



GSMUMTS Alcatel-Lucent MSC R3.2.30 Product Requirements

Table of Contents

1 Change History.....	4
2 Outstanding Issues.....	5
3 Vendor Measurement Scope.....	6
4 Tech Pack Prerequisites.....	13
5 Network Model.....	14
5.1 ATM_Card details.....	14
5.2 ATM_If details.....	15
5.3 Call_Cause details.....	16
5.4 DPC details.....	17
5.5 DSP_PI details.....	21
5.6 Emergency_Services_Zone details.....	22
5.7 HLR details.....	23
5.8 IPM_MGW details.....	24
5.9 IWF details.....	25
5.10 LAC details.....	26
5.11 MGW_Card details.....	27
5.12 MGW_CPU details.....	28
5.13 MGW_Interconnect details.....	29
5.14 MGW_Relation details.....	30
5.15 MGW_Slot details.....	31
5.16 MGW details.....	32
5.17 MSC details.....	33
5.18 Network details.....	34
5.19 Peer_Server_Process details.....	34
5.20 Region details.....	35
5.21 RNC details.....	36
5.22 Rte details.....	37
5.23 SCT_SAP details.....	38
5.24 Service details.....	39
5.25 Signalling_LinkSet details.....	41
5.26 Signalling_Link details.....	43
5.27 SMIM details.....	45
5.28 Traffic_Dest details.....	46
5.29 Trunk_Group details.....	47
5.30 WSS_Node details.....	49
6 Busy Hours.....	53
7 Performance Indicators.....	54
7.1 ATM_Card Performance Indicators.....	55
7.2 ATM_If Performance Indicators.....	55
7.3 Call_Cause Performance Indicators.....	62
7.4 DPC Performance Indicators.....	63
7.5 DSP_PI Performance Indicators.....	122
7.6 Emergency_Services_Zone Performance Indicators.....	125
7.7 HLR Performance Indicators.....	127
7.8 IPM_MGW Performance Indicators.....	134

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

7.9	IWF Performance Indicators.....	141
7.10	LAC Performance Indicators.....	142
7.11	MGW_CPU Performance Indicators.....	165
7.12	MGW_Interconnect Performance Indicators.....	167
7.13	MGW_Relation Performance Indicators.....	169
7.14	MSC Performance Indicators.....	171
7.15	RNC Performance Indicators.....	187
7.16	Rte Performance Indicators.....	193
7.17	SCT_SAP Performance Indicators.....	196
7.18	Service Performance Indicators.....	201
7.19	Signalling_Link Performance Indicators.....	206
7.20	Signalling_LinkSet Performance Indicators.....	218
7.21	SMIM Performance Indicators.....	220
7.22	Traffic_Dest Performance Indicators.....	227
7.23	Trunk_Group Performance Indicators.....	229
7.24	WSS_Node Performance Indicators.....	260
8	Performance Alarms.....	496
9	Reports.....	497
9.1	Traffic_Dest Reports.....	497
9.2	WSS_Node Reports.....	498
9.3	MSC Reports.....	499
9.4	HLR Reports.....	501
9.5	MGW_Relation Reports.....	502
9.6	Signalling_Link Reports.....	502
9.7	Signalling_LinkSet Reports.....	503

1 Change History

Issue	Date	Author	Comments
1.0	22 Mar 2011	IBM	Fixpack Released

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

2 Outstanding Issues

Number	Date	Description	Planned Resolution
N/A			

3 Vendor Measurement Scope

The table below lists the vendor OM groups that are in scope for this tech pack module, broken down by network element, together with their corresponding tech pack KPI group.

Vendor Measurement	Tech Pack KPI Group
ATM_Card - Mapped with PORTCAPACITYPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & CARDID	
PORTCAPACITYPERF	ATM_Card.Alcatel_Lucent.GSM.WMG_Port_Capacity_Performance
ATM_If - Mapped with ATMIFPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & PORTID or ATMVCLIFPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & PORTID	
ATMIFPERF	ATM_If.Alcatel_Lucent.GSM.ATM_Interface_Performance
ATMVCLIFPERF	ATM_If.Alcatel_Lucent.GSM.ATM_VCL_Interface_Performance
Call_Cause - Mapped with ENDOFCALLPERF.NODE_ID & "/" & WSSNODENUM & "-" & ENDOFCALLCAUSEVALUE & "-" & ENDOFCALLCALLSTATE	
ENDOFCALLPERF	Call_Cause.Alcatel_Lucent.GSM.Call_Disposition_Performance
DPC - Mapped with BSSAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or BSSAPMNTMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or ISUPOVLDPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSBICCDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSISUPDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSM3UAROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSMTP3ROUTEPERF.NODE_ID & "/" & WSSNODENUM &	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

"-" & NETWORKID & "-" & DPC	
BSSAPMMMSGPERF	DPC.Alcatel_Lucent.GSM.Call_Mobility_BSS_AP_Performance
BSSAPMNTMSGPERF	DPC.Alcatel_Lucent.GSM.Circuit_System_BS_SAP_Performance
ISUPOVLDPERF	DPC.Alcatel_Lucent.GSM.ISUP_Network_Overload_Control
SYSBICCDPCPERF	DPC.Alcatel_Lucent.GSM.BICC_DPC_Performance
SYSISUPDPCPERF	DPC.Alcatel_Lucent.GSM.ISUP_DPC_Performance
SYSM3UAROUTEPERF	DPC.Alcatel_Lucent.GSM.M3UA_Route_Performance
SYSMTP3ROUTEPERF	DPC.Alcatel_Lucent.GSM.MTP3_Route_Performance
DSP_PI - Mapped with DSPUSAGEPERF.NODE_ID & "/" & WMGNODEID & "-" & DSPPOOLTYPE	
DSPUSAGEPERF	DSP_PI.Alcatel_Lucent.GSM.TDM_DSP_Usage_Performance
Emergency_Services_Zone - Mapped with ESRKPOOLPERF.NODE_ID & "/" & ESZID	
ESRKPOOLPERF	Emergency_Services_Zone.Alcatel_Lucent.GSM.ESRK_Performance
HLR - Mapped with VLRUTILIZATIONPERF.NODE_ID & "/" & WSSNODENUM & "-" & HLRNUM	
VLRUTILIZATIONPERF	HLR.Alcatel_Lucent.GSM.VLR_Utilization_Performance
IPM_MGW - Mapped with CALLH248PERF.NODE_ID & "/" & WMGNODEID & "-" & IPMNODENUM	
CALLH248PERF	IPM_MGW.Alcatel_Lucent.GSM.H248_Performance
IWF - Mapped with MSFIWFGRPPERF.NODE_ID & "/" & MSFIWFGRPID	
MSFIWFGRPPERF	IWF.Alcatel_Lucent.GSM.IWF_Group_Performance
LAC - Mapped with BSSAPPERF.NODE_ID & "/" & WSSNODENUM & "-" & LACID	

BSSAPPERF	LAC.Alcatel_Lucent.GSM.BSSAP_Mobile_Performance
MGW_CPU - Mapped with MSFCPULOAD.NODE_ID & "/" & MSFNODEID & "-" & MSFSLOTID & "-" & MSFCPUID	
MSFCPULOAD	MGW_CPU.Alcatel_Lucent.GSM.WMG_CPU_Usage
MGW_Interconnect - Mapped with ICONCARDPERF.NODE_ID & "/" & ICONID	
ICONCARDPERF	MGW_Interconnect.Alcatel_Lucent.GSM.TDM_Interconnect_Performance
MGW_Relation - Mapped with CALLEGCPPERF.NODE_ID & "/" & WSSNODENUM & "-" & WMGNODENUM	
CALLEGCPPERF	MGW_Relation.Alcatel_Lucent.GSM.EGCP_Performance
MSC - Mapped with SUMMARYPERF.NODE_ID	
SUMMARYPERF	MSC.Alcatel_Lucent.GSM.WSS_System_Performance
RNC - Mapped with RANAPMSGPER.NODE_ID & "/" & WSSNODENUM & "-" & RNCID	
RANAPMSGPER	RNC.Alcatel_Lucent.GSM.RANAP_Message_Performance
Rte - Mapped with SYSROUTEPERF.NODE_ID & "/" & ROUTEINDEX	
SYSROUTEPERF	Rte.Alcatel_Lucent.GSM.System_Route_Performance
SCT_SAP - Mapped with SYSM3UAPSPPERF.NODE_ID & "/" & WSSNODENUM & "-" & PSPID & "-" & SCTSAPID	
SYSM3UAPSPPERF	SCT_SAP.Alcatel_Lucent.GSM.M3UA_Association_Performance
Service - Mapped with CAPPERF.NODE_ID & "/" & WSSNODENUM & "-" & SERVICEKEY or INAPGWYPERF.NODE_ID & "/" & WSSNODENUM & "-" & SERVICEKEY	
CAPPERF	Service.Alcatel_Lucent.GSM.CAMEL_Performance

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

INAPGWYPERF	Service.Alcatel_Lucent.GSM.INAP_Performance
Signalling_Link - Mapped with SYSMTP2LINKPERF.NODE_ID & "/" & WSSNODENUM & "-" & GATEWAYNO & "-" & LNKID or SYSMTP3LINKPERF.NODE_ID & "/" & WSSNODENUM & "-" & GATEWAYNO & "-" & LNKID	
SYSMTP2LINKPERF	Signalling_Link.Alcatel_Lucent.GSM.MTP2_Link_Performance
SYSMTP3LINKPERF	Signalling_Link.Alcatel_Lucent.GSM.MTP3_Link_Performance
Signalling_LinkSet - Mapped with SYSMTP3LINKSETPERF.NODE_ID & "/" & WSSNODENUM & "-" & LNKSETID or SUMMARYPERF_LS.NODE_ID & "/" & LINKSET_NAME	
SUMMARYPERF_LS	Signalling_LinkSet.Alcatel_Lucent.GSM.Links et_System_Performance
SYSMTP3LINKSETPERF	Signalling_LinkSet.Alcatel_Lucent.GSM.MTP3_Linkset_Performance
SMIM - Mapped with SYSIWFSMIMPERF.NODE_ID & "/" & NODEID & "-" & SMIMID	
SYSIWFSMIMPERF	SMIM.Alcatel_Lucent.GSM.IWF_Signalling_Performance
Traffic_Dest - Mapped with TDCPERF.NODE_ID & "/" & WSSNODENUM & "-" & TDCID	
TDCPERF	Traffic_Dest.Alcatel_Lucent.GSM.Traffic_Destination_Code_Performance
Trunk_Group - Mapped with SYSGRPPERF.NODE_ID & "/" & WMGNODENUM & "-" & SYSGRPNUM or CNVOIPPERF.NODE_ID & "/" & WMGNODEID & "-" & TRUNKGROUP & "-" & TRUNKTYPE or SUMMARYPERF_TG.NODE_ID & "/" & TRUNK_GROUP_NAME or TRKGRPWMGICONPERF.NODE_ID & "/" & WMGID & "-" & SYSGRPNUM	
CNVOIPPERF	Trunk_Group.Alcatel_Lucent.GSM.CN_VOIP_Performance
SUMMARYPERF_TG	Trunk_Group.Alcatel_Lucent.GSM.Trunk_Group_System_Performance
SYSGRPPERF	Trunk_Group.Alcatel_Lucent.GSM.System_Group_Performance
TRKGRPWMGICONPERF	Trunk_Group.Alcatel_Lucent.GSM.Trunk_Group_WMG_Interconnect_Performance
WSS_Node - Mapped with CALLPERF.NODE_ID & "/" & WSSNODENUM or ALCAPMSGPERF.NODE_ID & "/" & WSSNODENUM or BSSAPSMSPERF.NODE_ID & "/" & WSSNODENUM or CALLPERF2.NODE_ID & "/" & WSSNODENUM or	

CALLTOTALTIMEPERF.NODE_ID & "/" & WSSNODENUM or CAPMSGPERF.NODE_ID & "/" & WSSNODENUM or CISSPERF.NODE_ID & "/" & WSSNODENUM or CUGPERF.NODE_ID & "/" & WSSNODENUM or EMERGENCYCALLPERF.NODE_ID & "/" & WSSNODENUM or GSPERF.NODE_ID & "/" & WSSNODENUM or INAPMSGPERF.NODE_ID & "/" & WSSNODENUM or IS41MSGPERF.NODE_ID & "/" & WSSNODENUM or IS41PERF.NODE_ID & "/" & WSSNODENUM or MAP1PERF.NODE_ID & "/" & WSSNODENUM or MAPCISSMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPLCMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPPERF.NODE_ID & "/" & WSSNODENUM or MAPSMSMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPSPMMSGPERF.NODE_ID & "/" & WSSNODENUM or MOOVLDPERF.NODE_ID & "/" & WSSNODENUM or PRIORITYCALLPERF.NODE_ID & "/" & WSSNODENUM or RANAPPERF.NODE_ID & "/" & WSSNODENUM or SYSSCCPPERF.NODE_ID & "/" & WSSNODENUM or SYSSCCPRELAYPERF.NODE_ID & "/" & WSSNODENUM or SYSSCTPIPPERF.NODE_ID & "/" & WSSNODENUM or SYSTUPPERF.NODE_ID & "/" & WSSNODENUM or WSSDISKPERF.NODE_ID & "/" & WSSNODENUM or WSSPERF.NODE_ID & "/" & WSSNODENUM

ALCAPMSGPERF	WSS_Node.Alcatel_Lucent.GSM.ALCAP_Performance
BSSAPSMSPERF	WSS_Node.Alcatel_Lucent.GSM.SMS_Performance
CALLPERF	WSS_Node.Alcatel_Lucent.GSM.Call_Control_Performance
CALLPERF2	WSS_Node.Alcatel_Lucent.GSM.Call_Control_2_Performance
CALLTOTALTIMEPERF	WSS_Node.Alcatel_Lucent.GSM.Call_Total_Time_Performance
CAPMSGPERF	WSS_Node.Alcatel_Lucent.GSM.CAP_Performance
CISSPERF	WSS_Node.Alcatel_Lucent.GSM.CISS_Performance
CUGPERF	WSS_Node.Alcatel_Lucent.GSM.Close_User_Group_Performance
EMERGENCYCALLPERF	WSS_Node.Alcatel_Lucent.GSM.Emergency_Call_Performance
GSPERF	WSS_Node.Alcatel_Lucent.GSM.GS_Interface

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	_Performance
INAPMSGPERF	WSS_Node.Alcatel_Lucent.GSM.INAP_Message_Performance
IS41MSGPERF	WSS_Node.Alcatel_Lucent.GSM.IS41_Message_Performance
IS41PERF	WSS_Node.Alcatel_Lucent.GSM.IS41_Performance
MAP1PERF	WSS_Node.Alcatel_Lucent.GSM.GMSC_MAP_Performance
MAPCISSMSGPERF	WSS_Node.Alcatel_Lucent.GSM.CISS_MAP_Performance
MAPLCMSGPERF	WSS_Node.Alcatel_Lucent.GSM.Location_Service_MAP_Performance
MAPMMMSGPERF	WSS_Node.Alcatel_Lucent.GSM.Mobility_Mgmt_MAP_Performance
MAPPERF	WSS_Node.Alcatel_Lucent.GSM.VMSC_MAP_Performance
MAPSMSMSGPERF	WSS_Node.Alcatel_Lucent.GSM.SMS_MAP_Performance
MAPSPMMSGPERF	WSS_Node.Alcatel_Lucent.GSM.Subscriber_MAP_Performance
MOOVLDPERF	WSS_Node.Alcatel_Lucent.GSM.WSS_Overload_Control_Performance
PRIORITYCALLPERF	WSS_Node.Alcatel_Lucent.GSM.WPS_Performance
RANAPPERF	WSS_Node.Alcatel_Lucent.GSM.RANAP_Performance
SYSSCCPPERF	WSS_Node.Alcatel_Lucent.GSM.SCCP_Performance
SYSSCCPRELAYPERF	WSS_Node.Alcatel_Lucent.GSM.SCCP_Relay_Performance
SYSSCTPIPPERF	WSS_Node.Alcatel_Lucent.GSM.SCTP_IP_Performance
SYSTUPPERF	WSS_Node.Alcatel_Lucent.GSM.TUP_Performance

WSSDISKPERF	WSS_Node.Alcatel_Lucent.GSM.WSS_Disk_Performance
WSSPERF	WSS_Node.Alcatel_Lucent.GSM.WSS_Performance

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

4 Tech Pack Prerequisites

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

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

5 Network Model

This section describes any network objects that are defined in this technology pack module, in terms of their configuration attributes.

5.1 ATM_Card details

In the network hierarchy, the immediate parent of the ATM_Card object is MGW_Slot.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
ATM_Card_I d	A unique identifier for the ATM Card	Y		PORTCAPACITYPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & CARDID	
Relationship Attributes					
MGW_Slot_I d	MGW Slot associated with the ATM Card	Y	Y	PORTCAPACITYPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID	
MGW_Id	MGW associated with the ATM Card	Y	Y	PORTCAPACITYPERF.NODE_ID & "/" & WMGNODEID	
MSC_Id	MSC associated with the ATM Card	Y	Y	PORTCAPACITYPERF.NODE_ID	
Region_Id	Region associated with the ATM Card	Y	Y	lookup("nc_msc","region_id",utime(PORTCAPACITYPERF.DA Y & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD,	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

				NODE_ID)	
Network_Id	Network associated with the ATM Card	Y	Y	lookup("nc_msc","network_id",utime(PORTCAPACITYPERF.DA Y & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
ATM_Card_Name	A user friendly name preferably unique for the ATM Card			PORTCAPACITYPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & CARDID	
ATM_Card_Version	Hardware/Software version of the ATM Card			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.2 ATM_If details

In the network hierarchy, the immediate parent of the ATM_If object is MGW_Slot.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
ATM_If_Id	A unique identifier for the ATM Card	Y		ATMIFPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & PORTID or ATMVCLIFPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & PORTID	
Relationship Attributes					
MGW_Slot_Id	MGW associated with the ATM If	Y	Y	ATMIFPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID or ATMVCLIFPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID	

MGW_Id	MGW Slot associated with the ATM If	Y	Y	ATMIFPERF.NODE_ID & "/" & WMGNODEID or ATMVCLIFPERF.NODE_ID & "/" & WMGNODEID	
MSC_Id	MSC associated with the ATM If	Y	Y	ATMIFPERF.NODE_ID	
Region_Id	Region associated with the ATM If	Y	Y	lookup("nc_msc","region_id",utime(ATMIFPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the ATM If	Y	Y	lookup("nc_msc","network_id",utime(ATMIFPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
ATM>If_Name	A user friendly name preferably unique for the ATM Card			ATMIFPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & PORTID or ATMVCLIFPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID & "-" & PORTID	
ATM>If_Version	Hardware/Software version of the ATM If			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.3 Call_Cause details

In the network hierarchy, the immediate parent of the Call_Cause object is WSS_Node.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggregator
----------------	-------------	---------------	----------------	---------	------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Primary Identifier					
Call_Cause_Id	A unique identifier for the ATM Card	Y		ENDOFCALLPERF.NODE_ID & "/" & WSSNODENUM & "-" & ENDOFCALLCAUSEVALUE & "-" & ENDOFCALLCALLSTATE	
Relationship Attributes					
WSS_Node_Id	WSS Node associated with the Call Cause	Y	Y	ENDOFCALLPERF.NODE_ID & "/" & WSSNODENUM	
MSC_Id	MSC associated with the Call Cause	Y	Y	ENDOFCALLPERF.NODE_ID	
Region_Id	Region associated with the Call Cause	Y	Y	lookup("nc_msc","region_id",utime(ENDOFCALLPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the Call Cause	Y	Y	lookup("nc_msc","network_id",utime(ENDOFCALLPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
Call_Cause_Name	A user friendly name preferably unique for the ATM Card			ENDOFCALLPERF.NODE_ID & "/" & WSSNODENUM & "-" & ENDOFCALLCAUSEVALUE & "-" & ENDOFCALLCALLSTATE	
Call_Cause_Version	Hardware/Software version of the Call Cause			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.4 DPC details

In the network hierarchy, the immediate parent of the DPC object is Region.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
----------------	-------------	---------------	----------------	---------	-------------

Primary Identifier					
DPC_Id	A unique identifier for the DPC	Y		BSSAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or BSSAPMNTMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or ISUPOVLDPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSBICCDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSISUPDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSM3UAROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSMTP3ROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC	
Relationship Attributes					
Region_Id	The region of the DPC / Node	Y	Y	lookup("nc_msc","region_id",utime(BSSAPMMMSGPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the DPC / Node	Y	Y	lookup("nc_msc","network_id",utime(BSSAPMMMSGPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD,	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

				NODE_ID)	
Configuration Attributes					
DPC_Name	Meaningful name for the DPC		Y	BSSAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or BSSAPMNTMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or ISUPOVLDPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSBICCDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSISUPDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSM3UAROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSMTP3ROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC	
Node_Id	The identifier of the Node associated with the DPC	Y	Y	BSSAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID or BSSAPMNTMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID or ISUPOVLDPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID or SYSBICCDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID or SYSISUPDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID or	

				SYSM3UAROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID or SYSMTTP3ROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID	
Node_Type	The type of the Node associated with the DPC (e.g. MSC, BSC).		Y	BSSAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or BSSAPMNTMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or ISUPOVLDPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSBICCDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSISUPDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSM3UAROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSMTTP3ROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC	
Node_Name	The name of the Node associated with the DPC			BSSAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or BSSAPMNTMSGPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" &	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

				DPC or ISUPOVLDPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSBICCDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSISUPDPCPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSM3UAROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC or SYSMTP3ROUTEPERF.NODE_ID & "/" & WSSNODENUM & "-" & NETWORKID & "-" & DPC	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.5 DSP_Pl details

In the network hierarchy, the immediate parent of the DSP_Pl object is MGW.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
DSP_Pl_Id	A unique identifier for the DSP Pool	Y		DSPUSAGEPERF.NODE_ID & "/" & WMGNODEID & "-" & DSPPOOLTYPE	
Relationship Attributes					
MGW_Id	MGW associated with the DSP Pool	Y	Y	DSPUSAGEPERF.NODE_ID & "/" & WMGNODEID	
MSC_Id	MSC associated with the DSP Pool	Y	Y	DSPUSAGEPERF.NODE_ID	

Region_Id	Region associated with the DSP Pool	Y	Y	lookup("nc_msc","region_id",utime(DSPUSAGEPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the DSP Pool	Y	Y	lookup("nc_msc","network_id",utime(DSPUSAGEPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
DSP_Pl_Name	A user friendly name preferably unique for the DSP Pool			DSPUSAGEPERF.NODE_ID & "/" & WMGNOID & "-" & DSPPOOLTYPE	
DSP_Pl_Version	Hardware/Software version of the DSP Pool			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.6 Emergency_Services_Zone details

In the network hierarchy, the immediate parent of the Emergency_Services_Zone object is MSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggregator
Primary Identifier					
ESZ_Id	A unique identifier for the Emergency Services Zone	Y		ESRKPOOLPERF.NODE_ID & "/" & ESZID	
Relationship Attributes					
MSC_Id	MSC associated with the Emergency Services	Y	Y	ESRKPOOLPERF.NODE_ID	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	Zone				
Region_Id	Region associated with the Emergency Services Zone	Y	Y	lookup("nc_msc","region_id",utime(ESRKPOOLPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the Emergency Services Zone	Y	Y	lookup("nc_msc","network_id",utime(ESRKPOOLPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
ESZ_Name	A user friendly name preferably unique for the Emergency Services Zone			ESRKPOOLPERF.NODE_ID & "/" & ESZID	
ESZ_Version	Hardware/Software version of the Emergency Services Zone			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.7 HLR details

In the network hierarchy, the immediate parent of the HLR object is Region.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
HLR_Id	A unique identifier for the HLR.	Y		VLRUTILIZATIONPERF.NODE_ID & "/" & WSSNODENUM & "-" & HLRNUM	
Relationship Attributes					
Region_Id	Region associated with the HLR.	Y	Y	lookup("nc_msc","region_id",utime(VLRUTILIZATIONPERF.D	

				AY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the HLR.	Y	Y	lookup("nc_msc","network_id",utime(VLRUTILIZATIONPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
HLR_Name	A user friendly name preferably unique for the HLR.			VLRUTILIZATIONPERF.NODE_ID & "/" & WSSNODENUM & "-" & HLRNUM	
HLR_Version	Hardware/Software version of the HLR.			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.8 IPM_MGW details

In the network hierarchy, the immediate parent of the IPM_MGW object is MGW.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
IPM_Id	A unique identifier for the IPM	Y		CALLH248PERF.NODE_ID & "/" & WMGNODEID & "-" & IPMNODENUM	
Relationship Attributes					
MGW_Id	MGW associated with the IPM	Y	Y	CALLH248PERF.NODE_ID & "/" & WMGNODEID	
MSC_Id	MSC associated with the	Y	Y	CALLH248PERF.NODE_ID	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	IPM				
Region_Id	Region associated with the IPM	Y	Y	lookup("nc_msc","region_id",utime(CALLH248PERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the IPM	Y	Y	lookup("nc_msc","network_id",utime(CALLH248PERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
IPM_Name	A user friendly name preferably unique for the IPM			CALLH248PERF.NODE_ID & "/" & WMGNODEID & "-" & IPMNODENUM	
IPM_Version	Hardware/Software version of the IPM			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.9 IWF details

In the network hierarchy, the immediate parent of the IWF object is MSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
IWF_Id	A unique identifier for the Inter-Working Function	Y		MSFIWFGRPPERF.NODE_ID & "/" & MSFIWFGRPID	
Relationship Attributes					
MSC_Id	MSC associated with the Inter-Working Function	Y	Y	MSFIWFGRPPERF.NODE_ID	
Region_Id	Region associated with the Inter-Working	Y	Y	lookup("nc_msc","region_id",utime(MSFIWFGRPPERF.DAY &	

	Function			" " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the Inter-Working Function	Y	Y	lookup("nc_msc","network_id",u time(MSFIWFGRPPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
IWF_Name	A user friendly name preferably unique for the Inter-Working Function			MSFIWFGRPPERF.NODE_ID & "/" & MSFIWFGRPID	
IWF_Version	Hardware/Software version of the Inter-Working Function			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.10 LAC details

In the network hierarchy, the immediate parent of the LAC object is MSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
LAC_Id	A unique identifier for the LAC.	Y		BSSAPPERF.NODE_ID & "/" & WSSNODENUM & "-" & LACID	
Relationship Attributes					
MSC_Id	The MSC which controls this Location Area Code.	Y	Y	BSSAPPERF.NODE_ID	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Region_Id	Region associated with the LAC.	Y	Y	lookup("nc_msc","region_id",utime(BSSAPPERFDAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the LAC.	Y	Y	lookup("nc_msc","network_id",utime(BSSAPPERFDAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
LAC_Name	A user friendly name preferably unique for the LAC.			BSSAPPERF.NODE_ID & "/" & WSSNODENUM & "-" & LACID	

5.11 MGW_Card details

In the network hierarchy, the immediate parent of the MGW_Card object is MGW.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
MGW_Card_Id	A unique identifier for the MGW Card	Y		MSFCPULOAD.NODE_ID & "/" & MSFNODEID & "-" & MSFSLOTID	
Relationship Attributes					
MGW_Id	MGW associated with the MGW Card	Y	Y	MSFCPULOAD.NODE_ID & "/" & MSFNODEID	
MSC_Id	MSC associated with the MGW Card	Y	Y	MSFCPULOAD.NODE_ID	
Region_Id	Region associated with the MGW Card	Y	Y	lookup("nc_msc","region_id",utime(MSFCPULOAD.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the MGW Card	Y	Y	lookup("nc_msc","network_id",utime(MSFCPULOADADDAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD,	

				NODE_ID)	
Configuration Attributes					
MGW_Card_Name	A user friendly name preferably unique for the MGW Card			MSFCPULOAD.NODE_ID & "/" & MSFNODEID & "-" & MSFSLOTID	
MGW_Card_Version	Hardware/Software version of the MGW Card			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.12 MGW_CPU details

In the network hierarchy, the immediate parent of the MGW_CPU object is MGW_Card.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
MGW_CPU_Id	A unique identifier for the MGW CPU	Y		MSFCPULOAD.NODE_ID & "/" & MSFNODEID & "-" & MSFSLOTID & "-" & MSFCPUID	
Relationship Attributes					
MGW_Card_Id	MGW Card associated with the MGW CPU	Y	Y	MSFCPULOAD.NODE_ID & "/" & MSFNODEID & "-" & MSFSLOTID	
MGW_Id	MGW associated with the MGW CPU	Y	Y	MSFCPULOAD.NODE_ID & "/" & MSFNODEID	
MSC_Id	MSC associated with the MGW CPU	Y	Y	MSFCPULOAD.NODE_ID	
Region_Id	Region associated with	Y	Y	lookup("nc_msc","region_id",uti	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	the MGW CPU			me(MSFCPULOAD.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the MGW CPU	Y	Y	lookup("nc_msc", "network_id", utime(MSFCPULOAD.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
MGW_CPU_Name	A user friendly name preferably unique for the MGW CPU			MSFCPULOAD.NODE_ID & "/" & MSFNODEID & "-" & MSFSLOTID & "-" & MSFCPUID	
MGW_CPU_Version	Hardware/Software version of the MGW CPU			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.13 MGW_Interconnect details

In the network hierarchy, the immediate parent of the MGW_Interconnect object is MSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
MGW_Interconnect_Id	A unique identifier for the MGW Interconnect	Y		ICONCARDPERF.NODE_ID & "/" & ICONID	
Relationship Attributes					
MSC_Id	MSC associated with the MGW Interconnect	Y	Y	ICONCARDPERF.NODE_ID	
Region_Id	Region associated with the MGW Interconnect	Y	Y	lookup("nc_msc", "region_id", utime(ICONCARDPERF.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD,	

				NODE_ID)	
Network_Id	Network associated with the MGW Interconnect	Y	Y	lookup("nc_msc","network_id",u time(ICONCARDPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
MGW_Interconnect_Name	A user friendly name preferably unique for the MGW Interconnect			ICONCARDPERF.NODE_ID & "/" & ICONID	
MGW_Interconnect_Version	Hardware/Software version of the MGW Interconnect			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.14 MGW_Relation details

In the network hierarchy, the immediate parent of the MGW_Relation object is MGW.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
MGW_Relation_Id	A unique identifier for the MGW Relation	Y		CALLEGCPPERF.NODE_ID & "/" & WSSNODENUM & "-" & WMGNODENUM	
Relationship Attributes					
MGW_Id	MGW associated with the MGW Relation	Y	Y	CALLEGCPPERF.NODE_ID & "/" & WMGNODENUM	
MSC_Id	MSC associated with the MGW Relation	Y	Y	CALLEGCPPERF.NODE_ID	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Region_Id	Region associated with the MGW Relation	Y	Y	lookup("nc_msc","region_id",utime(CALLEGCPPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the MGW Relation	Y	Y	lookup("nc_msc","network_id",utime(CALLEGCPPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
MGW_Relation_Name	A user friendly name preferably unique for the MGW Slot			CALLEGCPPERF.NODE_ID & "/" & WSSNODENUM & "-" & WMGNODENUM	
MGW_Relation_Version	Hardware/Software version of the MGW Relation			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.15 MGW_Slot details

In the network hierarchy, the immediate parent of the MGW_Slot object is MGW.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggregator
Primary Identifier					
MGW_Slot_Id	A unique identifier for the MGW Slot	Y		PORTCAPACITYPERF.NODE_ID & "/" & WMGNODEID & "-" & SLOTID	
Relationship Attributes					
MGW_Id	MGW associated with the MGW Slot	Y	Y	PORTCAPACITYPERF.NODE_ID & "/" & WMGNODEID	
MSC_Id	MSC associated with the MGW Slot	Y	Y	PORTCAPACITYPERF.NODE_ID	
Region_Id	Region associated with	Y	Y	lookup("nc_msc","region_id",uti	

	the MGW Slot			me(PORTCAPACITYPERF.DA Y & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the MGW Slot	Y	Y	lookup("nc_msc","network_id",ut ime(PORTCAPACITYPERF.DA Y & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
MGW_Slot_ Name	A user friendly name preferably unique for the MSC			PORTCAPACITYPERF.NODE_ ID & "/" & WMGNODEID & "-" & SLOTID	
MGW_Slot_ Version	Hardware/Software version of the MGW Slot			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.16 MGW details

In the network hierarchy, the immediate parent of the MGW object is Region.

