffMobileSuspend
W2VRQLPKMP2AHU25J035YHSYSY	BSSGPDLPKTBUFFSNAPSHOT	NUMBER	[BSBGP_SGSN] bssgpDownlinkPacketsBuffSnapshot
W2VRQLRKMP2AHU25J035YHSYSY	BSSGPDLPKTDISCARDEDBUCKETFULL	NUMBER	[BSBGP_SGSN] bssgpDownlinkPacketsDiscardedBucketFull
W2VRQLTKMP2AHU25J035YHSYSY	BSSGPDLPKTDISCARDEDBVCBLOCKED	NUMBER	[BSBGP_SGSN] bssgpDownlinkPacketsDiscardedBvcBlocked
W2VRQLVKMP2AHU25J035YHSYSY	BSSGPDLPKTDISCARDMOBILESUSPEND	NUMBER	[BSBGP_SGSN] bssgpDownlinkPacketsDiscardedMobileSuspend
W2VRQLXKMP2AHU25J035YHSYSY	BSSGPDLPKTDISCARDLLCSUSPENDED	NUMBER	[BSBGP_SGSN] bssgpDownlinkPacketsDiscardLlcSuspended
UYPKFFJH3GBF5RYGLX0DIFFDWW	BSSGPATTRESUMEPROC	NUMBER	[BSBGP_SGSN] bssgpAttResumeProc
RIMATLQXRGCSHULV6FD6JMBJ1E	BSSGPATTSUSPENDPROC	NUMBER	[BSBGP_SGSN] bssgpAttSuspendProc

8.2.17.3   ERI_SGSN_CAMEL_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[CAMEL] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RB0VH64UXBCHRBKAYEKTK2IWV3	ATTCAMELDIALOGUES	NUMBER	[CAMEL] CAM_AttCamelDialogues_G
Y1NK0I1AK2C1MBXG0MR42XD0RY	FAILDIALOGUESSSF	NUMBER	[CAMEL] CAM_FailDialoguesSsf_G
WDN2BGLCWCCRCBHPNHNKWFFV2I	FAILDIALOGUESSCF	NUMBER	[CAMEL] CAM_FailDialoguesScf_G

8.2.17.4   ERI_SGSN_CAMEL_UMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[CAMEL] Node_Id
TSTAMP		DATE	

INSTANCE_ID		NUMBER	
VOD53FJKVVC6FCR5DHDLUE4LYX	ATTCAMELDIALOGUES	NUMBER	[CAMEL] CAM_AttCamelDialogues_U
YMHS3J56PHCUDRQNV5EAJDNUQR	FAILDIALOGUESSSF	NUMBER	[CAMEL] CAM_FailDialoguesSsf_U
YKXKG1A5WVC1FBLPXABJ4WMV2H	FAILDIALOGUESSCF	NUMBER	[CAMEL] CAM_FailDialoguesScf_U

8.2.17.5   ERI_SGSN_EIR_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[EQUIP] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YCETE0OBVJBRGBNO3D4W6SUPJ5	NBROFBLACKANSWERINSGSN	NUMBER	[EQUIP] nbrOfBlackAnswerInSgsn
SIADXA2N5ECYPU3OHRDA1HLYXU	NBROFCHECKIMEIREQUEST	NUMBER	[EQUIP] nbrOfCheckIMEIRequest
WFWIHU4WPOBG4CC3RUIS2EEQKM	NBROFGREYANSWERINSGSN	NUMBER	[EQUIP] nbrOfGreyAnswerInSgsn
RJJWQIE3YEBXBCYFQDHWGV14GR	NBROFUNKNOWNANSWERINSGSN	NUMBER	[EQUIP] nbrOfUnknownAnswerInSgsn
VVH5XDRRNIB44RODPYNOJAD4PR	NBROFWHITEANSWERINSGSN	NUMBER	[EQUIP] nbrOfWhiteAnswerInSgsn

8.2.17.6   ERI_SGSN_GSNOVLDPROT_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[Overload] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XPUBAFB50XBNKDF4K15PDOXW10	GSNOVERLOADPROTIGNOREDEXISTCON	NUMBER	[Overload] gsnOverloadProtectionIgnoredExistingConnections
WONJ1VKAI6BURRN2C1F3UQ0LUV	GSNOVERLOADPROTIGNOREDNEWCON	NUMBER	[Overload] gsnOverloadProtectionIgnoredNewConnections

UPIL2VXN4WCDARNTROX1JBQUBJ	GSNOVERLOADPROTSS7MESSAGEREJ	NUMBER	[Overload] gsnOverloadProtectionSs7MessageReject_1 + gsnOverloadProtectionSs7MessageReject_2 + gsnOverloadProtectionSs7MessageReject_3 + gsnOverloadProtectionSs7MessageReject_4 + gsnOverloadProtectionSs7MessageReject_5
XTBH2E45MX2AHUDA0035YECWKE	GSNOVERLOADPROTSS7MESSAGEREJ1	NUMBER	[Overload] gsnOverloadProtectionSs7MessageReject_1
XTBH2E65MX2AHUDA0035YECWKE	GSNOVERLOADPROTSS7MESSAGEREJ2	NUMBER	[Overload] gsnOverloadProtectionSs7MessageReject_2
XTBH2EB5MX2AHUDA0035YECWKE	GSNOVERLOADPROTSS7MESSAGEREJ3	NUMBER	[Overload] gsnOverloadProtectionSs7MessageReject_3
Y1PBFMV5MX2AHUDA0035YECWKE	GSNOVERLOADPROTSS7MESSAGEREJ4	NUMBER	[Overload] gsnOverloadProtectionSs7MessageReject_4
YBCUIGN5MX2AHUDA0035YECWKE	GSNOVERLOADPROTSS7MESSAGEREJ5	NUMBER	[Overload] gsnOverloadProtectionSs7MessageReject_5

8.2.17.7 ERI_SGSN_GTPPAYLOAD_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[GTP] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQM4KMP2AHU25J035YHSYSY	MBMSINDATAPKTGN	NUMBER	[GTP] GTP_MBMSInDataPktGn
UES0JSIDBQCJED6DYJMVHWSYD0	INDATAPKTGN	NUMBER	[GTP] GTP_InDataPktGn
VEGA6SAILPBNBD4BSMEXX53TCY	OUTDATAPKTGN	NUMBER	[GTP] GTP_OutDataPktGn
TA1D2BWBX2BQ6DEIEK5WK3QSQX	INDATAOCTGN	NUMBER	[GTP] GTP_InDataOctGn
ROG6U334BRBUER2KJY510TB5KH	OUTDATAOCTGN	NUMBER	[GTP] GTP_OutDataOctGn
SO4RU3OWONBYFDDKNBFPJXIKJV	PAYLOADGTPUERRORPKT	NUMBER	[GTP] GTP_PayloadgtpuErrorPkt
Y3JLMS6B3XBMPBYHPAOGFI12HF	TOT_DATAOCTGN	NUMBER	[GTP] GTP_InDataOctGn + GTP_OutDataOctGn

8.2.18.8 ERI_SGSN_GTPPAYLOADUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping

SGSN_ID		VARCHAR2(50)	[GTP] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQM2KMP2AHU25J035YHSYSY	GTPDLPKTBUFFU	NUMBER	[GTP] GTP_DownlinkPacketsBuff_U
W2VRQM6KMP2AHU25J035YHSYSY	GTPMBMSOUTDATAPKTIU	NUMBER	[GTP] GTP_MBMSOutDataPktIu
W2VRQMBKMP2AHU25J035YHSYSY	GTPTOTALDLPKTBUFFU	NUMBER	[GTP] GTP_TotalDownlinkPacketsBuff_U
R5Q3ROKPW4B4UUIBN2XJX24WO4	GTPTPUINDATAPKTIU	NUMBER	[GTP] GTP_GtpuInDataPktIu
VFUDBYWODACBTEYDSP0RFJK21D	GTPTPUOUTDATAPKTIU	NUMBER	[GTP] GTP_GtpuOutDataPktIu
XMNLGCUA4CBD3USGB6HFLPMFNQ	GTPTPUINDATAOCTIU	NUMBER	[GTP] GTP_GtpuInDataOctIu
UETFV3TSG0CLIBN4KDJH0FDSCC	GTPTPUOUTDATAOCTIU	NUMBER	[GTP] GTP_GtpuOutDataOctIu
X4XKDNM6TUCKQEF3KWUJN11KG1	TOT_DATOCTIU	NUMBER	[GTP] GTP_GtpuInDataOctIu+GTP_GtpuOutDataOctIu

8.2.18.9 ERI_SGSN_LOGLNKCTRL_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[LLC] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RY3ALIOFHVC4NUYSQTFCYFDN0V	NBRLLCFRAMESSENT	NUMBER	[LLC] nbrLlcFramesSent
VNIPK34XFSB1NCWFLWIVVASXMM	NBRLLCFRAMESRECEIVED	NUMBER	[LLC] nbrLlcFramesReceived
WUQMS1FPYOCG1E1ONT4MQ3NSTF	ERRLLCFRAMESDETECTEDBYSGSN	NUMBER	[LLC] errLlcFramesDetectedBySgsn

8.2.18.10 ERI_SGSN_MOBMGMT_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping

SGSN_ID		VARCHAR2(50)	[MM_nonindexed] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQN2KMP2AHU25J035YHSYSY	ATTGPRSATTACHVISITOR	NUMBER	[MM_nonindexed] attGprsAttachVisitor
W2VRQN4KMP2AHU25J035YHSYSY	ATTINTERSGSNRAUPDATEVISITOR	NUMBER	[MM_nonindexed] attInterSgsnRaUpdateVisitor
W2VRQN6KMP2AHU25J035YHSYSY	DISCARDEDATTACHMSERROR	NUMBER	[MM_nonindexed] discardedAttachMsError
W2VRQNBKMP2AHU25J035YHSYSY	HHO_ATTINTERSGSNNEW	NUMBER	[MM_nonindexed] HHO_AttInterSGSNNew
W2VRQNDKMP2AHU25J035YHSYSY	HHO_ATTINTERSGSNOLD	NUMBER	[MM_nonindexed] HHO_AttInterSGSNOld
W2VRQNFKMP2AHU25J035YHSYSY	HHO_ATTINTRASGSN	NUMBER	[MM_nonindexed] HHO_AttIntraSGSN
W2VRQNHKMP2AHU25J035YHSYSY	HHO_ATTOPTINTRASGSN	NUMBER	[MM_nonindexed] HHO_AttOptIntraSGSN
W2VRQNJKMP2AHU25J035YHSYSY	HHO_SUCCINTERSGSNNEW	NUMBER	[MM_nonindexed] HHO_SuccInterSGSNNew
W2VRQNLKMP2AHU25J035YHSYSY	HHO_SUCCINTERSGSNOLD	NUMBER	[MM_nonindexed] HHO_SuccInterSGSNOld
W2VRQNNKMP2AHU25J035YHSYSY	HHO_SUCCINTRASGSN	NUMBER	[MM_nonindexed] HHO_SuccIntraSGSN
W2VRQNPKMP2AHU25J035YHSYSY	HHO_SUCCOPTINTRASGSN	NUMBER	[MM_nonindexed] HHO_SuccOptIntraSGSN
W2VRQNTKMP2AHU25J035YHSYSY	IRATHO_ATTINTERSGSNNEWUMTSGSM	NUMBER	[MM_nonindexed] IRATHO_AttInterSGSNNewUmtsGsm
W2VRQNXKMP2AHU25J035YHSYSY	IRATHO_ATTINTERSGSNOLDUMTSGSM	NUMBER	[MM_nonindexed] IRATHO_AttInterSGSNOldUmtsGsm
W2VRQO2KMP2AHU25J035YHSYSY	IRATHO_ATTINTRASGSNUMTSGSM	NUMBER	[MM_nonindexed] IRATHO_AttIntraSGSNUmtsGsm
W2VRQO6KMP2AHU25J035YHSYSY	IRATHO_SUCCINTERSGSNNEWUMTSGSM	NUMBER	[MM_nonindexed] IRATHO_SuccInterSGSNNewUmtsGsm
W2VRQODKMP2AHU25J035YHSYSY	IRATHO_SUCCINTERSGSNOLDUMTSGSM	NUMBER	[MM_nonindexed] IRATHO_SuccInterSGSNOldUmtsGsm
W2VRQOHKMP2AHU25J035YHSYSY	IRATHO_SUCCINTRASGSNUMTSGSM	NUMBER	[MM_nonindexed] IRATHO_SuccIntraSGSNUmtsGsm
W2VRQOLKMP2AHU25J035YHSYSY	MM_ATTATTACHACCEPTNON3GPPCOMPG	NUMBER	[MM_nonindexed] MM_AttAttachAcceptNon3GPPCompliant_G
W2VRQOPKMP2AHU25J035YHSYSY	MM_ATTAUTHCIPHREQNON3GPPCOMPG	NUMBER	[MM_nonindexed] MM_AttAuthCiphReqNon3GPPCompliant_G
W2VRQOTKMP2AHU25J035YHSYSY	MM_ATTCHANGEOFLOCALTIME_G	NUMBER	[MM_nonindexed] MM_AttChangeOfLocalTime_G