This object is used for Data Availability tracking

Attribute Name	Description	Read - Only ?	Time- Track ed?	Mapping	Aggrega tor
Primary Identifier					
MGW_Id	A unique identifier for the MGW.	Y		CALLEGCPPERF.NODE_ID & "/" & WMGNODENUM	
Relationship Attributes					
Network_Id	Network associated with	Y	Y	lookup("nc_msc","network_id",u	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	the MGW.			time(CALLEGCPPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Region_Id	Region associated with the MGW.	Y	Y	lookup("nc_msc","region_id",time(CALLEGCPPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
MGW_Name	A user friendly name preferably unique for the MGW.			CALLEGCPPERF.NODE_ID & "/" & WMGNODENUM	
MGW_Type	Type of MGW.			"Populated by customer"	
MGW_Version	Hardware/Software version of the MGW.			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.17 MSC details

In the network hierarchy, the immediate parent of the MSC object is Region.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggregator
Primary Identifier					
MSC_Id	A unique identifier for the MSC.	Y		SUMMARYPERF.NODE_ID	
Relationship Attributes					
Region_Id	Region associated with the MSC.	Y	Y	SUMMARYPERF.REGION_ID	
Network_Id	Network associated with the MSC.	Y	Y	SUMMARYPERF.NETWORK_ID	
Configuration Attributes					

MSC_Name	A user friendly name preferably unique for the MSC.			SUMMARYPERF.NODE_ID	
MSC_Version	Hardware/Software version of the MSC.			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
MSC_Type	Type of MSC.			"Populated by customer"	

5.18 Network details

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
Network_Id	A unique identifier for the Network.	Y		SUMMARYPERF.NETWORK_ID	
Configuration Attributes					
Network_Name	A user friendly name preferably unique for the Network.			SUMMARYPERF.NETWORK_ID	
Network_Type	Type of Network (e.g. GSM-900, GSM-1800 or GSM-1900).			"Populated by customer"	
Default_Link_Speed	The default speed of SS7 Signalling Links in this network.			No mapping	

5.19 Peer_Server_Process details

In the network hierarchy, the immediate parent of the Peer_Server_Process object is WSS_Node.

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
Peer_Server_Process_Id	A unique identifier for the Peer Server Process	Y		SYSM3UAPSPPERF.NODE_ID & "/" & WSSNODENUM & "-" & PSPID	
Relationship Attributes					
WSS_Node_Id	WSS Node associated with the Peer Server Process	Y	Y	SYSM3UAPSPPERF.NODE_ID & "/" & WSSNODENUM	
MSC_Id	MSC associated with the Peer Server Process	Y	Y	SYSM3UAPSPPERF.NODE_ID	
Region_Id	Region associated with the Peer Server Process	Y	Y	lookup("nc_msc","region_id",utime(SYSM3UAPSPPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the Peer Server Process	Y	Y	lookup("nc_msc","network_id",u time(SYSM3UAPSPPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
Peer_Server_Process_Name	A user friendly name preferably unique for the Peer Server Process			SYSM3UAPSPPERF.NODE_ID & "/" & WSSNODENUM & "-" & PSPID	
Peer_Server_Process_Version	Hardware/Software version of the Peer Server Process			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.20 Region details

In the network hierarchy, the immediate parent of the Region object is Network.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
Region_Id	Region associated with the network object.	Y		SUMMARYPERF.REGION_ID	
Relationship Attributes					
Network_Id	Network associated with the Region.	Y	Y	SUMMARYPERF.NETWORK_I D	
Configuration Attributes					
Region_Nam e	A user friendly name preferably unique for the Region.			SUMMARYPERF.REGION_ID	

5.21 RNC details

In the network hierarchy, the immediate parent of the RNC object is SGSN.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
RNC_Id	A unique identifier for the RNC.	Y		RANAPMSGPER.NODE_ID & "/" & WSSNODENUM & "-" & RNCID	
Relationship Attributes					
MSC_Id	The MSC to which this RNC is connected.	Y	Y	RANAPMSGPER.NODE_ID	
Region_Id	Region associated with the RNC.	Y	Y	lookup("nc_msc","region_id",utime(RANAPMSGPER.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD,	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

				NODE_ID)	
Network_Id	Network associated with the RNC.	Y	Y	lookup("nc_msc","network_id",utime(RANAPMSGPER.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
SGSN_Id	A unique identifier for the SGSN.	Y	Y	No mapping	
MGW_Id	Identifier of the Media Gateway.	Y	Y	No mapping	
Configuration Attributes					
RNC_Name	A user friendly name preferably unique for the RNC.			RANAPMSGPER.NODE_ID & "/" & WSSNODENUM & "-" & RNCID	
RNC_Version	Hardware/Software version of the RNC.			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.22 Rte details

In the network hierarchy, the immediate parent of the Rte object is MSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
Route_Id	A unique identifier for the Route	Y		SYSROUTEPERF.NODE_ID & "/" & ROUTEINDEX	
Relationship Attributes					
MSC_Id	MSC associated with the Route	Y	Y	SYSROUTEPERF.NODE_ID	
Region_Id	Region associated with the Route	Y	Y	lookup("nc_msc","region_id",utime(SYSROUTEPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD,	

				NODE_ID)	
Network_Id	Network associated with the Route	Y	Y	lookup("nc_msc","network_id",u time(SYSROUTEPERFDAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
Route_Name	A user friendly name preferably unique for the Route			SYSROUTEPERF.NODE_ID & "/" & ROUTEINDEX	
Route_Version	Hardware/Software version of the Route			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.23 SCT_SAP details

In the network hierarchy, the immediate parent of the SCT_SAP object is Peer_Server_Process.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
SCT_SAP_Id	A unique identifier for the SCT SAP	Y		SYSM3UAPSPPERF.NODE_ID & "/" & WSSNODENUM & "-" & PSPID & "-" & SCTSAPID	
Relationship Attributes					
Peer_Server_Process_Id	Peer Server Process associated with the SCT SAP	Y	Y	SYSM3UAPSPPERF.NODE_ID & "/" & WSSNODENUM & "-" & PSPID	
WSS_Node_Id	WSS Node associated with the SCT SAP	Y	Y	SYSM3UAPSPPERF.NODE_ID & "/" & WSSNODENUM	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

MSC_Id	MSC associated with the SCT SAP	Y	Y	SYSM3UAPSPPERF.NODE_ID	
Region_Id	Region associated with the SCT SAP	Y	Y	lookup("nc_msc","region_id",utime(SYSM3UAPSPPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the SCT SAP	Y	Y	lookup("nc_msc","network_id",utime(SYSM3UAPSPPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
SCT_SAP_Name	A user friendly name preferably unique for the SCT SAP			SYSM3UAPSPPERF.NODE_ID & "/" & WSSNODENUM & "-" & PSPID & "-" & SCTSAPID	
SCT_SAP_Version	Hardware/Software version of the SCT SAP			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.24 Service details

In the network hierarchy, the immediate parents of the Service object are: LAC, MSC, RCP and PBX.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggregator
Primary Identifier					
Service_Id	A unique identifier for Service.	Y		CAPPERF.NODE_ID & "/" & WSSNODENUM & "-" & SERVICEKEY or INAPGWYPERF.NODE_ID & "/" & WSSNODENUM & "-" & SERVICEKEY	
Relationship Attributes					

LAC_Id	A unique identifier for the Location Area.	Y	Y	No mapping	
MSC_Id	A unique identifier for the MSC.	Y	Y	CAPPERF.NODE_ID	
RCP_Id	A unique identifier for the RCP.	Y	Y	No mapping	
PBX_Id	A unique identifier for the PBX.	Y	Y	No mapping	
Region_Id	Region associated with the provisioned Service.	Y	Y	lookup("nc_msc","region_id",utime(CAPPERF.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the provisioned Service.	Y	Y	lookup("nc_msc","network_id",utime(CAPPERF.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
Service_Name	A user friendly name preferably unique for the Service.			CAPPERF.NODE_ID & "/" & WSSNODENUM & "-" & SERVICEKEY or INAPGWYPERF.NODE_ID & "/" & WSSNODENUM & "-" & SERVICEKEY	
Node_Id	The Node that is supporting this Service.			No mapping	
Node_Name	A user friendly name for the Node that is supporting this Service.			No mapping	
Node_Type	The type of Node that is supporting this Service.			No mapping	
Operating_Mode	The operating mode of this service (i.e. outgoing, incoming, bothways, mixed etc).			No mapping	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Directory_Number	Extension number of the calling party which is reported by this Service.			No mapping	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
Version	Hardware/Software version of the equipment/element that is supporting this Service.			"R3.2.30"	

5.25 Signalling_LinkSet details

In the network hierarchy, the immediate parent of the Signalling_LinkSet object is Signalling_Point.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
SS7_LinkSet_Id	A unique identifier for the SS7 LinkSet.	Y		SYSMTP3LINKSETPERF.NODE_ID & "/" & WSSNODENUM & "-" & LNKSETID or SUMMARYPERF_LS.NODE_ID & "/" & LINKSET_NAME	
Relationship Attributes					
SS7_Point_Id	The SS7 Point to which this SS7 LinkSet is connected to (at this end).	Y	Y	No mapping	
Network_Id	Network associated with the SS7 LinkSet.	Y	Y	lookup("nc_msc","network_id",utime(SYSMTP3LINKSETPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID) or lookup("nc_msc","network_id",utime(SUMMARYPERF_LS.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	

Region_Id	Region associated with the SS7 LinkSet.	Y	Y	lookup("nc_msc","region_id",utime(SYSMTP3LINKSETPERF.DAY & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID) or lookup("nc_msc","region_id",utime(SUMMARYPERF_LS.DAY & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
SS7_LinkSet_Name	A user friendly name preferably unique for the SS7 LinkSet.			SYSMTP3LINKSETPERF.NODE_ID & "/" & WSSNODENUM & "-" & LNKSETID or SUMMARYPERF_LS.NODE_ID & "/" & LINKSET_NAME	
Node_Id	The Node (MSC or HLR) that this SS7 LinkSet is connected to (at this end).			SYSMTP3LINKSETPERF.NODE_ID & "/" & WSSNODENUM or SUMMARYPERF_LS.NODE_ID	
Node_Name	Name of the node that this SS7 LinkSet is connected to (at this end).			SYSMTP3LINKSETPERF.NODE_ID & "/" & WSSNODENUM or SUMMARYPERF_LS.NODE_ID	
Data_Rate	The total of all the individual SS7 Link speeds (aggregated over all SS7 Links in the SS7 LinkSet) in bits per second (bit/s).			No mapping	
Designed_Link_Failures	The number of SS7 Link failures permitted on the SS7 LinkSet while still keeping the SS7 LinkSet up to its designed capacity.			No mapping	
Node_Type	The type of the network			No mapping	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	element that the SS7 LinkSet is connected to (at this end).				
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			SYSMTP3LINKSETPERF."GSM" or SUMMARYPERF_LS."GSM"	
Adjacent_Node_Id	The Adjacent Node that this SS7 LinkSet is connected from (at the other end).			No mapping	

5.26 Signalling_Link details

In the network hierarchy, the immediate parent of the Signalling_Link object is Signalling_LinkSet.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
SS7_Link_Id	A unique identifier for the SS7 Link.	Y		SYSMTP2LINKPERF.NODE_ID & "/" & WSSNODENUM & "-" & GATEWAYNO & "-" & LNKID or SYSMTP3LINKPERF.NODE_ID & "/" & WSSNODENUM & "-" & GATEWAYNO & "-" & LNKID	
Relationship Attributes					
SS7_LinkSet_Id	The Node (MSC or HLR) that this SS7 Link is connected to (at this end).	Y	Y	No mapping	
SS7_Point_Id	A unique identifier for the SS7 Point.	Y	Y	No mapping	
Region_Id	Region associated with the SS7 Link.	Y	Y	lookup("nc_msc","region_id",utime(SYSMTP2LINKPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	

Network_Id	Network associated with the SS7 Link.	Y	Y	lookup("nc_msc","network_id",utime(SYSMTP2LINKPERF.DAY & " " & ENDTIME,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
SS7_Link_Name	A user friendly name preferably unique for the SS7 Link.			SYSMTP2LINKPERF.NODE_ID & "/" & WSSNODENUM & "-" & GATEWAYNO & "-" & LNKID or SYSMTP3LINKPERF.NODE_ID & "/" & WSSNODENUM & "-" & GATEWAYNO & "-" & LNKID	
Node_Name	The name for the network element that the SS7 Link is connected to (at this end).			SYSMTP2LINKPERF.NODE_ID & "/" & WSSNODENUM or SYSMTP3LINKPERF.NODE_ID & "/" & WSSNODENUM	
Node_Id	The Node (MSC or HLR) that this SS7 Link is connected to (at this end).			SYSMTP2LINKPERF.NODE_ID & "/" & WSSNODENUM or SYSMTP3LINKPERF.NODE_ID & "/" & WSSNODENUM	
Data_Rate	The SS7 Link speed in bits per second (bit/s).			No mapping	
Node_Type	The type of the network element that the SS7 Link is connected to at this end.			No mapping	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
Adjacent_Node_Id	The Adjacent Node that this SS7 Link is connected from (at the other end).			No mapping	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

5.27 SMIM details

In the network hierarchy, the immediate parent of the SMIM object is IWF.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
SMIM_Id	A unique identifier for the SMIM	Y		SYSIWFSMIMPERF.NODE_ID & "/" & NODEID & "-" & SMIMID	
Relationship Attributes					
IWF_Id	Inter-Working Function associated with the SMIM	Y	Y	SYSIWFSMIMPERF.NODE_ID & "/" & NODEID	
MSC_Id	MSC associated with the SMIM	Y	Y	SYSIWFSMIMPERF.NODE_ID	
Region_Id	Region associated with the SMIM	Y	Y	lookup("nc_msc","region_id",utime(SYSIWFSMIMPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the SMIM	Y	Y	lookup("nc_msc","network_id",u time(SYSIWFSMIMPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
SMIM_Name	A user friendly name preferably unique for the SMIM			SYSIWFSMIMPERF.NODE_ID & "/" & NODEID & "-" & SMIMID	
SMIM_Versi on	Hardware/Software version of the SMIM			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

5.28 Traffic_Dest details

In the network hierarchy, the immediate parent of the Traffic_Dest object is WSS_Node.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
Traffic_Dest_Id	A unique identifier for the Traffic Destination	Y		TDCPERF.NODE_ID & "/" & WSSNODENUM & "-" & TDCID	
Relationship Attributes					
WSS_Node_Id	WSS Node associated with the Traffic Destination	Y	Y	TDCPERF.NODE_ID & "/" & WSSNODENUM	
MSC_Id	MSC associated with the Traffic Destination	Y	Y	TDCPERF.NODE_ID	
Region_Id	Region associated with the Traffic Destination	Y	Y	lookup("nc_msc","region_id",utime(TDCPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the Traffic Destination	Y	Y	lookup("nc_msc","network_id",utime(TDCPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
Traffic_Dest_Name	A user friendly name preferably unique for the Traffic Destination			TDCPERF.NODE_ID & "/" & WSSNODENUM & "-" & TDCID	
Traffic_Dest_Version	Hardware/Software version of the Traffic Destination			"R3.2.30"	
Technology	Technology of the network/element (e.g.			"GSM"	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	GSM, GPRS, UMTS).				
--	-------------------	--	--	--	--

5.29 Trunk_Group details

In the network hierarchy, the immediate parent of the Trunk_Group object is Region.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
Trunk_Group_Id	The unique identifier of the Trunk Group	Y		SYSGRPPERF.NODE_ID & "/" & WMGNODENUM & "-" & SYSGRPNUM or CNVOIPPERF.NODE_ID & "/" & WMGNODEID & "-" & TRUNKGROUP & "-" & TRUNKTYPE or SUMMARYPERF_TG.NODE_ID & "/" & TRUNK_GROUP_NAME or TRKGRPWMGICONPERF.NODE_ID & "/" & WMGID & "-" & SYSGRPNUM	
Relationship Attributes					
Region_Id	The Region associated with the Trunk Group / Node	Y	Y	lookup("nc_msc","region_id",utime(SYSGRPPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID) or lookup("nc_msc","region_id",utime(CNVOIPPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID) or lookup("nc_msc","region_id",utime(SUMMARYPERF_TG.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID) or lookup("nc_msc","region_id",utime(TRKGRPWMGICONPERF.DAY & " " & ENDTIME ,"%d %b %Y %R") - GRANPERIOD, NODE_ID)	

Network_Id	Network associated with the Trunk Group / Node	Y	Y	lookup("nc_msc","network_id",utime(SYSGRPPERF.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID) or lookup("nc_msc","network_id",utime(CNVOIPPERF.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID) or lookup("nc_msc","network_id",utime(SUMMARYPERF_TG.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID) or lookup("nc_msc","network_id",utime(TRKGRPWMGICONPERF.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID)	
MSC_Id	Identifier of the MSC associated with the TG	Y	Y	SYSGRPPERF.NODE_ID or CNVOIPPERF.NODE_ID or SUMMARYPERF_TG.NODE_ID or TRKGRPWMGICONPERF.NODE_ID	
Configuration Attributes					
Trunk_Group_Name	The user friendly name of the Trunk Group		Y	SYSGRPPERF.NODE_ID & "/" & WMGNODENUM & "-" & SYSGRPNUM or CNVOIPPERF.NODE_ID & "/" & WMGNODEID & "-" & TRUNKGROUP & "-" & TRUNKTYPE or SUMMARYPERF_TG.NODE_ID & "/" & TRUNK_GROUP_NAME or TRKGRPWMGICONPERF.NODE_ID & "/" & WMGID & "-" & SYSGRPNUM	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Node_Id	The identifier of the Node associated with the Trunk Group (e.g. MSC)	Y	Y	No mapping	
Node_Type	The type of the Node associated with the Trunk Group (e.g. MSC, BSC).	Y	Y	No mapping	
Node_Name	The name of the Node associated with the Trunk Group.		Y	No mapping	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).		Y	SYSGRPPERF."GSM" or CNVOIPPERF."GSM" or SUMMARYPERF_TG."GSM" or TRKGRPWMGICONPERF."GSM"	

5.30 WSS_Node details

In the network hierarchy, the immediate parent of the WSS_Node object is MSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
Primary Identifier					
WSS_Node_Id	A unique identifier for the Wireless Soft Switch Node	Y		CALLPERF.NODE_ID & "/" & WSSNODENUM or ALCAPMSGPERF.NODE_ID & "/" & WSSNODENUM or BSSAPSMSPERF.NODE_ID & "/" & WSSNODENUM or CALLPERF2.NODE_ID & "/" & WSSNODENUM or CALLTOTALTIMEPERF.NODE_ID & "/" & WSSNODENUM or CAPMSGPERF.NODE_ID & "/" & WSSNODENUM or CISSPERF.NODE_ID & "/" & WSSNODENUM or CUGPERF.NODE_ID & "/" & WSSNODENUM or	

				EMERGENCYCALLPERF.NODE_ID & "/" & WSSNODENUM or GSPERF.NODE_ID & "/" & WSSNODENUM or INAPMSGPERF.NODE_ID & "/" & WSSNODENUM or IS41MSGPERF.NODE_ID & "/" & WSSNODENUM or IS41PERF.NODE_ID & "/" & WSSNODENUM or MAP1PERF.NODE_ID & "/" & WSSNODENUM or MAPCISSMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPLCSMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPPERF.NODE_ID & "/" & WSSNODENUM or MAPSMSMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPSPMMSGPERF.NODE_ID & "/" & WSSNODENUM or MOOVLDPERF.NODE_ID & "/" & WSSNODENUM or PRIORITYCALLPERF.NODE_ID & "/" & WSSNODENUM or RANAPPERF.NODE_ID & "/" & WSSNODENUM or SYSSCCPPERF.NODE_ID & "/" & WSSNODENUM or SYSSCCPRELAYPERF.NODE_ID & "/" & WSSNODENUM or SYSSCTPIPPERF.NODE_ID & "/" & WSSNODENUM or SYSTUPPERF.NODE_ID & "/" & WSSNODENUM or WSSDISKPERF.NODE_ID & "/" & WSSNODENUM or WSSPERF.NODE_ID & "/" &	
--	--	--	--	--	--

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

				WSSNODENUM	
Relationship Attributes					
MSC_Id	MSC associated with the Wireless Softswitch Node	Y	Y	CALLPERF.NODE_ID	
Region_Id	Region associated with the Wireless Softswitch Node	Y	Y	lookup("nc_msc","region_id",utime(CALLPERF.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Network_Id	Network associated with the Wireless Softswitch Node	Y	Y	lookup("nc_msc","network_id",utime(CALLPERF.DAY & " " & ENDTIME, "%d %b %Y %R") - GRANPERIOD, NODE_ID)	
Configuration Attributes					
WSS_Node_Name	A user friendly name preferably unique for the Wireless Softswitch Node			CALLPERF.NODE_ID & "/" & WSSNODENUM or ALCAPMSGPERF.NODE_ID & "/" & WSSNODENUM or BSSAPSMSPERF.NODE_ID & "/" & WSSNODENUM or CALLPERF2.NODE_ID & "/" & WSSNODENUM or CALLTOTALTIMEPERF.NODE_ID & "/" & WSSNODENUM or CAPMSGPERF.NODE_ID & "/" & WSSNODENUM or CISSPERF.NODE_ID & "/" & WSSNODENUM or CUGPERF.NODE_ID & "/" & WSSNODENUM or EMERGENCYCALLPERF.NODE_ID & "/" & WSSNODENUM or GSPERF.NODE_ID & "/" & WSSNODENUM or INAPMSGPERF.NODE_ID & "/" & WSSNODENUM or IS41MSGPERF.NODE_ID & "/" & WSSNODENUM or IS41PERF.NODE_ID & "/" & WSSNODENUM or MAP1PERF.NODE_ID & "/" & WSSNODENUM or	

				MAPCISSMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPLCSMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPMMMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPPERF.NODE_ID & "/" & WSSNODENUM or MAPSMSMSGPERF.NODE_ID & "/" & WSSNODENUM or MAPSPMMSGPERF.NODE_ID & "/" & WSSNODENUM or MOOVLDPERF.NODE_ID & "/" & WSSNODENUM or PRIORITYCALLPERF.NODE_I D & "/" & WSSNODENUM or RANAPPERF.NODE_ID & "/" & WSSNODENUM or SYSSCCPPERF.NODE_ID & "/" & WSSNODENUM or SYSSCCPRELAYPERF.NODE_I D & "/" & WSSNODENUM or SYSSCTPIPPERF.NODE_ID & "/" & WSSNODENUM or SYSTUPPERF.NODE_ID & "/" & WSSNODENUM or WSSDISKPERF.NODE_ID & "/" & WSSNODENUM or WSSPERF.NODE_ID & "/" & WSSNODENUM	
WSS_Node_ Version	Hardware/Software version of the Wireless Softswitch Node			"R3.2.30"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

6 Busy Hours

This section lists the busy hours which are defined for the technology pack module.

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

Object	Busy Hour	Defining KPI	Acronym
Traffic_Dest	Alcatel_Traffic_Dest_Call_Traffic_Busy_Hour	Traffic_Dest.Alcatel_Lucent.Traffic_Destination_Code_Performance.ANSWCALLTIMEVCCAL	altdctbh
WSS_Node	Alcatel_WSS_Node_Originating_Traffic_Busy_Hour	WSS_Node.Alcatel_Lucent.Call_Control2_Performance.TOTALCALLANSTIMECAMORIGVCCAL	alwnotbh
WSS_Node	Alcatel_WSS_Node_Terminating_Traffic_Busy_Hour	WSS_Node.Alcatel_Lucent.Call_Control2_Performance.TOTALCALLANSTIMECAMTERVCCAL	alwnttbh
WSS_Node	Alcatel_WSS_Node_Call_Traffic_Busy_Hour	WSS_Node.Alcatel_Lucent.Call_Control2_Performance.TOTALCALLANSTIMECAMVCCAL	alwnctbh

7 Performance Indicators

This section describes 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:

- [ATM_Card performance indicators.](#)
- [ATM_If performance indicators.](#)
- [Call_Cause performance indicators.](#)
- [DPC performance indicators.](#)
- [DSP_PI performance indicators.](#)
- [Emergency_Services_Zone performance indicators.](#)
- [HLR performance indicators.](#)
- [IPM_MGW performance indicators.](#)
- [IWF performance indicators.](#)
- [LAC performance indicators.](#)
- [MGW_CPU performance indicators.](#)
- [MGW_Interconnect performance indicators.](#)
- [MGW_Relation performance indicators.](#)
- [MSC performance indicators.](#)
- [RNC performance indicators.](#)
- [Rte performance indicators.](#)
- [SCT_SAP performance indicators.](#)
- [Service performance indicators.](#)
- [Signalling_Link performance indicators.](#)
- [Signalling_LinkSet performance indicators.](#)
- [SMIM performance indicators.](#)
- [Traffic_Dest performance indicators.](#)
- [Trunk_Group performance indicators.](#)
- [WSS_Node performance indicators.](#)

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

7.1 ATM_Card Performance Indicators

This section shows the key performance indicators and other counters for the ATM_Card object, divided into the following sub-sections:

- [ATM_Card.Alcatel_Lucent.GSM.WMG_Port_Capacity_Performance](#)

7.1.1 ATM_Card.Alcatel_Lucent.GSM.WMG_Port_Capacity_Performance

WMG Port Capacity Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CARDSTATUS	ACCUMULATION	INTEGER	The status of the card whether locked or unlocked.	PORTCAPACITYPERF.CARDSTATUS	Null	
CARDTYPE	ACCUMULATION	INTEGER	WMG Card Type (TDM Channel Interface, or ATM).	PORTCAPACITYPERF.CARDTYPE	Null	
PORTCAPACITY	INTENSITY	INTEGER	Number of ports available in the slot or card i.e. Port capacity of the card.	PORTCAPACITYPERF.PORTCAPACITY	Average	Average, Maximum, Minimum, Sum

7.2 ATM_If Performance Indicators

This section shows the key performance indicators and other counters for the ATM_If object, divided into the following sub-sections:

- [ATM_If.Alcatel_Lucent.GSM.ATM_Interface_Performance](#)
- [ATM_If.Alcatel_Lucent.GSM.ATM_VCL_Interface_Performance](#)

7.2.1 ATM_If.Alcatel_Lucent.GSM.ATM_Interface_Performance

ATM Interface Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CLP0CELLINS	ACCUMULATION	INTEGER	The number of valid ATM cells received with CLP=0 by this interface for this service category. The cells are counted prior to the application of the traffic policing.	ATMIFPERF.CLP0CELLINS	Sum	Sum
CLP0CELLOUTS	ACCUMULATION	INTEGER	The total number of valid ATM cells transmitted with CLP=0 by this interface for this	ATMIFPERF.CLP0CELLOUTS	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			service category.			
CLP0DISCARDS	ACCUMULATION	INTEGER	The total number of valid ATM cells received with CLP=0 by this interface for this service category and discarded by the traffic policing entity.	ATMIFPERF.CLP0DISCARDS	Sum	Sum
TIMEELAPSED	ACCUMULATION	INTEGER	The number of seconds since these counters were reset.	ATMIFPERF.TIMEELAPSED	Sum	Sum
TOTALCELLINS	ACCUMULATION	INTEGER	The total number of valid ATM cells received by this interface for this service category (including both CLP=0 & 1 cells). The cells are counted prior to the	ATMIFPERF.TOTALCELLINS	Sum	Sum

			application of the traffic policing.			
TOTALCELLOUTS	ACCUMULATION	INTEGER	The total number of valid ATM cells transmitted by this interface for this service category. This includes both CLP=0 and CLP=1 cells.	ATMIFPERF.TOTALCELLOUTS	Sum	Sum
TOTALDISCARDS	ACCUMULATION	INTEGER	The total number of valid ATM cells received by this interface for this service category and discarded by the traffic policing entity. This includes both	ATMIFPERF.TOTALDISCARDS	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			CLP=0 and CLP=1 cells			
--	--	--	--------------------------------	--	--	--

7.2.2 ATM_If.Alcatel_Lucent.GSM.ATM_VCL_Interface_Performance

ATM VCL Interface Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CLP0CELLINS	ACCUMULATION	INTEGER	The number of valid ATM cells received with CLP=0 by this VCL. The cells are counted prior to the application of the traffic policing.	ATMVCLIFPERF.CLP0CELLINS	Sum	Sum
CLP0CELLOUTS	ACCUMULATION	INTEGER	The total number of valid ATM cells transmitted with CLP=0 by this interface.	ATMVCLIFPERF.CLP0CELLOUTS	Sum	Sum
CLP0DISCARDS	ACCUMULATION	INTEGER	The total number	ATMVCLIFPERF.CLP0DISCARDS	Sum	Sum

			of valid ATM cells received with CLP=0 and discarded by the traffic policing entity.			
TAGGEDOUTS	ACCUMULATION	INTEGER	The total number of valid ATM cells tagged by the traffic policing entity from CLP=0 to CLP=1 and transmitted by this VCL.	ATMVCLIFPERF.TAGGEDOUTS	Sum	Sum
TOTALCELLINS	ACCUMULATION	INTEGER	The total number of valid ATM cells received by this VCL for this	ATMVCLIFPERF.TOTALCELLINS	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			service category (including both CLP=0 & 1 cells). The cells are counted prior to the application of the traffic policing.			
TOTALCELL OUTS	ACCUMULA TION	INTE GER	The total number of valid ATM cells transmitted by this VCL. This includes both CLP=0 and CLP=1 cells.	ATMVCLIFPERF.TOTAL CELLOUTS	Sum	Sum
TOTALDISC ARDS	ACCUMULA TION	INTE GER	The total number of valid ATM cells received by the traffic policing entity. This includes both	ATMVCLIFPERF.TOTAL DISCARDS	Sum	Sum

			CLP=0 and CLP=1 cells			
--	--	--	--------------------------------	--	--	--

7.3 Call_Cause Performance Indicators

This section shows the key performance indicators and other counters for the Call_Cause object, divided into the following sub-sections:

- [Call_Cause.Alcatel_Lucent.GSM.Call_Disposition_Performance](#)

7.3.1 Call_Cause.Alcatel_Lucent.GSM.Call_Disposition_Performance

Call Disposition Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ENDOFCALLCATEGORY	INTENSITY	INTEGER	Not used.	ENDOFCALLPERF.ENDOFCALLCATEGORY	Average	Average, Maximum, Minimum, Sum
ENDOFCALLCAUSEVALUE	ACCUMULATION	INTEGER	Internal Call Disposition Code or Cause Code to end a call.	ENDOFCALLPERF.ENDOFCALLCAUSEVALUE	Null	
ENDOFCALLCOUNTER	ACCUMULATION	INTEGER	Number of occurrences	ENDOFCALLPERF.ENDOFCALLCOUNTER	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ences of a particular Call Disposition Code.			
ENDOFCALLSTATE	ACCUMULATION	INTEGER	Values of Answer or After Answer	ENDOFCALLPERF.ENDOFALLCALLSTATE	Sum	Sum