W2VRQP0KMP2AHU25J035YHSYSY	MM_ATTRAUACCEPTNON3GPPCOMPG	NUMBER	[MM_nonindexed] MM_AttRauAcceptNon3GPPCompliant_G
W2VRQPDKMP2AHU25J035YHSYSY	MM_UNSUCCINTERSGSNRAU_G	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRau_G
W2VRQPHKMP2AHU25J035YHSYSY	MM_UNSUCCINTERSGSNRAUCC10_G	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC10_G
W2VRQPLKMP2AHU25J035YHSYSY	MM_UNSUCCINTERSGSNRAUCC15_G	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC15_G
W2VRQPPKMP2AHU25J035YHSYSY	MM_UNSUCCINTRASGSNRAU_G	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRau_G
W2VRQPTKMP2AHU25J035YHSYSY	MM_UNSUCCINTRASGSNRAUCC15_G	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRauCC15_G
W2VRQQ2KMP2AHU25J035YHSYSY	SUCCGPRSATTACHVISITOR	NUMBER	[MM_nonindexed] succGprsAttachVisitor
W2VRQQ4KMP2AHU25J035YHSYSY	SUCCINTERSGSNRAUPDATEVISITOR	NUMBER	[MM_nonindexed] succInterSgsnRaUpdateVisitor
T1QMWFD2F1BGRRTDJ1Q4WG604W	ATTCOMBIATTACH	NUMBER	[MM_nonindexed] attCombiAttach
TFEELV14ISB5JSC0NHNINESX6K	SUCCCOMBIATTACH	NUMBER	[MM_nonindexed] succCombiAttach
RUUUUFPB06CVBTLMHPFP1CEJQB	ATTGPRSATTACH	NUMBER	[MM_nonindexed] attGprsAttach
UNE5GMQ2I1BK0SCLJ1MC0AC1MD	SUCCGPRSATTACH	NUMBER	[MM_nonindexed] succGprsAttach
UX32AWSGN4BBNUN3JEYMDG00MH	ATTIMSIATTACH	NUMBER	[MM_nonindexed] attImsiAttach
Y26QID6E5PBHGU6HHDVBAWIVW4	GPRSMMSGSNSUCCESSFULPAGINGPROC	NUMBER	[MM_nonindexed] gprsMmSgsnSuccessfulPagingProcedures
X6SIFG3BMLBCICOWDT6JOYDRNK	GPRSMMSGSNUNSUCCATTACHREQ	NUMBER	[MM_nonindexed] gprsMmSgsnUnsuccessfulAttachRequests
X156D313YOCY3CWIFEXTTW2TLI	GPRSMMSGSNUNSUCCPAGINGPROC	NUMBER	[MM_nonindexed] gprsMmSgsnUnsuccessfulPagingProcedures
URWP5RL1R5CDDRTQMWAB3RE50X	NBRDETACHEDINACTIVESUB	NUMBER	[MM_nonindexed] MM_nbrDetachedInactiveSub_G
R4LJOOIVAKBQHDG4NFMJL52PLC	NBROFSUBREADY	NUMBER	[MM_nonindexed] nbrOfSubReady
USVHMSYKFLCHVDQVOCJ6MS142S	ATTDETACHINACTIVESUB	NUMBER	[MM_nonindexed] MM_AttDetachInactiveSub_G
RFFSGANYJACGHBC3OCT3PPABMH	ATTIMSIDETACHMS	NUMBER	[MM_nonindexed] attImsiDetachMS
STRHLRI602CSGE2JWT1VD0SCVB	ATTINTERSGSNRAUPDATE	NUMBER	[MM_nonindexed] attInterSgsnRaUpdate
TYUKBCW2HFBL2CCH6OIX22GIJT	SUCCINTERSGSNRAUPDATE	NUMBER	[MM_nonindexed] succInterSgsnRaUpdate
RH6XCXAGQWBAMRLOD2FB3I63GR	ATTINTRASGSNRAUPDATE	NUMBER	[MM_nonindexed] attIntraSgsnRaUpdate

VIO6VGSOYXC1ATSMNS5EGJH0BT	SUBSCRIBERSINTRANSITIONALSTATE	NUMBER	[MM_nonindexed] subscribersInTransitionalState
UQM1XV32U1CDYE6K5X4SJNIS2J	UNSUCCATTACHCC7	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC7_G
XQJAKVW2JUCM6E35OQTIEFTLC1	UNSUCCATTACHCC8	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC8_G
UYQEC6U0H0BW2R3N4EQRHL43IG	UNSUCCATTACHCC13	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC13_G
XJQGN0A1S5CG3RP2OHCH6MB2GH	UNSUCCATTACHCC14	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC14_G
T2QDUSD2A2CI0R0IO5HPAAVDTL	UNSUCCATTACHCC15	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC15_G
R5SK5GYPT2BILC4E1EJXROLS4J	UNSUCCATTACHCC22	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC22_G
X3IX4MDDJQB6KTDXJJPH4AJ6HO	UNSUCCPACKETSWITCHINGPAGING	NUMBER	[MM_nonindexed] unsuccPacketSwitchingPaging
UUKFUUY3K3C0ISFDTKDVH613KV	SUCCIMSIATTACH	NUMBER	[MM_nonindexed] succImsiAttach
XO3R600FYHBROUSIMEXUGRUI3X	ATTGPRSDETACHMS	NUMBER	[MM_nonindexed] attGprsDetachMs
TII3AJRR2BCHIRY6MRTRNHFUCO	ATTGPRSDETACHSGSN	NUMBER	[MM_nonindexed] attGprsDetachSgsn
VQQUXX61JBC3SDMODU3KH6JAM4	SUCCGPRSDETACHSGSN	NUMBER	[MM_nonindexed] succGprsDetachSgsn
X3OIGR63QLBT4RXF0HWEKJW15M	ATTCOMBIDETACHMS	NUMBER	[MM_nonindexed] attCombiDetachMs
SXNRNFGTU3CDSSNGJEY2OXJJXY	NBROFSUBSTANDBY	NUMBER	[MM_nonindexed] nbrOfSubStandby
UR2TTGUHEQC23S5V5YVLTTAOFR	NBRACTATTACHEDSUB	NUMBER	[MM_nonindexed] MM_NbrActAttachedSub_G
TTLYURT6YOBGBRGL3CRPCQ1N5P	NBRHOMESUB	NUMBER	[MM_nonindexed] MM_NbrHomeSub_G
VD4BCQ2UQOCWPT0R3IENOITCC0	NBRVISITINGFOREIGN	NUMBER	[MM_nonindexed] MM_NbrVisitingForeign_G
R0G0CTNSMVCWKU60VAYYGIT5NF	NBRVISITINGNATSUB	NUMBER	[MM_nonindexed] MM_NbrVisitingNatSub_G
V52H6LEPTMCMUSW6JLSCG3YHTN	SUCCINTRASGSNRAUPDATE	NUMBER	[MM_nonindexed] succIntraSgsnRaUpdate
T5K5P22C6VCLFE3U3HRIJUS5OV	ATTPACKETSWITCHINGPAGING	NUMBER	[MM_nonindexed] attPacketSwitchingPaging
RSQFABFL03B14RSBIPAUJVAL1Y	GPRSMMSGSNPAGINGPROCEDURES	NUMBER	[MM_nonindexed] gprsMmSgsnPagingProcedures
WGFMK3SY25CHCCMXGKCR6B1JPG	GPRSMMSGSNREJECTEDBYADMCONTROL	NUMBER	[MM_nonindexed] gprsMmSgsnRejectedByAdmissionControl
R50PSH0EFWB5HBES2O4HCNM5YP	MM_NBRCAMELSUB_G	NUMBER	[MM_nonindexed] MM_NbrCamelSub_G
TVJPHDYCURBO1E0TDUPRKJMWWR	MM_NBRSUBPMMCONNECTED	NUMBER	[MM_nonindexed] MM_NbrSubPmmConnected

RFYGPYC0MBCJYSC6I5EBV4O43Q	MM_UNSUCCATTACHCC17_G	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC17_G
RVKOR3YRMDBQ3TRQFS2WTBBO6C	MM_UNSUCCINTERSGSNRAUCC14_G	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC14_G
RJXNSYN4WACTTCXJGLUN22QBHE	MM_UNSUCCINTERSGSNRAUCC17_G	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC17_G
XV0K0YXSPEB5IT4144RLBQR0MM	MM_UNSUCCINTERSGSNRAUCC9_G	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC9_G
WIG0F666S3BNXS6VGBNCSUOYFR	MM_UNSUCCINTRASGSNRAUCC14_G	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRauCC14_G
WKCFXB6LOPCDFDWFQGVH0KJFYC	MM_UNSUCCINTRASGSNRAUCC17_G	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRauCC17_G
S4BA6GB4SU2AHBFBJ035XKCTSI	MM_UNSUCCATTACHCC11_G	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC11_G
S4BA6HR4SU2AHBFBJ035XKCTSI	DISCARDEDGPRSATTACH	NUMBER	[MM_nonindexed] discardedGprsAttach
S4BA6HT4SU2AHBFBJ035XKCTSI	DISCARDEDCOMBIATTACH	NUMBER	[MM_nonindexed] discardedCombiAttach
S4BA6HV4SU2AHBFBJ035XKCTSI	DISCARDEDRAUPDATE	NUMBER	[MM_nonindexed] discardedRaUpdate
S4BA6HX4SU2AHBFBJ035XKCTSI	DISCARDEDCOMBIRAUPDATE	NUMBER	[MM_nonindexed] discardedCombiRaUpdate
S4BA6I04SU2AHBFBJ035XKCTSI	DISCARDEDDETACH	NUMBER	[MM_nonindexed] discardedDetach

8.2.18.11 ERI_SGSN_MOBMGMTUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[MM_nonindexed] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WXXN3MXYKVBK6CXV0UX0LGB2DU	NBRACTATTACHEDSUB	NUMBER	[MM_nonindexed] MM_NbrActAttachedSub_U
TXSDPDERUBCA6EOCUO5VIGLK46	NBRHOMESUB	NUMBER	[MM_nonindexed] MM_NbrHomeSub_U
UJ32LRT4MHCSLUD1L3HRHR3WPI	NBRVISITINGFOREIGN	NUMBER	[MM_nonindexed] MM_NbrVisitingForeign_U
UPDEN5GILTB44UX1N6BOD004U0	NBRVISITINGNATSUB	NUMBER	[MM_nonindexed] MM_NbrVisitingNatSub_U
WQ12XJXSECC1MC4AH3SMSAW3PK	UNSUCCATTACHCC7	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC7_U
WWKBDYRJYBBK0UW4PL41R0LD64	UNSUCCATTACHCC8	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC8_U

SCLCX4KXU6CLXDLUHBGYLYSD1M	UNSUCCATTACHCC13	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC13_U
S4PKF5H25KCDBDR2056PESP3IG	UNSUCCATTACHCC14	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC14_U
YHA5B22XEEBTJD0JLXFX5YBSXO	UNSUCCATTACHCC15	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC15_U
T1PEKJ1XLLBLGSW1VU6HXPD2SI	UNSUCCATTACHCC22	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC22_U
XRQLRWOGV0BL0CCUSK1MFKX5Y3	MM_NBRCAMELSUB_U	NUMBER	[MM_nonindexed] MM_NbrCamelSub_U
VUAGWKR5WACLPSMUQ6C11N1LG3	MM_UNSUCCATTACHCC17_U	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC17_U
YY0HW4G1PCCA1EUWPHO3TCJBXL	MM_UNSUCCINTERSGSNRAUCC14_U	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC14_U
RCFXOBBQQUB2NDH1RUBFVO1QBW	MM_UNSUCCINTERSGSNRAUCC17_U	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC17_U
WWGVHIFGW0C6AEVHSUXWNHYU1X	MM_UNSUCCINTERSGSNRAUCC9_U	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC9_U
RKX52HOQM1CJHEWWHFFQJDVMSK	MM_UNSUCCINTRASGSNRAUCC14_U	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRauCC14_U
UJMO2TFAOJC5PRKN432OW6T00H	MM_UNSUCCINTRASGSNRAUCC17_U	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRauCC17_U
S4BA6GD4SU2AHBFBJ035XKCTSI	MM_UNSUCCATTACHCC11_U	NUMBER	[MM_nonindexed] MM_UnsuccAttachCC11_U
S4BA6GF4SU2AHBFBJ035XKCTSI	MM_UNSUCCATTACHCSPSCOORD_U	NUMBER	[MM_nonindexed] MM_UnsuccAttachCSPSCoord_U
S4BA6GH4SU2AHBFBJ035XKCTSI	MM_UNSUCCISRAUCSPSCOORD_U	NUMBER	[MM_nonindexed] MM_UnsuccISRAUCSPSCoord_U
S4BA6GJ4SU2AHBFBJ035XKCTSI	ATTGPRSATTACHUMTS	NUMBER	[MM_nonindexed] attGprsAttachUmts
S4BA6GN4SU2AHBFBJ035XKCTSI	SUCCGPRSATTACHUMTS	NUMBER	[MM_nonindexed] succGprsAttachUmts
S4BA6GR4SU2AHBFBJ035XKCTSI	UNSUCCGPRSATTACHUMTS	NUMBER	[MM_nonindexed] unsuccGprsAttachUmts
S4BA6GT4SU2AHBFBJ035XKCTSI	ATTGPRSDETACHMSUMTS	NUMBER	[MM_nonindexed] attGprsDetachMsUmts
S4BA6GV4SU2AHBFBJ035XKCTSI	ATTGPRSDETACHSGSNUMTS	NUMBER	[MM_nonindexed] attGprsDetachSgsnUmts
S4BA6H04SU2AHBFBJ035XKCTSI	SUCCGPRSDETACHSGSNUMTS	NUMBER	[MM_nonindexed] succGprsDetachSgsnUmts
S4BA6H24SU2AHBFBJ035XKCTSI	ATTINTERSGSNRAUPDATEUMTS	NUMBER	[MM_nonindexed] attInterSgsnRaUpdateUmts
S4BA6H64SU2AHBFBJ035XKCTSI	SUCCINTERSGSNRAUPDATEUMTS	NUMBER	[MM_nonindexed] succInterSgsnRaUpdateUmts
S4BA6HB4SU2AHBFBJ035XKCTSI	ATTINTRASGSNRAUPDATEUMTS	NUMBER	[MM_nonindexed] attIntraSgsnRaUpdateUmts
S4BA6HF4SU2AHBFBJ035XKCTSI	SUCCINTRASGSNRAUPDATEUMTS	NUMBER	[MM_nonindexed] succIntraSgsnRaUpdateUmts