7.4 DPC Performance Indicators

This section shows the key performance indicators and other counters for the DPC object, divided into the following sub-sections:

- [DPC.Alcatel_Lucent.GSM.BICC_DPC_Performance](#)
- [DPC.Alcatel_Lucent.GSM.Call_Mobility_BSSAP_Performance](#)
- [DPC.Alcatel_Lucent.GSM.Circuit_System_BSSAP_Performance](#)
- [DPC.Alcatel_Lucent.GSM.ISUP_DPC_Performance](#)
- [DPC.Alcatel_Lucent.GSM.ISUP_Network_Overload_Control](#)
- [DPC.Alcatel_Lucent.GSM.M3UA_Route_Performance](#)
- [DPC.Alcatel_Lucent.GSM.MTP3_Route_Performance](#)

7.4.1 DPC.Alcatel_Lucent.GSM.BICC_DPC_Performance

DPC BICC Performance

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BICCPFMACMRX	ACCUMULATION	INTEGER	Number of Address Complete messages received.	SYSBICCDPCPERF.BICCPFMACMRX	Sum	Sum
BICCPFMACMTX	ACCUMULATION	INTEGER	Number of Address	SYSBICCDPCPERF.BICCPFMACMTX	Sum	Sum

			Complete messages transmitted.			
BICCPFMANMRX	ACCUMULATION	INTEGER	Number of Answer messages received.	SYSBICCDPCPERF.BICCPFMANMRX	Sum	Sum
BICCPFMANMTX	ACCUMULATION	INTEGER	Number of Answer messages transmitted.	SYSBICCDPCPERF.BICCPFMANMTX	Sum	Sum
BICCPFMAPMRX	ACCUMULATION	INTEGER	Number of Application Transport Mechanism (APM) messages received.	SYSBICCDPCPERF.BICCPFMAPMRX	Sum	Sum
BICCPFMAPMTX	ACCUMULATION	INTEGER	Number of Application Transport Mechanism (APM) messages transmitted.	SYSBICCDPCPERF.BICCPFMAPMTX	Sum	Sum
BICCPFMBLARX	ACCUMULATION	INTEGER	Number of Blocking Acknowledgement messages received.	SYSBICCDPCPERF.BICCPFMBLARX	Sum	Sum
BICCPFMBLATX	ACCUMULATION	INTEGER	Number of Blocking Acknowledgement messages transmitted.	SYSBICCDPCPERF.BICCPFMBLATX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

BICCPFMBLORX	ACCUMULATION	INTEGER	Number of Blocking messages received.	SYSBICCDPCPERF.BICCPFMBLORX	Sum	Sum
BICCPFMBLOTX	ACCUMULATION	INTEGER	Number of Blocking messages transmitted.	SYSBICCDPCPERF.BICCPFMBLOTX	Sum	Sum
BICCPFMCCRRX	ACCUMULATION	INTEGER	Number of Continuity Check Request messages received.	SYSBICCDPCPERF.BICCPFMCCRRX	Sum	Sum
BICCPFMCCRTX	ACCUMULATION	INTEGER	Number of Continuity Check Request messages transmitted.	SYSBICCDPCPERF.BICCPFMCCRTX	Sum	Sum
BICCPFMCFNRX	ACCUMULATION	INTEGER	Number of Confusion messages received.	SYSBICCDPCPERF.BICCPFMCFNRX	Sum	Sum
BICCPFMCFNTX	ACCUMULATION	INTEGER	Number of Confusion messages transmitted.	SYSBICCDPCPERF.BICCPFMCFNTX	Sum	Sum
BICCPFMCGBARX	ACCUMULATION	INTEGER	Number of Circuit Group Blocking Acknowledgement messages received.	SYSBICCDPCPERF.BICCPFMCGBARX	Sum	Sum
BICCPFMCGBATX	ACCUMULATION	INTEGER	Number of Circuit Group Blocking Acknowled	SYSBICCDPCPERF.BICCPFMCGBATX	Sum	Sum

			gement messages transmitted.			
BICCPFMCG BRX	ACCUMUL ATION	INTE GER	Number of Circuit Group Blocking messages received.	SYSBICCDPCPERF.BICCP FMCGBRX	Sum	Sum
BICCPFMCG BTX	ACCUMUL ATION	INTE GER	Number of Circuit Group Blocking messages transmitted.	SYSBICCDPCPERF.BICCP FMCGBTX	Sum	Sum
BICCPFMCG UARX	ACCUMUL ATION	INTE GER	Number of Circuit Group Unblocking Acknowl gement messages received.	SYSBICCDPCPERF.BICCP FMCGUARX	Sum	Sum
BICCPFMCG UATX	ACCUMUL ATION	INTE GER	Number of Circuit Group Unblocking Acknowl gement messages transmitted.	SYSBICCDPCPERF.BICCP FMCGUATX	Sum	Sum
BICCPFMCG URX	ACCUMUL ATION	INTE GER	Number of Circuit Group Unblocking messages received.	SYSBICCDPCPERF.BICCP FMCGURX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

BICCPFMCG UTX	ACCUMUL ATION	INTE GER	Number of Circuit Group Unblocking messages transmitted.	SYSBICCDPCPERF.BICCP FMCGUTX	Sum	Sum
BICCPFMCO NRX	ACCUMUL ATION	INTE GER	Number of Connect messages received.	SYSBICCDPCPERF.BICCP FMCONRX	Sum	Sum
BICCPFMCO NTX	ACCUMUL ATION	INTE GER	Number of Connect messages transmitted.	SYSBICCDPCPERF.BICCP FMCONTX	Sum	Sum
BICCPFMCO TRX	ACCUMUL ATION	INTE GER	Number of Continuity messages received.	SYSBICCDPCPERF.BICCP FMCOTRX	Sum	Sum
BICCPFMCO TTX	ACCUMUL ATION	INTE GER	Number of Continuity messages transmitted.	SYSBICCDPCPERF.BICCP FMCOTTX	Sum	Sum
BICCPFMCP GRX	ACCUMUL ATION	INTE GER	Number of Call Progress messages received.	SYSBICCDPCPERF.BICCP FMCPGRX	Sum	Sum
BICCPFMCP GTX	ACCUMUL ATION	INTE GER	Number of Call Progress messages transmitted.	SYSBICCDPCPERF.BICCP FMCPGTX	Sum	Sum
BICCPFMCP MRX	ACCUMUL ATION	INTE GER	Number of Circuit Query messages received.	SYSBICCDPCPERF.BICCP FMCQMRX	Sum	Sum
BICCPFMCP MTX	ACCUMUL ATION	INTE GER	Number of Circuit Query messages	SYSBICCDPCPERF.BICCP FMCQMTX	Sum	Sum

			transmitted.			
BICCPFMCQRRX	ACCUMULATION	INTEGER	Number of Circuit Query Acknowledgement messages received.	SYSBICCDPCPERF.BICCPFMCQRRX	Sum	Sum
BICCPFMCQRTX	ACCUMULATION	INTEGER	Number of Circuit Query Acknowledgement messages transmitted.	SYSBICCDPCPERF.BICCPFMCQRTX	Sum	Sum
BICCPFMCRARX	ACCUMULATION	INTEGER	Number of Circuit Reservation Acknowledgement messages received.	SYSBICCDPCPERF.BICCPFMCRARX	Sum	Sum
BICCPFMCRATX	ACCUMULATION	INTEGER	Number of Circuit Reservation Acknowledgement messages transmitted.	SYSBICCDPCPERF.BICCPFMCRATX	Sum	Sum
BICCPFMCRGRX	ACCUMULATION	INTEGER	Number of Charging messages received.	SYSBICCDPCPERF.BICCPFMCRGRX	Sum	Sum
BICCPFMCRGTX	ACCUMULATION	INTEGER	Number of Charging messages transmitted.	SYSBICCDPCPERF.BICCPFMCRGTX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

BICCPFMCRM RX	ACCUMULATION	INTEGER	Number of Circuit Reservation messages received.	SYSBICCDPCPERF.BICCPFMCRM RX	Sum	Sum
BICCPFMCRM TX	ACCUMULATION	INTEGER	Number of Circuit Reservation messages transmitted.	SYSBICCDPCPERF.BICCPFMCRM TX	Sum	Sum
BICCPFMCVRRX	ACCUMULATION	INTEGER	Number of Circuit Validation Response messages received.	SYSBICCDPCPERF.BICCPFMCVRRX	Sum	Sum
BICCPFMCVRTX	ACCUMULATION	INTEGER	Number of Circuit Validation Response messages transmitted.	SYSBICCDPCPERF.BICCPFMCVRTX	Sum	Sum
BICCPFMCVTRX	ACCUMULATION	INTEGER	Number of Circuit Validation messages received.	SYSBICCDPCPERF.BICCPFMCVTRX	Sum	Sum
BICCPFMCVTTX	ACCUMULATION	INTEGER	Number of Circuit Validation messages transmitted.	SYSBICCDPCPERF.BICCPFMCVTTX	Sum	Sum
BICCPFMEXMRX	ACCUMULATION	INTEGER	Number of Exit messages received.	SYSBICCDPCPERF.BICCPFMEXMRX	Sum	Sum
BICCPFMEXMTX	ACCUMULATION	INTEGER	Number of Exit messages transmitted.	SYSBICCDPCPERF.BICCPFMEXMTX	Sum	Sum
BICCPFMFA	ACCUMULATION	INTEGER	Number of	SYSBICCDPCPERF.BICCP	Sum	Sum

ARX	ATION	GER	Facility Accepted messages received.	FMFAARX		
BICCPFMFA ATX	ACCUMUL ATION	INTE GER	Number of Facility Accepted messages transmitted.	SYSBICCDPCPERF.BICCP FMFAATX	Sum	Sum
BICCPFMFA CRX	ACCUMUL ATION	INTE GER	Number of Facility messages received.	SYSBICCDPCPERF.BICCP FMFACRX	Sum	Sum
BICCPFMFA CTX	ACCUMUL ATION	INTE GER	Number of Facility messages transmitted.	SYSBICCDPCPERF.BICCP FMFACTX	Sum	Sum
BICCPFMFA RRX	ACCUMUL ATION	INTE GER	Number of Facility Request messages received.	SYSBICCDPCPERF.BICCP FMFARRX	Sum	Sum
BICCPFMFA RTX	ACCUMUL ATION	INTE GER	Number of Facility request messages transmitted.	SYSBICCDPCPERF.BICCP FMFARTX	Sum	Sum
BICCPFMFO TRX	ACCUMUL ATION	INTE GER	Number of Forward Transfer messages received.	SYSBICCDPCPERF.BICCP FMFOTRX	Sum	Sum
BICCPFMFO TTX	ACCUMUL ATION	INTE GER	Number of Forward Transfer messages	SYSBICCDPCPERF.BICCP FMFOTTX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			transmitted.			
BICCPFMFR JRX	ACCUMUL ATION	INTE GER	Number of Facility Rejected messages received.	SYSBICCDPCPERF.BICCP FMFRJRX	Sum	Sum
BICCPFMFR JTX	ACCUMUL ATION	INTE GER	Number of Facility Rejected messages transmitted.	SYSBICCDPCPERF.BICCP FMFRJTX	Sum	Sum
BICCPFMGR ARX	ACCUMUL ATION	INTE GER	Number of Circuit Group Reset Acknowled gement messages received.	SYSBICCDPCPERF.BICCP FMGRARX	Sum	Sum
BICCPFMGR ATX	ACCUMUL ATION	INTE GER	Number of Circuit Group Reset Acknowled gement messages transmitted.	SYSBICCDPCPERF.BICCP FMGRATX	Sum	Sum
BICCPFMGR SRX	ACCUMUL ATION	INTE GER	Number of Circuit Group Reset messages received.	SYSBICCDPCPERF.BICCP FMGRSRX	Sum	Sum
BICCPFMGR STX	ACCUMUL ATION	INTE GER	Number of Circuit Group Reset messages transmitted.	SYSBICCDPCPERF.BICCP FMGRSTX	Sum	Sum
BICCPFMIA MRX	ACCUMUL ATION	INTE GER	Number of Initial Address messages received.	SYSBICCDPCPERF.BICCP FMIAMRX	Sum	Sum
BICCPFMIA	ACCUMUL	INTE	Number of	SYSBICCDPCPERF.BICCP	Sum	Sum

MTX	ATION	GER	Initial Address messages transmitted.	FMIAMTX		
BICCPFMIDRRX	ACCUMULATION	INTEGER	Number of Identification Request messages received.	SYSBICCDPCPERF.BICCPFMIDRRX	Sum	Sum
BICCPFMIDRTX	ACCUMULATION	INTEGER	Number of Identification Request messages transmitted.	SYSBICCDPCPERF.BICCPFMIDRTX	Sum	Sum
BICCPFMINFRX	ACCUMULATION	INTEGER	Number of Information messages received.	SYSBICCDPCPERF.BICCPFMINFRX	Sum	Sum
BICCPFMINFTX	ACCUMULATION	INTEGER	Number of Information messages transmitted.	SYSBICCDPCPERF.BICCPFMINFTX	Sum	Sum
BICCPFMINRRX	ACCUMULATION	INTEGER	Number of Information Request messages received.	SYSBICCDPCPERF.BICCPFMINRRX	Sum	Sum
BICCPFMINRTX	ACCUMULATION	INTEGER	Number of Information request messages transmitted.	SYSBICCDPCPERF.BICCPFMINRTX	Sum	Sum
BICCPFMIRSRX	ACCUMULATION	INTEGER	Number of Identification Response messages	SYSBICCDPCPERF.BICCPFMIRSRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received.			
BICCPFMIRSTX	ACCUMULATION	INTEGER	Number of Identification Response messages transmitted.	SYSBICCDPCPERF.BICCPFMIRSTX	Sum	Sum
BICCPFMLOPRX	ACCUMULATION	INTEGER	Number of Loop Prevention messages received.	SYSBICCDPCPERF.BICCPFMLOPRX	Sum	Sum
BICCPFMLOPTX	ACCUMULATION	INTEGER	Number of Loop Prevention messages transmitted.	SYSBICCDPCPERF.BICCPFMLOPTX	Sum	Sum
BICCPFMLPARX	ACCUMULATION	INTEGER	Number of Loopback Acknowledgement messages received.	SYSBICCDPCPERF.BICCPFMLPARX	Sum	Sum
BICCPFMLPATX	ACCUMULATION	INTEGER	Number of Loopback Acknowledgement messages transmitted.	SYSBICCDPCPERF.BICCPFMLPATX	Sum	Sum
BICCPFMNRMRX	ACCUMULATION	INTEGER	Number of network Resource Management messages received.	SYSBICCDPCPERF.BICCPFMNRMRX	Sum	Sum
BICCPFMNRMTX	ACCUMULATION	INTEGER	Number of network Resource Management messages transmitted.	SYSBICCDPCPERF.BICCPFMNRMTX	Sum	Sum
BICCPFMOL	ACCUMULATION	INTEGER	Number of	SYSBICCDPCPERF.BICCP	Sum	Sum

MRX	ATION	GER	Overload messages received.	FMOLMRX		
BICCPFMOLMTX	ACCUMULATION	INTEGER	Number of Overload messages transmitted.	SYSBICCDPCPERF.BICCPFMOLMTX	Sum	Sum
BICCPFMAMPX	ACCUMULATION	INTEGER	Number of Pass-Along messages received.	SYSBICCDPCPERF.BICCPFMPAMRX	Sum	Sum
BICCPFMAMPX	ACCUMULATION	INTEGER	Number of Pass-Along messages transmitted.	SYSBICCDPCPERF.BICCPFMPAMTX	Sum	Sum
BICCPFMRELX	ACCUMULATION	INTEGER	Number of Release messages received.	SYSBICCDPCPERF.BICCPFMRELX	Sum	Sum
BICCPFMRELTX	ACCUMULATION	INTEGER	Number of Release messages transmitted.	SYSBICCDPCPERF.BICCPFMRELTX	Sum	Sum
BICCPFMRESRX	ACCUMULATION	INTEGER	Number of Resume messages received.	SYSBICCDPCPERF.BICCPFMRESRX	Sum	Sum
BICCPFMRESTX	ACCUMULATION	INTEGER	Number of Resume messages transmitted.	SYSBICCDPCPERF.BICCPFMRESTX	Sum	Sum
BICCPFMRLCRX	ACCUMULATION	INTEGER	Number of Release Complete messages received.	SYSBICCDPCPERF.BICCPFMRLCRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

BICCPFMRL CTX	ACCUMUL ATION	INTE GER	Number of Release Complete messages transmitted.	SYSBICCDPCPERF.BICCP FMRLCTX	Sum	Sum
BICCPFMRS CRX	ACCUMUL ATION	INTE GER	Number of Reset messages received.	SYSBICCDPCPERF.BICCP FMRSCRX	Sum	Sum
BICCPFMRS CTX	ACCUMUL ATION	INTE GER	Number of Reset messages transmitted.	SYSBICCDPCPERF.BICCP FMRSTX	Sum	Sum
BICCPFMSA MRX	ACCUMUL ATION	INTE GER	Number of Subsequent address messages received.	SYSBICCDPCPERF.BICCP FMSAMRX	Sum	Sum
BICCPFMSA MTX	ACCUMUL ATION	INTE GER	Number of Subsequent Address messages transmitted.	SYSBICCDPCPERF.BICCP FMSAMTX	Sum	Sum
BICCPFMSG MRX	ACCUMUL ATION	INTE GER	Number of Segmentatio n messages received.	SYSBICCDPCPERF.BICCP FMSGMRX	Sum	Sum
BICCPFMSG MTX	ACCUMUL ATION	INTE GER	Number of Segmentatio n messages transmitted.	SYSBICCDPCPERF.BICCP FMSGMTX	Sum	Sum
BICCPFMSU SRX	ACCUMUL ATION	INTE GER	Number of Suspend messages received.	SYSBICCDPCPERF.BICCP FMSUSRX	Sum	Sum
BICCPFMSU STX	ACCUMUL ATION	INTE GER	Number of Suspend messages transmitted.	SYSBICCDPCPERF.BICCP FMSUSTX	Sum	Sum
BICCPFMUB	ACCUMUL	INTE	Number of	SYSBICCDPCPERF.BICCP	Sum	Sum

ARX	ATION	GER	Unblocking Acknowledgement messages received.	FMUBARX		
BICCPFMUBATX	ACCUMULATION	INTEGER	Number of Unblocking Acknowledgement messages transmitted.	SYSBICCDPCPERF.BICCPFMUBATX	Sum	Sum
BICCPFMUBLRX	ACCUMULATION	INTEGER	Number of Unblocking messages received.	SYSBICCDPCPERF.BICCPFMUBLRX	Sum	Sum
BICCPFMUBLTX	ACCUMULATION	INTEGER	Number of Unblocking messages transmitted.	SYSBICCDPCPERF.BICCPFMUBLTX	Sum	Sum
BICCPFMUCICRX	ACCUMULATION	INTEGER	Number of Unequipped CIC received.	SYSBICCDPCPERF.BICCPFMUCICRX	Sum	Sum
BICCPFMUCICTX	ACCUMULATION	INTEGER	Number of Unequipped CIC messages transmitted.	SYSBICCDPCPERF.BICCPFMUCICTX	Sum	Sum
BICCPFMUPARX	ACCUMULATION	INTEGER	Number of User Parts Available messages received.	SYSBICCDPCPERF.BICCPFMUPARX	Sum	Sum
BICCPFMUPATX	ACCUMULATION	INTEGER	Number of User Parts Available	SYSBICCDPCPERF.BICCPFMUPATX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages transmitted.			
BICCPFMUP TRX	ACCUMULATION	INTEGER	Number of User Part Test messages received.	SYSBICCDPCPERF.BICCPFMUPTRX	Sum	Sum
BICCPFMUP TTX	ACCUMULATION	INTEGER	Number of User Part Test messages transmitted.	SYSBICCDPCPERF.BICCPFMUPTTX	Sum	Sum
BICCPFMUS RRX	ACCUMULATION	INTEGER	Number of User-To-User messages received.	SYSBICCDPCPERF.BICCPFMUSRRX	Sum	Sum
BICCPFMUS RTX	ACCUMULATION	INTEGER	Number of User-To-User messages transmitted.	SYSBICCDPCPERF.BICCPFMUSRTX	Sum	Sum

7.4.2 DPC.Alcatel_Lucent.GSM.Call_Mobility_BSSAP_Performance

BSSAP Call Mobility Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASSIGNMENTCOMPLETERX	ACCUMULATION	INTEGER	Number of Assignment Complete messages received.	BSSAPMMMSGPERF.ASSIGNMENTCOMPLETERX	Sum	Sum
ASSIGNMENTFA	ACCUMULATION	INTEGER	Number	BSSAPMMMSGPERF.ASSIGN	Sum	Sum

ILURERX	LATION	GER	of Assignment Failure messages received.	MENTFAILURERX		
ASSIGNMENTRE QTX	ACCUMU LATION	INTE GER	Number of Assignment Request messages transmitted.	BSSAPMMMSGPERF.ASSIGN MENTREQTX	Sum	Sum
BSSINVOKETRA CERX	ACCUMU LATION	INTE GER	Number of BSS Invoke Trace messages received.	BSSAPMMMSGPERF.BSSINV OKETRACERX	Sum	Sum
BSSINVOKETRA CETX	ACCUMU LATION	INTE GER	Number of BSS Invoke Trace messages transmitted.	BSSAPMMMSGPERF.BSSINV OKETRACETX	Sum	Sum
CHANGECIRCUIT ACKRX	ACCUMU LATION	INTE GER	Number of Change Circuit Acknowledgments received.	BSSAPMMMSGPERF.CHANG ECIRCUITACKRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ledge message s received .			
CHANGECIRCUITTX	ACCUMULATION	INTEGER	Number of Change Circuit message s transmit ted.	BSSAPMMMSGPERF.CHANG ECIRCUITTX	Sum	Sum
CIPHERMODECOM MANDTX	ACCUMULATION	INTEGER	Number of Cipher Mode Comma nd message s transmit ted.	BSSAPMMMSGPERF.CIPHER MODECOMMANDTX	Sum	Sum
CIPHERMODECOM PLETERX	ACCUMULATION	INTEGER	Number of Cipher Mode Comple te message s received .	BSSAPMMMSGPERF.CIPHER MODECOMPLETERX	Sum	Sum
CIPHERMODERE JECTRX	ACCUMULATION	INTEGER	Number of Cipher Mode Reject message s received .	BSSAPMMMSGPERF.CIPHER MODEREJECTRX	Sum	Sum
CLASSMARKRE	ACCUMULATION	INTEGER	Number	BSSAPMMMSGPERF.CLASS	Sum	Sum

QUESTTX	LATION	GER	of Classma rk Request message s transmit ted.	MARKREQUESTTX		
CLASSMARKUP DATERX	ACCUMU LATION	INTE GER	Number of Classma rk Update message s received .	BSSAPMMMSGPERF.CLASS MARKUPDATERX	Sum	Sum
CLRCOMMAND TX	ACCUMU LATION	INTE GER	Number of Clear Comma nd message s transmit ted.	BSSAPMMMSGPERF.CLRCO MMANDTX	Sum	Sum
CLRCOMPLETE RX	ACCUMU LATION	INTE GER	Number of Clear Comple te message s received .	BSSAPMMMSGPERF.CLRCO MPLETERX	Sum	Sum
CLRREQRX	ACCUMU LATION	INTE GER	Number of Clear Request message s	BSSAPMMMSGPERF.CLRRE QRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received .			
COMMONIDTX	ACCUMULATION	INTEGER	Number of Common ID messages transmitted.	BSSAPMMMSGPERF.COMMONIDTX	Sum	Sum
COMPLETELAYER3INFORX	ACCUMULATION	INTEGER	Number of Complete Layer 3 Information messages received .	BSSAPMMMSGPERF.COMPLETELAYER3INFORX	Sum	Sum
COMPLETELAYER	ACCUMULATION	INTEGER	Number of Complete Layer Information messages.	BSSAPMMMSGPERF.COMPLETELAYER	Sum	Sum
CONNECTIONLESSINFORX	ACCUMULATION	INTEGER	Number of Connectionless Information messages received .	BSSAPMMMSGPERF.CONNECTIONLESSINFORX	Sum	Sum
CONNECTIONLESSINFOTX	ACCUMULATION	INTEGER	Number of Connectionless	BSSAPMMMSGPERF.CONNECTIONLESSINFOTX	Sum	Sum

			Information messages transmitted.			
HOCANDIDATE ENQUIRETX	ACCUMU LATION	INTE GER	Number of Handover Candidate Enquire messages transmitted.	BSSAPMMMSGPERF.HOCAN DIDATEENQUIRETX	Sum	Sum
HOCANDIDATE RSPRX	ACCUMU LATION	INTE GER	Number of Handover Candidate Response messages received.	BSSAPMMMSGPERF.HOCAN DIDATERSPRX	Sum	Sum
HOCOMMANDT X	ACCUMU LATION	INTE GER	Number of Handover Command messages transmitted.	BSSAPMMMSGPERF.HOCOM MANDTX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

HOCOMPLETERX	ACCUMULATION	INTEGER	Number of Handover Complete messages received .	BSSAPMMMSGPERF.HOCOMPLETERX	Sum	Sum
HODETECTRX	ACCUMULATION	INTEGER	Number of Handover Detect messages received .	BSSAPMMMSGPERF.HODETECTRX	Sum	Sum
HOFAILURERX	ACCUMULATION	INTEGER	Number of Handover Failure messages received .	BSSAPMMMSGPERF.HOFAILURERX	Sum	Sum
HOPERFORMEDRX	ACCUMULATION	INTEGER	Number of Handover Performed messages received .	BSSAPMMMSGPERF.HOPERFORMEDRX	Sum	Sum
HOREQUESTACKRX	ACCUMULATION	INTEGER	Number of Handover Request	BSSAPMMMSGPERF.HOREQUESTACKRX	Sum	Sum

			Acknowledge message s received .			
HOREQUESTTX	ACCUMU LATION	INTE GER	Number of Handov er Request message s transmit ted.	BSSAPMMMSGPERF.HOREQ UESTTX	Sum	Sum
HOREQUIREDR EJTX	ACCUMU LATION	INTE GER	Number of Handov er Require d Reject message s transmit ted.	BSSAPMMMSGPERF.HOREQ UIREDREJTX	Sum	Sum
HOREQUIREDR X	ACCUMU LATION	INTE GER	Number of Handov er Require d message s received .	BSSAPMMMSGPERF.HOREQ UIREDRX	Sum	Sum
HOSUCCEDED RX	ACCUMU LATION	INTE GER	Number of Handov	BSSAPMMMSGPERF.HOSUC CEEDEDRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			er Succeed ed message s received .			
HOSUCCEDED TX	ACCUMU LATION	INTE GER	Number of Handov er Succeed ed message s transmit ted.	BSSAPMMMSGPERF.HOSUC CEEDEDTX	Sum	Sum
LOADINDRX	ACCUMU LATION	INTE GER	Number of Load Indicati on message s received .	BSSAPMMMSGPERF.LOADIN DRX	Sum	Sum
LOADINDTX	ACCUMU LATION	INTE GER	Number of Load Indicati on message s transmit ted.	BSSAPMMMSGPERF.LOADIN DTX	Sum	Sum
LSAINFOTX	ACCUMU LATION	INTE GER	Number of LSA Informa tion message s transmit ted.	BSSAPMMMSGPERF.LSAINF OTX	Sum	Sum
MSCINVOKETR ACETX	ACCUMU LATION	INTE GER	Number of MSC	BSSAPMMMSGPERF.MSCINV OKETRACETX	Sum	Sum

			Invoke Trace messages transmitted.			
OVERLOADRX	ACCUMULATION	INTEGER	Number of Overload messages received.	BSSAPMMMSGPERF.OVERLOADRX	Sum	Sum
OVERLOADTX	ACCUMULATION	INTEGER	Number of Overload messages transmitted.	BSSAPMMMSGPERF.OVERLOADTX	Sum	Sum
PAGINGTX	ACCUMULATION	INTEGER	Number of Paging messages transmitted.	BSSAPMMMSGPERF.PAGINGTX	Sum	Sum
PERFORMLOCA BORTRX	ACCUMULATION	INTEGER	Number of Perform Location Abort messages received.	BSSAPMMMSGPERF.PERFORMLOCA BORTRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

PERFORMLOCREQTX	ACCUMULATION	INTEGER	Number of Perform Location Request messages transmitted.	BSSAPMMMSGPERF.PERFORMLOCREQTX	Sum	Sum
PERFORMLOCRESPRX	ACCUMULATION	INTEGER	Number of Perform Location Response messages received.	BSSAPMMMSGPERF.PERFORMLOCRESPRX	Sum	Sum
QUEUINGINDICATIONRX	ACCUMULATION	INTEGER	Number of Queuing Indication messages received.	BSSAPMMMSGPERF.QUEUINGINDICATIONRX	Sum	Sum
RESOURCEINDRX	ACCUMULATION	INTEGER	Number of Resource Indication messages received.	BSSAPMMMSGPERF.RESOURCEINDRX	Sum	Sum
RESOURCEREQTX	ACCUMULATION	INTEGER	Number of Resource	BSSAPMMMSGPERF.RESOURCEREQTX	Sum	Sum

			e Request message s transmit ted.			
RESUMERX	ACCUMU LATION	INTE GER	Number of Resume message s received .	BSSAPMMMSGPERF.RESUM ERX	Sum	Sum
SAPINREJECTR X	ACCUMU LATION	INTE GER	Number of SAPI "N" Reject message s received .	BSSAPMMMSGPERF.SAPINR EJECTRX	Sum	Sum
SUSPENDRX	ACCUMU LATION	INTE GER	Number of Suspend message s received .	BSSAPMMMSGPERF.SUSPEN DRX	Sum	Sum

7.4.3 DPC.Alcatel_Lucent.GSM.Circuit_System_BSSAP_Performance

BSSAP Circuit System Statistics

KPI	Type	Data Type	Descript ion	Derivation	Defau lt Aggr egato r	Other Aggre gators
-----	------	--------------	-----------------	------------	-----------------------------------	--------------------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

BLOCKINGACK NOWLEDGERX	ACCUMU LATION	INT EGE R	Number of Blocking Acknowl edgment messages received.	BSSAPMNTMSGPERF.BLOCK INGACKNOWLEDGERX	Sum	Sum
BLOCKINGACK NOWLEDGETX	ACCUMU LATION	INT EGE R	Number of Blocking Acknowl edgment messages transmitt ed.	BSSAPMNTMSGPERF.BLOCK INGACKNOWLEDGETX	Sum	Sum
BLOCKRX	ACCUMU LATION	INT EGE R	Number of Block messages received.	BSSAPMNTMSGPERF.BLOCK RX	Sum	Sum
BLOCKTX	ACCUMU LATION	INT EGE R	Number of Block messages transmitt ed.	BSSAPMNTMSGPERF.BLOCK TX	Sum	Sum
CKTGRPBLCKIN GACKRX	ACCUMU LATION	INT EGE R	Number of Circuit Group Blocking Acknowl edgment messages received.	BSSAPMNTMSGPERF.CKTGR PBLCKINGACKRX	Sum	Sum
CKTGRPBLCKIN GACKTX	ACCUMU LATION	INT EGE R	Number of Circuit Group Blocking Acknowl edgment messages transmitt ed.	BSSAPMNTMSGPERF.CKTGR PBLCKINGACKTX	Sum	Sum