S4BA6HH4SU2AHBFBJ035XKCTSI	ATTPACKETSWITCHINGPAGINGUMTS	NUMBER	[MM_nonindexed] attPacketSwitchingPagingUmts
S4BA6HL4SU2AHBFBJ035XKCTSI	SUCCPACKETSWITCHINGPAGINGUMTS	NUMBER	[MM_nonindexed] succPacketSwitchingPagingUmts
S4BA6HP4SU2AHBFBJ035XKCTSI	UNSUCCPACKETSWITCHPAGINGUMTS	NUMBER	[MM_nonindexed] unsuccPacketSwitchingPagingUmts
S4BA6L24SU2AHBFBJ035XKCTSI	RELOC_ATTINTRASGSN	NUMBER	[MM_nonindexed] RELOC_AttIntraSGSN
S4BA6L64SU2AHBFBJ035XKCTSI	RELOC_SUCCINTRASGSN	NUMBER	[MM_nonindexed] RELOC_SuccIntraSGSN
S4BA6LD4SU2AHBFBJ035XKCTSI	RELOC_FAILINTRASGSNINT	NUMBER	[MM_nonindexed] RELOC_FailIntraSGSNInt
S4BA6LF4SU2AHBFBJ035XKCTSI	RELOC_ATTINTERSGSN	NUMBER	[MM_nonindexed] RELOC_AttInterSGSN
S4BA6LJ4SU2AHBFBJ035XKCTSI	RELOC_SUCCINTERSGSN	NUMBER	[MM_nonindexed] RELOC_SuccInterSGSN
S4BA6LN4SU2AHBFBJ035XKCTSI	RELOC_FAILINTERSGSNINT	NUMBER	[MM_nonindexed] RELOC_FailInterSGSNInt
S4BA6LP4SU2AHBFBJ035XKCTSI	RELOC_ATTINTERSGSNNEW	NUMBER	[MM_nonindexed] RELOC_AttInterSGSNNew
S4BA6LT4SU2AHBFBJ035XKCTSI	RELOC_SUCCINTERSGSNNEW	NUMBER	[MM_nonindexed] RELOC_SuccInterSGSNNew
W2VRQNRKMP2AHU25J035YHSYSY	IRATHO_ATTINTERSGSNNEWGSMUMTS	NUMBER	[MM_nonindexed] IRATHO_AttInterSGSNNewGsmUmts
W2VRQNVKMP2AHU25J035YHSYSY	IRATHO_ATTINTERSGSNOLDGSMUMTS	NUMBER	[MM_nonindexed] IRATHO_AttInterSGSNOldGsmUmts
W2VRQO0KMP2AHU25J035YHSYSY	IRATHO_ATTINTRASGSNGSMUMTS	NUMBER	[MM_nonindexed] IRATHO_AttIntraSGSNGsmUmts
W2VRQO4KMP2AHU25J035YHSYSY	IRATHO_SUCCINTERSGSNNEWGSMUMTS	NUMBER	[MM_nonindexed] IRATHO_SuccInterSGSNNewGsmUmts
W2VRQOBKMP2AHU25J035YHSYSY	IRATHO_SUCCINTERSGSNOLDGSMUMTS	NUMBER	[MM_nonindexed] IRATHO_SuccInterSGSNOldGsmUmts
W2VRQOFKMP2AHU25J035YHSYSY	IRATHO_SUCCINTRASGSNGSMUMTS	NUMBER	[MM_nonindexed] IRATHO_SuccIntraSGSNGsmUmts
W2VRQOJKMP2AHU25J035YHSYSY	USUCINTSGSNGSMUMTSRAUCSPSCOORD	NUMBER	[MM_nonindexed] ISYSC_UnsuccIntraSgsnGsmUmtsRauCSPSCoord
W2VRQONKMP2AHU25J035YHSYSY	MM_ATTATTACHACCEPTNON3GPPCOMPU	NUMBER	[MM_nonindexed] MM_AttAttachAcceptNon3GPPCompliant_U
W2VRQORKMP2AHU25J035YHSYSY	MM_ATTAUTHCIPHREQNON3GPPCOMPU	NUMBER	[MM_nonindexed] MM_AttAuthCiphReqNon3GPPCompliant_U
W2VRQOVKMP2AHU25J035YHSYSY	MM_ATTCHANGEOFLOCALTIME_U	NUMBER	[MM_nonindexed] MM_AttChangeOfLocalTime_U
W2VRQOXKMP2AHU25J035YHSYSY	MM_ATTDETACHINACTIVESUB_U	NUMBER	[MM_nonindexed] MM_AttDetachInactiveSub_U

W2VRQP2KMP2AHU25J035YHSYSY	MM_ATTRAUACCEPTNON3GPPCOMPU	NUMBER	[MM_nonindexed] MM_AttRauAcceptNon3GPPCompliant_U
W2VRQP4KMP2AHU25J035YHSYSY	MM_ATTSERVICEREQDATA_U	NUMBER	[MM_nonindexed] MM_AttServiceReqData_U
W2VRQP6KMP2AHU25J035YHSYSY	MM_ATTSERVICEREQUEST_U	NUMBER	[MM_nonindexed] MM_AttServiceRequest_U
W2VRQPBKMP2AHU25J035YHSYSY	MM_NBRDETACHEDINACTIVESUB_U	NUMBER	[MM_nonindexed] MM_nbrDetachedInactiveSub_U
W2VRQPFKMP2AHU25J035YHSYSY	MM_UNSUCCINTERSGSNRAU_U	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRau_U
W2VRQPJKMP2AHU25J035YHSYSY	MM_UNSUCCINTERSGSNRAUCC10_U	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC10_U
W2VRQPNKMP2AHU25J035YHSYSY	MM_UNSUCCINTERSGSNRAUCC15_U	NUMBER	[MM_nonindexed] MM_UnsuccInterSgsnRauCC15_U
W2VRQPRKMP2AHU25J035YHSYSY	MM_UNSUCCINTRASGSNRAU_U	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRau_U
W2VRQPVKMP2AHU25J035YHSYSY	MM_UNSUCCINTRASGSNRAUCC15_U	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRauCC15_U
W2VRQPXKMP2AHU25J035YHSYSY	MM_USUCINTRASGSNRAUCSPSCOORD_U	NUMBER	[MM_nonindexed] MM_UnsuccIntraSgsnRAUCSPSCoord_U
W2VRQQ0KMP2AHU25J035YHSYSY	MM_UNSUCCSERVICEREQ_U	NUMBER	[MM_nonindexed] MM_UnsuccServiceReq_U

8.2.18.12 ERI_SGSN_MSCONS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[ISP] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6G44SU2AHBFBJ035XKCTSI	MM_ATTACHEDLOST_G	NUMBER	[ISP] MM_AttachedLost_G
X4QQXV6T6KBQLBHLGE2D6GUOMC	GSNMANUALCONNECTIONRESTARTS	NUMBER	[ISP] gsnManualConnectionRestarts
TMLA2BFQK1CAVUX2YBS56TG2H2	GSNAUTOMATICCONNECTIONRESTARTS	NUMBER	[ISP] gsnAutomaticConnectionRestarts

8.2.18.13 ERI_SGSN_MSCONSUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[ISP] Node_Id

TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6G64SU2AHBFBJ035XKCTSI	MM_ATTACHEDLOST_U	NUMBER	[ISP] MM_AttachedLost_U

8.2.18.14 ERI_SGSN_MSSEC_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[Security] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SQ0DJV0ELSB2VBM3N1PTHYFUXB	ATTREQAUTHSETSSENTTOHLRBYSGSN	NUMBER	[Security] SEC_attReqAuthSetsSentToHlrBySgsn
YTEUOB6CXLBGRSJODN50DW2QT6	SUCCREQAUTHSETSSENTTOHLRBYSGSN	NUMBER	[Security] SEC_SuccReqAuthSetsSentToHlrBySGSN
YNYCW2HRKMBM0DX0VN1MLF6H0D	EMPTYRESPONSESAUTHSETSFROMHLR	NUMBER	[Security] SEC_emptyResponsesForAuthSetsFromHlr
WIVEQXYY5HB3KRMGENA6IPC6NG	ATTAUTHINSGSN	NUMBER	[Security] attAuthInSgsn
SGDPTA405JBOEDQ6ET6YQICDMP	SUCCAUTHINSGSN	NUMBER	[Security] succAuthInSgsn
WMSQTGUN1JBR4U3BH40Y1400SM	ATTAUTHPROCSSGSNSIM	NUMBER	[Security] SEC_AttAuthProcsSgsnSim_G
VYL0VVJI3SCN1RG6Q31W2GAOCS	SUCCAUTHPROCSSGSNSIM	NUMBER	[Security] SEC_SuccAuthProcsSgsnSim_G
RGPPLXW3BKBFWDPNX266FXL3EW	ATTAUTHPROCSSGSNUSIM	NUMBER	[Security] SEC_AttAuthProcsSgsnUsim_G
WBQWVVXGKAB5FUU24NANLYAW4S	SUCCAUTHPROCSSGSNUSIM	NUMBER	[Security] SEC_SuccAuthProcsSgsnUsim_G
XEJHLTOD1HBAAD52QN0M22V4KA	RECPOAUTHFAILSGSN	NUMBER	[Security] SEC_RecPOAuthFailSgsn_G
YKSC1YLN1XBLXBQA44SF4JII52	ATTIDENTITYREQIMSI	NUMBER	[Security] SEC_AttIdentityReqImsi_G
Y1KKHYMPVNCTKBM3XSP1C1PYTS	SUCCIDENTITYREQIMSI	NUMBER	[Security] SEC_SuccIdentityReqImsi_G
VI4TX5THB6BJNBI2GKIQ16VTGI	SEC_ATTCONTEXTREQUESTTOPSGSN_G	NUMBER	[Security] SEC_AttContextRequestToPsgsn_G
SJRWQY620ECWGSEV66GRNA0VXI	SEC_SUCCCONTEXTREQTOPSGSN_G	NUMBER	[Security] SEC_SuccContextRequestToPsgsn_G
W2VRQQXKMP2AHU25J035YHSYSY	SEC_ATTCTXTREQFROMPSGSN_G	NUMBER	[Security] SEC_AttContextRequestFromPsgsn_G

8.2.18.15 ERI_SGSN_MSSECUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[Security] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
TOTNXGFGB4CFJSWRKO4RQQEGNV	SEC_ATTCONTEXTREQUESTTOPSGSN_U	NUMBER	[Security] SEC_AttContextRequestToPsgsn_U
S64YPCO42DBNOSGYNDAVS5BNB3	SEC_SUCCCONTEXTREQTOPSGSN_U	NUMBER	[Security] SEC_SuccContextRequestToPsgsn_U
S4BA6KX4SU2AHBFBJ035XKCTSI	SEC_ATTSECMODE	NUMBER	[Security] SEC_AttSecMode
S4BA6L04SU2AHBFBJ035XKCTSI	SEC_SUCCSECMODE	NUMBER	[Security] SEC_SuccSecMode
W2VRQR0KMP2AHU25J035YHSYSY	SEC_ATTCTXTREQFROMPSGSN_U	NUMBER	[Security] SEC_AttContextRequestFromPsgsn_U
WVKFGHV6PJBK2BTO0UFWU15WAQ	ATTAUTHPROCSSGSNSIM	NUMBER	[Security] SEC_AttAuthProcsSgsnSim_U
X6LS2QGUMUC4BS0KIR4RI4A1X1	SUCCAUTHPROCSSGSNSIM	NUMBER	[Security] SEC_SuccAuthProcsSgsnSim_U
VAVXPEQKYPCIDTJQW5TVS6MNYY	ATTAUTHPROCSSGSNUSIM	NUMBER	[Security] SEC_AttAuthProcsSgsnUsim_U
YK0NTIL2P6B5XBFHHP4CRICTUJ	SUCCAUTHPROCSSGSNUSIM	NUMBER	[Security] SEC_SuccAuthProcsSgsnUsim_U
TKYNAKK6L3BE5CSDWYOLB1NVRQ	ATTIDENTITYREQIMSI	NUMBER	[Security] SEC_AttIdentityReqImsi_U
SAAY4UT4S1BH4RBQ1B6AFX5WGY	SUCCIDENTITYREQIMSI	NUMBER	[Security] SEC_SuccIdentityReqImsi_U
UGEJ1O61FHCYCSELCGLETIN3Q3	RECPOAUTHFAILSGSN	NUMBER	[Security] SEC_RecPOAuthFailSgsn_U

8.2.18.16 ERI_SGSN_PERFMON_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[Performance_Monitoring] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

| YAPVLEKIIYBEPEQUYGY5UKTCXC | PMREADINGSPERHOUR | FLOAT | [Performance_Monitoring] pmReadingsPerHour |
| SGPGYK3NV2BIEEM0A1BBWS5JKY | PMREADINGSPEROCCASION | FLOAT | [Performance_Monitoring] pmReadingsPerOccasion |

8.2.18.17 ERI_SGSN_QOS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[QoS] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
UTW3IS5SH6CYXBBGOYFD3C2SLF	DLSTREAMINGPKTDISCARDED	NUMBER	[QoS] QoS_DLStreamingPktDiscarded_G
ULRM46NKOSCPVDNSIR5R0IG3T5	DLSTREAMINGPKTFORWARDED	NUMBER	[QoS] QoS_DLStreamingPktForwarded_G
YYOBI1VPD3CJUDBFDFFVUYJHBM	DLINTERACTIVEPKTDISCARDED	NUMBER	[QoS] QoS_DLInteractivePktDiscarded_G
SY6ILL6I56CUIETDHN1CRE0EKI	DLINTERACTIVEPKTFORWARDED	NUMBER	[QoS] QoS_DLInteractivePktForwarded_G
XTPITCPV5MCQXB4RXRUM6TSOBJ	DLBACKGROUNDPKTDISCARDED	NUMBER	[QoS] QoS_DLBackgroundPktDiscarded_G
SEUFBOANXGCBKBEJYHX2WEBXKB	DLBACKGROUNDPKTFORWARDED	NUMBER	[QoS] QoS_DLBackgroundPktForwarded_G
SLUNR2DUBEC4WRN4LXFHTYCG1S	CURRENTGUARANTEEDBITRATE	FLOAT	[QoS] QoS_CurrentGuaranteedBitRate_G
TP4KJPPWQTCCWUAIHRU1645WAI	ULSTREAMINGPKTFORWARDED	NUMBER	[QoS] QoS_ULStreamingPktForwarded
SACCUWUQN2CAWTDTWYYGOCH11H	ULINTERACTIVEPKTFORWARDED	NUMBER	[QoS] QoS_ULInteractivePktForwarded
RCWAEAD53UCFRS00BV03AJLYHA	ULBACKGROUNDPKTFORWARDED	NUMBER	[QoS] QoS_ULBackgroundPktForwarded
S4BA6I64SU2AHBFBJ035XKCTSI	QOS_ATTACTCONVERSEPDPCONTEXT_G	NUMBER	[QoS] QoS_AttActConversationalPdpContext_G
S4BA6ID4SU2AHBFBJ035XKCTSI	QOS_DLCONVERSATIONPKTDISCARD_G	NUMBER	[QoS] QoS_DLConversationalPktDiscarded_G
S4BA6IH4SU2AHBFBJ035XKCTSI	QOS_DLCONVERSATIONPKTFORWARD_G	NUMBER	[QoS] QoS_DLConversationalPktForwarded_G
S4BA6IL4SU2AHBFBJ035XKCTSI	QOS_GUARANTEEDBITRATEATTEMPT_G	NUMBER	[QoS] QoS_GuaranteedBitRateAttempts_G
S4BA6IP4SU2AHBFBJ035XKCTSI	QOS_GUARANTEEBITRATEDWNGRADE_G	NUMBER	[QoS] QoS_GuaranteedBitRateDowngrades_G
S4BA6IT4SU2AHBFBJ035XKCTSI	QOS_NBRACTCONVERSEPDPCONTEXT_G	NUMBER	[QoS] QoS_NbrActConversationalPdpContext_G

S4BA6IX4SU2AHBFBJ035XKCTSI	QOS_ULCONVERSATIONALPKTFORWARD	NUMBER	[QoS] QoS_ULConversationalPktForwarded
S4BA6J04SU2AHBFBJ035XKCTSI	QOS_ATTACTSTREAMPDPCONTEXT_G	NUMBER	[QoS] QoS_AttActStreamingPdpContext_G
S4BA6J44SU2AHBFBJ035XKCTSI	QOS_ATTACTINTERACTPDPCONTEXT_G	NUMBER	[QoS] QoS_AttActInteractivePdpContext_G
S4BA6JB4SU2AHBFBJ035XKCTSI	QOS_NBRACTSTREAMPDPCONTEXT_G	NUMBER	[QoS] QoS_NbrActStreamingPdpContext_G
S4BA6JF4SU2AHBFBJ035XKCTSI	QOS_NBRACTINTERACTPDPCONTEXT_G	NUMBER	[QoS] QoS_NbrActInteractivePdpContext_G

8.2.18.18 ERI_SGSN_QOSUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[QoS] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XE5K031OXTBL1UXXCVRN6NN04P	CURRENTGUARANTEEDBITRATE	FLOAT	[QoS] QoS_CurrentGuaranteedBitRate_U
S4BA6IB4SU2AHBFBJ035XKCTSI	QOS_ATTACTCONVERSEPDPCONTEXT_U	NUMBER	[QoS] QoS_AttActConversationalPdpContext_U
S4BA6IF4SU2AHBFBJ035XKCTSI	QOS_DLCONVERSATIONPKTDISCARD_U	NUMBER	[QoS] QoS_DLConversationalPktDiscarded_U
S4BA6IJ4SU2AHBFBJ035XKCTSI	QOS_DLCONVERSATIONPKTFORWARD_U	NUMBER	[QoS] QoS_DLConversationalPktForwarded_U
S4BA6IN4SU2AHBFBJ035XKCTSI	QOS_GUARANTEEDBITRATEATTEMPT_U	NUMBER	[QoS] QoS_GuaranteedBitRateAttempts_U
S4BA6IR4SU2AHBFBJ035XKCTSI	QOS_GUARANTEEBITRATEDWNGRADE_U	NUMBER	[QoS] QoS_GuaranteedBitRateDowngrades_U
S4BA6IV4SU2AHBFBJ035XKCTSI	QOS_NBRACTCONVERSEPDPCONTEXT_U	NUMBER	[QoS] QoS_NbrActConversationalPdpContext_U
S4BA6J24SU2AHBFBJ035XKCTSI	QOS_ATTACTSTREAMPDPCONTEXT_U	NUMBER	[QoS] QoS_AttActStreamingPdpContext_U
S4BA6J64SU2AHBFBJ035XKCTSI	QOS_ATTACTINTERACTPDPCONTEXT_U	NUMBER	[QoS] QoS_AttActInteractivePdpContext_U
S4BA6JD4SU2AHBFBJ035XKCTSI	QOS_NBRACTSTREAMPDPCONTEXT_U	NUMBER	[QoS] QoS_NbrActStreamingPdpContext_U
S4BA6JH4SU2AHBFBJ035XKCTSI	QOS_NBRACTINTERACTPDPCONTEXT_U	NUMBER	[QoS] QoS_NbrActInteractivePdpContext_U
W2VRQQ6KMP2AHU25J035YHSYSY	QOS_BACKGROUNDATTRABASS_U	NUMBER	[QoS] QoS_BackgroundAttRabAss_U
W2VRQQBKMP2AHU25J035YHSYSY	QOS_BACKGROUNDRESENTRABASS_U	NUMBER	[QoS] QoS_BackgroundReSentRabAss_U

W2VRQQDKMP2AHU25J035YHSYSY	QOS_BACKGROUNDSUCCRABASS_U	NUMBER	[QoS] QoS_BackgroundSuccRabAss_U
W2VRQQFKMP2AHU25J035YHSYSY	QOS_CONVERSATIONALATTRABASS_U	NUMBER	[QoS] QoS_ConversationalAttRabAss_U
W2VRQQHKMP2AHU25J035YHSYSY	QOS_CONVERSATIONALRESTRABASS_U	NUMBER	[QoS] QoS_ConversationalReSentRabAss_U
W2VRQQJKMP2AHU25J035YHSYSY	QOS_CONVERSATIONALSUCCRABASS_U	NUMBER	[QoS] QoS_ConversationalSuccRabAss_U
W2VRQQLKMP2AHU25J035YHSYSY	QOS_INTERACTIVEATTRABASS_U	NUMBER	[QoS] QoS_InteractiveAttRabAss_U
W2VRQQNKMP2AHU25J035YHSYSY	QOS_INTERACTIVERESENTRABASS_U	NUMBER	[QoS] QoS_InteractiveReSentRabAss_U
W2VRQQPKMP2AHU25J035YHSYSY	QOS_INTERACTIVESUCCRABASS_U	NUMBER	[QoS] QoS_InteractiveSuccRabAss_U
W2VRQQRKMP2AHU25J035YHSYSY	QOS_STREAMINGATTRABASS_U	NUMBER	[QoS] QoS_StreamingAttRabAss_U
W2VRQQTKMP2AHU25J035YHSYSY	QOS_STREAMINGRESENTRABASS_U	NUMBER	[QoS] QoS_StreamingReSentRabAss_U
W2VRQQVKMP2AHU25J035YHSYSY	QOS_STREAMINGSUCCRABASS_U	NUMBER	[QoS] QoS_StreamingSuccRabAss_U
XMGCPOPNRABJXSM5RIDA2WYGPO	DLSTREAMINGPKTDISCARDED	NUMBER	[QoS] QoS_DLStreamingPktDiscarded_U
V2P5FOBJ5CBDDELVPY0CX2MVBS	DLSTREAMINGPKTFORWARDED	NUMBER	[QoS] QoS_DLStreamingPktForwarded_U
XQI52QDJU0BW0TVMTYHQTP5H10	DLINTERACTIVEPKTDISCARDED	NUMBER	[QoS] QoS_DLInteractivePktDiscarded_U
URYP3IGCRMC0VS6QO3GBPLU3VV	DLINTERACTIVEPKTFORWARDED	NUMBER	[QoS] QoS_DLInteractivePktForwarded_U
XKBQY3PPCOBKDT3I6ADYIAU0PD	DLBACKGROUNDPKTDISCARDED	NUMBER	[QoS] QoS_DLBackgroundPktDiscarded_U
VGEFHQAFI3BN4RHDPWFB6WYINQ	DLBACKGROUNDPKTFORWARDED	NUMBER	[QoS] QoS_DLBackgroundPktForwarded_U

8.2.18.19 ERI_SGSN_S7STK_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[SS7_nonindexed] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQRJKMP2AHU25J035YHSYSY	SS7MSGDISCARDEDOPCSCREENING	NUMBER	[SS7_nonindexed] ss7MessageDiscardedOPCScreening
S4BA6FT4SU2AHBFBJ035XKCTSI	SS7ASSOCUNAVLFORUP	NUMBER	[SS7_nonindexed] ss7AssocUnavlForUP