CKTGRPBLCKRX	ACCUMULATION	INTEGER	Number of Circuit Group Block messages received.	BSSAPMNTMSGPERF.CKTGRPBLCKRX	Sum	Sum
CKTGRPBLCKTX	ACCUMULATION	INTEGER	Number of Circuit Group Block messages transmitted.	BSSAPMNTMSGPERF.CKTGRPBLCKTX	Sum	Sum
CKTGRPUNBLCKINGACKRX	ACCUMULATION	INTEGER	Number of Circuit Group Unblocking Acknowledgment messages received.	BSSAPMNTMSGPERF.CKTGRPUNBLCKINGACKRX	Sum	Sum
CKTGRPUNBLCKINGACKTX	ACCUMULATION	INTEGER	Number of Circuit Group Unblocking Acknowledgment messages transmitted.	BSSAPMNTMSGPERF.CKTGRPUNBLCKINGACKTX	Sum	Sum
CKTGRPUNBLOCKRX	ACCUMULATION	INTEGER	Number of	BSSAPMNTMSGPERF.CKTGRPUNBLOCKRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

		R	Circuit Group Unblock messages received.		
CKTGRPUNBLOCKTX	ACCUMULATION	INTEGER	Number of Circuit Group Unblock messages transmitted.	BSSAPMNTMSGPERF.CKTGRPUNBLOCKTX	Sum Sum
CONFUSIONRX	ACCUMULATION	INTEGER	Number of Confusion messages received.	BSSAPMNTMSGPERF.CONFUSIONRX	Sum Sum
CONFUSIONTX	ACCUMULATION	INTEGER	Number of Confusion messages transmitted.	BSSAPMNTMSGPERF.CONFUSIONTX	Sum Sum
RESETACKRX	ACCUMULATION	INTEGER	Number of Reset Acknowledgment messages received.	BSSAPMNTMSGPERF.RESETACKRX	Sum Sum
RESETACKTX	ACCUMULATION	INTEGER	Number of Reset Acknowledgment messages transmitted.	BSSAPMNTMSGPERF.RESETACKTX	Sum Sum
RESETCIRCUITACKRX	ACCUMULATION	INTEGER	Number of Reset Circuit	BSSAPMNTMSGPERF.RESETCIRCUITACKRX	Sum Sum

			Acknowledgment messages received.			
RESETCIRCUITACKTX	ACCUMULATION	INTEGER	Number of Reset Circuit Acknowledgment messages transmitted.	BSSAPMNTMSGPERF.RESETCIRCUITACKTX	Sum	Sum
RESETCIRCUITRX	ACCUMULATION	INTEGER	Number of Reset Circuit messages received.	BSSAPMNTMSGPERF.RESETCIRCUITRX	Sum	Sum
RESETCIRCUITTX	ACCUMULATION	INTEGER	Number of Reset Circuit messages transmitted.	BSSAPMNTMSGPERF.RESETCIRCUITTX	Sum	Sum
RESETRX	ACCUMULATION	INTEGER	Number of Reset messages received.	BSSAPMNTMSGPERF.RESETRX	Sum	Sum
RESETTX	ACCUMULATION	INTEGER	Number of Reset messages transmitted.	BSSAPMNTMSGPERF.RESETTX	Sum	Sum
UNBLOCKINGACKRX	ACCUMULATION	INTEGER	Number of Unblocking Acknowledgment messages received.	BSSAPMNTMSGPERF.UNBLOCKINGACKRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			edgment messages received.			
UNBLOCKINGA CKTX	ACCUMU LATION	INT EGE R	Number of Unblocki ng Acknowl edgment messages transmitt ed.	BSSAPMNTMSGPERF.UNBLO CKINGACKTX	Sum	Sum
UNBLOCKRX	ACCUMU LATION	INT EGE R	Number of Unblock messages received.	BSSAPMNTMSGPERF.UNBLO CKRX	Sum	Sum
UNBLOCKTX	ACCUMU LATION	INT EGE R	Number of Unblock messages transmitt ed.	BSSAPMNTMSGPERF.UNBLO CKTX	Sum	Sum
UNEQUIPPEDCK TRX	ACCUMU LATION	INT EGE R	Number of Unequip ped Circuit messages received.	BSSAPMNTMSGPERF.UNEQU IPPEDCKTRX	Sum	Sum
UNEQUIPPEDCK TTX	ACCUMU LATION	INT EGE R	Number of Unequip ped Circuit messages transmitt ed.	BSSAPMNTMSGPERF.UNEQU IPPEDCKTTX	Sum	Sum

7.4.4 DPC.Alcatel_Lucent.GSM.ISUP_DPC_Performance

DPC ISUP Performance

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ISUPPFMACMRX	ACCUMULATION	INTEGER	Number of address complete messages received.	SYSISUPDPCPERF.ISUPPFMACMRX	Sum	Sum
ISUPPFMACMTX	ACCUMULATION	INTEGER	Number of address complete messages transmitted.	SYSISUPDPCPERF.ISUPPFMACMTX	Sum	Sum
ISUPPFMANMRX	ACCUMULATION	INTEGER	Number of answer messages received.	SYSISUPDPCPERF.ISUPPFMANMRX	Sum	Sum
ISUPPFMANMTX	ACCUMULATION	INTEGER	Number of answer messages transmitted.	SYSISUPDPCPERF.ISUPPFMANMTX	Sum	Sum
ISUPPFMBLARX	ACCUMULATION	INTEGER	Number of blocking acknowledgment messages received.	SYSISUPDPCPERF.ISUPPFMBLARX	Sum	Sum
ISUPPFMBLATX	ACCUMULATION	INTEGER	Number of blocking acknowledgment messages transmitted.	SYSISUPDPCPERF.ISUPPFMBLATX	Sum	Sum
ISUPPFMBLORX	ACCUMULATION	INTEGER	Number of blocking messages	SYSISUPDPCPERF.ISUPPFMBLORX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received.			
ISUPPFMBLOTX	ACCUMULATION	INTEGER	Number of blocking messages transmitted.	SYSISUPDPCPERF.ISUPPFMBLOTX	Sum	Sum
ISUPPFMCCR	ACCUMULATION	INTEGER	Number of continuity check request messages received.	SYSISUPDPCPERF.ISUPPFMCCR	Sum	Sum
ISUPPFMCCR	ACCUMULATION	INTEGER	Number of continuity check request messages transmitted.	SYSISUPDPCPERF.ISUPPFMCCR	Sum	Sum
ISUPPFMCFNR	ACCUMULATION	INTEGER	Number of confusion messages received.	SYSISUPDPCPERF.ISUPPFMCFNR	Sum	Sum
ISUPPFMCFNT	ACCUMULATION	INTEGER	Number of confusion messages transmitted.	SYSISUPDPCPERF.ISUPPFMCFNT	Sum	Sum
ISUPPFMCGBAR	ACCUMULATION	INTEGER	Number of circuit group blocking acknowledgment messages received.	SYSISUPDPCPERF.ISUPPFMCGBAR	Sum	Sum
ISUPPFMCGBAT	ACCUMULATION	INTEGER	Number of circuit group blocking acknowledgment messages transmitted.	SYSISUPDPCPERF.ISUPPFMCGBAT	Sum	Sum

ISUPPFMCG BRX	ACCUMUL ATION	INTE GER	Number of circuit group blocking messages received.	SYSISUPDPCPERF.ISUPP FMCGBRX	Sum	Sum
ISUPPFMCG BTX	ACCUMUL ATION	INTE GER	Number of circuit group blocking messages transmitted.	SYSISUPDPCPERF.ISUPP FMCGBTX	Sum	Sum
ISUPPFMCG UARX	ACCUMUL ATION	INTE GER	Number of circuit group unblocking acknowledg ement messages received.	SYSISUPDPCPERF.ISUPP FMCGUARX	Sum	Sum
ISUPPFMCG UATX	ACCUMUL ATION	INTE GER	Number of circuit group unblocking acknowledg ement messages transmitted.	SYSISUPDPCPERF.ISUPP FMCGUATX	Sum	Sum
ISUPPFMCG URX	ACCUMUL ATION	INTE GER	Number of circuit group unblocking messages received.	SYSISUPDPCPERF.ISUPP FMCGURX	Sum	Sum
ISUPPFMCG UTX	ACCUMUL ATION	INTE GER	Number of circuit group unblocking	SYSISUPDPCPERF.ISUPP FMCGUTX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages transmitted.			
ISUPPFMCONRX	ACCUMULATION	INTEGER	Number of connect messages received.	SYSISUPDPCPERF.ISUPPFMCONRX	Sum	Sum
ISUPPFMCONTX	ACCUMULATION	INTEGER	Number of connect messages transmitted.	SYSISUPDPCPERF.ISUPPFMCONTX	Sum	Sum
ISUPPFMCONTRX	ACCUMULATION	INTEGER	Number of continuity messages received.	SYSISUPDPCPERF.ISUPPFMCONTRX	Sum	Sum
ISUPPFMCONTTX	ACCUMULATION	INTEGER	Number of continuity messages transmitted.	SYSISUPDPCPERF.ISUPPFMCONTTX	Sum	Sum
ISUPPFMCPGRX	ACCUMULATION	INTEGER	Number of call progress messages received.	SYSISUPDPCPERF.ISUPPFMCPGRX	Sum	Sum
ISUPPFMCPGTX	ACCUMULATION	INTEGER	Number of call progress messages transmitted.	SYSISUPDPCPERF.ISUPPFMCPGTX	Sum	Sum
ISUPPFMCQMRX	ACCUMULATION	INTEGER	Number of circuit query messages received.	SYSISUPDPCPERF.ISUPPFMCQMRX	Sum	Sum
ISUPPFMCQMTX	ACCUMULATION	INTEGER	Number of circuit query messages transmitted.	SYSISUPDPCPERF.ISUPPFMCQMTX	Sum	Sum
ISUPPFMCQRRX	ACCUMULATION	INTEGER	Number of circuit	SYSISUPDPCPERF.ISUPPFMCQRRX	Sum	Sum

			query acknowledg ement messages received.			
ISUPPFMCQ RTX	ACCUMUL ATION	INTE GER	Number of circuit query acknowledg ement messages transmitted.	SYSISUPDPCPERF.ISUPP FMCQRTX	Sum	Sum
ISUPPFMC R ARX	ACCUMUL ATION	INTE GER	Number of circuit reservation acknowledg ement messages received.	SYSISUPDPCPERF.ISUPP FMC RARX	Sum	Sum
ISUPPFMC R ATX	ACCUMUL ATION	INTE GER	Number of circuit reservation acknowledg ement messages transmitted.	SYSISUPDPCPERF.ISUPP FMC RATX	Sum	Sum
ISUPPFMC R GRX	ACCUMUL ATION	INTE GER	Number of charging messages received.	SYSISUPDPCPERF.ISUPP FMC RGRX	Sum	Sum
ISUPPFMC R GTX	ACCUMUL ATION	INTE GER	Number of charging messages transmitted.	SYSISUPDPCPERF.ISUPP FMC RGTX	Sum	Sum
ISUPPFMC R MRX	ACCUMUL ATION	INTE GER	Number of circuit reservation	SYSISUPDPCPERF.ISUPP FMC RMRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages received.			
ISUPPFMCRMTX	ACCUMULATION	INTEGER	Number of circuit reservation messages transmitted.	SYSISUPDPCPERF.ISUPPFMCRMTX	Sum	Sum
ISUPPFMCVRRX	ACCUMULATION	INTEGER	Number of circuit validation response messages received.	SYSISUPDPCPERF.ISUPPFMCVRRX	Sum	Sum
ISUPPFMCVRTX	ACCUMULATION	INTEGER	Number of circuit validation response messages transmitted.	SYSISUPDPCPERF.ISUPPFMCVRTX	Sum	Sum
ISUPPFMCVTRX	ACCUMULATION	INTEGER	Number of circuit validation messages received.	SYSISUPDPCPERF.ISUPPFMCVTRX	Sum	Sum
ISUPPFMCVTTX	ACCUMULATION	INTEGER	Number of circuit validation messages transmitted.	SYSISUPDPCPERF.ISUPPFMCVTTX	Sum	Sum
ISUPPFMEXMRX	ACCUMULATION	INTEGER	Number of exit messages received.	SYSISUPDPCPERF.ISUPPFMEXMRX	Sum	Sum
ISUPPFMEXMTX	ACCUMULATION	INTEGER	Number of exit messages transmitted.	SYSISUPDPCPERF.ISUPPFMEXMTX	Sum	Sum
ISUPPFMFAARX	ACCUMULATION	INTEGER	Number of facility accepted messages	SYSISUPDPCPERF.ISUPPFMFAARX	Sum	Sum

			received.			
ISUPPFMFA ATX	ACCUMUL ATION	INTE GER	Number of facility accepted messages transmitted.	SYSISUPDPCPERF.ISUPP FMFAATX	Sum	Sum
ISUPPFMFA CRX	ACCUMUL ATION	INTE GER	Number of facility messages received.	SYSISUPDPCPERF.ISUPP FMFACRX	Sum	Sum
ISUPPFMFA CTX	ACCUMUL ATION	INTE GER	Number of facility messages transmitted.	SYSISUPDPCPERF.ISUPP FMFACTX	Sum	Sum
ISUPPFMFA RRX	ACCUMUL ATION	INTE GER	Number of facility request messages received.	SYSISUPDPCPERF.ISUPP FMFARRX	Sum	Sum
ISUPPFMFA RTX	ACCUMUL ATION	INTE GER	Number of facility request messages transmitted.	SYSISUPDPCPERF.ISUPP FMFARTX	Sum	Sum
ISUPPFMFO TRX	ACCUMUL ATION	INTE GER	Number of forward transfer messages received.	SYSISUPDPCPERF.ISUPP FMFOTRX	Sum	Sum
ISUPPFMFO TTX	ACCUMUL ATION	INTE GER	Number of forward transfer messages transmitted.	SYSISUPDPCPERF.ISUPP FMFOTTX	Sum	Sum
ISUPPFMFR JRX	ACCUMUL ATION	INTE GER	Number of facility	SYSISUPDPCPERF.ISUPP FMFRJRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			rejected messages received.			
ISUPPFMFR JTX	ACCUMUL ATION	INTE GER	Number of facility rejected messages transmitted.	SYSISUPDPCPERF.ISUPP FMFRJTX	Sum	Sum
ISUPPFMGR ARX	ACCUMUL ATION	INTE GER	Number of circuit group reset acknowledg ement messages received.	SYSISUPDPCPERF.ISUPP FMGRARX	Sum	Sum
ISUPPFMGR ATX	ACCUMUL ATION	INTE GER	Number of circuit group reset acknowledg ement messages transmitted.	SYSISUPDPCPERF.ISUPP FMGRATX	Sum	Sum
ISUPPFMGR SRX	ACCUMUL ATION	INTE GER	Number of circuit group reset messages received.	SYSISUPDPCPERF.ISUPP FMGRSRX	Sum	Sum
ISUPPFMGR STX	ACCUMUL ATION	INTE GER	Number of circuit group reset messages transmitted.	SYSISUPDPCPERF.ISUPP FMGRSTX	Sum	Sum
ISUPPFMIA MRX	ACCUMUL ATION	INTE GER	Number of initial address messages received.	SYSISUPDPCPERF.ISUPP FMIAMRX	Sum	Sum
ISUPPFMIA MTX	ACCUMUL ATION	INTE GER	Number of initial address messages	SYSISUPDPCPERF.ISUPP FMIAMTX	Sum	Sum

			transmitted.			
ISUPPFMIDRRX	ACCUMULATION	INTEGER	Number of identification request messages received.	SYSISUPDPCPERF.ISUPPFMIDRRX	Sum	Sum
ISUPPFMIDRTX	ACCUMULATION	INTEGER	Number of identification request messages transmitted.	SYSISUPDPCPERF.ISUPPFMIDRTX	Sum	Sum
ISUPPFMINFRX	ACCUMULATION	INTEGER	Number of information messages received.	SYSISUPDPCPERF.ISUPPFMINFRX	Sum	Sum
ISUPPFMINFTX	ACCUMULATION	INTEGER	Number of information messages transmitted.	SYSISUPDPCPERF.ISUPPFMINFTX	Sum	Sum
ISUPPFMINRRX	ACCUMULATION	INTEGER	Number of information request messages received.	SYSISUPDPCPERF.ISUPPFMINRRX	Sum	Sum
ISUPPFMINRTX	ACCUMULATION	INTEGER	Number of information request messages transmitted.	SYSISUPDPCPERF.ISUPPFMINRTX	Sum	Sum
ISUPPFMIRSRX	ACCUMULATION	INTEGER	Number of identification response messages received.	SYSISUPDPCPERF.ISUPPFMIRSRX	Sum	Sum
ISUPPFMIRSTX	ACCUMULATION	INTEGER	Number of identification	SYSISUPDPCPERF.ISUPPFMIRSTX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			n response messages transmitted.			
ISUPPFMLO PRX	ACCUMUL ATION	INTE GER	Number of loop prevention messages received.	SYSISUPDPCPERF.ISUPP FMLOPRX	Sum	Sum
ISUPPFMLO PTX	ACCUMUL ATION	INTE GER	Number of loop prevention messages transmitted.	SYSISUPDPCPERF.ISUPP FMLOPTX	Sum	Sum
ISUPPFMLP ARX	ACCUMUL ATION	INTE GER	Number of loopback acknowledg ement messages received.	SYSISUPDPCPERF.ISUPP FMLPARX	Sum	Sum
ISUPPFMLP ATX	ACCUMUL ATION	INTE GER	Number of loopback acknowledg ement messages transmitted.	SYSISUPDPCPERF.ISUPP FMLPATX	Sum	Sum
ISUPPFMNR MRX	ACCUMUL ATION	INTE GER	Number of network resource managemen t messages received.	SYSISUPDPCPERF.ISUPP FMNRMRX	Sum	Sum
ISUPPFMNR MTX	ACCUMUL ATION	INTE GER	Number of network resource managemen t messages transmitted.	SYSISUPDPCPERF.ISUPP FMNRMTX	Sum	Sum
ISUPPFMOL MRX	ACCUMUL ATION	INTE GER	Number of overload messages received.	SYSISUPDPCPERF.ISUPP FMOLMRX	Sum	Sum

ISUPPFMOL MTX	ACCUMUL ATION	INTE GER	Number of overload messages transmitted.	SYSISUPDPCPERF.ISUPP FMOLMTX	Sum	Sum
ISUPPFMPA MRX	ACCUMUL ATION	INTE GER	Number of pass-along messages received.	SYSISUPDPCPERF.ISUPP FMPAMRX	Sum	Sum
ISUPPFMPA MTX	ACCUMUL ATION	INTE GER	Number of pass-along messages transmitted.	SYSISUPDPCPERF.ISUPP FMPAMTX	Sum	Sum
ISUPPFMRE LRX	ACCUMUL ATION	INTE GER	Number of release messages received.	SYSISUPDPCPERF.ISUPP FMRELRX	Sum	Sum
ISUPPFMRE LTX	ACCUMUL ATION	INTE GER	Number of release messages transmitted.	SYSISUPDPCPERF.ISUPP FMRELTX	Sum	Sum
ISUPPFMRE SRX	ACCUMUL ATION	INTE GER	Number of resume messages received.	SYSISUPDPCPERF.ISUPP FMRESRX	Sum	Sum
ISUPPFMRE STX	ACCUMUL ATION	INTE GER	Number of resume messages transmitted.	SYSISUPDPCPERF.ISUPP FMRESTX	Sum	Sum
ISUPPFMRL CRX	ACCUMUL ATION	INTE GER	Number of release complete messages received.	SYSISUPDPCPERF.ISUPP FMRLCRX	Sum	Sum
ISUPPFMRL CTX	ACCUMUL ATION	INTE GER	Number of release complete	SYSISUPDPCPERF.ISUPP FMRLCTX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages transmitted.			
ISUPPFMRS CRX	ACCUMUL ATION	INTE GER	Number of reset messages received.	SYSISUPDPCPERF.ISUPP FMRSCRX	Sum	Sum
ISUPPFMRS CTX	ACCUMUL ATION	INTE GER	Number of reset messages transmitted.	SYSISUPDPCPERF.ISUPP FMRCTX	Sum	Sum
ISUPPFMSA MRX	ACCUMUL ATION	INTE GER	Number of subsequent address messages received.	SYSISUPDPCPERF.ISUPP FMSAMRX	Sum	Sum
ISUPPFMSA MTX	ACCUMUL ATION	INTE GER	Number of subsequent address messages transmitted.	SYSISUPDPCPERF.ISUPP FMSAMTX	Sum	Sum
ISUPPFMSG MRX	ACCUMUL ATION	INTE GER	Number of segmentatio n messages received.	SYSISUPDPCPERF.ISUPP FMSGMRX	Sum	Sum
ISUPPFMSG MTX	ACCUMUL ATION	INTE GER	Number of segmentatio n messages transmitted.	SYSISUPDPCPERF.ISUPP FMSGMTX	Sum	Sum
ISUPPFMSU SRX	ACCUMUL ATION	INTE GER	Number of suspend messages received.	SYSISUPDPCPERF.ISUPP FMSUSRX	Sum	Sum
ISUPPFMSU STX	ACCUMUL ATION	INTE GER	Number of suspend messages transmitted.	SYSISUPDPCPERF.ISUPP FMSUSTX	Sum	Sum
ISUPPFMUB ARX	ACCUMUL ATION	INTE GER	Number of unblocking acknowledg ement	SYSISUPDPCPERF.ISUPP FMUBARX	Sum	Sum

			messages received.			
ISUPPFMUBATX	ACCUMULATION	INTEGER	Number of unblocking acknowledgment messages transmitted.	SYSISUPDPCPERF.ISUPPFMUBATX	Sum	Sum
ISUPPFMUBLRX	ACCUMULATION	INTEGER	Number of unblocking messages received.	SYSISUPDPCPERF.ISUPPFMUBLRX	Sum	Sum
ISUPPFMUBLTX	ACCUMULATION	INTEGER	Number of unblocking messages transmitted.	SYSISUPDPCPERF.ISUPPFMUBLTX	Sum	Sum
ISUPPFMUCICRX	ACCUMULATION	INTEGER	Number of unequipped CIC messages received.	SYSISUPDPCPERF.ISUPPFMUCICRX	Sum	Sum
ISUPPFMUCICTX	ACCUMULATION	INTEGER	Number of unequipped CIC messages transmitted.	SYSISUPDPCPERF.ISUPPFMUCICTX	Sum	Sum
ISUPPFMUPARX	ACCUMULATION	INTEGER	Number of user part available messages received.	SYSISUPDPCPERF.ISUPPFMUPARX	Sum	Sum
ISUPPFMUPATX	ACCUMULATION	INTEGER	Number of user part available messages transmitted.	SYSISUPDPCPERF.ISUPPFMUPATX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

ISUPPFMUP TRX	ACCUMUL ATION	INTE GER	Number of user part test messages received.	SYSISUPDPCPERF.ISUPP FMUPTRX	Sum	Sum
ISUPPFMUP TTX	ACCUMUL ATION	INTE GER	Number of user part test messages transmitted.	SYSISUPDPCPERF.ISUPP FMUPTTX	Sum	Sum
ISUPPFMUS RRX	ACCUMUL ATION	INTE GER	Number of user-to-user messages received.	SYSISUPDPCPERF.ISUPP FMUSRRX	Sum	Sum
ISUPPFMUS RTX	ACCUMUL ATION	INTE GER	Number of user to user messages transmitted.	SYSISUPDPCPERF.ISUPP FMUSRTX	Sum	Sum

7.4.5 DPC.Alcatel_Lucent.GSM.ISUP_Network_Overload_Control

ISUP Network Overload Statistics

KPI	Type	Data Type	Descri ption	Derivation	Defaul t Aggre gator	Other Aggreg ators
IBCALLRJ TATRLVL1	ACCUMUL ATION	INTE GER	Numbe r of Inboun d ISUP calls rejecte d per DPC during Atrium System Overlo ad level 1.	ISUPOVLDPERF.IBCALLRJ TATRLVL1	Sum	Sum
IBCALLRJ TATR	ACCUMUL	INTE	Numbe	ISUPOVLDPERF.IBCALLRJ	Sum	Sum

LVL2	ATION	GER	r of Inbound ISUP calls rejected per DPC during Atrium System Overload level 2.	TATRLVL2		
IBCALLRJ TATRLVL3	ACCUMULATION	INTEGER	Number of Inbound ISUP calls rejected per DPC during Atrium System Overload level 3.	ISUPOVLDPERF.IBCALLRJ TATRLVL3	Sum	Sum
OBCALLRJ TLCLLVL1	ACCUMULATION	INTEGER	Number of Outbound ISUP calls rejected per DPC during local DPC conges	ISUPOVLDPERF.OBCALLRJ TLCLLVL1	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			tion level 1.			
OBCALLRJTLCL LVL2	ACCUMUL ATION	INTE GER	Numbe r of Outbou nd ISUP calls rejecte d per DPC during local DPC conges tion level 2.	ISUPOVLDPERF.OBCALLRJ TLCLLVL2	Sum	Sum
OBCALLRJTLCL LVL3	ACCUMUL ATION	INTE GER	Numbe r of Outbou nd ISUP calls rejecte d per DPC during local DPC conges tion level 3.	ISUPOVLDPERF.OBCALLRJ TLCLLVL3	Sum	Sum
OBCALLRJTRM TLVL1	ACCUMUL ATION	INTE GER	Numbe r of Outbou nd ISUP calls rejecte d per DPC during Remot e DPC	ISUPOVLDPERF.OBCALLRJ TRMTLVL1	Sum	Sum

			ACC conges tion level 1.			
OBCALLRJTRM TLVL2	ACCUMUL ATION	INTE GER	Numbe r of Outbou nd ISUP calls rejecte d per DPC during Remot e DPC ACC conges tion level 2.	ISUPOVLDPERF.OBCALLRJ TRMTLVL2	Sum	Sum
OBCALLRJTRM TLVL3	ACCUMUL ATION	INTE GER	Numbe r of Outbou nd ISUP calls rejecte d per DPC during Remot e DPC ACC conges tion level 3.	ISUPOVLDPERF.OBCALLRJ TRMTLVL3	Sum	Sum
OBCALLRJTUSR UNAVAIL	ACCUMUL ATION	INTE GER	Numbe r of Outbou	ISUPOVLDPERF.OBCALLRJ TUSRUNAVAIL	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			nd ISUP calls rejecte d per DPC during user part unavail able conditi on.			
OBMSGDRPLCL LVL1	ACCUMUL ATION	INTE GER	Numbe r of Outbou nd ISUP messag es droppe d per DPC due to local DPC conges tion level 1.	ISUPOVLDPERF.OBMSGDR PLCLLVL1	Sum	Sum
OBMSGDRPLCL LVL2	ACCUMUL ATION	INTE GER	Numbe r of Outbou nd ISUP messag es droppe d per DPC due to local DPC conges tion level 2.	ISUPOVLDPERF.OBMSGDR PLCLLVL2	Sum	Sum

OBMSGDRPLCL LVL3	ACCUMULATION	INTEGER	Number of Outbound ISUP messages dropped per DPC due to local DPC congestion level 3.	ISUPOVLDPERF.OBMSGDRPLCLLVL3	Sum	Sum
OBMSGDRPUSR UNAVAIL	ACCUMULATION	INTEGER	Number of Outbound ISUP messages dropped per DPC during user part unavailable condition.	ISUPOVLDPERF.OBMSGDRPUSRUNAVAIL	Sum	Sum

7.4.6 DPC.Alcatel_Lucent.GSM.M3UA_Route_Performance

M3UA Route Statistics

KPI	Type	Data	Description	Derivation	Default	Other Aggre
-----	------	------	-------------	------------	---------	-------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

		Type			Aggregator	gators
M3UAROUTEDUPURX	ACCUMULATION	INT 8	Number of times destination user part unavailable received.	SYSM3UAROUTEPERF.M3UAROUTEDUPURX	Sum	Sum
M3UAROUTEDUPUTX	ACCUMULATION	INT 8	Number of times destination user part unavailable transmitted. - SGP	SYSM3UAROUTEPERF.M3UAROUTEDUPUTX	Sum	Sum
M3UAROUTEPFMDAUDRX	ACCUMULATION	INT 8	Number of destination state audit message received	SYSM3UAROUTEPERF.M3UAROUTEPFMDAUDRX	Sum	Sum
M3UAROUTEPFMDAUDTX	ACCUMULATION	INT 8	Number of destination state audit message	SYSM3UAROUTEPERF.M3UAROUTEPFMDAUDTX	Sum	Sum

			transmitted			
M3UAROUTEPFMDAVARX	ACCUMULATION	INT 8	Number of destination available message received	SYSM3UAROUTEPERF.M3UAROUTEPFMDAVARX	Sum	Sum
M3UAROUTEPFMDAVATX	ACCUMULATION	INT 8	Number of destination available message transmitted - SGP	SYSM3UAROUTEPERF.M3UAROUTEPFMDAVATX	Sum	Sum
M3UAROUTEPFMDDESTCONFIG	ACCUMULATION	INT 8	Number of PSP configured for this route	SYSM3UAROUTEPERF.M3UAROUTEPFMDDESTCONFIG	Sum	Sum
M3UAROUTEPFMDUNARX	ACCUMULATION	INT 8	Number of destination unavailable message	SYSM3UAROUTEPERF.M3UAROUTEPFMDUNARX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received			
M3UAROUTEPFMDUNATX	ACCUMULATION	INT8	Number of destination unavailable message transmitted - SGP	SYSM3UAROUTEPERF.M3UAROUTEPFMDUNATX	Sum	Sum
M3UAROUTEPFMMAXDEST	INTENSITY	FLOAT	Maximum number of active PSP available for this route	SYSM3UAROUTEPERF.M3UAROUTEPFMMAXDEST	Constant	Sum, Minimum, Maximum
M3UAROUTEPFMMINDEST	INTENSITY	FLOAT	Minimum number of active PSP available for this Route	SYSM3UAROUTEPERF.M3UAROUTEPFMMINDEST	Minimum	Sum, Minimum, Maximum
M3UAROUTEPFMSCONRX	ACCUMULATION	INT8	Number of Route congestion messages received.	SYSM3UAROUTEPERF.M3UAROUTEPFMSCONRX	Sum	Sum
M3UAROUTEPFM	ACCUMULATION	INT	Number	SYSM3UAROUTEPERF.M3UAR	Sum	Sum

SCONTX	LATION	8	r of Route conges tion messag es transm itted. - SGP	OUTEPFMSCONTX		
M3UAROUTEPFM SIFRX	ACCUMU LATION	INT 8	Numbe r of SIO octets receive d	SYSM3UAROUTEPERF.M3UAR OUTEPFMSIFRX	Sum	Sum
M3UAROUTEPFM SIFTX	ACCUMU LATION	INT 8	Numbe r of SIF Octets transm itted	SYSM3UAROUTEPERF.M3UAR OUTEPFMSIFTX	Sum	Sum
M3UAROUTEPFM SIORX	ACCUMU LATION	INT 8	Numbe r of SIO octets receive d	SYSM3UAROUTEPERF.M3UAR OUTEPFMSIORX	Sum	Sum
M3UAROUTEPFM SIOTX	ACCUMU LATION	INT 8	Numbe r of SIO octets transm itted	SYSM3UAROUTEPERF.M3UAR OUTEPFMSIOTX	Sum	Sum
M3UAROUTEPFM TFRRX	ACCUMU LATION	INT 8	Numbe r of transfe r restrict	SYSM3UAROUTEPERF.M3UAR OUTEPFMTFRRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ed messag e receiv ed			
M3UAROUTEPFM TFRTX	ACCUMU LATION	INT 8	Numbe r of transfe r restrict ed messag e transm itted	SYSM3UAROUTEPERF.M3UAR OUTEPFMTFRTX	Sum	Sum
M3UAROUTERX	ACCUMU LATION	INT 8	Numbe r of transfe r messag es receiv ed.	SYSM3UAROUTEPERF.M3UAR OUTERX	Sum	Sum
M3UAROUTETX	ACCUMU LATION	INT 8	Numbe r of transfe r messag es transm itted.	SYSM3UAROUTEPERF.M3UAR OUTETX	Sum	Sum
M3UAROUTEUN AVDUR	ACCUMU LATION	INT 8	Durati on of Route unavail ability (100 millise cond units).	SYSM3UAROUTEPERF.M3UAR OUTEUNAVDUR	Sum	Sum