S4BA6FV4SU2AHBFBJ035XKCTSI	SS7ASSOCAVLFORUP	NUMBER	[SS7_nonindexed] ss7AssocAvlForUP
S4BA6MF4SU2AHBFBJ035XKCTSI	SS7MSUDISCARDERROR	NUMBER	[SS7_nonindexed] ss7MSUDiscardError
S4BA6MH4SU2AHBFBJ035XKCTSI	SS7SPINACCESS	NUMBER	[SS7_nonindexed] ss7SPInaccess
S4BA6ML4SU2AHBFBJ035XKCTSI	SS7PROTOCOLERRORCOMP	NUMBER	[SS7_nonindexed] ss7ProtocolErrorComp
S4BA6MN4SU2AHBFBJ035XKCTSI	SS7PROTOCOLERRORTRAA	NUMBER	[SS7_nonindexed] ss7ProtocolErrorTraA
S4BA6MP4SU2AHBFBJ035XKCTSI	SS7PROTOCOLERRORTRAD	NUMBER	[SS7_nonindexed] ss7ProtocolErrorTraD
S4BA6MR4SU2AHBFBJ035XKCTSI	SS7TCMESSAGERECEIVE	NUMBER	[SS7_nonindexed] ss7TCMessageReceive
S4BA6MT4SU2AHBFBJ035XKCTSI	SS7TCMESSAGESENT	NUMBER	[SS7_nonindexed] ss7TCMessageSent
S4BA6MV4SU2AHBFBJ035XKCTSI	SS7NOOFRUNDIALTOT	NUMBER	[SS7_nonindexed] ss7NoOfRunDialTot
S4BA6MX4SU2AHBFBJ035XKCTSI	SS7NOOFRUNOPTOT	NUMBER	[SS7_nonindexed] ss7NoOfRunOpTot

8.2.18.20 ERI_SGSN_SESMGMT_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[SM_nonindexed] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YTPJIKQAAFB3ESM1NWAIVIFTRG	ATTACTPDPCONTEXT	NUMBER	[SM_nonindexed] SM_AttActPdpContext_G
TG5UGL2ACFCOBC4I10B36TPQAU	SUCCACTPDPCONTEXT	NUMBER	[SM_nonindexed] SM_SuccActPdpContext_G
RIMA5WQRP4CNBR4XG6DTPEX1GH	ATTACTPDPCONTEXTDYN	NUMBER	[SM_nonindexed] SM_AttActPdpContextDyn_G
UIKBGXNWOTB0QE0MM0RLTIFIAY	SUCCACTPDPCONTEXTDYN	NUMBER	[SM_nonindexed] SM_SuccActPdpContextDyn_G
SF3GACULIGC1ODVL42IBSU2IKL	ATTMODPDPCONTEXTMS	NUMBER	[SM_nonindexed] SM_AttModPdpContextMs_G
R3U2MOIRX4COSUYNNN5USDWSVD	SUCCMODPDPCONTEXTMS	NUMBER	[SM_nonindexed] SM_SuccModPdpContextMs_G
S41GL0NHGTBOQDDAHSMUVSQK6T	TOT_ATTACTPDPCONTEXT	NUMBER	[SM_nonindexed] SM_AttActPdpContext_G
RTRCFRUOJ4C4NCWMVP3UOKB21Q	GPRSSMSGSNUNSUCCACTIVATIONS	NUMBER	[SM_nonindexed] gprsSmSgsnUnsuccessfulActivations

VLRVIBCJSXCTUDPKNII22L1XDP	GPRSSMSGSNUNSUCCMODIFICATIONS	NUMBER	[SM_nonindexed] gprsSmSgsnUnsuccessfulModifications
W6CWKT3TPIBXSTO26PEYM0FND6	GPRSSMSGSNDEACTIVATIONS	NUMBER	[SM_nonindexed] gprsSmSgsnDeactivations
YM06FW1SJMB3VU5P4KX5EUJI15	NBRACTPDPCONTEXT	NUMBER	[SM_nonindexed] SM_NbrActPdpContext_G
SLF3FDNDPKB6XEAKQ31UB4FQ4O	NBRACTIVEPDPPERSGSN	NUMBER	[SM_nonindexed] SM_NbrActivePdpPerSgsn_G
YFWJSM526WCPJDQISMX1BAAL45	UNSUCCACTPDPCONTEXTCC26	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC26_G
U1PIFIKIYYBNMRGSE01N6E6SUT	ATTDEACTPDPCONTEXTMS	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextMs_G
VKUXPPALB6CIWEMGJ6K0RVWWTL	SUCCDEACTPDPCONTEXTMS	NUMBER	[SM_nonindexed] SM_SuccDeactPdpContextMs_G
Y5UCGI42CGBC4D1R1JHXIGEP5R	ATTDEACTPDPCONTEXTGGSN	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextGgsn_G
RNQNDC1F21BA4C51V5TY0NRHGX	SUCCDEACTPDPCONTEXTGGSN	NUMBER	[SM_nonindexed] SM_SuccDeactPdpContextGgsn_G
RSWLPHNGM1BKISAF2CTA4V3VDE	ATTDEACTPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextSgsn_G
Y1IX11HEU6BSPEPHP22F55IAUB	SUCCDEACTPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_SuccDeactPdpContextSgsn_G
R60YDIPEQSBNSDMEXHSKSEXSIV	UNSUCCACTPDPCONTEXTCC27_28	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC27_28_G
SUJPKPUKPUB6QE50WK1WLE4LFT	UNSUCCACTPDPCONTEXTCC29	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC29_G
UCIWEFIPHSBVFRTKG2UUK6P3BG	UNSUCCACTPDPCONTEXTCC32_33	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC32_33_G
URVYYVGMHTC0WSCYE4VU1WYFR0	SUCCMODPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_SuccModPdpContextSgsn_G
SHR62C1IC4CUACTVCD0C6GSYEM	SUCCUPDPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_SuccUpdPdpContextSgsn_G
Y2QEFWW4SWBGURDVPRD05DCIFV	SM_ATTACTPDPCONTEXTSGSNHOME_G	NUMBER	[SM_nonindexed] SM_AttActPdpContextSgsnHome_G
YNF5OPA4IWCKRDKFGDE0PMK413	SM_SUCCACTPDPCONTEXTSGSNHOME_G	NUMBER	[SM_nonindexed] SM_SuccActPdpContextSgsnHome_G
RCAUIGJGRCCQVCH12JKTKONBKJ	SM_ATTDEACTPDPCONTSGSNCC38_G	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextSgsnCC38_G
RDLGBAFW5CC1EUDBH3DF6GKJDR	SM_ATTDEACTPDPCONTSGSNCC39_G	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextSgsnCC39_G
WOX0XRXQGFCQ6T04X5AHHK26K6	SM_ATTMODPDPCONTEXTSGSN_G	NUMBER	[SM_nonindexed] SM_AttModPdpContextSgsn_G
R0PBEGWPACBMFRPXPTSA6ULQ34	SM_ATTRABASSIGNMENT	NUMBER	[SM_nonindexed] SM_AttRabAssignment
YQGNG353UYCDWR2R6GGTEDRXWN	SM_SUCCRABASSIGNMENT	NUMBER	[SM_nonindexed] SM_SuccRabAssignment
W3XGY1SQIBB03URHA3CS34XO4C	SM_ATTUPDPDPCONTEXTSGSN_G	NUMBER	[SM_nonindexed] SM_AttUpdPdpContextSgsn_G

T1WVVDNFLMBRRBKBPO00FYHFUQ	SM_UNSUCCACTPDPCONTEXTCC38_G	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC38_G
S4BA6JX4SU2AHBFBJ035XKCTSI	SM_ATTUPDPDPCONTEXTGGSN_G	NUMBER	[SM_nonindexed] SM_AttUpdPdpContextGgsn_G
S4BA6K64SU2AHBFBJ035XKCTSI	SM_PDPCONTEXTSLOST_G	NUMBER	[SM_nonindexed] SM_PdpContextsLost_G
S4BA6KD4SU2AHBFBJ035XKCTSI	SM_SUCCUPDPDPCONTEXTGGSN_G	NUMBER	[SM_nonindexed] SM_SuccUpdPdpContextGgsn_G
S4BA6KH4SU2AHBFBJ035XKCTSI	DISCARDEDSESSIONMGMNT	NUMBER	[SM_nonindexed] discardedSessionMgmnt
S4BA6KJ4SU2AHBFBJ035XKCTSI	DISCARDEDPAYLOADPACKET	NUMBER	[SM_nonindexed] discardedPayloadPacket
S4BA6KL4SU2AHBFBJ035XKCTSI	SM_ATTACTSECONDPDPCONTEXT_G	NUMBER	[SM_nonindexed] SM_AttActSecondPdpContext_G
S4BA6KT4SU2AHBFBJ035XKCTSI	SM_SUCCACTSECONDPDPCONTEXT_G	NUMBER	[SM_nonindexed] SM_SuccActSecondPdpContext_G
W2VRQR2KMP2AHU25J035YHSYSY	SM_DEACTIVATEDPDPCTXTOLDSGSN_G	NUMBER	[SM_nonindexed] SM_DeactivatedPDPContextOldSgsn_G
W2VRQR6KMP2AHU25J035YHSYSY	SM_NDEACTIVATEPDPCTXTOLDSGSN_G	NUMBER	[SM_nonindexed] SM_NotDeactivatedPDPContextOldSgsn_G
W2VRQRFKMP2AHU25J035YHSYSY	SM_UNSUCCACTPDPCONTEXTCAMEL_G	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCamel_G

8.2.18.21 ERI_SGSN_SESMGMTUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[SM_nonindexed] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
WPL2S5VPNHC0ISQNSM6O5IT1JG	ATTACTPDPCONTEXT	NUMBER	[SM_nonindexed] SM_AttActPdpContext_U
SPX2VW0PDVBD4DPFW5DSMA0PQI	SUCCACTPDPCONTEXT	NUMBER	[SM_nonindexed] SM_SuccActPdpContext_U
YG0O5WVR6HBLJERNVMDKYB0QFW	ATTACTPDPCONTEXTDYN	NUMBER	[SM_nonindexed] SM_AttActPdpContextDyn_U
T5N6VE5UHQC60BI0MD36JGAP4L	SUCCACTPDPCONTEXTDYN	NUMBER	[SM_nonindexed] SM_SuccActPdpContextDyn_U
WS3C60Y52OCANTJK64OL1PS2TW	NBRACTPDPCONTEXT	NUMBER	[SM_nonindexed] SM_NbrActPdpContext_U
VSMTK2HAP1C2VBJJVHKGTCPTLF	ATTDEACTPDPCONTEXTMS	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextMs_U
VVNOREARI0BBMCUAWPKIS52FLG	SUCCDEACTPDPCONTEXTMS	NUMBER	[SM_nonindexed] SM_SuccDeactPdpContextMs_U

SWAL5D5UCVBOXDU20SO5RE51E4	ATTDEACTPDPCONTEXTGGSN	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextGgsn_U
W3UAYC2L55CEYEAD14YC5JRAJI	SUCCDEACTPDPCONTEXTGGSN	NUMBER	[SM_nonindexed] SM_SuccDeactPdpContextGgsn_U
RFKJ00OGL4CLPEFGCR2PSMN6M3	ATTDEACTPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextSgsn_U
RJO1FAQXK5CGVBRFOFDL6ONUPS	NBRACTIVEPDPPERSGSN	NUMBER	[SM_nonindexed] SM_NbrActivePdpPerSgsn_U
W5DLG6U301C5GB51UQENSDF3F3	UNSUCCACTPDPCONTEXTCC26	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC26_U
TOBVNYVH6MCQFUIRYBNDYYPRAW	UNSUCCACTPDPCONTEXTCC27_28	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC27_28_U
WSDJAAI1MPCUXE40YT2RMOHWIJ	UNSUCCACTPDPCONTEXTCC29	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC29_U
R3E6CTIFPKCT2TPBCXAEVL2CLB	UNSUCCACTPDPCONTEXTCC32_33	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC32_33_U
XF66IBANJLBAFR5RD335JQY101	SUCCDEACTPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_SuccDeactPdpContextSgsn_U
THBOLKG1VFCNWUBQSQWH52EVSY	ATTUPDPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_AttUpdPdpContextSgsn_U
R5W0PTHEYYCRWRWI3P3CVDKYVX	SUCCUPDPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_SuccUpdPdpContextSgsn_U
S346V1OA6DCJFUIW216GPVR5MT	ATTMODPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_AttModPdpContextSgsn_U
X4LHAAN133BF4RLCAYHR4163OL	SUCCMODPDPCONTEXTSGSN	NUMBER	[SM_nonindexed] SM_SuccModPdpContextSgsn_U
SFRJM1TYOECD6R4UJ3UWB2I0DV	SM_ATTACTPDPCONTEXTSGSNHOME_U	NUMBER	[SM_nonindexed] SM_AttActPdpContextSgsnHome_U
VJFLESRJGQBKYT2KBQ0RE6WCXD	SM_SUCCACTPDPCONTEXTSGSNHOME_U	NUMBER	[SM_nonindexed] SM_SuccActPdpContextSgsnHome_U
TMRW3TDGJLBTCS2LHA1KM0HWKO	SM_ATTDEACTPDPCONTSGSNCC38_U	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextSgsnCC38_U
S01EXV0YYHCLTUMJHILP50F01U	SM_ATTDEACTPDPCONTSGSNCC39_U	NUMBER	[SM_nonindexed] SM_AttDeactPdpContextSgsnCC39_U
TJKQ4H20PTB63DC523FAHVX2KD	SM_ATTMODPDPCONTEXTMS_U	NUMBER	[SM_nonindexed] SM_AttModPdpContextMs_U
UESUHTE00PCXKROT3X2JPAYWKL	SM_SUCCMODPDPCONTEXTMS_U	NUMBER	[SM_nonindexed] SM_SuccModPdpContextMs_U
SQJ56G6G4UBDMCQLUEGTWTL4XB	SM_UNSUCCACTPDPCONTEXTCC38_U	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCC38_U
XQVSAPFP1FCIUC11SGVFCXFSMO	TOT_SUCCACTPDPCONTEXT	NUMBER	[SM_nonindexed] SM_SuccActPdpContext_U
S4BA6JJ4SU2AHBFBJ035XKCTSI	SM_ATTRABMODPS	NUMBER	[SM_nonindexed] SM_AttRabModPS
S4BA6K24SU2AHBFBJ035XKCTSI	SM_ATTUPDPDPCONTEXTGGSN_U	NUMBER	[SM_nonindexed] SM_AttUpdPdpContextGgsn_U
S4BA6KB4SU2AHBFBJ035XKCTSI	SM_PDPCONTEXTSLOST_U	NUMBER	[SM_nonindexed] SM_PdpContextsLost_U