7.4.7 DPC.Alcatel_Lucent.GSM.MTP3_Route_Performance

MTP3 Route Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MTP3ROUTEPMRCTR	ACCUMULATION	INT8	Number of route set congestion test messages received.	SYSMTP3ROUTEPMRCTR.MTP3ROUTEPMRCTR	Sum	Sum
MTP3ROUTEPMRCTT	ACCUMULATION	INT8	Number of route set congestion test messages transmitted.	SYSMTP3ROUTEPMRCTT.MTP3ROUTEPMRCTT	Sum	Sum
MTP3ROUTEPMRSMR	ACCUMULATION	INT8	Number of route set test messages received.	SYSMTP3ROUTEPMRSMR.MTP3ROUTEPMRSMR	Sum	Sum
MTP3ROUTEPMRSMT	ACCUMULATION	INT8	Number of route	SYSMTP3ROUTEPMRSMT.MTP3ROUTEPMRSMT	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			set test messag es transmi tted.		
MTP3ROUTEPF MRTEUNAV	ACCUMU LATION	IN T8	Numbe r of times route was unavail able.	SYSMTP3ROUTEPERF.MTP3RO UTEPFMRTEUNAV	Sum Sum
MTP3ROUTEPF MSIFTX	ACCUMU LATION	IN T8	Numbe r of SIF octet messag es transmi tted.	SYSMTP3ROUTEPERF.MTP3RO UTEPFMSIFTX	Sum Sum
MTP3ROUTEPF MSIOTX	ACCUMU LATION	IN T8	Numbe r of SIO octet messag es transmi tted.	SYSMTP3ROUTEPERF.MTP3RO UTEPFMSIOTX	Sum Sum
MTP3ROUTEPF MTFARX	ACCUMU LATION	IN T8	Numbe r of transfer allowed messag es receiv ed.	SYSMTP3ROUTEPERF.MTP3RO UTEPFMTFARX	Sum Sum
MTP3ROUTEPF MTFATX	ACCUMU LATION	IN T8	Numbe r of transfer allowed messag es transmi tted.	SYSMTP3ROUTEPERF.MTP3RO UTEPFMTFATX	Sum Sum

MTP3ROUTEPM TFMFCRX	ACCUMU LATION	IN T8	Numbe r of transfer contro lled messag es receiv ed.	SYSMTP3ROUTEPM.TMTP3RO UTEPMFCRX	Sum	Sum
MTP3ROUTEPM TFMCTX	ACCUMU LATION	IN T8	Numbe r of transfer contro lled messag es transmi tted.	SYSMTP3ROUTEPM.TMTP3RO UTEPMCTX	Sum	Sum
MTP3ROUTEPM TFMPRX	ACCUMU LATION	IN T8	Numbe r of transfer prohibit ed messag es receiv ed.	SYSMTP3ROUTEPM.TMTP3RO UTEPMMPRX	Sum	Sum
MTP3ROUTEPM TFMPTX	ACCUMU LATION	IN T8	Numbe r of transfer prohibit ed messag es transmi tted.	SYSMTP3ROUTEPM.TMTP3RO UTEPMPTX	Sum	Sum
MTP3ROUTEPM TFMRRX	ACCUMU LATION	IN T8	Numbe r of	SYSMTP3ROUTEPM.TMTP3RO UTEPMRRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			transfer restrict ed messag es receiv ed.			
MTP3ROUTEPM TFRTX	ACCUMU LATION	IN T8	Numbe r of transfer restrict messag es transmi tted.	SYSMTP3ROUTEPERF.MTP3RO UTEPMFRTX	Sum	Sum
MTP3ROUTEPM UNAVDUR	ACCUMU LATION	IN T8	Duratio n of route unavail ability (100 millise cond units).	SYSMTP3ROUTEPERF.MTP3RO UTEPMUNAVDUR	Sum	Sum

7.5 DSP_PI Performance Indicators

This section shows the key performance indicators and other counters for the DSP_PI object, divided into the following sub-sections:

- [DSP_PI.Alcatel_Lucent.GSM.TDM_DSP_Usage_Performance](#)

7.5.1 DSP_PI.Alcatel_Lucent.GSM.TDM_DSP_Usage_Performance

DSP TDM Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MSFTDMSYS DSPALLOCCHANNELS	ACCUMULATION	INTEGER	Number of allocated	DSPUSAGEPERF.MSFTDMSYS DSPALLOCCHANNELS	Sum	Sum

			ted DSP chann els in this DSP Pool.			
MSFTDMSYSDSPCHAN NELS	ACCUM ULATIO N	INT EGE R	Num ber of DSP chann els in this DSP Pool (inclu ding out of- servic e chann els.)	DSPUSAGEPERF.MSFTDMSYS DSPCHANNELS	Sum	Sum
MSFTDMSYSDSPFRE ECHANNELS	ACCUM ULATIO N	INT EGE R	Num ber of availa ble (and in- servic e) DSP chann els in this DSP Pool.	DSPUSAGEPERF.MSFTDMSYS DSPFREECHANNELS	Sum	Sum
MSFTDMSYSDSPMA XALLOCCHANNELS	INTENSI TY	INT EGE	Maxi mum	DSPUSAGEPERF.MSFTDMSYS DSPMAXALLOCCHANNELS	Const ant	Avera ge,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

		R	number of DSP channels allocated in this DSP Pool since this counter was last reset.		Maximum, Minimum, Sum	
MSFTDMSYSDSPSUCALLOCREQUESTS	ACCUMULATION	INTEGER	The number of DSP channel allocation requests that were successful.	DSPUSAGEPERF.MSFTDMSYSDSPSUCCALLOCREQUESTS	Sum	Sum
MSFTDMSYSDSPUNSUCCALLOCREQS	ACCUMULATION	INTEGER	The number of DSP channel allocation requests that were unsuccessful.	DSPUSAGEPERF.MSFTDMSYSDSPUNSUCCALLOCREQS	Sum	Sum

			ul (as there were no available DSP channels).		
--	--	--	---	--	--

7.6 Emergency_Services_Zone Performance Indicators

This section shows the key performance indicators and other counters for the Emergency_Services_Zone object, divided into the following sub-sections:

- [Emergency_Services_Zone.Alcatel_Lucent.GSM.ESRK_Performance](#)

7.6.1 Emergency_Services_Zone.Alcatel_Lucent.GSM.ESRK_Performance

ESRK Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ESRKALLOCFAILURE	ACCUMULATION	INTEGER	Number of times system failed to allocate ESRK Number.	ESRKPOOLPERF.ESRKALLOCFAILURE	Sum	Sum
ESRKPOOL1ALLOCATED	ACCUMULATION	INTEGER	Number of ESRK	ESRKPOOLPERF.ESRKPOOL1ALLOCATED	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Numbers that are allocated from 1st ESRK pool.			
ESRKPOOL1IDLE	ACCUMULATION	INTEGER	Number of ESRK Numbers that are available in 1st ESRK pool.	ESRKPOOLPERF.ESRKPOOL1IDLE	Sum	Sum
ESRKPOOL2ALLOCATED	ACCUMULATION	INTEGER	Number of ESRK Numbers that are allocated from 2nd ESRK pool.	ESRKPOOLPERF.ESRKPOOL2ALLOCATED	Sum	Sum
ESRKPOOL2IDLE	ACCUMULATION	INTEGER	Number of ESRK Numbers that are available in 2nd ESRK pool.	ESRKPOOLPERF.ESRKPOOL2IDLE	Sum	Sum

ESRKPOOL3ALLOCATED	ACCUMULATION	INTEGER	Number of ESRK Numbers that are allocated from 3rd ESRK pool.	ESRKPOOLPERF.ESRKPOOL3ALLOCATED	Sum	Sum
ESRKPOOL3IDLE	ACCUMULATION	INTEGER	Number of ESRK Numbers that are available in 3rd ESRK pool.	ESRKPOOLPERF.ESRKPOOL3IDLE	Sum	Sum

7.7 HLR Performance Indicators

This section shows the key performance indicators and other counters for the HLR object, divided into the following sub-sections:

- [HLR.Alcatel_Lucent.GSM.VLR_Utilization_Performance](#)

7.7.1 HLR.Alcatel_Lucent.GSM.VLR_Utilization_Performance

VLR Utilization Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
-----	------	-----------	-------------	------------	--------------------	-------------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

HOMECOUNTRYACTIVEROAMER	INTERNET	INTER	The number of Active Home Country Users from other PLMN. Home country active roamer = (Home_country_Active_subs) - (Home_PLMNActive_Subs): the subscriber that the same MCC as the equivalent MCCs of the Home PLMN	VLRUTILIZATIONPERF.HOMECOUNTRYACTIVEROAMER	Average	Average, Maximum, Minimum, Sum

			configured in VLR but different MNC.			
INTERNATIONALACT IVEROAMER	INTE NSIT Y	INT EG ER	The number of International active subscriber roamer into VLR. International_Active_Roamer = Total active subs - Home_country_active_subs. A subscriber is considered international	VLRUTILIZATIONPERF.INTERNATIONALACTIVEROAMER	Average	Average, Maximum, Minimum, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			s of the Home PLM N config ured in VLR			
TOTALNUMOFACTS UBREGINVLR	INTE NSIT Y	INT EG ER	Total numb er of active subscr iber regist ed in VLR, a subscr iber is consid ered active if the subscr iber data in VLR is marke d as attach ed	VLRUTILIZATIONPERF.TOTALNU MOFACTSUBREGINVLR	Aver age	Avera ge, Maxi mum, Mini mum, Sum
TOTALNUMOFCAME LACTSUBINVLR	INTE NSIT Y	INT EG ER	The total numb er of active	VLRUTILIZATIONPERF.TOTALNU MOFCAMELACTSUBINVLR	Aver age	Avera ge, Maxi mum, Mini

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			CAM EL subscr iber regist ered in the VLR that are marke d attach ed and has at least one entry for either O- CSI, D- CSI, SMS CSI, SS- CSI, MM- CSI, TIF- CSI, VT- CSI.			mum, Sum
TOTALNUMOFDETA CHEDSUBREGINVLR	INTE NSIT Y	INT EG ER	Total numb er of Detac hed subscr iber regist ed in VLR,	VLRUTILIZATIONPERF.TOTALNU MOFDETA CHEDSUBREGINVLR	Aver age	Avera ge, Maxi mum, Mini mum, Sum

			a subscriber is considered detached if the subscriber data in VLR is marked as detached		
TOTALNUMOFHOMECOUNTACTSUBINVLR	INTE NSIT Y	INT EG ER	Total number of home country active subscriber in VLR. A subscriber is considered home country active subscriber if it is	VLRUTILIZATIONPERF.TOTALNUMOFHOMECOUNTACTSUBINVLR	Average, Maximum, Minimum, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			marked as attached and has the same MCC as the equivalent MCCs of the Home PLMN configured in VLR.		
TOTALSUBRECORDS	INTENSITY	INTER	Total Subscriber Records	VLRUTILIZATIONPERF.TOTALSUBRECORDS	Average, Maximum, Minimum, Sum

7.8 IPM_MGW Performance Indicators

This section shows the key performance indicators and other counters for the IPM_MGW object, divided into the following sub-sections:

- [IPM_MGW.Alcatel_Lucent.GSM.H248_Performance](#)

7.8.1 IPM_MGW.Alcatel_Lucent.GSM.H248_Performance

H248 Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
-----	------	-----------	-------------	------------	--------------------	-------------------

CALLATTH248ADD	ACCUM ULATION	INTER	Number of H.248 Add messages .	CALLH248PERF.CALLATTH2 48ADD	Sum	Sum
CALLATTH248AUDI TVALUE	ACCUM ULATION	INTER	Number of H.248 AUDITV ALUE messages .	CALLH248PERF.CALLATTH2 48AUDITVALUE	Sum	Sum
CALLATTH248MODI FY	ACCUM ULATION	INTER	Number of H.248 Modify messages .	CALLH248PERF.CALLATTH2 48MODIFY	Sum	Sum
CALLATTH248MOVE	ACCUM ULATION	INTER	Number of H.248 Move messages .	CALLH248PERF.CALLATTH2 48MOVE	Sum	Sum
CALLATTH248NOTIF YALL	ACCUM ULATION	INTER	Number of H.248 NOTIFY (any event) messages .	CALLH248PERF.CALLATTH2 48NOTIFYALL	Sum	Sum
CALLATTH248NOTIF YINACT	ACCUM ULATION	INTER	Number of NOTIFY (inactivit y timer event) messages .	CALLH248PERF.CALLATTH2 48NOTIFYINACT	Sum	Sum
CALLATTH248NOTIF	ACCUM	INT	Number	CALLH248PERF.CALLATTH2	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

YMGWCONGEND	ULATIO N	EG ER	of NOTIFY messages , Congesti on Stop	48NOTIFYMGWCONGEND		
CALLATTH248NOTIFYMGWCONGSTART	ACCUM ULATIO N	INT EG ER	Number of NOTIFY messages , Congesti on Start	CALLH248PERF.CALLATTH248NOTIFYMGWCONGSTART	Sum	Sum
CALLATTH248SERVICECHANGERECEV	ACCUM ULATIO N	INT EG ER	Number of SERVIC ECHAN GE (root and non root) received	CALLH248PERF.CALLATTH248SERVICECHANGERECEV	Sum	Sum
CALLATTH248SERVICECHANGESEND	ACCUM ULATIO N	INT EG ER	Number of SERVIC ECHAN GE (root) send	CALLH248PERF.CALLATTH248SERVICECHANGESEND	Sum	Sum
CALLATTH248SUBTRACT	ACCUM ULATIO N	INT EG ER	Number of H.248 Subtract messages .	CALLH248PERF.CALLATTH248SUBTRACT	Sum	Sum
CALLSUCCH248ADD	ACCUM ULATIO N	INT EG ER	Number of successfu ll ADD Reply messages .	CALLH248PERF.CALLSUCCH248ADD	Sum	Sum
CALLSUCCH248MODIFY	ACCUM ULATIO N	INT EG ER	Number of successfu	CALLH248PERF.CALLSUCCH248MODIFY	Sum	Sum

			II MODIF Y Reply messages .			
CALLSUCCH248MOVE	ACCUM ULATION	INT EG ER	Number of successfu II MOVE Reply messages .	CALLH248PERF.CALLSUCCH 248MOVE	Sum	Sum
CALLSUCCH248SERVICECHANGEDISC	ACCUM ULATION	INT EG ER	Number of SERVIC ECHAN GE received, cause Disconne cted	CALLH248PERF.CALLSUCCH 248SERVICECHANGEDISC	Sum	Sum
CALLSUCCH248SERVICECHANGEFAIL	ACCUM ULATION	INT EG ER	Number of SERVIC ECHAN GE received, cause Failover	CALLH248PERF.CALLSUCCH 248SERVICECHANGEFAIL	Sum	Sum
CALLSUCCH248SERVICECHANGEFORC	ACCUM ULATION	INT EG ER	Number of SERVIC ECHAN GE received, cause Forced	CALLH248PERF.CALLSUCCH 248SERVICECHANGEFORC	Sum	Sum
CALLSUCCH248SER	ACCUM	INT	Number	CALLH248PERF.CALLSUCCH	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

VICECHANGEGRAC	ULATIO N	EG ER	of SERVIC ECHAN GE received, cause Graceful	248SERVICECHANGEGRAC		
CALLSUCCH248SER VICECHANGEHAND	ACCUM ULATIO N	INT EG ER	Number of SERVIC ECHAN GE received, cause Handoff	CALLH248PERF.CALLSUCCH 248SERVICECHANGEHAND	Sum	Sum
CALLSUCCH248SER VICECHANGEREST	ACCUM ULATIO N	INT EG ER	Number of SERVIC ECHAN GE received, cause Restart	CALLH248PERF.CALLSUCCH 248SERVICECHANGEREST	Sum	Sum
CALLSUCCH248SUB TRACT	ACCUM ULATIO N	INT EG ER	Number of successfu ll SUBSTR ACT Reply messages .	CALLH248PERF.CALLSUCCH 248SUBTRACT	Sum	Sum
CALLUNSUCCH248A DDMODMOVUNKTRI D	ACCUM ULATIO N	INT EG ER	Number of unsucces sful ADD/M OD/MO VE Reply messages , cause Unknow	CALLH248PERF.CALLUNSUC CH248ADDMODMOVUNKTRI D	Sum	Sum

			n Terminat ion Id			
CALLUNSUCCH248A DDMODNOBAND	ACCUM ULATIO N	INT EG ER	Number of unsucces sful ADD/M OD Reply messages , cause insufficie nt Bandwidt h	CALLH248PERF.CALLUNSUC CH248ADDMODNOBAND	Sum	Sum
CALLUNSUCCH248A DDMODNORES	ACCUM ULATIO N	INT EG ER	Number of unsucces sful ADD/M OD Reply messages , cause Insufficie nt Resource s	CALLH248PERF.CALLUNSUC CH248ADDMODNORES	Sum	Sum
CALLUNSUCCH248A DDMODPLAYANN	ACCUM ULATIO N	INT EG ER	Number of unsucces sful ADD/M OD Reply messages , Play Announc	CALLH248PERF.CALLUNSUC CH248ADDMODPLAYANN	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ement			
CALLUNSUCCH248ADDMOVENOCTX	ACCUMULATION	INTEGER	Number of unsuccessful ADD/MOVE Reply messages , cause No Context Available	CALLH248PERF.CALLUNSUCCH248ADDMOVENOCTX	Sum	Sum
CALLUNSUCCH248ADDNOTERMI	ACCUMULATION	INTEGER	Number of unsuccessful ADD Reply messages , cause No Termination Available .	CALLH248PERF.CALLUNSUCCH248ADDNOTERMI	Sum	Sum
CALLUNSUCCH248ADDTERMIDOUTSER	ACCUMULATION	INTEGER	Number of unsuccessful ADD Reply messages , cause Termination Out Of Service	CALLH248PERF.CALLUNSUCCH248ADDTERMIDOUTSER	Sum	Sum
CUMULATETIMEOVERLOAD	ACCUMULATION	INTEGER	Cumulated Time of Overload .	CALLH248PERF.CUMULATETIMEOVERLOAD	Sum	Sum

7.9 IWF Performance Indicators

This section shows the key performance indicators and other counters for the IWF object, divided into the following sub-sections:

- [IWF.Alcatel_Lucent.GSM.IWF_Group_Performance](#)

7.9.1 IWF.Alcatel_Lucent.GSM.IWF_Group_Performance

Inter-Working Function Group Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CIRCUITSPROV	INTENSITY	INTEGER	Number of circuits provisioned.	MSFIWFGRPPERF.CIRCUITSPROV	Average	Average, Maximum, Minimum, Sum
MAXRESOURCEAVAIL	INTENSITY	INTEGER	Maximum number of idle circuits available during this collection interval.	MSFIWFGRPPERF.MAXRESOURCEAVAIL	Constant	Average, Maximum, Minimum, Sum
MINRESOURCEAVAIL	INTENSITY	INTEGER	Minimum number of idle circuits available during this collection interval.	MSFIWFGRPPERF.MINRESOURCEAVAIL	Minimum	Average, Maximum, Minimum, Sum
MINRESOURCE	ACCUMULATED	INT	Whether the	MSFIWFGRPPERF.MINRES	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

AVAILVALID	LATION	EGE R	value in field MINRESOU RCEAVAIL is a valid value or not.	OURCEAVAILVALID		
MOBILEORIGA TTEMPTS	ACCUMU LATION	INT EGE R	Mobile originated attempts.	MSFIWFGRPPERF.MOBILE ORIGATTEMPTS	Sum	Sum
MOBILETERMA TTEMPTS	ACCUMU LATION	INT EGE R	Mobile terminated attempts.	MSFIWFGRPPERF.MOBILE TERMATTEMPTS	Sum	Sum
NUMOFRESOU RCE	INTENSI TY	INT EGE R	Number of circuits in- service in the IWF facility.	MSFIWFGRPPERF.NUMOF RESOURCE	Avera ge	Avera ge, Maxim um, Minim um, Sum
OVERFLOW	ACCUMU LATION	INT EGE R	Number of calls that are denied because of circuit unavailability .	MSFIWFGRPPERF.OVERF LOW	Sum	Sum
TOTALUSAGES EC	ACCUMU LATION	INT EGE R	Total time in seconds that there are active calls (during this collection interval).	MSFIWFGRPPERF.TOTAL USAGESEC	Sum	Sum

7.10 LAC Performance Indicators

This section shows the key performance indicators and other counters for the LAC object, divided into the following sub-sections:

- [LAC.Alcatel_Lucent.GSM.BSSAP_Mobile_Performance](#)

7.10.1 LAC.Alcatel_Lucent.GSM.BSSAP_Mobile_Performance

LAC BSSAP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ANSMSEMRGNCYCALLS	ACCUMULATION	INTEGER	Number of answered emergency calls pegged when connect message is sent to originating MS.	BSSAPPERF.ANSMSEMRGNCYCALLS	Sum	Sum
ANSMSORIGCALLS	ACCUMULATION	INTEGER	Number of answered calls for mobile originating traffic pegged when connect_ack message is receive	BSSAPPERF.ANSMSORIGCALLS	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			d from MS to MSC.			
ANSMSTERCALLS	ACCUM ULATIO N	INT EGE R	Numbe r of answer ed calls for mobile termina ting traffic pegged when connect _ack messag e is sent from MSC to MS.	BSSAPPERF.ANSMSTERCAL LS	Sum	Sum
ATTACHSUCC	ACCUM ULATIO N	INT EGE R	Numbe r of success ful attache s.	BSSAPPERF.ATTACHSUCC	Sum	Sum
ATTAUTH	ACCUM ULATIO N	INT EGE R	Numbe r of attempt ed Authen tication proced ures pegged when authent ication request is sent to MS.	BSSAPPERF.ATTAUTH	Sum	Sum

ATTCIPHRMDCTRPROCS	ACCUMULATION	INTEGER	Number of ciphering mode control procedures transmitted.	BSSAPPERF.ATTCIPHRMDCTRPROCS	Sum	Sum
ATTINEXTINTRAMSCHDO	ACCUMULATION	INTEGER	Number of intra-MSC target cell handover procedures initiated (pegged at dispatch of BSSMAP:Handover Request)	BSSAPPERF.ATTINEXTINTRAMSCHDO	Sum	Sum
ATTINTERINHOCTM CALLS	ACCUMULATION	INTEGER	Number of attempted Incoming Inter-MSC HO for	BSSAPPERF.ATTINTERINHOCTM CALLS	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			CTM Calls.			
ATTINTEROUTHOC TMCALLS	ACCUM ULATION	INT EGER	Numbe r of attempt ed Outgoi ng Inter- MSC HO for CTM Calls.	BSSAPPERF.ATTINTEROUT HOCTMCALLS	Sum	Sum
ATTINTERVLRLOCU PD	ACCUM ULATION	INT EGER	Numbe r of attempt ed (incomi ng) inter VLR locatio n update pegged when MAP Update Locatio n Req is receiv ed by VLR with no subscri ber record in VLR.	BSSAPPERF.ATTINTERVLR LOCUPD	Sum	Sum
ATTINTRAHOCTMC ALLS	ACCUM ULATION	INT EGER	Numbe r of attempt ed Intra	BSSAPPERF.ATTINTRAHOC TMCALLS	Sum	Sum

			MSC HO CTM Calls			
ATTINTRA VLRLOCUPD	ACCUM ULATIO N	INT EGE R	Numbe r of attempt ed intra VLR locatio n update (all types) pegged when MAP Update Locatio n Req is receive d by VLR with subscri ber record already in VLR	BSSAPPERF.ATTINTRA VLR LOCUPD	Sum	Sum
ATTMSEMRGNCYCALLS	ACCUM ULATIO N	INT EGE R	Numbe r of emerge ncy call attempt s pegged when emerge ncy	BSSAPPERF.ATTMSEMRGN CYCALLS	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			setup messag e is receiv ed from originat ing MS.		
ATTMSORIGCALLS	ACCUM ULATIO N	INT EGE R	Numbe r of call attempt s for mobile originat ing traffic pegged when setup messag e is receiv ed from originat ing MS.	BSSAPPERF.ATTMSORIGCA LLS	Sum Sum
ATTMSTERCALLS	ACCUM ULATIO N	INT EGE R	Numbe r of call attempt s for mobile termina ting traffic pegged when setup messag e is sent to the termina ting MS.	BSSAPPERF.ATTMSTERCAL LS	Sum Sum

ATTOUTEXTINTRAM SCHO	ACCUM ULATIO N	INT EGE R	Numbe r of intra- MSC but inter- BSC Handov er attempt s pegged when HO require d is receive d from serving BSS and attempt is being made to send HO request to the target BSS.	BSSAPPERF.ATTOUTEXTIN TRAMSCHO	Sum	Sum
ATTPAGEMSIMSI	ACCUM ULATIO N	INT EGE R	Numbe r of Paging Attemp ts (within LAC) with IMSI pegged	BSSAPPERF.ATTPAGEMSIM SI	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			when paging messag e includi ng only IMSI is sent to BSS.		
ATTPAGEMSTMSI	ACCUM ULATIO N	INT EGE R	Numbe r of Paging Attemp ts (within LAC) with TMSI pegged when paging messag e includi ng both TMSI and IMSI is sent to the BSS.	BSSAPPERF.ATTPAGEMST MSI	Sum Sum
ATTPERIINTRA VLR LOCUPD	ACCUM ULATIO N	INT EGE R	Numbe r of attempt ed periodi c intra VLR locatio n update.	BSSAPPERF.ATTPERIINTRA VLRLOCUPD	Sum Sum
ATTSEARCHMSIMSI	ACCUM ULATIO N	INT EGE R	Numbe r of Global	BSSAPPERF.ATTSEARCHMS IMSI	Sum Sum

			Search Attempts with IMSI pegged when paging message is sent to BSS with global paging (all cells in the BSS).			
ATTTMSIREALOC	ACCUMULATION	INTEGER	Number of TMSI re-allocation attempts	BSSAPPERF.ATTTMSIREALOC	Sum	Sum
CALLVLRRGSTRDSUBFROMOTHRPLMN	ACCUMULATION	INTEGER	Number of roamers registered in the VLR	BSSAPPERF.CALLVLRRGSTRDSUBFROMOTHRPLMN	Sum	Sum
CLAUTHREJSPCHCALL	ACCUMULATION	INTEGER	Number of "Authentication	BSSAPPERF.CLAUTHREJSPCHCALL	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			reject" sent by MSC.			
EXTHDO	ACCUM ULATIO N	INT EGE R	Numbe r of handov ers initiate d (pegge d at receipt of BSSM AP:Ha ndover Require d).	BSSAPPERF.EXTHDO	Sum	Sum
IMPLICITDETACH	ACCUM ULATIO N	INT EGE R	Total Numbe r of subscri bers implicit ly detache d (i.e. by VLR audit).	BSSAPPERF.IMPLICITDETA CH	Sum	Sum
IMSIATTACHPROCS	ACCUM ULATIO N	INT EGE R	Numbe r of IMSI Attach proced ures	BSSAPPERF.IMSIATTACHPR OCS	Sum	Sum
IMSIDETACHPROCS	ACCUM ULATIO N	INT EGE R	Numbe r of IMSI Detach proced ures	BSSAPPERF.IMSIDETACHPR OCS	Sum	Sum
INTRABSCHANDOVE	ACCUM	INT	Numbe	BSSAPPERF.INTRABSCHAN	Sum	Sum

R	ULATIO N	EGE R	r of Intra BSC Handov er pegged when . Handov er perfor med. messag e is receiv ed from the BSS.	DOVER		
MSEMRGNCYCMSRV CREQ	ACCUM ULATIO N	INT EGE R	Numbe r of Emerge ncy CM Service Reques ts.	BSSAPPERF.MSEMRGNCYC MSRVCREQ	Sum	Sum
MSORIGCMSRVCRE Q	ACCUM ULATIO N	INT EGE R	CM Service Reques t from originat ing MS.	BSSAPPERF.MSORIGCMSRV CREQ	Sum	Sum
NBRCLSMRKUPDT	ACCUM ULATIO N	INT EGE R	Numbe r of Classm ark Update s.	BSSAPPERF.NBRCLSMRKU PDT	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

PAGERETRYTIMES	ACCUM ULATIO N	INT EGE R	Numbe r of Paging Retry(i e.Pagin g Repeat, or 2nd Paging/ 3rd Paging) for given LAC after the first paging no respons e.	BSSAPPERF.PAGERETRYTI MES	Sum	Sum
REJLUPLACNOTALL OWED	ACCUM ULATIO N	INT EGE R	Numbe r of Locatio n Update s rejected due to Locatio n Area not allowed . LUP Rejecti on Cause value is 12.	BSSAPPERF.REJLUPLACNO TALLOWED	Sum	Sum
REJLUPPLMNNOTAL LOWED	ACCUM ULATIO N	INT EGE R	Numbe r of Locatio n Update s rejected	BSSAPPERF.REJLUPPLMNN OTALLOWED	Sum	Sum

			due to visitor. s PLMN not allowed . LUP Rejecti on Cause value is 11. Peg ged when HLR is not found from IMSI.			
REJLUPROAMNOTAL LOWED	ACCUM ULATIO N	INT EGE R	Numbe r of Locatio n Update s rejected due to roamin g not allowed in this locatio n area. LUP Rejecti on Cause value is 13.	BSSAPPERF.REJLUPROAMN OTALLOWED	Sum	Sum
SUCCAUTH	ACCUM	INT	Numbe	BSSAPPERF.SUCCAUTH	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	ULATIO N	EGE R	r of success ful Authen tication proced ures pegged when authent ication respons e is receive d from the MS.			
SUCCCIPHRMDCTRPROCS	ACCUM ULATIO N	INT EGE R	Numbe r of success ful cipheri ng mode control proced ures.	BSSAPPERF.SUCCCIPHRMDCTRPROCS	Sum	Sum
SUCCINEXTINTRAM SCHDO	ACCUM ULATIO N	INT EGE R	Numbe r of intra- MSC target cell handov er proced ures success fully comple ted (pegge d at receipt of BSSM	BSSAPPERF.SUCCINEXTINT RAMSCHDO	Sum	Sum