S4BA6KF4SU2AHBFBJ035XKCTSI	SM_SUCCUPDPDPCONTEXTGGSN_U	NUMBER	[SM_nonindexed] SM_SuccUpdPdpContextGgsn_U
S4BA6KP4SU2AHBFBJ035XKCTSI	SM_ATTACTSECONDPDPCONTEXT_U	NUMBER	[SM_nonindexed] SM_AttActSecondPdpContext_U
S4BA6KV4SU2AHBFBJ035XKCTSI	SM_SUCCACTSECONDPDPCONTEXT_U	NUMBER	[SM_nonindexed] SM_SuccActSecondPdpContext_U
W2VRQR4KMP2AHU25J035YHSYSY	SM_DEACTIVATEDPDPCTXTOLDSGSN_U	NUMBER	[SM_nonindexed] SM_DeactivatedPDPContextOldSgsn_U
W2VRQRBKMP2AHU25J035YHSYSY	SM_NDEACTIVATEPDPCTXTOLDSGSN_U	NUMBER	[SM_nonindexed] SM_NotDeactivatedPDPContextOldSgsn_U
W2VRQRDKMP2AHU25J035YHSYSY	SM_UNSUCCACTPDPCONTEXT_U	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContext_U
W2VRQRHKMP2AHU25J035YHSYSY	SM_UNSUCCACTPDPCONTEXTCAMEL_U	NUMBER	[SM_nonindexed] SM_UnsuccActPdpContextCamel_U

8.2.18.22 ERI_SGSN_SHORTMSG_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[SMS] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
RUOT1006MPBK5DNQMXWQP4WGTT	ATTMOPS	NUMBER	[SMS] SMS_AttMoPS_G
W2YLKLQ3O3BQRUG20JBSNTQYAM	SUCCMOPS	NUMBER	[SMS] SMS_SuccMoPS_G
VOU1C01TBKCOWREQ25QALPRF22	ATTMTPS	NUMBER	[SMS] SMS_AttMtPS_G
RYK21JT1QXC3YEQ525BRDCKRJT	SUCCMTPS	NUMBER	[SMS] SMS_SuccMtPS_G

8.2.18.23 ERI_SGSN_SHORTMSGUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[SMS] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	

W230HHLJG1BQSSBSIXGB66CLJ4	ATTMOPS	NUMBER	[SMS] SMS_AttMoPS_U
SIE05WINIJBJTCOKFV0P526M6B	SUCCMOPS	NUMBER	[SMS] SMS_SuccMoPS_U
YQFP4QASLTBOQSTP56SV4N3X6D	ATTMTPS	NUMBER	[SMS] SMS_AttMtPS_U
WB4WDNHV0CC0IE2AOQ1R5DJ62V	SUCCMTPS	NUMBER	[SMS] SMS_SuccMtPS_U

8.2.18.24 ERI_SGSN_SNDCP_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[SNDCP] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
YNDOF3LDAYCXJRNUHOV6FRKHLR	UPLINKSNDCPNPDURECEIVED	NUMBER	[SNDCP] uplinkSndcpNpduReceived
YGNUIITMXLBTLC1LNXUVTWS425	UPLINKSNDCPOCTETRECEIVEDMODE	NUMBER	[SNDCP] uplinkSndcpOctetReceivedMode
VCXY2E4PPAB1AU6LGDVJUN0Q61	DOWNLINKSNDCPNPDUSENT	NUMBER	[SNDCP] downlinkSndcpNpduSent
RTQIYMO0PHBABUK5KYSYWQDNKH	DOWNLINKSNDCPOCTETSENT	NUMBER	[SNDCP] downlinkSndcpOctetSent

8.2.18.25 ERI_SGSN_WCDGSMINTESCHG_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SGSN_ID		VARCHAR2(50)	[ISYSC] Node_Id
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
XHSQNQ5DJ3BGCDH21CNJYTPPAR	ISYSC_ATTINTRASGSNGSMUMTSRAU	NUMBER	[ISYSC] ISYSC_AttIntraSgsnGsmUmtsRau
RY3WOTLMX1CPQCFRJENXTD3K1P	ISYSC_ATTINTRASGSNUMTSGSMRAU	NUMBER	[ISYSC] ISYSC_AttIntraSgsnUmtsGsmRau
RX5FLUE0WHBRTSMOBTVCSUVD5Q	ISYSC_SUCCINTRASGSNGSMUMTSRAU	NUMBER	[ISYSC] ISYSC_SuccIntraSgsnGsmUmtsRau

W4YHUJD6MPBM2TXGJSVTBOSXXF	ISYSC_SUCCINTRASGSNUMTSGSMRAU	NUMBER	[ISYSC] ISYSC_SuccIntraSgsnUmtsGsmRau

8.2.19 Raw Signalling_Association Tables

8.2.19.1   ERI_SIGASSOC_M3UA_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SIGNALLING_ASSOCIATION_ID		VARCHAR2(50)	[M3UA] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
W2VRQMTKMP2AHU25J035YHSYSY	SS7MSGRECEIVEDPERASSOCIATION	NUMBER	[M3UA] ss7MessageReceivedPerAssociation
W2VRQMVKMP2AHU25J035YHSYSY	SS7OCTRECEIVEDPERASSOCIATION	NUMBER	[M3UA] ss7OctetsReceivedPerAssociation
W2VRQMXKMP2AHU25J035YHSYSY	SS7OCTETSSENTPERASSOCIATION	NUMBER	[M3UA] ss7OctetsSentPerAssociation
S4BA6FX4SU2AHBFBJ035XKCTSI	SS7MESSAGESENTPERASSOCIATION	NUMBER	[M3UA] ss7MessageSentPerAssociation

8.2.20 Raw Signalling_Point Tables

8.2.20.1   ERI_SS7POINT_S7STK_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SS7_POINT_ID		VARCHAR2(50)	[SS7_Index] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6M44SU2AHBFBJ035XKCTSI	SS7MESSAGEORIGUDT	NUMBER	[SS7_Index] ss7MessageOrigUDT
S4BA6M64SU2AHBFBJ035XKCTSI	SS7MESSAGEORIGXUDT	NUMBER	[SS7_Index] ss7MessageOrigXUDT
S4BA6MB4SU2AHBFBJ035XKCTSI	SS7MESSAGETERMUDT	NUMBER	[SS7_Index] ss7MessageTermUDT
S4BA6MD4SU2AHBFBJ035XKCTSI	SS7MESSAGETERMXUDT	NUMBER	[SS7_Index] ss7MessageTermXUDT

| S4BA6MJ4SU2AHBFBJ035XKCTSI | SS7NOOFINCSEGMES | NUMBER | [SS7_Index] ss7NoOfIncSegMes |

8.2.20.2   ERI_SS7POINT_S7STKUMTS_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SS7_POINT_ID		VARCHAR2(50)	[SS7_Index] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S4BA6N04SU2AHBFBJ035XKCTSI	SS7MESSAGEORIGCR	NUMBER	[SS7_Index] ss7MessageOrigCR
S4BA6N24SU2AHBFBJ035XKCTSI	SS7MESSAGEORIGDT1	NUMBER	[SS7_Index] ss7MessageOrigDT1
S4BA6N44SU2AHBFBJ035XKCTSI	SS7MESSAGEORIGRLSD	NUMBER	[SS7_Index] ss7MessageOrigRLSD
S4BA6N64SU2AHBFBJ035XKCTSI	SS7MESSAGETERMCR	NUMBER	[SS7_Index] ss7MessageTermCR
S4BA6NB4SU2AHBFBJ035XKCTSI	SS7MESSAGETERMDT1	NUMBER	[SS7_Index] ss7MessageTermDT1
S4BA6ND4SU2AHBFBJ035XKCTSI	SS7MESSAGETERMRLSD	NUMBER	[SS7_Index] ss7MessageTermRLSD
S4BA6NF4SU2AHBFBJ035XKCTSI	SS7NOOFCURRRUNCONNTOT	NUMBER	[SS7_Index] ss7NoOfCurrRunConnTot

8.2.21 Raw Subsystem Tables

8.2.21.1   ERI_SUBSYSTEM_TCAP_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
SUBSYSTEM_ID		VARCHAR2(50)	[Ssn] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
S0VPYMOIB6CK2DJGP3VKKVVTKW	SS7NOOFRUNDIALPERSSN	NUMBER	[Ssn] ss7NoOfRunDialPerSsn
UWJCSOPFD4CAVS0V6NX0V41LXP	SS7NOOFRUNOPPERSSN	NUMBER	[Ssn] ss7NoOfRunOpPerSsn

8.2.22 Raw Tunnel_Association Tables

8.2.22.1   ERI_TUNASSOC_GRETA_TAB

Column Name	Column Alias	Data Type	Loader Block/Mapping
TUNNEL_ASSOCIATION_ID		VARCHAR2(50)	[GRE_TA] Node_Id & "/" & moid
TSTAMP		DATE	
INSTANCE_ID		NUMBER	
SL36UHUHPQCX2UF6STIFVTRAJG	GRETAPACKETSOK	NUMBER	[GRE_TA] greTaPacketsOk
S04MFHF6MWCERBIO3KNIIY6B0H	GRETAPACKETSNOTOK	NUMBER	[GRE_TA] greTaPacketsNotOk
RASSVMAD2CB5RS5GXE4E1F1XWF	GRETACURRENTBYTES	NUMBER	[GRE_TA] greTaCurrentBytes

9   Performance Alarms

This section shows details of the performance alarms that are defined in this technology pack module:

None.

10 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.

10.1 BSS GPRS Protocol Measurements Report

BSS GPRS Protocol Measurements Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.NSVC
Primary Object	NSVC
BSSGP	NSVC.NSVC_Id, NSVC.SGSN_Id, NSVC.Ericsson.BSSGP.Total_BSSGP_Octets, NSVC.Ericsson.BSSGP.Total_BSSGP_Packets, NSVC.Ericsson.BSSGP.Total_BSSGP_Signalling_Packets
Downlink	NSVC.NSVC_Id, NSVC.SGSN_Id, NSVC.Ericsson.BSSGP.bssgpDownlinkOctets, NSVC.Ericsson.BSSGP.bssgpDownlinkPackets, NSVC.Ericsson.BSSGP.bssgpDownlinkPacketsSignalling
Uplink	NSVC.NSVC_Id, NSVC.SGSN_Id, NSVC.Ericsson.BSSGP.bssgpUplinkOctets, NSVC.Ericsson.BSSGP.bssgpUplinkPackets, NSVC.Ericsson.BSSGP.bssgpUplinkPacketsSignalling

10.2 GPRS CAMEL Report

GPRS CAMEL Report

Report Feature	Details

Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
CAMEL Dialogue	SGSN.SGSN_Id, SGSN.Ericsson.CAMEL.AttCamelDialogues, SGSN.Ericsson.CAMEL.FailDialoguesScf, SGSN.Ericsson.CAMEL.FailDialoguesSsf

10.3 GPRS GTP Report

GPRS GTP Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
GTP	SGSN.SGSN_Id, SGSN.Ericsson.GTP_payload.InDataOctGn, SGSN.Ericsson.GTP_payload.InDataPktGn, SGSN.Ericsson.GTP_payload.OutDataOctGn, SGSN.Ericsson.GTP_payload.OutDataPktGn, SGSN.Ericsson.GTP_payload.PayloadgtpuErrorPkt, SGSN.Ericsson.GTP_payload.Tot_DataOctGn, SGSN.Ericsson.GTP_payload.Tot_DataPktGn

10.4 GPRS Mobility Management Attach Procedures

GPRS Mobility Management Attach Procedures Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN

Attach Procedures	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management._%_succCombiAttach (DA), SGSN.Ericsson.Mobility_Management._%_succGprsAttach (DA), SGSN.Ericsson.Mobility_Management._%_succImsiAttach (DA), SGSN.Ericsson.Mobility_Management.AttCombiAttach (DA), SGSN.Ericsson.Mobility_Management.AttGprsAttach (DA), SGSN.Ericsson.Mobility_Management.AttImsiAttach (DA), SGSN.Ericsson.Mobility_Management.SuccCombiAttach (DA), SGSN.Ericsson.Mobility_Management.SuccGprsAttach (DA), SGSN.Ericsson.Mobility_Management.SuccImsiAttach (DA), SGSN.Ericsson.Mobility_Management.Total_UnsuccAttach (DA)
Detach Procedures	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management._%_succGprsDetachSgsn (DA), SGSN.Ericsson.Mobility_Management.AttCombiDetachMs (DA), SGSN.Ericsson.Mobility_Management.AttGprsDetachMs (DA), SGSN.Ericsson.Mobility_Management.AttDetachInactiveSub (DA), SGSN.Ericsson.Mobility_Management.AttGprsDetachSgsn (DA), SGSN.Ericsson.Mobility_Management.SuccGprsDetachSgsn (DA), SGSN.Ericsson.Mobility_Management.attImsiDetachMS (DA)

10.5 GPRS Mobility Management Discarded Requests

GPRS Mobility Management Discarded Requests Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Discarded Requests	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management.discardedCombiAttach (DA), SGSN.Ericsson.Mobility_Management.discardedCombiRaUpdate (DA), SGSN.Ericsson.Mobility_Management.discardedDetach (DA), SGSN.Ericsson.Mobility_Management.discardedGprsAttach (DA), SGSN.Ericsson.Mobility_Management.discardedRaUpdate (DA)

10.6 GPRS Mobility Management Paging Procedures

GPRS Mobility Management Paging Procedures Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN

Primary Object	SGSN
Paging Procedures	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management.gprsMmSgsnPagingProcedures (DA), SGSN.Ericsson.Mobility_Management.gprsMmSgsnSuccessfulPagingProcedures (DA), SGSN.Ericsson.Mobility_Management.unsuccPacketSwitchingPaging (DA), SGSN.Ericsson.Mobility_Management.AttPacketSwitchingPaging (DA)

10.7 GPRS Mobility Management RA Update Report

GPRS Mobility Management RA Update Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Routing Area Update Failure	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management.MM_UnsuccInterSgsnRauCC14_G (DA), SGSN.Ericsson.Mobility_Management.MM_UnsuccInterSgsnRauCC17_G (DA), SGSN.Ericsson.Mobility_Management.MM_UnsuccInterSgsnRauCC9_G (DA), SGSN.Ericsson.Mobility_Management.MM_UnsuccIntraSgsnRauCC14_G (DA), SGSN.Ericsson.Mobility_Management.MM_UnsuccIntraSgsnRauCC17_G (DA)
Routing Area Update Procedures	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management._%_succInterSgsnRaUpdate (DA), SGSN.Ericsson.Mobility_Management._%_succIntraSgsnRaUpdate (DA), SGSN.Ericsson.Mobility_Management.AttIntraSgsnRaUpdate (DA), SGSN.Ericsson.Mobility_Management.SuccIntraSgsnRaUpdate (DA), SGSN.Ericsson.Mobility_Management.attInterSgsnRaUpdate (DA), SGSN.Ericsson.Mobility_Management.succInterSgsnRaUpdate (DA)

10.8 GPRS Mobility Management Subscribers Report

GPRS Mobility Management Subscribers Report

Report Feature	Details
Report Tree	System.UMTS.Engineering.SGSN.Ericsson.SGSN

Branch	
Primary Object	SGSN
Subscribers	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management._%_NbrHomeSub (DA), SGSN.Ericsson.Mobility_Management._%_NbrVisitingForeign (DA), SGSN.Ericsson.Mobility_Management._%_NbrVisitingNatSub (DA), SGSN.Ericsson.Mobility_Management.NbrActAttachedSub (DA), SGSN.Ericsson.Mobility_Management.NbrHomeSub (DA), SGSN.Ericsson.Mobility_Management.MM_NbrCamelSub_G (DA), SGSN.Ericsson.Mobility_Management.NbrVisitingForeign (DA), SGSN.Ericsson.Mobility_Management.NbrVisitingNatSub (DA), SGSN.Ericsson.Mobility_Management.nbrDetachedInactiveSub (DA), SGSN.Ericsson.Mobility_Management.nbrOfSubReady (DA), SGSN.Ericsson.Mobility_Management.nbrOfSubStandby (DA), SGSN.Ericsson.Mobility_Management.subscribersInTransitionalState (DA)

10.9 GPRS MS Security Report

GPRS MS Security

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
MS Security	SGSN.SGSN_Id, SGSN.Ericsson.MS_Security._%_SuccAuthProcsSgsnSim, SGSN.Ericsson.MS_Security._%_SuccAuthProcsSgsnUsim, SGSN.Ericsson.MS_Security._%_SuccIdentityReqImsi, SGSN.Ericsson.MS_Security._%_succAuthInSgsn, SGSN.Ericsson.MS_Security.AttAuthProcsSgsnSim, SGSN.Ericsson.MS_Security.AttAuthProcsSgsnUsim, SGSN.Ericsson.MS_Security.AttIdentityReqImsi, SGSN.Ericsson.MS_Security.SuccAuthProcsSgsnSim, SGSN.Ericsson.MS_Security.SuccAuthProcsSgsnUsim, SGSN.Ericsson.MS_Security.SuccIdentityReqImsi, SGSN.Ericsson.MS_Security.attAuthInSgsn

10.10 GPRS PDP Context Activations Report

GPRS PDP Context Activations Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
%PDP Context Activations Success	SGSN.SGSN_Id, SGSN.Ericsson.Session_management._%_SM_SuccActPdpContextSgsnHome_G (DA), SGSN.Ericsson.Session_management._%_SuccActPdpContext (DA), SGSN.Ericsson.Session_management._%_SuccActPdpContextDyn (DA), SGSN.Ericsson.Session_management._%_SM_SuccActSecondPdpContext_G (DA)
PDP Context Activations	SGSN.SGSN_Id, SGSN.Ericsson.Session_management.SM_AttActPdpContextSgsnHome_G (DA), SGSN.Ericsson.Session_management.SM_SuccActPdpContextSgsnHome_G (DA), SGSN.Ericsson.Session_management.AttActPdpContext (DA), SGSN.Ericsson.Session_management.SuccActPdpContext (DA), SGSN.Ericsson.Session_management.AttActPdpContextDyn (DA), SGSN.Ericsson.Session_management.SuccActPdpContextDyn (DA), SGSN.Ericsson.Session_management.SM_AttActSecondPdpContext_G (DA), SGSN.Ericsson.Session_management.SM_SuccActSecondPdpContext_G (DA), SGSN.Ericsson.Session_management.gprsSmSgsnUnsuccessfulActivations (DA), SGSN.Ericsson.Session_management.NbrActPdpContext (DA), SGSN.Ericsson.Session_management.NbrActivePdpPerSgsn (DA)

10.11 GPRS PDP Context Deactivations Report

GPRS PDP Context Deactivations Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
PDP Context Deactivations	SGSN.SGSN_Id, SGSN.Ericsson.Session_management._%_SuccDeactPdpContextGgsn (DA), SGSN.Ericsson.Session_management._%_SuccDeactPdpContextMs (DA), SGSN.Ericsson.Session_management._%_SuccDeactPdpContextSgsn (DA), SGSN.Ericsson.Session_management.AttDeactPdpContextGgsn (DA), SGSN.Ericsson.Session_management.AttDeactPdpContextMs (DA), SGSN.Ericsson.Session_management.AttDeactPdpContextSgsn (DA), SGSN.Ericsson.Session_management.SuccDeactPdpContextGgsn (DA), SGSN.Ericsson.Session_management.SuccDeactPdpContextMs (DA), SGSN.Ericsson.Session_management.SuccDeactPdpContextSgsn (DA), SGSN.Ericsson.Session_management.gprsSmSgsnDeactivations (DA)

10.12 GPRS PDP Context Modifications Report

GPRS PDP Context Modifications Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
PDP Context Modifications	SGSN.SGSN_Id, SGSN.Ericsson.Session_management._%_SuccModPdpContextMs (DA), SGSN.Ericsson.Session_management._%_SuccModPdpContextSgsn (DA), SGSN.Ericsson.Session_management.AttModPdpContextMs (DA), SGSN.Ericsson.Session_management.SM_AttModPdpContextSgsn_G (DA), SGSN.Ericsson.Session_management.SuccModPdpContextMs (DA), SGSN.Ericsson.Session_management.SuccModPdpContextSgsn (DA), SGSN.Ericsson.Session_management.gprsSmSgsnUnsuccessfulModifications (DA)

10.13 GPRS PDP Context Updates Report

GPRS PDP Context Updates Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
PDP Context Updates	SGSN.SGSN_Id, SGSN.Ericsson.Session_management.SM_AttUpdPdpContextSgsn_G (DA), SGSN.Ericsson.Session_management.SuccUpdPdpContextSgsn (DA), SGSN.Ericsson.Session_management._%_SuccUpdPdpContextSgsn (DA), SGSN.Ericsson.Session_management.SM_AttUpdPdpContextGgsn_G (DA), SGSN.Ericsson.Session_management.SM_SuccUpdPdpContextGgsn_G (DA), SGSN.Ericsson.Session_management._%_SM_SuccUpdPdpContextGgsn_G (DA)

10.14 GPRS QOS Active PDP Contexts Report

GPRS Quality of Service Active PDP Contexts Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Active PDP Contexts	SGSN.SGSN_Id, SGSN.Ericsson.QoS.QoS_NbrActConversationalPdpContext_G (DA), SGSN.Ericsson.QoS.QoS_NbrActInteractivePdpContext_G (DA), SGSN.Ericsson.QoS.QoS_NbrActStreamingPdpContext_G (DA)

10.15 GPRS QOS Downlink and Uplink Packets Report

GPRS Quality of Service Downlink and Uplink Packets Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Downlink Packets	SGSN.SGSN_Id, SGSN.Ericsson.QoS.DLPktDiscarded, SGSN.Ericsson.QoS.DLPktForwarded, SGSN.Ericsson.QoS.DLBackgroundPktDiscarded, SGSN.Ericsson.QoS.DLBackgroundPktForwarded, SGSN.Ericsson.QoS.DLInteractivePktDiscarded, SGSN.Ericsson.QoS.DLInteractivePktForwarded, SGSN.Ericsson.QoS.DLStreamingPktDiscarded, SGSN.Ericsson.QoS.DLStreamingPktForwarded, SGSN.Ericsson.QoS.QoS_DLConversationalPktDiscarded_G, SGSN.Ericsson.QoS.QoS_DLConversationalPktForwarded_G
Uplink Packets	SGSN.SGSN_Id, SGSN.Ericsson.QoS.ULBackgroundPktForwarded, SGSN.Ericsson.QoS.ULInteractivePktForwarded, SGSN.Ericsson.QoS.ULStreamingPktForwarded, SGSN.Ericsson.QoS.QoS_ULConversationalPktForwarded, SGSN.Ericsson.QoS.ULPktForwarded

10.16 GPRS RAB Assignment Report

GPRS RAB Assignment

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
RAB Assignment	SGSN.SGSN_Id, SGSN.Ericsson.Session_management.SM_SuccRabAssignment, SGSN.Ericsson.Session_management.SM_AttRabAssignment, SGSN.Ericsson.Session_management._%_SM_SuccRabAssignment

10.17 GPRS Short Message Report

GPRS Short Message Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Short Message	SGSN.SGSN_Id, SGSN.Ericsson.Short_Message._%_SuccMoPS, SGSN.Ericsson.Short_Message._%_SuccMtPS, SGSN.Ericsson.Short_Message.AttMoPS, SGSN.Ericsson.Short_Message.AttMtPS, SGSN.Ericsson.Short_Message.SuccMoPS, SGSN.Ericsson.Short_Message.SuccMtPS

10.18 GPRS SS7 Stack Report

GPRS SS7 Stack Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
SS7 Stack	SGSN.Ericsson.SS7_Stack.ss7SPInaccess, SGSN.Ericsson.SS7_Stack.ss7NoOfRunDialTot, SGSN.Ericsson.SS7_Stack.ss7NoOfRunOpTot, SGSN.SGSN_Id

10.19 IP Traffic Report

IP Traffic Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.IP_Interface
Primary Object	IP_Interface
IP Traffic	IP_Interface.Interface_Id, IP_Interface.Node_Id, IP_Interface.Ericsson.IP_Traffic.ifInDiscards, IP_Interface.Ericsson.IP_Traffic.ifInOctets, IP_Interface.Ericsson.IP_Traffic.ifInPkts, IP_Interface.Ericsson.IP_Traffic.ifOutDiscards, IP_Interface.Ericsson.IP_Traffic.ifOutOctets, IP_Interface.Ericsson.IP_Traffic.ifOutPkts