			AP:Handover Complete)			
SUCCINTERINHOCTMCALLS	ACCUMULATION	INTEGER	Number of successful Incoming Inter-MSC HO for CTM Calls.	BSSAPPERF.SUCCINTERINH OCTMCALLS	Sum	Sum
SUCCINTEROUTHOC TMCALLS	ACCUMULATION	INTEGER	Number of successful Outgoing Inter-MSC HO for CTM Calls	BSSAPPERF.SUCCINTEROU THOCTMCALLS	Sum	Sum
SUCCINTERVLRLOCUPD	ACCUMULATION	INTEGER	Number of successful (incoming) inter VLR location update pegged when	BSSAPPERF.SUCCINTERVL RLOCUPD	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			MAP Update Location Response is sent from VLR to the MSC after VLR retrieves subscriber record.		
SUCCINTRAHOCTMCALLS	ACCUMULATION	INTEGER	Number of successful Intra MSC HO for CTM Calls.	BSSAPPERF.SUCCINTRAHOCTMCALLS	Sum Sum
SUCCINTRAVLRLOCUPD	ACCUMULATION	INTEGER	Number of successful intra VLR location update (all types) pegged when MAP Update Location Response is sent from VLR to	BSSAPPERF.SUCCINTRAVLRLOCUPD	Sum Sum

			the MSC after VLR subscri ber record is updated .			
SUCCMSEMRGNCYCALLS	ACCUM ULATION	INT EGE R	Numbe r of success ful emerge ncy calls pegged when assign ment comple te messag e is receive d from originat ing MS.	BSSAPPERF.SUCCMSEMRG NCYCALLS	Sum	Sum
SUCCMSORIGCALLS	ACCUM ULATION	INT EGE R	Numbe r of success ful calls for mobile originat ing traffic	BSSAPPERF.SUCCMSORIGC ALLS	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			pegged when assignment complete message is received from originating MS.		
SUCCMSTERCALLS	ACCUMULATION	INTEGER	Number of successful calls for mobile terminating traffic pegged when assignment complete message is received from terminating MS.	BSSAPPERF.SUCCMSTERCALLS	Sum Sum
SUCCOUTEXTINTRAMSCHDO	ACCUMULATION	INTEGER	Number of intra-MSC serving cell handover proced	BSSAPPERF.SUCCOUTEXTINTRAMSCHDO	Sum Sum

			ures success fully comple ted (pegge d at receipt of BSSM AP: Cle ar Comple te)			
SUCCPAGEMSIMSI	ACCUM ULATIO N	INT EGE R	Numbe r of Success ful Paging (within LAC) with IMSI pegged when paging respons e is receive d from the BSS to paging messag e with IMSI only.	BSSAPPERF.SUCCPAGEMSI MSI	Sum	Sum
SUCCPAGEMSTMSI	ACCUM ULATIO N	INT EGE R	Numbe r of Success	BSSAPPERF.SUCCPAGEMST MSI	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ful Paging (within LAC) with TMSI pegged when Paging response is received from BSS to paging message with TMSI and IMSI.		
SUCCPERIINTRAVLR LOCUPD	ACCUM ULATION	INT EGER	Numbe r of success ful periodi c intra VLR locatio n update.	BSSAPPERF.SUCCPERIINTR AVLRLOCUPD	Sum Sum
SUCCSEARCHMSIMS I	ACCUM ULATION	INT EGER	Numbe r of Success ful Global Searches with IMSI pegged when paging response is receive d to	BSSAPPERF.SUCCSEARCH MSIMSI	Sum Sum

			global paging from BSS.			
SUCCTMSIREALOC	ACCUM ULATIO N	INT EGE R	Numbe r of success fully perfor med TMSI re- allocati ons.	BSSAPPERF.SUCCTMSIREA LOC	Sum	Sum
TOTALACTIVESUB	ACCUM ULATIO N	INT EGE R	Numbe r of all vlr subscri bers in the VLR, it provide s a snap shot of total subscri bers in the VLR databas e.	BSSAPPERF.TOTALACTIVE SUB	Sum	Sum
TOTALSUBATTACHE D	ACCUM ULATIO N	INT EGE R	Power- On Subscri ber Numbe r in VLR(R eserved	BSSAPPERF.TOTALSUBATT ACHED	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			for future use).		
TRANSSUBIDWIMSI	ACCUMULATION	INTEGER	Number of transactions where mobile subscriber was identified with his IMSI.	BSSAPPERF.TRANSSUBIDWIMSI	Sum Sum
TRANSSUBIDWTMSI	ACCUMULATION	INTEGER	Number of transactions where mobile subscriber was identified with his TMSI.	BSSAPPERF.TRANSSUBIDWTMSI	Sum Sum
UNSCCEXTHDOREC NCTPERMSC	ACCUMULATION	INTEGER	Number of unsuccessful Handovers with reconnect to the original channels pegged when HO failure	BSSAPPERF.UNSCCEXTHDOREC NCTPERMSC	Sum Sum

			received from the serving RAN (radio access network).		
UNSCEXTHDOLOSSC NCTPERMSC	ACCUM ULATION	INT EGER	Number of unsuccessful Handovers with loss of the call pegged when Clear Request message is received from the serving RAN.	BSSAPPERF.UNSCEXTHDOL OSSC NCTPERMSC	Sum Sum

7.11 MGW_CPU Performance Indicators

This section shows the key performance indicators and other counters for the MGW_CPU object, divided into the following sub-sections:

- [MGW_CPU.Alcatel_Lucent.GSM.WMG_CPU_Usage](#)

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

7.11.1 MGW_CPU.Alcatel_Lucent.GSM.WMG_CPU_Usage

MGW CPU Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MSFCPULOAD15MIN	INTENSITY	FLOAT	Mean occupancy (percentage) across the entire 15-minute performance interval.	MSFCPULOAD.MSFCPULOAD15MIN	Average	Average, Maximum, Minimum, Sum
MSFCPULOAD15SEC	INTENSITY	FLOAT	Mean occupancy (percentage) across last 15 seconds in the performance interval.	MSFCPULOAD.MSFCPULOAD15SEC	Average	Average, Maximum, Minimum, Sum
MSFCPULOAD1MIN	INTENSITY	FLOAT	Mean occupancy (percentage) across last 1 minute in the performance interval.	MSFCPULOAD.MSFCPULOAD1MIN	Average	Average, Maximum, Minimum, Sum
MSFCPULOAD1SEC	INTENSITY	FLOAT	Mean occupancy (percentage) across last 1 second in the performance interval.	MSFCPULOAD.MSFCPULOAD1SEC	Average	Average, Maximum, Minimum, Sum
MSFCPULOAD30SEC	INTENSITY	FLOAT	Mean occupancy	MSFCPULOAD.MSFCPULOAD30SEC	Average	Average, Maximum

			(percentage) across last 30 seconds in the performance interval.			m, Minimum, Sum
MSFCPULOAD5MIN	INTENSITY	FLOAT	Mean occupancy (percentage) across last 5 minutes in the performance interval.	MSFCPULOAD.MSFCPULOAD5MIN	Average	Average, Maximum, Minimum, Sum
MSFCPULOAD5SEC	INTENSITY	FLOAT	Mean occupancy (percentage) across last 5 seconds in the performance interval.	MSFCPULOAD.MSFCPULOAD5SEC	Average	Average, Maximum, Minimum, Sum

7.12 MGW_Interconnect Performance Indicators

This section shows the key performance indicators and other counters for the MGW_Interconnect object, divided into the following sub-sections:

- [MGW_Interconnect.Alcatel_Lucent.GSM.TDM_Interconnect_Performance](#)

7.12.1 MGW_Interconnect.Alcatel_Lucent.GSM.TDM_Interconnect_Performance

TDM Interconnect Statistics

KPI	Type	Data Type	Description	Derivation	Default	Other Aggre
-----	------	-----------	-------------	------------	---------	-------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

					Aggr egato r	gators
GATEWAYNOD E1ATTEMPTS	ACCUMU LATION	INT EGE R	Number of Call attempts coming from Gateway Node - 1.	ICONCARDPERF.GATEW AYNODE1ATTEMPTS	Sum	Sum
GATEWAYNOD E2ATTEMPTS	ACCUMU LATION	INT EGE R	Number of Call attempts coming from Gateway Node -2.	ICONCARDPERF.GATEW AYNODE2ATTEMPTS	Sum	Sum
INSERVICERES OURCES	ACCUMU LATION	INT EGE R	Total Number of resources/circ uits in service.	ICONCARDPERF.INSERVI CERESOURCES	Sum	Sum
MAXRESOURCE AVAIL	INTENSI TY	FLO AT	Maximum number of idle circuits available observed.	ICONCARDPERF.MAXRES OURCEAVAIL	Const ant	Sum, Minim um, Maxim um
MINRESOURCE AVAIL	INTENSI TY	FLO AT	Minimum number of resources available.	ICONCARDPERF.MINRES OURCEAVAIL	Mini mum	Sum, Minim um, Maxim um
MINRESOURCE AVAILVALID	ACCUMU LATION	INT EGE R	This a flag that indicates whether the value in the above field MINRESOU RCEAVAIL is a valid value or not.	ICONCARDPERF.MINRES OURCEAVAILVALID	Null	
OVERFLOW	ACCUMU LATION	INT EGE R	Number of calls that are turned away when there	ICONCARDPERF.OVERFL OW	Sum	Sum

			are no circuits available.			
OVERFLOWSEC	ACCUMULATION	INTEGER	Total time in seconds when all trunks are busy and no circuit is available to allocate.	ICONCARDPERF.OVERFLOWSEC	Sum	Sum
TOTALUSAGESEC	ACCUMULATION	INTEGER	Total time in seconds that there are active calls.	ICONCARDPERF.TOTALUSAGESEC	Sum	Sum
WMGNO1ID	ACCUMULATION	INTEGER	The Node ID of the first WMG having lowest WMG ID.	ICONCARDPERF.WMGNO1ID	Null	
WMGNO2ID	ACCUMULATION	INTEGER	The Node ID of the second WMG having highest WMG ID.	ICONCARDPERF.WMGNO2ID	Null	

7.13 MGW_Relation Performance Indicators

This section shows the key performance indicators and other counters for the MGW_Relation object, divided into the following sub-sections:

- [MGW_Relation.Alcatel_Lucent.GSM.EGCP_Performance](#)

7.13.1 MGW_Relation.Alcatel_Lucent.GSM.EGCP_Performance

EGCP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggre	Other Aggregators
-----	------	-----------	-------------	------------	---------------	-------------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

					gator	
CALLATTMGCA DD	ACCUMUL ATION	INTE GER	Numbe r of EGCP Add messag es that were attemp ted.	CALLEGCPPERF.CALLATT MGCADD	Sum	Sum
CALLATTMGCM ODIFY	ACCUMUL ATION	INTE GER	Numbe r of EGCP Modif y messag es that were attemp ted.	CALLEGCPPERF.CALLATT MGCMODIFY	Sum	Sum
CALLATTMGCM OVE	ACCUMUL ATION	INTE GER	Numbe r of EGCP Move messag es that were attemp ted.	CALLEGCPPERF.CALLATT MGCMOVE	Sum	Sum
CALLATTMGCS UBTRACT	ACCUMUL ATION	INTE GER	Numbe r of EGCP Subtra ct messag es that were attemp ted.	CALLEGCPPERF.CALLATT MGCSUBTRACT	Sum	Sum
CALLSUCCMGC ADD	ACCUMUL ATION	INTE GER	Numbe r of EGCP Add	CALLEGCPPERF.CALLSUC CMGCADD	Sum	Sum

			messages that were successful.			
CALLSUCCMGC MODIFY	ACCUMULATION	INTEGER	Number of EGCP Modify messages that were Successful.	CALLEGCPPERF.CALLSUC CMGCMODIFY	Sum	Sum
CALLSUCCMGC MOVE	ACCUMULATION	INTEGER	Number of EGCP Move messages that were successful.	CALLEGCPPERF.CALLSUC CMGCMOVE	Sum	Sum
CALLSUCCMGC SUBTRACT	ACCUMULATION	INTEGER	Number of EGCP Subtract messages that were successful.	CALLEGCPPERF.CALLSUC CMGCSUBTRACT	Sum	Sum

7.14 MSC Performance Indicators

This section shows the key performance indicators and other counters for the MSC object, divided into the following sub-sections:

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

- [MSC.Alcatel_Lucent.GSM.WSS_System_Performance](#)

7.14.1 MSC.Alcatel_Lucent.GSM.WSS_System_Performance

Wireless Softswitch Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATTINTERMSCHOI	ACCUMULATION	INTEGER	Total Number of attempted Inter MSC Handovers (Incoming) per hour(normalized). Derived from MAPPERF by adding ATTININTERMSCHDO for all CCM cards.	SUMMARYPERF.ATTINTERMSCHOI	Sum	Sum
ATTINTERMSCHOHO	ACCUMULATION	INTEGER	Total Number of attempted Inter MSC Handovers (Outgoing) per hour(normalized). Derived from MAPPERF by adding OUTINTERMSCHDO for all CCM cards.	SUMMARYPERF.ATTINTERMSCHOHO	Sum	Sum
ATTINTRAMSCO	ACCUMULATION	INTEGER	Total Number of attempted Intra MSC Handovers per hour(normalized), derived from BSSAPPERF and RANAPPERF by adding ATTINEXTINRAMSCHDO for all	SUMMARYPERF.ATTINTRAMSCO	Sum	Sum

			CCM cards.			
AUTHENTICATI ONCALLATT	ACCU MULAT ION	INT EG ER	Total Number of Mobile Authentication Requests per hour(normalized), derived from BSSAPPERF and RANAPPERF by adding ATTAUTH for all CCM cards.	SUMMARYPERF.AUTHE NTICATIONCALLATT	Sum	Sum
AUTHFAILURER ATE	INTENS ITY	FL OA T	Authentication Failure Rate (%) derived from BSSAPPERF and RANAPPERF as: {1 - (SUCCAUTH / ATTAUTH)}*100	SUMMARYPERF.AUTHF AILURERATE	Aver age	Aver age, Maxi mum, Mini mum, Sum
AVAILCCMMEM ORY	INTENS ITY	FL OA T	Minimum memory available on any CCM card (%),derived form WSSPERF	SUMMARYPERF.AVAILC CMMEMORY	Mini mum	Aver age, Maxi mum, Mini mum, Sum
AVAILDDMMEM ORY	INTENS ITY	FL OA T	Minimum memory available on any DDM card (%),derived form WSSPERF	SUMMARYPERF.AVAILD DMMEMORY	Mini mum	Aver age, Maxi mum, Mini mum, Sum
AVAILIPMMEM ORY	INTENS ITY	FL OA T	Minimum memory available on any IPM card (%),derived form WSSPERF	SUMMARYPERF.AVAILI PMMEMORY	Mini mum	Aver age, Maxi mum, Mini mum,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

						Sum
AVAILSAMMEMORY	INTENSITY	FLOAT	Minimum memory available on any SAM card (%), derived from WSPERF	SUMMARYPERF.AVAILSAMMEMORY	Minimum	Average, Maximum, Minimum, Sum
AVAILSIMMEMORY	INTENSITY	FLOAT	Minimum memory available on any SIM card (%), derived from WSPERF	SUMMARYPERF.AVAILSIMMEMORY	Minimum	Average, Maximum, Minimum, Sum
INTERVLRLUPCALLATT	ACCUMULATION	INTEGER	Total Number of Inter-VLR Location Update attempts per hour(normalized), derived from BSSAPPERF and RANAPPERF by adding ATTINTERVLRL OCUPD for all CCM cards.	SUMMARYPERF.INTERVLRLUPCALLATT	Sum	Sum
INTRAVLRLUPCALLATT	ACCUMULATION	INTEGER	Total Number of Intra-VLR Location Update attempts per hour(normalized), derived from BSSAPPERF and RANAPPERF by adding ATTINTRAVLRL OCUPD for all CCM cards.	SUMMARYPERF.INTRAVLRLUPCALLATT	Sum	Sum
LLCALLATT	ACCUMULATION	INTEGER	Total Number of Land-to-Land call attempts per hour(normalized), derived from CALLPERF by	SUMMARYPERF.LLCALLATT	Sum	Sum

			adding CALLATTLANDT OLANDVCCAL for all CCM cards.		
LLCALLFAILUR ERATE	INTENS ITY	FL OA T	Land-to-Land Call Failure Rate (%), derived from CALLPERF: {1- (CALLSUCCLAN DTOLANDVCCA L /CALLATTLAND TOLANDVCCAL) }*100	SUMMARYPERF.LLCALL FAILURERATE	Aver age Aver age, Maxi mum, Mini mum, Sum
LMCALLATT	ACCU MULAT ION	INT EG ER	Total Number of Land-to-Mobile call attempts per hour(normalized), derived from CALLPERF by adding CALLATTPSTNT OMSVCCAL+ CALLATTLANDT O3GVCCAL for all CCM cards.	SUMMARYPERF.LMCAL LATT	Sum Sum
LMCALLFAILUR ERATE	INTENS ITY	FL OA T	Land-to-Mobile Call Failure Rate (%), derived from CALLPERF: {1- ((CALLSUCCPST NTOMSVCCAL+ CALLSUCCLAND TO3GVCCAL) / (CALLATTPSTNT OMSVCCAL+ CALLATTLANDT O3GVCCAL))}*10 0	SUMMARYPERF.LMCAL LFAILURERATE	Aver age Aver age, Maxi mum, Mini mum, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

LUPFAILURERATE	INTENSITY	FLOAT	Location Update Failure Rate (%), derived from BSSAPPERF and RANAPPERF as: {1- ((SUCCINTRAVLRLOCUPD + SUCCINTERVLRLOCUPD) / (ATTINTRAVLRLOCUPD + ATTINTERVLRLOCUPD))}*100	SUMMARYPERF.LUPFAILURERATE	Average	Average, Maximum, Minimum, Sum
MAXCCMCPU	INTENSITY	FLOAT	Maximum CPU occupancy reached across all active CCM cards (%), derived from WSSPERF.	SUMMARYPERF.MAXCCMCPU	Constant	Average, Maximum, Minimum, Sum
MAXDDMCPU	INTENSITY	FLOAT	Maximum CPU occupancy reached across all DDM cards (%), derived from WSSPERF.	SUMMARYPERF.MAXDDMCPU	Constant	Average, Maximum, Minimum, Sum
MAXIPMCPU	INTENSITY	FLOAT	Maximum CPU occupancy reached across all IPM cards (%), derived from WSSPERF.	SUMMARYPERF.MAXIPMCPU	Constant	Average, Maximum, Minimum, Sum
MAXRXLINKOCC	INTENSITY	FLOAT	Maximum receive link occupancy reached - across all SS7 links (%)	SUMMARYPERF.MAXRXLINKOCC	Constant	Average, Maximum, Minimum, Sum
MAXSAMCPU	INTENSITY	FL	Maximum CPU	SUMMARYPERF.MAXSA	Cons	Aver

	ITY	OA T	occupancy reached across all SAM cards (%), derived from WSSPERF.	MCPU	tant	age, Maximum, Minimum, Sum
MAXSIMCPU	INTENSITY	FL OA T	Maximum CPU occupancy reached across all SIM cards (%), derived from WSSPERF.	SUMMARYPERF.MAXSIMCPU	Constant	Average, Maximum, Minimum, Sum
MAXTRUNKGROUPOCC	INTENSITY	FL OA T	Maximum trunk group occupancy reached (across all groups) (%)	SUMMARYPERF.MAXTRUNKGROUPOCC	Constant	Average, Maximum, Minimum, Sum
MAXTXLINKOCC	INTENSITY	FL OA T	Maximum transmit link occupancy reached - across all SS7 links (%)	SUMMARYPERF.MAXTXLINKOCC	Constant	Average, Maximum, Minimum, Sum
MEANCCMCPU	INTENSITY	FL OA T	Mean CPU occupancy reached across all CCM cards (%), derived from WSSPERF as an average of the reported mean for all CCM cards.	SUMMARYPERF.MEANCCMCPU	Average	Average, Maximum, Minimum, Sum
MEANDDMCPU	INTENSITY	FL OA T	Mean CPU occupancy reached across all DDM	SUMMARYPERF.MEANDDMCPU	Average	Average, Maxi

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			cards (%),derived from WSPERF as an average of the reported mean for all DDM cards.			mum, Mini mum, Sum
MEANHOLDTIME ELANDTOLAND	ACCUMULATION	INTEGER	Mean Land-to-Land Call Holding Time derived by dividing TOTALCALLTIMEELANDTOLAND from CALLTOTALTIMEPERF group by CALLANSLANDTOLANDVCCAL from CALLPERF	SUMMARYPERF.MEANHOLDTIMEELANDTOLAND	Sum	Sum
MEANHOLDTIME ELANDTOMOBILE	ACCUMULATION	INTEGER	Mean Land-to-Mobile Call Holding Time derived by dividing TOTALCALLTIMEELANDTOMOBILE from CALLTOTALTIMEPERF group by (CALLANSPSTNTOMSVCCAL+ CALLANSLANDTOM3GVCCAL) from CALLPERF	SUMMARYPERF.MEANHOLDTIMEELANDTOMOBILE	Sum	Sum
MEANHOLDTIME EMOBILETOLAND	ACCUMULATION	INTEGER	Mean Mobile-to-Land Call Holding Time derived by dividing TOTALCALLTIMEEMOBILETOLAND from CALLTOTALTIMEPERF group by (CALLANSMSTOPSTNVCCAL+ CALLANS3GTOLANDVCCAL)	SUMMARYPERF.MEANHOLDTIMEEMOBILETOLAND	Sum	Sum

			from CALLPERF			
MEANHOLDTIME MOBILE	ACCUMULATION	INTER	Mean Mobile-to-Mobile Call Holding Time, derived by dividing TOTALCALLTIME MOBILE from CALLTOTALTIME PER group by (CALLANSMSVCCAL+ CALLANS3GT03 GVCCAL) from CALLPERF	SUMMARYPERF.MEANHOLDTIME MOBILE	Sum	Sum
MEANIPMCPU	INTENSITY	FLOAT	Mean CPU occupancy reached across all IPM cards (%), derived from WSSPERF as an average of the reported mean for all IPM cards.	SUMMARYPERF.MEANIPMCPU	Average	Average, Maximum, Minimum, Sum
MEANSAMCPU	INTENSITY	FLOAT	Mean CPU occupancy reached across all SAM cards (%), derived from WSSPERF as an average of the reported mean for all SAM cards.	SUMMARYPERF.MEANSAMCPU	Average	Average, Maximum, Minimum, Sum
MEANSIMCPU	INTENSITY	FLOAT	Mean CPU occupancy reached across all SIM cards (%), derived from WSSPERF as an average of the reported mean for	SUMMARYPERF.MEANSIMCPU	Average	Average, Maximum, Minimum, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			all SIM cards.			
MEANTRUNKOCCPERTG	INTENSITY	FLOAT	Average (mean) trunk group occupancy in the specified trunk group (% - special format see below)	SUMMARYPERF.MEANTRUNKOCCPERTG	Average	Average, Maximum, Minimum, Sum
MLCALLATT	ACCUMULATION	INTEGER	Total Number of Mobile-to-Land call attempts per hour(normalized), derived from CALLPERF by adding CALLATTMSTOPSTNVCCAL+CALLATT3GTOLANDVCCAL for all CCM cards.	SUMMARYPERF.MLCALLATT	Sum	Sum
MLCALLFAILURERATE	INTENSITY	FLOAT	Mobile-to-Land Call Failure Rate (%), derived from CALLPERF: {1-((CALLSUCCMSTOPSTNVCCAL+CALLSUCC3GTOLANDVCCAL) / (CALLATTMSTOPSTNVCCAL+CALLATT3GTOLANDVCCAL))}*100	SUMMARYPERF.MLCALLFAILURERATE	Average	Average, Maximum, Minimum, Sum
MMCALLATT	ACCUMULATION	INTEGER	Total Number of Mobile-to-Mobile call attempts per hour (normalized), derived from CALLPERF by adding CALLATTMSTOMSVCCAL+CALLATT3GTO2GVCCAL+	SUMMARYPERF.MMCALLATT	Sum	Sum

			CALLATT2GTO3 GVCCAL+CALLA TT3GTO3GVCCA L for all CCM cards.			
MMCALLFAILU RERATE	INTENS ITY	FL OA T	Mobile-to-Mobile Call Failure Rate (%), derived from CALLPERF: {1- (CALLSUCCMST OMSVCCAL+ CALLSUCC3GTO 3GVCCAL+ CALLSUCC3GTO 2GVCCAL+ CALLSUCC2GTO 3GVCCAL) / (CALLATTMSTO MSVCCAL+ CALLATT3GTO3 GVCCAL+ CALLATT3GTO2 GVCCAL+ CALLATT2GTO3 GVCCAL))} *100	SUMMARYPERF.MMCAL LFAILURERATE	Aver age	Aver age, Maxi mum, Mini mum, Sum
MNPDBNEGRES P	ACCU MULAT ION	INT EG ER	Total Number of unsuccessful NPDB queries per hour (normalized). Derived from CALLPERF as: LNPDIPTOTAL - LNPDIPRESULTL RN . LNPDIPNONPOR TED for all CCM cards	SUMMARYPERF.MNPDB NEGRESP	Sum	Sum
MNPDBQUERIES	ACCU MULAT	INT EG	Total Number of queries sent to	SUMMARYPERF.MNPDB QUERIES	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	ION	ER	NPDB per hour (normalized). Derived from CALLPERF by adding LNPDIPTOTAL for all CCM cards.			
ROOTDISKOCCTSAM	INTENSITY	FL OA T	Disk occupancy percentage (/root partition) on Primary SAM (%),1 derived form WSSDISKPERF	SUMMARYPERF.ROOTDISKOCCTSAM	Average	Average, Maximum, Minimum, Sum
ROOTDISKOCCTBSAM	INTENSITY	FL OA T	Disk occupancy percentage (/root partition) on Secondary SAM (%),derived form WSSDISKPERF	SUMMARYPERF.ROOTDISKOCCTBSAM	Average	Average, Maximum, Minimum, Sum
SMSCALLATT	ACCUMULATION	INTE GER	Total SMS (MO plus MT) Attempts per hour (normalized), derived from BSSAPSMSPERF by adding CALLATTMSOR GSMS and CALLATTMSTER MSMS for all CCM cards.	SUMMARYPERF.SMSCALLATT	Sum	Sum
SMSFAILURERATE	INTENSITY	FL OA T	SMS Failure Rate . Including MO and MT (%) derived from BSSAPSMSPERF as: {1 - (CALLSUCCMSORGSMS + CALLSUCCMSTERMSMS) /	SUMMARYPERF.SMSFAILURERATE	Average	Average, Maximum, Minimum, Sum

			(CALLATTMSOR GSMS + CALLATTMSTER MSMS)}*100			
SPACEDISKOCCT ACTSAM	INTENSITY	FLOAT	Disk occupancy percentage (/space partition) on Primary SAM (%),derived form WSSDISKPERF	SUMMARYPERF.SPACED ISKOCCTACTSAM	Average	Average, Maximum, Minimum, Sum
SPACEDISKOCCT STBSAM	INTENSITY	FLOAT	Disk occupancy percentage (/space partition) on Secondary SAM (%),derived form WSSDISKPERF	SUMMARYPERF.SPACED ISKOCCTSTBSAM	Average	Average, Maximum, Minimum, Sum
SSINVOCATION CALLATT	ACCUMULATION	INTEGER	Total Number of Supplementary Service invocations per hour(normalized), derived from CALLPERF by adding of INVOKECFUSS, INVOKECFBSS, INVOKECFNRYS S, INVOKECFNRCS S, INVOKECALLW AITSS, INVOKEECTSS, INVOKEMULTIP TYSS for all CCM cards.	SUMMARYPERF.SSINVO CATIONCALLATT	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

SUCCINTERMSC HOHI	ACCUMULATION	INTER	Total Number of successful Inter MSC Handovers (Incoming) per hour(normalized). Derived from MAPPERF by adding SUCCININTERMSCHDO for all CCM cards.	SUMMARYPERF.SUCCINTERMSCHOHI	Sum	Sum
SUCCINTERMSC HOHO	ACCUMULATION	INTER	Total Number of successful Inter MSC Handovers (Outgoing) per hour(normalized). Derived from MAPPERF by adding SUCCOUTINTERMSCHDO for all CCM cards.	SUMMARYPERF.SUCCINTERMSCHOHO	Sum	Sum
SUCCINTRAMSC HO	ACCUMULATION	INTER	Total Number of Successful Intra MSC Handovers per hour(normalized). Derived from BSSAPPERF and RANAPPERF by adding SUCCINEXTINTRAMSCHDO for all CCM cards.	SUMMARYPERF.SUCCINTRAMSCO	Sum	Sum
TOTALACTSUBS	ACCUMULATION	INTER	Total Number of subscribers in VLR. This is a snapshot of VLR database, total active and inactive subs. derived from BSSAPPERF by adding TOTALSUB for all	SUMMARYPERF.TOTALACTSUBS	Sum	Sum

			CCM cards.			
TOTALCALLATT	ACCUMULATION	INTEGER	Total Number of call attempts per hour .all types. This is derived from BSSAPPERF,RAN APPERF, SYSISUPDPCPERF, SYSBICCDPCPERF, SYSTUPPERF, and MOOVLDPERF by adding MSORIGCMSRVCREQ + MSEMARGNCYCMSRVCREQ + ISUPPFMIAMRX +BICCPFMIAMRX+ TUPPFMIAIRX+ TUPPFMIAMRX+	SUMMARYPERF.TOTALCALLATT	Sum	Sum
TOTALCALLFAILURERATE	INTENSITY	FLOAT	Calls failing during setup - all call types (%)derived from BSSAPPERF, SYSISUPDPCPERF, SYSTUPPERF and SYSBICCDPCPERF as: {1-(SUCCMSORIGCALLS+ SUCCMSEMRGCYCALLS + ISUPPFMACMTX + BICCPFMACMTX +TUPPFMACMTX	SUMMARYPERF.TOTALCALLFAILURERATE	Average	Average, Maximum, Minimum, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

)/ (MSORIGCMSRV CREQ + MSEMRGNCYCM SRVCREQ + ISUPPFM		
UNSCCEXTHDO RECNCTPERMSC	ACCU MULAT ION	INT EG ER	Total Number of unsuccessful external handovers with reconnect to old channels per hour (normalized). Derived from BSSAPPERF and RANAPPERF by adding SUCCINEXTINTR AMSCHDO for all CCM cards.	SUMMARYPERF.UNSCC EXTHDORECNCTPERMS C	Sum Sum
UNSCEXTHDOL OSCNCTPERMSC	ACCU MULAT ION	INT EG ER	Total Number of unsuccessful external handovers with loss of connection per hour (normalized). Derived from BSSAPPERF and RANAPPERF by adding UNSCEXTHDOL OSCNCTPERMS C for all CCM cards.	SUMMARYPERF.UNSCE XTHDOLOSCNCTPERMS C	Sum Sum
VARDISKOCCT SAMSAM	INTENS ITY	FL OA T	Disk occupancy percentage (/var partition) on Primary SAM (%),derived form WSSDISKPERF	SUMMARYPERF.VARDIS KOCCTACTSAMSAM	Aver age, Maxi mum, Mini mum, Sum
VARDISKOCCT BSAMSAM	INTENS ITY	FL OA T	Disk occupancy percentage (/var partition) on	SUMMARYPERF.VARDIS KOCCTACTBSAMSAM	Aver age, Maxi

			Secondary SAM (%), derived from WSSDISKPERF			mum, Mini mum, Sum
--	--	--	---	--	--	-----------------------------

7.15 RNC Performance Indicators

This section shows the key performance indicators and other counters for the RNC object, divided into the following sub-sections:

- [RNC.Alcatel_Lucent.GSM.RANAP_Message_Performance](#)

7.15.1 RNC.Alcatel_Lucent.GSM.RANAP_Message_Performance

RANAP Message Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CNDEACTTRTX	ACCUMULATION	INTEGER	CN Deactivate Trace transmitted	RANAPMSGPER.CNDEACTTRTX	Sum	Sum
CNINVOKETR TX	ACCUMULATION	INTEGER	CN Invoke Trace transmitted	RANAPMSGPER.CNINVOKETR TX	Sum	Sum
COMMONIDTX	ACCUMULATION	INTEGER	CommandId transmitted	RANAPMSGPER.COMMONIDTX	Sum	Sum
DATAVOLREP REQTX	ACCUMULATION	INTEGER	Data Volume Report Request transmitted	RANAPMSGPER.DATAVOLREP REQTX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			.			
DATAVOLREPRX	ACCUMULATION	INTEGER	Data Volume Report received.	RANAPMSGPER.DATAVOLREPRX	Sum	Sum
DIRECTTXRX	ACCUMULATION	INTEGER	Direct Transfer received.	RANAPMSGPER.DIRECTTXRX	Sum	Sum
DIRECTTXTX	ACCUMULATION	INTEGER	Direct Transfer transmitted.	RANAPMSGPER.DIRECTTXTX	Sum	Sum
ERRINDRX	ACCUMULATION	INTEGER	Error Indication received.	RANAPMSGPER.ERRINDRX	Sum	Sum
ERRINDTX	ACCUMULATION	INTEGER	Error Indication transmitted.	RANAPMSGPER.ERRINDTX	Sum	Sum
FWDSRNSCTXRX	ACCUMULATION	INTEGER	Forward SRNS Context received.	RANAPMSGPER.FWDSRNSCTXRX	Sum	Sum
FWDSRNSCTXTX	ACCUMULATION	INTEGER	Forward SRNS Context transmitted.	RANAPMSGPER.FWDSRNSCTXTX	Sum	Sum
INFOTXCFMRX	ACCUMULATION	INTEGER	Information transfer confirm received.	RANAPMSGPER.INFOTXCFMRX	Sum	Sum
INFOTXCFMTX	ACCUMULATION	INTEGER	Information transfer confirm transmitted.	RANAPMSGPER.INFOTXCFMTX	Sum	Sum
INFOTXFAILRX	ACCUMULATION	INTEGER	Information transfer failure	RANAPMSGPER.INFOTXFAILRX	Sum	Sum

			received.			
INFOTXFAILTX	ACCUMULATION	INTEGER	Information transfer failure transmitted.	RANAPMSGPER.INFOTXFAILTX	Sum	Sum
INFOTXINDRX	ACCUMULATION	INTEGER	Information transfer Indication received.	RANAPMSGPER.INFOTXINDRX	Sum	Sum
INFOTXINDTX	ACCUMULATION	INTEGER	Information transfer Indication transmitted.	RANAPMSGPER.INFOTXINDTX	Sum	Sum
INITUEMSGRX	ACCUMULATION	INTEGER	Initial UE Message received.	RANAPMSGPER.INITUEMSGRX	Sum	Sum
IURELCMDTX	ACCUMULATION	INTEGER	Iu Release Command Transmitted	RANAPMSGPER.IURELCMDTX	Sum	Sum
IURELCOMPRX	ACCUMULATION	INTEGER	Iu Release Complete received.	RANAPMSGPER.IURELCOMPRX	Sum	Sum
IURELREQRX	ACCUMULATION	INTEGER	Iu Release Request received.	RANAPMSGPER.IURELREQRX	Sum	Sum
IURELREQTX	ACCUMULATION	INTEGER	Iu Release Request transmitted.	RANAPMSGPER.IURELREQTX	Sum	Sum
LOCRELDATAFAILRX	ACCUMULATION	INTEGER	Location Related Data Fail	RANAPMSGPER.LOCRELDATAFAILRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received.			
LOCRELDATA REQTX	ACCUMUL ATION	INTE GER	Location Related Data Request transmitted .	RANAPMSGPER.LOCREL DATAREQTX	Sum	Sum
LOCRELDATA RX	ACCUMUL ATION	INTE GER	Location related data received.	RANAPMSGPER.LOCREL DATARX	Sum	Sum
LOCRELDATF AILRX	ACCUMUL ATION	INTE GER	Location Related Data Fail received.	RANAPMSGPER.LOCREL DATAFAILRX	Sum	Sum
LOCRELDATR EQTX	ACCUMUL ATION	INTE GER	Location Related Data Request transmitted .	RANAPMSGPER.LOCREL DATREQTX	Sum	Sum
LOCRELDATR ESPRX	ACCUMUL ATION	INTE GER	Location Related Data Response received.	RANAPMSGPER.LOCREL DATRESPRX	Sum	Sum
LOCRELDATR SPRX	ACCUMUL ATION	INTE GER	Location Related Data Response received.	RANAPMSGPER.LOCREL DATRSPRX	Sum	Sum
LOCREPCTLT X	ACCUMUL ATION	INTE GER	Relocation Reporting Control transmitted .	RANAPMSGPER.LOCREP CTLTX	Sum	Sum
LOCREPRX	ACCUMUL ATION	INTE GER	Location Report received.	RANAPMSGPER.LOCREP RX	Sum	Sum
OVERLOADRX	ACCUMUL ATION	INTE GER	Overload received.	RANAPMSGPER.OVERLO ADRX	Sum	Sum

OVERLOADTX	ACCUMULATION	INTEGER	OverLoad transmitted .	RANAPMSGPER.OVERLOADTX	Sum	Sum
PAGINGTX	ACCUMULATION	INTEGER	Paging transmitted .	RANAPMSGPER.PAGINGTX	Sum	Sum
RABASSTREQTX	ACCUMULATION	INTEGER	RAB Assignment Request transmitted .	RANAPMSGPER.RABASSTREQTX	Sum	Sum
RABASSTRESPRX	ACCUMULATION	INTEGER	RAB Assignment Response received.	RANAPMSGPER.RABASSTRESPRX	Sum	Sum
RABMODREQTX	ACCUMULATION	INTEGER	RAB Modification Request transmitted .	RANAPMSGPER.RABMODREQTX	Sum	Sum
RABRELREQRX	ACCUMULATION	INTEGER	RAB Release request received.	RANAPMSGPER.RABRELREQRX	Sum	Sum
RABRELREQTX	ACCUMULATION	INTEGER	RAB Release Request transmitted .	RANAPMSGPER.RABRELREQTX	Sum	Sum
RELOCCANCELACKTX	ACCUMULATION	INTEGER	Relocation Cancel ack transmitted .	RANAPMSGPER.RELOCCANCELACKTX	Sum	Sum
RELOCCANCELRX	ACCUMULATION	INTEGER	Relocation Cancel received.	RANAPMSGPER.RELOCCANCELRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

RELOCCMDTX	ACCUMULATION	INTEGER	Relocation Command transmitted.	RANAPMSGPER.RELOCCMDTX	Sum	Sum
RELOCCOMPRX	ACCUMULATION	INTEGER	Relocation Complete received.	RANAPMSGPER.RELOCCOMPRX	Sum	Sum
RELOCDETRX	ACCUMULATION	INTEGER	Relocation Detect received.	RANAPMSGPER.RELOCDETRX	Sum	Sum
RELOCFAILTX	ACCUMULATION	INTEGER	Relocation Fail transmitted.	RANAPMSGPER.RELOCFAILTX	Sum	Sum
RELOCPREPFAILTX	ACCUMULATION	INTEGER	Relocation Preparation fail transmitted.	RANAPMSGPER.RELOCPREPFAILTX	Sum	Sum
RELOCREQACKRX	ACCUMULATION	INTEGER	Relocation Request Acknowledgement received.	RANAPMSGPER.RELOCREQACKRX	Sum	Sum
RELOCREQDRX	ACCUMULATION	INTEGER	Relocation Required received. Position Column Name Description	RANAPMSGPER.RELOCREQDRX	Sum	Sum
RELOCREQTX	ACCUMULATION	INTEGER	Relocation Request transmitted.	RANAPMSGPER.RELOCREQTX	Sum	Sum
RESETACKRX	ACCUMULATION	INTEGER	Reset Ack received.	RANAPMSGPER.RESETACKRX	Sum	Sum
RESETACKTX	ACCUMULATION	INTEGER	Reset Ack transmitted.	RANAPMSGPER.RESETACKTX	Sum	Sum

RESETRESACKTX	ACCUMULATION	INTEGER	Reset Resource Ack transmitted.	RANAPMSGPER.RESETRESACKTX	Sum	Sum
RESETRESRX	ACCUMULATION	INTEGER	Reset Response received.	RANAPMSGPER.RESETRESRX	Sum	Sum
RESETRX	ACCUMULATION	INTEGER	Reset received.	RANAPMSGPER.RESETRX	Sum	Sum
RESETTX	ACCUMULATION	INTEGER	Reset transmitted.	RANAPMSGPER.RESETTX	Sum	Sum
SECMODCMDTX	ACCUMULATION	INTEGER	Security Mode Command transmitted.	RANAPMSGPER.SECMODCMDTX	Sum	Sum
SECMODCMPRX	ACCUMULATION	INTEGER	Security Mode Complete received.	RANAPMSGPER.SECMODCMPRX	Sum	Sum
SECMODREJRX	ACCUMULATION	INTEGER	Security Mode Reject received.	RANAPMSGPER.SECMODREJRX	Sum	Sum
SRNSCTXREQTX	ACCUMULATION	INTEGER	SRNS Context Request transmitted.	RANAPMSGPER.SRNSCTXREQTX	Sum	Sum
SRNSCTXRSPRX	ACCUMULATION	INTEGER	SRNS Context Response received.	RANAPMSGPER.SRNSCTXRSPRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

SRNSDATAFW DCMDTX	ACCUMULATION	INTEGER	SRNS Data Forward Command transmitted	RANAPMSGPER.SRNSDATAFWDCMDTX	Sum	Sum
----------------------	--------------	---------	---------------------------------------	------------------------------	-----	-----

7.16 Rte Performance Indicators

This section shows the key performance indicators and other counters for the Rte object, divided into the following sub-sections:

- [Rte.Alcatel_Lucent.GSM.System_Route_Performance](#)

7.16.1 Rte.Alcatel_Lucent.GSM.System_Route_Performance

System Route Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALLSQUEUED	ACCUMULATION	INTEGER	[R-169] Total Number of NS/EP calls queued for a outgoing trunk. Since only priority calls are queued, this is a subset of PRIORCALLATT.	SYSROUTEPERF.CALLSQUEUED	Sum	Sum
CALLSQUEUEDABANDON	ACCUMULATION	INTEGER	[R-169] Total Number of NS/EP calls removed from a queue. This may be due to queue timeout, user abandon etc. This is a superset of PRIORCALLATT	SYSROUTEPERF.CALLSQUEUEDABANDON	Sum	Sum

			TQTOUT.			
CALLSQUEUE DSUCCESS	ACCUMU LATION	INT EGE R	[R-169] Total Number of NS/EP calls successful after being queued for a outgoing trunk pegged when circuit becomes available for a queued call.	SYSROUTEPERF.CALLS QUEUEDSUCCESS	Sum	Sum
CALLSROUTE D	ACCUMU LATION	INT EGE R	Number of calls attempted for routing. This also includes priority call attempts.	SYSROUTEPERF.CALLS ROUTED	Sum	Sum
NOCIRCUITAV AIL	ACCUMU LATION	INT EGE R	Number of calls encountering no circuits available pegged when no circuit is available in case of regular calls or when there was a queue overflow in case of priority calls. This does not include calls queued abandoned.	SYSROUTEPERF.NOCIR CUITAVAIL	Sum	Sum
PRIORCALLAT T	ACCUMU LATION	INT EGE R	[R-168] Total Number of NS/EP calls that require an outgoing trunk. It is a subset of CALLROUTED.	SYSROUTEPERF.PRIOR CALLATT	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

PRIORCALLATTQOFLOW	ACCUMULATION	INTEGER	[R-169] Total Number of NS/EP calls failed to queue for an OG trunk as the maximum queue size was reached. It is a subset of NOCIRCUITAVAIL.	SYSROUTEPERF.PRIORCALLATTQOFLOW	Sum	Sum
PRIORCALLATTQTOUT	ACCUMULATION	INTEGER	[R-169] Total Number of NS/EP calls removed from a queue due to queue timeout .This is a subset of CALLSQUEUE DABANDON.	SYSROUTEPERF.PRIORCALLATTQTOUT	Sum	Sum

7.17 SCT_SAP Performance Indicators

This section shows the key performance indicators and other counters for the SCT_SAP object, divided into the following sub-sections:

- [SCT_SAP.Alcatel_Lucent.GSM.M3UA_Association_Performance](#)

7.17.1 SCT_SAP.Alcatel_Lucent.GSM.M3UA_Association_Performance

SCT SAP M3UA Association Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
M3UAASSOCASPACRX	ACCUMULATION	INT8	ASP AC messages received	SYSM3UAPSPPERF.M3UAASSOCASPACRX	Sum	Sum
M3UAASSOCASPACTX	ACCUMULATION	INT8	ASP AC messages sent	SYSM3UAPSPPERF.M3UAASSOCASPACTX	Sum	Sum

M3UAASSOCA SPDNRX	ACCUMUL ATION	IN T8	ASP Down message s received	SYSM3UAPSPPERF.M3UAAS SOCASPDNRX	Sum	Sum
M3UAASSOCA SPDNTX	ACCUMUL ATION	IN T8	ASP Down message s sent	SYSM3UAPSPPERF.M3UAAS SOCASPDNTX	Sum	Sum
M3UAASSOCA SPIARX	ACCUMUL ATION	IN T8	ASP IA message s received	SYSM3UAPSPPERF.M3UAAS SOCASPIARX	Sum	Sum
M3UAASSOCA SPIATX	ACCUMUL ATION	IN T8	ASP IA message s sent	SYSM3UAPSPPERF.M3UAAS SOCASPIATX	Sum	Sum
M3UAASSOCA SPUPRX	ACCUMUL ATION	IN T8	ASP Up message s received	SYSM3UAPSPPERF.M3UAAS SOCASPUPRX	Sum	Sum
M3UAASSOCA SPUPTX	ACCUMUL ATION	IN T8	ASP Up message s sent	SYSM3UAPSPPERF.M3UAAS SOCASPUPTX	Sum	Sum
M3UAASSOCB YTERX	ACCUMUL ATION	IN T8	Byte count of PDU(s) receivin g on the associati on	SYSM3UAPSPPERF.M3UAAS SOCBYTERX	Sum	Sum
M3UAASSOCB YTETX	ACCUMUL ATION	IN T8	Byte count of PDU(s) sending on the associati	SYSM3UAPSPPERF.M3UAAS SOCBYTETX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			on			
M3UAASSOCC ONGDUR	ACCUMUL ATION	IN T8	Duration of association on congesti on (100 millisec ond units)	SYSM3UAPSPPERF.M3UAAS SOCCONGDUR	Sum	Sum
M3UAASSOCC ONGNBR	ACCUMUL ATION	IN T8	Number of association on congesti on occurren ce	SYSM3UAPSPPERF.M3UAAS SOCCONGNBR	Sum	Sum
M3UAASSOCC ONGRX	ACCUMUL ATION	IN T8	Number of PSP congesti on message s received	SYSM3UAPSPPERF.M3UAAS SOCCONGRX	Sum	Sum
M3UAASSOCC ONGTX	ACCUMUL ATION	IN T8	Number of PSP congesti on message s transmit ted.	SYSM3UAPSPPERF.M3UAAS SOCCONGTX	Sum	Sum
M3UAASSOCP DURX	ACCUMUL ATION	IN T8	Number of PDU(s) receiving on the association	SYSM3UAPSPPERF.M3UAAS SOCPDURX	Sum	Sum
M3UAASSOCP	ACCUMUL	IN	Number	SYSM3UAPSPPERF.M3UAAS	Sum	Sum

DUTX	ATION	T8	of PDU(s) sending on the associati on	SOC PDUTX		
M3UAASSOCT CRX	ACCUMUL ATION	IN T8	Number of transfer controll ed message s received .	SYSM3UAPSPPERF.M3UAAS SOCTCRX	Sum	Sum
M3UAASSOCT CTX	ACCUMUL ATION	IN T8	Number of transfer controll ed message s transmit ted.	SYSM3UAPSPPERF.M3UAAS SOCTCTX	Sum	Sum
M3UAASSOCTP RX	ACCUMUL ATION	IN T8	Number of transfer prohibit ed message s received .	SYSM3UAPSPPERF.M3UAAS SOCTPRX	Sum	Sum
M3UAASSOCTP TX	ACCUMUL ATION	IN T8	Number of transfer prohibit ed	SYSM3UAPSPPERF.M3UAAS SOCTPTX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			message s transmit ted.			
M3UAASSOCT RARX	ACCUMUL ATION	IN T8	Number of transfer allowed message s received .	SYSM3UAPSPPERF.M3UAAS SOCTRARX	Sum	Sum
M3UAASSOCT RATX	ACCUMUL ATION	IN T8	Number of transfer allowed message s transmit ted.	SYSM3UAPSPPERF.M3UAAS SOCTRATX	Sum	Sum
M3UAASSOCT RRX	ACCUMUL ATION	IN T8	Number of transfer restricte d message s received .	SYSM3UAPSPPERF.M3UAAS SOCTRRX	Sum	Sum
M3UAASSOCT RTX	ACCUMUL ATION	IN T8	Number of transfer restrict message s transmit ted.	SYSM3UAPSPPERF.M3UAAS SOCTRTX	Sum	Sum
M3UAASSOCU NAVDUR	ACCUMUL ATION	IN T8	Duratio n of Associat ion unavaila bility	SYSM3UAPSPPERF.M3UAAS SOCUNAVDUR	Sum	Sum

			(100 millisec ond units).			
M3UAASSOCU NAV	ACCUMUL ATION	IN T8	Number of times Associat ion was unavaila ble.	SYSM3UAPSPPERF.M3UAAS SOCUNAV	Sum	Sum

7.18 Service Performance Indicators

This section shows the key performance indicators and other counters for the Service object, divided into the following sub-sections:

- [Service.Alcatel_Lucent.GSM.CAMEL_Performance](#)
- [Service.Alcatel_Lucent.GSM.INAP_Performance](#)

7.18.1 Service.Alcatel_Lucent.GSM.CAMEL_Performance

CAMEL Statistics

KPI	Type	Data Type	Descripti on	Derivation	Defau It Aggre gator	Other Aggre gators
CAPNUMCTRMSGRX	ACCUMU LATION	INT EGE R	Number of CollectTo Resource messages received.	CAPPERF.CAPNUMCTRM SGRX	Sum	Sum
CAPNUMDFLTCAM ELHNDLINVKD	ACCUMU LATION	INT EGE R	Number of calls for which default handling was	CAPPERF.CAPNUMDFLT CAMELHNDLINVKD	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			applied.			
CAPNUMETCMSGRX	ACCUMULATION	INTEGER	Number of ETC messages received.	CAPPERF.CAPNUMETCMSGRX	Sum	Sum
CAPSUCCINITDPREQ	ACCUMULATION	INTEGER	Number of successful Initial DP requests (when Continue, Continue WithArg, Connect, or ETC is received from SCP in response to Initial DP).	CAPPERF.CAPSUCCINITDPREQ	Sum	Sum
CAPSUCCINITDPSMSREQ	ACCUMULATION	INTEGER	Number of successful INIT DP SMS Requests.	CAPPERF.CAPSUCCINITDPSMSREQ	Sum	Sum
DP3DCSI	ACCUMULATION	INTEGER	Number of DP3 sent from SSF to SCP for D-CSI	CAPPERF.DP3DCSI	Sum	Sum
DP3NCSI	ACCUMULATION	INTEGER	Number of DP3 sent from SSF to SCP for N-CSI	CAPPERF.DP3NCSI	Sum	Sum
ERBDP10	ACCUMULATION	INTEGER	Number of ERB	CAPPERF.ERBDP10	Sum	Sum

		R	(DP10) sent by SSF. (O_Aband on)			
ERBDP13	ACCUMU LATION	INT EGE R	Number of ERB (DP13) sent by SSF. (T_Busy)	CAPPERF.ERBDP13	Sum	Sum
ERBDP14	ACCUMU LATION	INT EGE R	Number of ERB (DP14) sent by SSF. (T_No_A nswer)	CAPPERF.ERBDP14	Sum	Sum
ERBDP15	ACCUMU LATION	INT EGE R	Number of ERB? DP15? sent by SSF. (T_Answ er)	CAPPERF.ERBDP15	Sum	Sum
ERBDP17	ACCUMU LATION	INT EGE R	Number of ERB? DP17? sent by SSF. (T_Disco nnect)	CAPPERF.ERBDP17	Sum	Sum
ERBDP18	ACCUMU LATION	INT EGE R	Number of ERB (DP18) sent by SSF. (T_Aband	CAPPERF.ERBDP18	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			on)			
ERBDP4	ACCUMULATION	INTEGER	Number of ERB(DP4) sent by SSF. (Route_Select_Failure)	CAPPERF.ERBDP4	Sum	Sum
ERBDP5	ACCUMULATION	INTEGER	Number of ERB (DP5) sent by SSF. (O_Busy)	CAPPERF.ERBDP5	Sum	Sum
ERBDP6	ACCUMULATION	INTEGER	Number of ERB (DP6) sent by SSF. (O_No_Answer)	CAPPERF.ERBDP6	Sum	Sum
ERBDP7	ACCUMULATION	INTEGER	Number of ERB (DP7) sent by SSF. (O_Answer)	CAPPERF.ERBDP7	Sum	Sum
ERBDP9	ACCUMULATION	INTEGER	Number of ERB (DP9) sent by SSF. (O_Disconnect)	CAPPERF.ERBDP9	Sum	Sum
INITDP12	ACCUMULATION	INTEGER	Number of Initial DP12 request.	CAPPERF.INITDP12	Sum	Sum
INITDP2	ACCUMULATION	INT	Number	CAPPERF.INITDP2	Sum	Sum

	LATION	EGE R	of Initial DP2 request.			
INITDP3	ACCUMU LATION	INT EGE R	Number of Initial DP3 request.	CAPPERF.INITDP3	Sum	Sum
INITDPSMS	ACCUMU LATION	INT EGE R	Number of Initial DP SMS request	CAPPERF.INITDPSMS	Sum	Sum
TDP4	ACCUMU LATION	INT EGE R	Number of TDP4 sent from SSF to SCP.	CAPPERF.TDP4	Sum	Sum

7.18.2 Service.Alcatel_Lucent.GSM.INAP_Performance

INAP Statistics

KPI	Type	Data Type	Descri ption	Derivation	Defaul t Aggre gator	Other Aggreg ators
DEFAULTHANDLINGCALLS	ACCUMUL ATION	INTE GER	Numbe r of calls for which default handli ng was applied .	INAPGWYPERF.DEFAULTHANDLINGCALLS	Sum	Sum
INITDP12	ACCUMUL ATION	INTE GER	Numbe r of	INAPGWYPERF.INITDP12	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			InitialDP12 attempts.			
INITDP2	ACCUMULATION	INTEGER	Number of InitialDP2 attempts.	INAPGWYPERF.INITDP2	Sum	Sum
INITDP3	ACCUMULATION	INTEGER	Number of InitialDP3 attempts.	INAPGWYPERF.INITDP3	Sum	Sum

7.19 Signalling_Link Performance Indicators

This section shows the key performance indicators and other counters for the Signalling_Link object, divided into the following sub-sections:

- [Signalling_Link.Alcatel_Lucent.GSM.MTP2_Link_Performance](#)
- [Signalling_Link.Alcatel_Lucent.GSM.MTP3_Link_Performance](#)

7.19.1 Signalling_Link.Alcatel_Lucent.GSM.MTP2_Link_Performance

MTP2 Link Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MTP2LNKPFMALIGNFAIL	ACCUMULATION	INT8	Number of signaling link alignment/proving failures.	SYSMTP2LINKPERF.MTP2LNKPFMALIGNFAIL	Sum	Sum

MTP2LNKPFMLINK FAILABNFIBBSNR	ACCUM ULATIO N	I N T 8	Number of signaling link failures due to abnormal FIBR/BS NR (Forward Indicator Bit Received /Backwar d Sequence Number Received)	SYSMTP2LINKPERF.MTP2LNK PFMLINKFAILABNFIBBSNR	Sum	Sum
MTP2LNKPFMLINK FAILCONG	ACCUM ULATIO N	I N T 8	Number of signaling link failures due to excessive congestio n.	SYSMTP2LINKPERF.MTP2LNK PFMLINKFAILCONG	Sum	Sum
MTP2LNKPFMLINK FAILSUERM	ACCUM ULATIO N	I N T 8	Number of signaling link failures due to signal unit error rate.	SYSMTP2LINKPERF.MTP2LNK PFMLINKFAILSUERM	Sum	Sum
MTP2LNKPFMLINK FAILT7EXP	ACCUM ULATIO	I N	Number of	SYSMTP2LINKPERF.MTP2LNK PFMLINKFAILT7EXP	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	N	T 8	signaling link failures due to T7 Expiry.		
MTP2LNKPFMLINK FAILTOTAL	ACCUM ULATIO N	I N T 8	Total number of signaling link failures due to all reasons.	SYSMTP2LINKPERF.MTP2LNK PFMLINKFAILTOTAL	Sum Sum
MTP2LNKPFMLINK INSVCTIME	ACCUM ULATIO N	I N T 8	Time since the signaling link was last aligned (in seconds).	SYSMTP2LINKPERF.MTP2LNK PFMLINKINSVCTIME	Sum Sum
MTP2LNKPFMLINK LCLBUSY	ACCUM ULATIO N	I N T 8	Total time (during this collectio n period - in seconds) during which the link remained locally congeste d.	SYSMTP2LINKPERF.MTP2LNK PFMLINKLCLBUSY	Sum Sum
MTP2LNKPFMMSU OCTETRETX	ACCUM ULATIO N	I N T 8	Number of MSU (Message Signal Unit) octets retransmi	SYSMTP2LINKPERF.MTP2LNK PFMMSUOCTETRETX	Sum Sum

			tted.			
MTP2LNKPFMMSURX	ACCUMULATION	IN T 8	Number of MSUs (Message Signal Units) received.	SYSMTP2LINKPERF.MTP2LNKPFMMSURX	Sum	Sum
MTP2LNKPFMMSUTX	ACCUMULATION	IN T 8	Number of MSUs (Message Signal Units) transmitted.	SYSMTP2LINKPERF.MTP2LNKPFMMSUTX	Sum	Sum
MTP2LNKPFMNACKRX	ACCUMULATION	IN T 8	Number of Negative acknowledgements received.	SYSMTP2LINKPERF.MTP2LNKPFMNACKRX	Sum	Sum
MTP2LNKPFMSUERRS	ACCUMULATION	IN T 8	Number of received Signaling Units (SU) in error.	SYSMTP2LINKPERF.MTP2LNKPFMSUERRS	Sum	Sum

7.19.2 Signalling_Link.Alcatel_Lucent.GSM.MTP3_Link_Performance

MTP3 Link Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
-----	------	-----------	-------------	------------	--------------------	-------------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

MTP3LNKPFMCBARX	ACCUMULATION	INT8	Number of changeback acknowledgement messages received.	SYSMTP3LINKPERF.MTP3LNKPFMCBARX	Sum	Sum
MTP3LNKPFMCBATX	ACCUMULATION	INT8	Number of changeback acknowledgement transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMCBATX	Sum	Sum
MTP3LNKPFMCBDRX	ACCUMULATION	INT8	Number of changeback declaration messages received	SYSMTP3LINKPERF.MTP3LNKPFMCBDRX	Sum	Sum
MTP3LNKPFMCBDTX	ACCUMULATION	INT8	Number of changeback declaration messages transmitted	SYSMTP3LINKPERF.MTP3LNKPFMCBDTX	Sum	Sum
MTP3LNKPFMCOARX	ACCUMULATION	INT8	Number of changeover acknowledgement messages received.	SYSMTP3LINKPERF.MTP3LNKPFMCOARX	Sum	Sum
MTP3LNKPFMCOATX	ACCUMULATION	INT8	Number of	SYSMTP3LINKPERF.MTP3LNKPFMCOATX	Sum	Sum

			changeover acknowledgement messages transmitted.			
MTP3LNKPFMCONNACKRX	ACCUMULATION	INT8	Number of link connection acknowledgement messages received.	SYSMTP3LINKPERF.MTP3LNKPFMCONNACKRX	Sum	Sum
MTP3LNKPFMCONNACKTX	ACCUMULATION	INT8	Number of link connection acknowledgement messages transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMCONNACKTX	Sum	Sum
MTP3LNKPFMCONNORDRX	ACCUMULATION	INT8	Number of link connection order messages received.	SYSMTP3LINKPERF.MTP3LNKPFMCONNORDRX	Sum	Sum
MTP3LNKPFMCONNORDTX	ACCUMULATION	INT8	Number of link connection order messages transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMCONNORDTX	Sum	Sum
MTP3LNKPFMCON	ACCUMULATION	INT8	Number	SYSMTP3LINKPERF.MTP3LN	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

ORX	LATION	T8	of changeov er order messages received	KPFMCOORX		
MTP3LNKPFMCO OTX	ACCUMU LATION	IN T8	Number of changeov er order messages transmitte d	SYSMTP3LINKPERF.MTP3LN KPFMCOOTX	Sum	Sum
MTP3LNKPFMDU RLNKCONG	ACCUMU LATION	IN T8	The duration of any current link congestio n during this collection period. (100 milliseco nd units)	SYSMTP3LINKPERF.MTP3LN KPFMDURLNKCONG	Sum	Sum
MTP3LNKPFMEC ARX	ACCUMU LATION	IN T8	Number of emergenc y changeov er ACK received.	SYSMTP3LINKPERF.MTP3LN KPFMECARX	Sum	Sum
MTP3LNKPFMEC ATX	ACCUMU LATION	IN T8	Number of emergenc y changeov er ACK transmitte d.	SYSMTP3LINKPERF.MTP3LN KPFMECATX	Sum	Sum
MTP3LNKPFMEC ORX	ACCUMU LATION	IN T8	Number of emergenc	SYSMTP3LINKPERF.MTP3LN KPFMECORX	Sum	Sum

			y changeov er order messages received.		
MTP3LNKPFMEC OTX	ACCUMU LATION	IN T8	Number of emergenc y changeov er order messages transmitte d.	SYSMTP3LINKPERF.MTP3LN KPFMECOTX	Sum Sum
MTP3LNKPFMER RPDURX	ACCUMU LATION	IN T8	Number of error messages received.	SYSMTP3LINKPERF.MTP3LN KPFMERRPDURX	Sum Sum
MTP3LNKPFMLF URX	ACCUMU LATION	IN T8	Number of force link uninhibit messages received.	SYSMTP3LINKPERF.MTP3LN KPFMLFURX	Sum Sum
MTP3LNKPFMLF UTX	ACCUMU LATION	IN T8	Number of force link uninhibit messages transmitte d.	SYSMTP3LINKPERF.MTP3LN KPFMLFUTX	Sum Sum
MTP3LNKPFMLI ARX	ACCUMU LATION	IN T8	Number of link inhibit acknowle dgement messages received.	SYSMTP3LINKPERF.MTP3LN KPFMLIARX	Sum Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

MTP3LNKPFMLI ATX	ACCUMU LATION	IN T8	Number of link inhibit acknowledge ment messages transmitte d.	SYSMTP3LINKPERF.MTP3LN KPFMLIATX	Sum	Sum
MTP3LNKPFMLI DRX	ACCUMU LATION	IN T8	Number of link inhibit denied messages received.	SYSMTP3LINKPERF.MTP3LN KPFMLIDRX	Sum	Sum
MTP3LNKPFMLI DTX	ACCUMU LATION	IN T8	Number of link inhibit denied messages transmitte d.	SYSMTP3LINKPERF.MTP3LN KPFMLIDTX	Sum	Sum
MTP3LNKPFMLI NRX	ACCUMU LATION	IN T8	Number of link inhibits messages received.	SYSMTP3LINKPERF.MTP3LN KPFMLINRX	Sum	Sum
MTP3LNKPFMLI NTX	ACCUMU LATION	IN T8	Number of link inhibit messages transmitte d.	SYSMTP3LINKPERF.MTP3LN KPFMLINTX	Sum	Sum
MTP3LNKPFMLL IRX	ACCUMU LATION	IN T8	Number of local link inhibit test messages received.	SYSMTP3LINKPERF.MTP3LN KPFMLLIRX	Sum	Sum
MTP3LNKPFMLL ITX	ACCUMU LATION	IN T8	Number of local link	SYSMTP3LINKPERF.MTP3LN KPFMLLITX	Sum	Sum

			inhibit test messages transmitted.		
MTP3LNKPFMLN KTSTACKRX	ACCUMU LATION	IN T8	Number of link test acknowledgement messages received.	SYSMTP3LINKPERF.MTP3LN KPFMLNKTSTACKRX	Sum Sum
MTP3LNKPFMLN KTSTACKTX	ACCUMU LATION	IN T8	Number of link test acknowledgement messages transmitted.	SYSMTP3LINKPERF.MTP3LN KPFMLNKTSTACKTX	Sum Sum
MTP3LNKPFMLN KTSTRX	ACCUMU LATION	IN T8	Number of link test messages received.	SYSMTP3LINKPERF.MTP3LN KPFMLNKTSTRX	Sum Sum
MTP3LNKPFMLN KTSTTX	ACCUMU LATION	IN T8	Number of link test messages transmitted.	SYSMTP3LINKPERF.MTP3LN KPFMLNKTSTTX	Sum Sum
MTP3LNKPFMLR IRX	ACCUMU LATION	IN T8	Number of remote link inhibit test messages received.	SYSMTP3LINKPERF.MTP3LN KPFMLRIRX	Sum Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