10.20 UMTS CAMEL Report

UMTS CAMEL Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN

CAMEL Dialogue	SGSN.SGSN_Id, SGSN.Ericsson.CAMEL_UMTS.AttCamelDialogues, SGSN.Ericsson.CAMEL_UMTS.FailDialoguesScf, SGSN.Ericsson.CAMEL_UMTS.FailDialoguesSsf

10.21 UMTS GTP Report

UMTS GTP Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
GTP	SGSN.SGSN_Id, SGSN.Ericsson.GTP_payload_for_UMTS.GTPtpuInDataOctIu, SGSN.Ericsson.GTP_payload_for_UMTS.GTPtpuInDataPktIu, SGSN.Ericsson.GTP_payload_for_UMTS.GTPtpuOutDataOctIu, SGSN.Ericsson.GTP_payload_for_UMTS.GTPtpuOutDataPktIu, SGSN.Ericsson.GTP_payload_for_UMTS.Tot_DatOctIu

10.22 UMTS Mobility Management Attach Procedures

UMTS Mobility Management Attach Procedures Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Attach Procedures	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management_for_UMTS._%_succGprsAttachUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.attGprsAttachUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.succGprsAttachUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.Total_UnsuccAttach

GPRS Detach Procedures	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management_for_UMTS.attGprsDetachMsUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.attGprsDetachSgsnUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.succGprsDetachSgsnUmts, SGSN.Ericsson.Mobility_Management_for_UMTS._%_succGprsDetachSgsnUmts

10.23 UMTS Mobility Management Paging Procedures

UMTS Mobility Management Paging Procedures Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Paging Procedures	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management_for_UMTS.succPacketSwitchingPagingUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.attPacketSwitchingPagingUmts, SGSN.Ericsson.Mobility_Management_for_UMTS._%_succPacketSwitchingPagingUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.unsuccPacketSwitchingPagingUmts, SGSN.Ericsson.Mobility_Management_for_UMTS._%_unsuccPacketSwitchingPagingUmts

10.24 UMTS Mobility Management RA Update Report

UMTS Mobility Management RA Update Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Routing Area Update Failure	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management_for_UMTS.MM_UnsuccInterSgsnRauCC14_U, SGSN.Ericsson.Mobility_Management_for_UMTS.MM_UnsuccInterSgsnRauCC17_U,

	SGSN.Ericsson.Mobility_Management_for_UMTS.MM_UnsuccInterSgsnRauCC9_U, SGSN.Ericsson.Mobility_Management_for_UMTS.MM_UnsuccIntraSgsnRauCC14_U, SGSN.Ericsson.Mobility_Management_for_UMTS.MM_UnsuccIntraSgsnRauCC17_U
Routing Area Update Procedures	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management_for_UMTS.attInterSgsnRaUpdateUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.succInterSgsnRaUpdateUmts, SGSN.Ericsson.Mobility_Management_for_UMTS._%_succInterSgsnRaUpdateUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.attIntraSgsnRaUpdateUmts, SGSN.Ericsson.Mobility_Management_for_UMTS.succIntraSgsnRaUpdateUmts, SGSN.Ericsson.Mobility_Management_for_UMTS._%_succIntraSgsnRaUpdateUmts

10.25 UMTS Mobility Management Subscribers Report

UMTS Mobility Management Subscribers Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Subscribers	SGSN.SGSN_Id, SGSN.Ericsson.Mobility_Management_for_UMTS._%_NbrHomeSub, SGSN.Ericsson.Mobility_Management_for_UMTS._%_NbrVisitingForeign, SGSN.Ericsson.Mobility_Management_for_UMTS._%_NbrVisitingNatSub, SGSN.Ericsson.Mobility_Management_for_UMTS.MM_NbrCamelSub_U, SGSN.Ericsson.Mobility_Management_for_UMTS.NbrActAttachedSub, SGSN.Ericsson.Mobility_Management_for_UMTS.NbrHomeSub, SGSN.Ericsson.Mobility_Management_for_UMTS.NbrVisitingForeign, SGSN.Ericsson.Mobility_Management_for_UMTS.NbrVisitingNatSub

10.26 UMTS MS Security Report

UMTS MS Security

Report Feature	Details

Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
MS Security	SGSN.SGSN_Id, SGSN.Ericsson.MS_security_for_UMTS.AttAuthProcsSgsnSim, SGSN.Ericsson.MS_security_for_UMTS.SuccAuthProcsSgsnSim, SGSN.Ericsson.MS_security_for_UMTS.AttAuthProcsSgsnUsim, SGSN.Ericsson.MS_security_for_UMTS.SuccAuthProcsSgsnUsim, SGSN.Ericsson.MS_security_for_UMTS.AttIdentityReqImsi, SGSN.Ericsson.MS_security_for_UMTS.SuccIdentityReqImsi, SGSN.Ericsson.MS_security_for_UMTS.SEC_AttSecMode, SGSN.Ericsson.MS_security_for_UMTS.SEC_SuccSecMode

10.27 UMTS PDP Context Activations Report

UMTS PDP Context Activations Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
%PDP Context Activations Success	SGSN.SGSN_Id, SGSN.Ericsson.Session_management_for_UMTS._%_SM_SuccActPdpContextSgsnHome_U, SGSN.Ericsson.Session_management_for_UMTS._%_SuccActPdpContext, SGSN.Ericsson.Session_management_for_UMTS._%_SuccActPdpContextDyn, SGSN.Ericsson.Session_management_for_UMTS._%_SM_SuccActSecondPdpContext_U
PDP Context Activations	SGSN.SGSN_Id, SGSN.Ericsson.Session_management_for_UMTS.SM_AttActPdpContextSgsnHome_U, SGSN.Ericsson.Session_management_for_UMTS.SM_SuccActPdpContextSgsnHome_U, SGSN.Ericsson.Session_management_for_UMTS.AttActPdpContext, SGSN.Ericsson.Session_management_for_UMTS.SuccActPdpContext, SGSN.Ericsson.Session_management_for_UMTS.AttActPdpContextDyn, SGSN.Ericsson.Session_management_for_UMTS.SuccActPdpContextDyn, SGSN.Ericsson.Session_management_for_UMTS.SM_AttActSecondPdpContext_U, SGSN.Ericsson.Session_management_for_UMTS.SM_SuccActSecondPdpContext_U, SGSN.Ericsson.Session_management_for_UMTS.NbrActPdpContext, SGSN.Ericsson.Session_management_for_UMTS.NbrActivePdpPerSgsn

10.28 UMTS PDP Context Deactivations Report

UMTS PDP Context Deactivations Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
PDP Context Deactivations	SGSN.SGSN_Id, SGSN.Ericsson.Session_management_for_UMTS._%_SuccDeactPdpContextMs, SGSN.Ericsson.Session_management_for_UMTS._%_SuccDeactPdpContextSgsn, SGSN.Ericsson.Session_management_for_UMTS.AttDeactPdpContextGgsn, SGSN.Ericsson.Session_management_for_UMTS.AttDeactPdpContextMs, SGSN.Ericsson.Session_management_for_UMTS.AttDeactPdpContextSgsn, SGSN.Ericsson.Session_management_for_UMTS.SuccDeactPdpContextGgsn, SGSN.Ericsson.Session_management_for_UMTS.SuccDeactPdpContextMs, SGSN.Ericsson.Session_management_for_UMTS.SuccDeactPdpContextSgsn

10.29 UMTS PDP Context Modifications Report

UMTS PDP Context Modifications Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
PDP Context Modifications	SGSN.SGSN_Id, SGSN.Ericsson.Session_management_for_UMTS._%_SM_SuccModPdpContextMs_U, SGSN.Ericsson.Session_management_for_UMTS._%_SuccModPdpContextSgsn, SGSN.Ericsson.Session_management_for_UMTS.AttModPdpContextSgsn, SGSN.Ericsson.Session_management_for_UMTS.SM_AttModPdpContextMs_U, SGSN.Ericsson.Session_management_for_UMTS.SM_SuccModPdpContextMs_U, SGSN.Ericsson.Session_management_for_UMTS.SuccModPdpContextSgsn

10.30 UMTS PDP Context Updates Report

UMTS PDP Context Updates Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
PDP Context Updates	SGSN.SGSN_Id, SGSN.Ericsson.Session_management_for_UMTS._%_SuccUpdPdpContextSgsn, SGSN.Ericsson.Session_management_for_UMTS.AttUpdPdpContextSgsn, SGSN.Ericsson.Session_management_for_UMTS.SuccUpdPdpContextSgsn, SGSN.Ericsson.Session_management_for_UMTS._%_SM_SuccUpdPdpContextGgsn_U, SGSN.Ericsson.Session_management_for_UMTS.SM_AttUpdPdpContextGgsn_U, SGSN.Ericsson.Session_management_for_UMTS.SM_SuccUpdPdpContextGgsn_U

10.31 UMTS QOS Active PDP Contexts Report

UMTS Quality of Service Active PDP Contexts Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Active PDP Contexts	SGSN.SGSN_Id, SGSN.Ericsson.QoS_for_UMTS.QoS_NbrActConversationalPdpContext_U, SGSN.Ericsson.QoS_for_UMTS.QoS_NbrActInteractivePdpContext_U, SGSN.Ericsson.QoS_for_UMTS.QoS_NbrActStreamingPdpContext_U

10.32 UMTS QOS Downlink Packets Report

UMTS Quality of Service Downlink Packets Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Downlink Packets	SGSN.SGSN_Id, SGSN.Ericsson.QoS_for_UMTS.DLPktDiscarded, SGSN.Ericsson.QoS_for_UMTS.DLPktForwarded, SGSN.Ericsson.QoS_for_UMTS.DLBackgroundPktDiscarded, SGSN.Ericsson.QoS_for_UMTS.DLBackgroundPktForwarded, SGSN.Ericsson.QoS_for_UMTS.DLInteractivePktDiscarded, SGSN.Ericsson.QoS_for_UMTS.DLInteractivePktForwarded, SGSN.Ericsson.QoS_for_UMTS.DLStreamingPktDiscarded, SGSN.Ericsson.QoS_for_UMTS.DLStreamingPktForwarded, SGSN.Ericsson.QoS_for_UMTS.QoS_DLConversationalPktDiscarded_U, SGSN.Ericsson.QoS_for_UMTS.QoS_DLConversationalPktForwarded_U

10.33 UMTS Short Message Report

UMTS Short Message Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
Short Message	SGSN.SGSN_Id, SGSN.Ericsson.Short_messages_for_UMTS._%_SuccMoPS, SGSN.Ericsson.Short_messages_for_UMTS._%_SuccMtPS, SGSN.Ericsson.Short_messages_for_UMTS.AttMoPS, SGSN.Ericsson.Short_messages_for_UMTS.AttMtPS, SGSN.Ericsson.Short_messages_for_UMTS.SuccMoPS, SGSN.Ericsson.Short_messages_for_UMTS.SuccMtPS

10.34 UMTS SS7 Stack Report

UMTS SS7 Stack Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.MagSlot_interface
Primary Object	MagSlot_interface
SS7 Stack	MagSlot_interface.Interface_Id, MagSlot_interface.SGSN_Id, MagSlot_interface.Ericsson.SS7_Stack_for_UMTS.ss7MessageOrigCR, MagSlot_interface.Ericsson.SS7_Stack_for_UMTS.ss7MessageOrigDT1, MagSlot_interface.Ericsson.SS7_Stack_for_UMTS.ss7MessageOrigRLSD, MagSlot_interface.Ericsson.SS7_Stack_for_UMTS.ss7MessageTermCR, MagSlot_interface.Ericsson.SS7_Stack_for_UMTS.ss7MessageTermDT1, MagSlot_interface.Ericsson.SS7_Stack_for_UMTS.ss7MessageTermRLSD, MagSlot_interface.Ericsson.SS7_Stack_for_UMTS.ss7NoOfCurrRunConnTot

10.35 WCDMA GSM Intersystem Change Report

WCDMA GSM Intersystem Change Report

Report Feature	Details
Report Tree Branch	System.UMTS.Engineering.SGSN.Ericsson.SGSN
Primary Object	SGSN
WCDMA GSM Intersystem Change	SGSN.SGSN_Id, SGSN.Ericsson.WCDMA_GSM_Intersystem_Change._%_ISYSC_SuccIntraSgsnGsmUmtsRau, SGSN.Ericsson.WCDMA_GSM_Intersystem_Change._%_ISYSC_SuccIntraSgsnUmtsGsmRau, SGSN.Ericsson.WCDMA_GSM_Intersystem_Change.ISYSC_AttIntraSgsnGsmUmtsRau, SGSN.Ericsson.WCDMA_GSM_Intersystem_Change.ISYSC_AttIntraSgsnUmtsGsmRau, SGSN.Ericsson.WCDMA_GSM_Intersystem_Change.ISYSC_SuccIntraSgsnGsmUmtsRau, SGSN.Ericsson.WCDMA_GSM_Intersystem_Change.ISYSC_SuccIntraSgsnUmtsGsmRau

Appendix A Notices and Trademarks

This appendix contains the following:

- Notices
- Trademarks

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