MTP3LNKPFMLRITX	ACCUMULATION	INT8	Number of remote link inhibit test messages transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMLRITX	Sum	Sum
MTP3LNKPFMLUARX	ACCUMULATION	INT8	Number of link uninhibit acknowledgement messages received.	SYSMTP3LINKPERF.MTP3LNKPFMLUARX	Sum	Sum
MTP3LNKPFMLUATX	ACCUMULATION	INT8	Number of link uninhibit acknowledgement messages transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMLUATX	Sum	Sum
MTP3LNKPFMLUNRX	ACCUMULATION	INT8	Number of link uninhibit messages received.	SYSMTP3LINKPERF.MTP3LNKPFMLUNRX	Sum	Sum
MTP3LNKPFMLUNTX	ACCUMULATION	INT8	Number of link uninhibit messages transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMLUNTX	Sum	Sum
MTP3LNKPFMMSURX	ACCUMULATION	INT8	Number of MSU received.	SYSMTP3LINKPERF.MTP3LNKPFMMSURX	Sum	Sum
MTP3LNKPFMMSUTX	ACCUMULATION	INT8	Number of MSU transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMMSUTX	Sum	Sum

MTP3LNKPFMSIFOCTRX	ACCUMULATION	INT8	Number of SIF octet received.	SYSMTP3LINKPERF.MTP3LNKPFMSIFOCTRX	Sum	Sum
MTP3LNKPFMSIFOCTTX	ACCUMULATION	INT8	Number of SIF octet transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMSIFOCTTX	Sum	Sum
MTP3LNKPFMSIOOCTRX	ACCUMULATION	INT8	Number of SIO octet received.	SYSMTP3LINKPERF.MTP3LNKPFMSIOOCTRX	Sum	Sum
MTP3LNKPFMSIOOCTTX	ACCUMULATION	INT8	Number of SIO octet transmitted.	SYSMTP3LINKPERF.MTP3LNKPFMSIOOCTTX	Sum	Sum
MTP3LNKPFMTXCONGDROP	ACCUMULATION	INT8	Number of MSUs (Message Signal Units) dropped due to link congestion.	SYSMTP3LINKPERF.MTP3LNKPFMTXCONGDROP	Sum	Sum
MTP3LNKPFMTXDROP	ACCUMULATION	INT8	Number of transmitted messages dropped.	SYSMTP3LINKPERF.MTP3LNKPFMTXDROP	Sum	Sum
MTP3LNKPFMUNAVDUR	ACCUMULATION	INT8	The duration of any	SYSMTP3LINKPERF.MTP3LNKPFMUNAVDUR	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

		current link unavailability during this collection period. (100 millisecond units)			
--	--	--	--	--	--

7.20 Signalling_LinkSet Performance Indicators

This section shows the key performance indicators and other counters for the Signalling_LinkSet object, divided into the following sub-sections:

- [Signalling_LinkSet.Alcatel_Lucent.GSM.Linkset_System_Performance](#)
- [Signalling_LinkSet.Alcatel_Lucent.GSM.MTP3_Linkset_Performance](#)

7.20.1 Signalling_LinkSet.Alcatel_Lucent.GSM.Linkset_System_Performance

Linkset Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MAXRXLINKOCCPERLS	INTENSITY	FLOAT	Maximum receive link occupancy reached - across all links in the specified linkset (% - special format see below)	SUMMARYPERF_LS.MAXRXLINKOCCPERLS	Constant	Average, Maximum, Minimum, Sum
MAXTXLINKOCCPERLS	INTENSITY	FLOAT	Maximum transmit link occupancy reached - across all	SUMMARYPERF_LS.MAXTXLINKOCCPERLS	Constant	Average, Maximum, Minimum, Sum

			links in the specified linkset (% - special format see below)			
MEANRXLINKOC CPE RLS	INTENSITY	FLOAT	Average (mean) receive link occupancy across all links in the specified linkset (% - special format see below)	SUMMARYPERF_LS. MEANRXLINKOCCPE RLS	Average	Average, Maximum, Minimum, Sum
MEANTXLINKOC CPE RLS	INTENSITY	FLOAT	Average (mean) transmit link occupancy across all links in the specified linkset (% - special format see below)	SUMMARYPERF_LS. MEANTXLINKOCCPE RLS	Average	Average, Maximum, Minimum, Sum

7.20.2 Signalling_LinkSet.Alcatel_Lucent.GSM.MTP3_Linkset_Performance

MTP3 Linkset Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
-----	------	-----------	-------------	------------	--------------------	-------------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

		e				
MTP3LNKSETPFM UNAVAILDUR	ACCUMU LATION	IN T 8	Time duratio n (durin g this collect ion interva l) of any current linkset unavai lability - in 100 millise cond units.	SYSMTP3LINKSETPERF.MTP3L NKSETPFMUNAVAILDUR	Sum	Sum

7.21 SMIM Performance Indicators

This section shows the key performance indicators and other counters for the SMIM object, divided into the following sub-sections:

- [SMIM.Alcatel_Lucent.GSM.IWF_Signalling_Performance](#)

7.21.1 SMIM.Alcatel_Lucent.GSM.IWF_Signalling_Performance

Inter-Working Function Signalling Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ALARMREPOR TACKTX	ACCUMU LATION	INTE GER	Number of Alarm Report Acknowle dgement messages transmitted by WSS to	SYSIWFSMIMPERF.ALARM REPORTACKTX	Sum	Sum

			SMIM			
ALARMREPORTRX	ACCUMULATION	INTEGER	Number of Alarm Report messages received by WSS from SMIM	SYSIWFSMIMPERF.ALARMREPORTRX	Sum	Sum
CHGOCCSTATETX	ACCUMULATION	INTEGER	Number of Change OBC Channel Controller (OCC) State messages transmitted by WSS to SMIM	SYSIWFSMIMPERF.CHGOCCSTATETX	Sum	Sum
CMMCONFTX	ACCUMULATION	INTEGER	Number of Acknowledgment to Change of Channel Coding due to negotiation of end-to-end connection messages transmitted by WSS to SMIM	SYSIWFSMIMPERF.CMMC ONFTX	Sum	Sum
CMMREQRX	ACCUMULATION	INTEGER	Number of Change of Channel	SYSIWFSMIMPERF.CMMREQRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Coding due to negotiation of end-to-end connection messages received by WSS from SMIM			
CONNACKRX	ACCUMULATION	INTEGER	Number of Connection Acknowledgement messages or Connection Release Acknowledgement messages received by WSS from SMIM	SYSIWFSMIMPERF.CONNACKRX	Sum	Sum
CONNFCREL RX	ACCUMULATION	INTEGER	Number of Forced Connection Release messages received by WSS from SMIM	SYSIWFSMIMPERF.CONNFCREL RX	Sum	Sum
CONNRELTX	ACCUMULATION	INTEGER	Number of Connection Release messages transmitted from WSS to SMIM	SYSIWFSMIMPERF.CONNRELTX	Sum	Sum

FCDRESTTX	ACCUMULATION	INTEGER	Number of Forced Restart messages transmitted from WSS to SMIM	SYSIWFSMIMPERF.FCDRESTTX	Sum	Sum
IWASRQTX	ACCUMULATION	INTEGER	Number of All IWF Alarm States request (after the restart of WSS) messages transmitted by WSS to SMIM	SYSIWFSMIMPERF.IWASRQTX	Sum	Sum
IWASRSPRX	ACCUMULATION	INTEGER	Number of All IWF Alarm States Response messages received by WSS from SMIM	SYSIWFSMIMPERF.IWASRSPRX	Sum	Sum
IWCONNERRRX	ACCUMULATION	INTEGER	Number of IWF Connection Error messages received by WSS from SMIM	SYSIWFSMIMPERF.IWCONNERRRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

IWERRACKTX	ACCUMULATION	INTEGER	Number of Acknowledgement messages for IWF Error appearance and disappearance transmitted by WSS to SMIM	SYSIWFSMIMPERF.IWERRACKTX	Sum	Sum
IWERRORRX	ACCUMULATION	INTEGER	Number of IWF Error appearance and disappearance messages received by WSS from SMIM	SYSIWFSMIMPERF.IWERRORRX	Sum	Sum
LOADBIDRX	ACCUMULATION	INTEGER	Number of Fast Test on MIWX (Load Bid) messages received by WSS from SMIM. This is just an information for WSS	SYSIWFSMIMPERF.LOADBIDRX	Sum	Sum
MODIGITALCALLS	ACCUMULATION	INTEGER	Number of Mobile Originated Digital Calls	SYSIWFSMIMPERF.MODIGITALCALLS	Sum	Sum
MOFAXCALLS	ACCUMULATION	INTEGER	Number of	SYSIWFSMIMPERF.MOFAX	Sum	Sum

	LATION	GER	Mobile Originated Fax Calls	CALLS		
MOMODEMCA LLS	ACCUMU LATION	INTE GER	Number of Mobile Originated Modem Calls	SYSIWFSMIMPERF.MOMO DEMCALLS	Sum	Sum
MTDIGITALCA LLS	ACCUMU LATION	INTE GER	Number of Mobile Terminate d Digital Calls	SYSIWFSMIMPERF.MTDIGI TALCALLS	Sum	Sum
MTFAXCALLS	ACCUMU LATION	INTE GER	Number of Mobile Terminate d Fax Calls	SYSIWFSMIMPERF.MTFAX CALLS	Sum	Sum
MTMODEMCA LLS	ACCUMU LATION	INTE GER	Number of Mobile Terminate d Modem Calls	SYSIWFSMIMPERF.MTMO DEMCALLS	Sum	Sum
OCCSTRSPRX	ACCUMU LATION	INTE GER	Number of OBC Channel Controller (OCC) State Change Response messages received by WSS from SMIM	SYSIWFSMIMPERF.OCCST RSPRX	Sum	Sum
READALARMS	ACCUMU	INTE	Number of	SYSIWFSMIMPERF.READA	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

TATUSTX	LATION	GER	Read Alarm Status messages transmitted by WSS to SMIM	LARMSTATUSTX		
RESETOBCCALCTX	ACCUMULATION	INTEGER	Number of Clock and Alarm On-Board-Controller Reset messages transmitted by WSS to SMIM	SYSIWFSMIMPERF.RESETOBCCALCTX	Sum	Sum
RESETOBCMIWXTX	ACCUMULATION	INTEGER	Number of Mobile Interworking Unit Version X (MIWX) On-Board-Controller Reset messages transmitted by WSS to SMIM	SYSIWFSMIMPERF.RESETOBCMIWXTX	Sum	Sum
RESTARTINDRX	ACCUMULATION	INTEGER	Number of Autonomous Restart on MIWX Indication messages received by WSS from SMIM.	SYSIWFSMIMPERF.RESTARTINDRX	Sum	Sum
SENDERJATX	ACCUMULATION	INTEGER	Number of block and unblock	SYSIWFSMIMPERF.SENDERJATX	Sum	Sum

			messages to SMIM to prevent seizure from the switch.			
UPDNOTCHTX	ACCUMULATION	INTEGER	Number of Update of the number of real Traffic Channels used messages transmitted by WSS to SMIM	SYSIWFSMIMPERF.UPDNOTCHTX	Sum	Sum
XCONNREQTX	ACCUMULATION	INTEGER	Number of Data Connection Request messages transmitted from WSS to SMIM	SYSIWFSMIMPERF.XCONNREQTX	Sum	Sum
XSYSPARMTX	ACCUMULATION	INTEGER	Number of System Parameter/Configuration messages transmitted by WSS to SMIM	SYSIWFSMIMPERF.XSYSPARMTX	Sum	Sum

7.22 Traffic_Dest Performance Indicators

This section shows the key performance indicators and other counters for the Traffic_Dest object, divided into the following sub-sections:

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

- [Traffic_Dest.Alcatel_Lucent.GSM.Traffic_Destination_Code_Performance](#)

7.22.1 Traffic_Dest.Alcatel_Lucent.GSM.Traffic_Destination_Code_Performance

Traffic Destination Code Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ANSWCALLTIMEVCCAL	ERLANG	FLOAT	Total traffic from ANM/ANC received to call release.	TDCPERF.ANSWCALLTIMEVCCAL	Average	altdctbh, Average, Maximum, Minimum, Sum
CALLANSVCALL	ACCUMULATION	INTEGER	ANM/ANC received.	TDCPERF.CALLANSVCALL	Sum	altdctbh, Sum
CALLATTVCALL	ACCUMULATION	INTEGER	Prefix number analysis result for outgoing trunk(IAM sent).	TDCPERF.CALLATTVCALL	Sum	altdctbh, Sum
CDBSYVCCAL	ACCUMULATION	INTEGER	Number of Called Busy.	TDCPERF.CDBSYVCCAL	Sum	altdctbh, Sum
NOANSVCALL	ACCUMULATION	INTEGER	Number of No Answer Timeout.	TDCPERF.NOANSVCALL	Sum	altdctbh, Sum
SEIZCALLTIMEVCCAL	ERLANG	FLOAT	total traffic	TDCPERF.SEIZCALLTIMEVCCAL	Average	altdctbh, Average,

			from IAM sent on the certain TDC to call release.			Maximu m, Minimu m, Sum
--	--	--	--	--	--	----------------------------------

7.23 Trunk_Group Performance Indicators

This section shows the key performance indicators and other counters for the Trunk_Group object, divided into the following sub-sections:

- [Trunk_Group.Alcatel_Lucent.GSM.CN_VOIP_Performance](#)
- [Trunk_Group.Alcatel_Lucent.GSM.System_Group_Performance](#)
- [Trunk_Group.Alcatel_Lucent.GSM.Trunk_Group_System_Performance](#)
- [Trunk_Group.Alcatel_Lucent.GSM.Trunk_Group_WMG_Interconnect_Performance](#)

7.23.1 Trunk_Group.Alcatel_Lucent.GSM.CN_VOIP_Performance

VOIP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DELAYHIGH	ACCUMULATION	INTEGER	Time lag between Local Gateway and Remote Gateway larger DelayThreshold_High.	CNVOIPPERF.DELAYHIGH	Sum	Sum
DELAYLOW	ACCUMULATION	INTEGER	Time lag	CNVOIPPERF.DELAYLOW	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	ATION	GER	between Local Gateway and Remote Gateway less than DelayThreshold_Low.	W		
DELAYMEDIUM	ACCUMULATION	INTEGER	Time lag between Local Gateway and Remote Gateway between DelayThreshold_Low and DelayThreshold_High.	CNVOIPPERF.DELAYMEDIUM	Sum	Sum
JITTERRXMAXHIGH	ACCUMULATION	INTEGER	Number of calls that observed local jitter value larger jitterThreshold_High.	CNVOIPPERF.JITTERRXMAXHIGH	Sum	Sum
JITTERRXMAXLOW	ACCUMULATION	INTEGER	Number of calls that observed local jitter less than the jitterThreshold_Low.	CNVOIPPERF.JITTERRXMAXLOW	Sum	Sum
JITTERRXMAXMEDIUM	ACCUMULATION	INTEGER	Number of calls that	CNVOIPPERF.JITTERRXMAXMEDIUM	Sum	Sum

			observed local jitter value between jitterThres hold_Low and jitterThres hold_High .			
JITTERTXMAX HIGH	ACCUMUL ATION	INTE GER	Number of calls that reported remote jitter value larger jitterThres hold_High .	CNVOIPPERF.JITTERTX MAXHIGH	Sum	Sum
JITTERTXMAX LOW	ACCUMUL ATION	INTE GER	Number of calls that reported remote jitter less than the jitterThres hold_Low.	CNVOIPPERF.JITTERTX MAXLOW	Sum	Sum
JITTERTXMAX MEDIUM	ACCUMUL ATION	INTE GER	Number of calls that reported remote jitter value between jitterThres hold_Low and jitterThres hold_High .	CNVOIPPERF.JITTERTX MAXMEDIUM	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

PACKETLOSSLOCL	ACCUMULATION	INTEGER	Indicates the number of local RTP packets lost.	CNVOIPPERF.PACKETLOSSLOCL	Sum	Sum
PACKETLOSSRMT	ACCUMULATION	INTEGER	Indicates the number of remote RTP packets lost.	CNVOIPPERF.PACKETLOSSRMT	Sum	Sum
PACKETSRX	ACCUMULATION	INTEGER	Numbers of RTP packet received.	CNVOIPPERF.PACKETSRX	Sum	Sum
PACKETSTX	ACCUMULATION	INTEGER	Numbers of RTP packet transmitted.	CNVOIPPERF.PACKETSTX	Sum	Sum

7.23.2 Trunk_Group.Alcatel_Lucent.GSM.System_Group_Performance

System Group Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
GROUPDIRECTION	ACCUMULATION	INTEGER	Indication of whether the trunk group is incoming only, outgoing only or both ways.	SYSGRPPERF.GROUPDIRECTION	Null	
INCOMINGABANDONED	ACCUMULATION	INTEGER	Number of incoming call attempts that were abandoned. It is pegged, If an	SYSGRPPERF.INCOMINGABANDONED	Sum	Sum

			originating side release the call before ANM was received. If a ML call encounters no circuits available on the outgoing trunk (terminating side). If an originating call connected to the announcement (based on a release cause code received from the terminating office) releases the call before the announcement is completed.		
INCOMINGACMTX	ACCUMULATION	INTEGER	Incoming call successful times: Number of Address Complete messages transmitted.	SYSGRPPERF.INCOMINGACMTX	Sum Sum
INCOMINGANSWERED	ACCUMULATION	INTEGER	Number of Incoming call attempts that were completed. This counter was previously called as INCOMINGCOMPLETION	SYSGRPPERF.INCOMINGANSWERED	Sum Sum
INCOMINGANSWSEC	ACCUMULATION	INTEGER	The accumulated number of seconds of incoming-call's Conversation duration	SYSGRPPERF.INCOMINGANSWSEC	Sum Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

INCOMINGATT EMPTS	ACCUM ULATION	INT EGER	Total Number of incoming call attempts on this trunk group (access as well as IMT trunks). It is pegged when facility manager allocates circuit in response to either setup or IAM message.	SYSGRPPERF.INCOMIN GATTEMPTS	Sum	Sum
INCOMINGBLO CKED	ACCUM ULATION	INT EGER	Number of calls blocked due to calls coming in (the wrong direction) on a trunk that is designated for outgoing only Applicable to both IMT and access trunks, however, the value should be nil for access trunks since they are bidirectional.	SYSGRPPERF.INCOMIN GBLOCKED	Sum	Sum
INCOMINGCOM PLETION	ACCUM ULATION	INT EGER	Total Number of valid incoming call attempts. This counter was previously called as INCOMINGVALI DATTEMPTS	SYSGRPPERF.INCOMIN GCOMPLETION	Sum	Sum
INCOMINGCON GESTION	ACCUM ULATION	INT EGER	Number of calls dropped due to internal(local) system congestion occurred on either access or IMT trunks.	SYSGRPPERF.INCOMIN GCONGESTION	Sum	Sum
INCOMINGNOT ANSWERED2	ACCUM ULATION	INT EGER	Number of incoming call-attempts that did	SYSGRPPERF.INCOMIN GNOTANSWERED2	Sum	Sum

			not get answered due to ring timeout.			
INCOMINGNOT ANSWERED	ACCUMULATION	INTEGER	Number of incoming call-attempts that did not get answered due to reasons other than call rejection, translation error, protocol error, routing failure, system error, and call abandon.	SYSGRPPERF.INCOMINGNOTANSWERED	Sum	Sum
INCOMINGORLATECFW	ACCUMULATION	INTEGER	Number of incoming Optimal Routing Late Call Forward allowed in GMSC.	SYSGRPPERF.INCOMINGORLATECFW	Sum	Sum
INCOMINGREJECTED	ACCUMULATION	INTEGER	Number of incoming call-attempts that were rejected due to call barring or other service restrictions.	SYSGRPPERF.INCOMINGREJECTED	Sum	Sum
INCOMINGTERMBSS	ACCUMULATION	INTEGER	Number of incoming call attempts that terminated on a local BSS trunk.	SYSGRPPERF.INCOMINGTERMBSS	Sum	Sum
INCOMINGTERMCASTRK	ACCUMULATION	INTEGER	Number of incoming call attempts that terminated on a local CAS trunk.	SYSGRPPERF.INCOMINGTERMCASTRK	Sum	Sum
INCOMINGTERMSS7	ACCUMULATION	INTEGER	Number of incoming call	SYSGRPPERF.INCOMINGTERMSS7	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	N	R	attempts that terminated on a local ISUP trunk.			
INCOMINGUNALLNUM	ACCUMULATION	INTEGER	Number of incoming call attempts that ended due to Unassigned Number.	SYSGRPPERF.INCOMINGUNALLNUM	Sum	Sum
INCOMINGUSAGESEC	ACCUMULATION	INTEGER	The accumulated number of seconds of incoming resource usage.	SYSGRPPERF.INCOMINGUSAGESEC	Sum	Sum
INCOMINGUSERBUSY	ACCUMULATION	INTEGER	Number of incoming call attempts that ended due to Called Busy.	SYSGRPPERF.INCOMINGUSERBUSY	Sum	Sum
INSERVICERESOURCES	ACCUMULATION	INTEGER	Total Number of resources/circuits in service.	SYSGRPPERF.INSERVICERESOURCES	Sum	Sum
MAXRESOURCEAVAIL	INTENSITY	FLOAT	Maximum number of circuits available during the measurement interval. This represents lowest traffic point in the measurement interval.	SYSGRPPERF.MAXRESOURCEAVAIL	Constant	Average, Maximum, Minimum, Sum
MAXRESOURCEOCCUPIED	INTENSITY	FLOAT	Maximum number of channels with active calls. during the measurement interval. This should be equal to (INSERVICERESOURCES - MINRESOURCEAVAIL).	SYSGRPPERF.MAXRESOURCEOCCUPIED	Constant	Average, Maximum, Minimum, Sum
MINRESOURCEAVAIL	INTENSITY	FLOAT	Minimum number of resources available during the	SYSGRPPERF.MINRESOURCEAVAIL	Minimum	Average, Maxi

			measurement interval. This represents the heaviest traffic point in the measurement interval..			mum, Minimum, Sum
MINRESOURCE AVAILVALID	ACCUM ULATION	INT EGER	This field indicates whether the minimum number of resources available is valid or default 0.	SYSGRPPERF.MINRESO URCEAVAILVALID	Null	
NUMBEROFRES OURCES	INTENSI TY	FLO AT	Number of circuits defined (or provisioned) including Out-of-Service in the trunk group at the end of the recording interval	SYSGRPPERF.NUMBER OFRESOURCES	Aver age	Avera ge, Maxi mum, Mini mum, Sum
OOSSEC	ACCUM ULATION	INT EGER	Total Number of seconds all the resources spent in the out of service state.	SYSGRPPERF.OOSSEC	Sum	Sum
ORIGMSHANDO VER	ACCUM ULATION	INT EGER	Total Number of circuits used due to originating MS got handed over	SYSGRPPERF.ORIGMS HANDOVER	Sum	Sum
OUTGOINGABA NDONED	ACCUM ULATION	INT EGER	Number of Outgoing call-attempts that were abandoned by the call originator.	SYSGRPPERF.OUTGOI NGABANDONED	Sum	Sum
OUTGOINGAC MRX	ACCUM ULATION	INT EGER	Outgoing call successful	SYSGRPPERF.OUTGOI NGACMRX	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	N	R	times: Number of Address Complete messages received.			
OUTGOINGANSWERED	ACCUMULATION	INTEGER	Number of outgoing call attempts that were answered. This counter was previously called as OUTGOINGCOMPLETION	SYSGRPPERF.OUTGOINGANSWERED	Sum	Sum
OUTGOINGANSWSEC	ACCUMULATION	INTEGER	The accumulated number of seconds of outgoing-call's Conversation duration..	SYSGRPPERF.OUTGOINGANSWSEC	Sum	Sum
OUTGOINGATTEMPTS	ACCUMULATION	INTEGER	Total Number of outgoing call attempts pegged when facility manager received a request to idle the circuit that was used for outgoing (termination) party id. Either setup or IAM message was sent..	SYSGRPPERF.OUTGOINGATTEMPTS	Sum	Sum
OUTGOINGCOMPLETION	ACCUMULATION	INTEGER	Total Number of outgoing call attempts that were completed but not necessarily answered. It shall be equal to OUTGOINGATTEMPTS - (SIGFAILURES + OVERFLOWS + OUTGOINGCONGESTION + SYSTEMERRORS OUTGOING +	SYSGRPPERF.OUTGOINGCOMPLETION	Sum	Sum

			PROTOCOLERRO RSOUTGOING + OUTGOINGNOA NS)s		
OUTGOINGCON GESTION	ACCUM ULATIO N	INT EGE R	Number of calls failed due to outgoing congestion, applicable to both access and IMT trunks	SYSGRPPERF.OUTGOI NGCONGESTION	Sum Sum
OUTGOINGGLA RE	ACCUM ULATIO N	INT EGE R	Number of outgoing call attempts that encountered glare, applicable to IMT trunks..	SYSGRPPERF.OUTGOI NGGLARE	Sum Sum
OUTGOINGNOT ANSWERED2	ACCUM ULATIO N	INT EGE R	Number of outgoing call attempts that ended due to ring timeout.	SYSGRPPERF.OUTGOI NGNOTANSWERED2	Sum Sum
OUTGOINGNOT ANSWERED	ACCUM ULATIO N	INT EGE R	Number of outgoing call attempts that ended due to no answer or ring timeout. In addition, if a release message was received from the far end office before ANM with any release cause codes, it will be pegged as outgoing not answered.	SYSGRPPERF.OUTGOI NGNOTANSWERED	Sum Sum
OUTGOINGORL ATECFW	ACCUM ULATIO N	INT EGE R	Number of outgoing Optimal Routing Late Call	SYSGRPPERF.OUTGOI NGORLATECFW	Sum Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Forward allowed in VMSC.		
OUTGOINGREJECTED	ACCUMULATION	INTEGER	Number of outgoing call-attempts that were rejected by the call terminating switch due to call barring or other service restrictions.	SYSGRPPERF.OUTGOINGREJECTED	Sum Sum
OUTGOINGUNALLNUM	ACCUMULATION	INTEGER	Number of outgoing call attempts that ended due to Unassigned Number.	SYSGRPPERF.OUTGOINGUNALLNUM	Sum Sum
OUTGOINGUSAGESEC	ACCUMULATION	INTEGER	The accumulated number of seconds of outgoing resource usage.	SYSGRPPERF.OUTGOINGUSAGESEC	Sum Sum
OUTGOINGUSERBUSY	ACCUMULATION	INTEGER	Number of outgoing call attempts that ended due to Called Busy.	SYSGRPPERF.OUTGOINGUSERBUSY	Sum Sum
OVERFLOWSEC	ACCUMULATION	INTEGER	Number of seconds that the group had all resources (circuit) busy.	SYSGRPPERF.OVERFLOWSEC	Sum Sum
OVERFLOWS	ACCUMULATION	INTEGER	Number of times that attempts were denied due to all resources (circuits) being busy on either access or IMT trunks. For ISUP trunks overflow get pegged for outgoing calls only. For access trunks it gets pegged whenever there is no circuit available	SYSGRPPERF.OVERFLOWS	Sum Sum

			for			
PRIORITYCALL ATT	ACCUM ULATIO N	INT EGE R	[R-168] Total Number of NS/EP calls that require an outgoing trunk.	SYSGRPPERF.PRIORIT YCALLATT	Sum	Sum
PROTOCOLERR ORSINCOMING	ACCUM ULATIO N	INT EGE R	Number of calls dropped due to unspecified protocol errors on the incoming side, applicable to both access and IMT trunks. Pegged when incoming message has unsupported bearer, invalid mandatory info, or mandatory IE missing.	SYSGRPPERF.PROTOC OLERRORSINCOMING	Sum	Sum
PROTOCOLERR ORSOUTGOING	ACCUM ULATIO N	INT EGE R	Number of calls dropped due to unspecified protocol errors on the outgoing side	SYSGRPPERF.PROTOC OLERRORSOUTGOING	Sum	Sum
ROUTINGFAILU RE	ACCUM ULATIO N	INT EGE R	Number of incoming calls that has successfully passed translation but dropped due to routing errors, applicable to both access and IMT trunks. Pegged when no circuit to destination, invalid route index, fail on continuity test, LNP misrouted	SYSGRPPERF.ROUTING FAILURE	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ported numbe			
SIGFAILURES	ACCUM ULATION	INT EGER	Number of call attempts that had signaling failures. Pegged when ACM timeout, timeout on failed to connect bearer, timeout on setup message response, ring timeout, timeout on info message etc.	SYSGRPPERF.SIGFAILURES	Sum	Sum
SYSTEMERROR SINCOMING	ACCUM ULATION	INT EGER	Number of calls dropped due to system errors on the incoming side applicable to access and IMT trunks. Pegged when assignment failure occurs, prepaid timer expires, unexpected message received from term side, invalid internal response from message etc.	SYSGRPPERF.SYSTEM ERRORSINCOMING	Sum	Sum
SYSTEMERROR SOUTGOING	ACCUM ULATION	INT EGER	Number of calls dropped due to system errors on the outgoing side Pegged when error during outgoing setup message, timeout on the response to terminate attempt message, received unexpected CCP release when waiting for call proceeding from ISUP, COT Test	SYSGRPPERF.SYSTEM ERRORSOUTGOING	Sum	Sum

TERMMSHANDOVER	ACCUMULATION	INTEGER	Total Number of circuits used due to terminating MS got handed over	SYSGRPPERF.TERMMSHANDOVER	Sum	Sum
TRANSLATION ERRORS	ACCUMULATION	INTEGER	Number of calls dropped due to number translation errors occurred on both access and IMT trunks.	SYSGRPPERF.TRANSLATIONERRORS	Sum	Sum

7.23.3 Trunk_Group.Alcatel_Lucent.GSM.Trunk_Group_System_Performance

Trunk Group System Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MAXTRUNKOCCPERTG	INTENSITY	FLOAT	Maximum trunk group occupancy reached - in the specified trunk group (% - special format see below)	SUMMARYPERF_TG.MAXTRUNKOCCPERTG	Constant	Average, Maximum, Minimum, Sum

7.23.4 Trunk_Group.Alcatel_Lucent.GSM.Trunk_Group_WMG_Interconnect_Performance

Media Gateway Interconnect Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
-----	------	-----------	-------------	------------	--------------------	-------------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

INATTFROMICONS USAGESEC	ACCUM ULATION	INTER EG ER	Usage second s for call attempt s going to this Trunk Group ID from all Interco nnects throug h this WMG ID	TRKGRPWMGICONPERF.INATT FROMICONSUSAGESEC	Sum	Sum
INATTFROMOTHER TRKGSUSAGESEC	ACCUM ULATION	INTER EG ER	Usage second s for call attempt s going this Trunk Group ID from all other Trunk Groups throug h this WMG ID	TRKGRPWMGICONPERF.INATT FROMOTHERTRKGSUSAGESEC	Sum	Sum
INCOMINGATTEMP TSFROMICONS	ACCUM ULATION	INTER EG ER	Total numbe r of Call attempt s going to this Trunk	TRKGRPWMGICONPERF.INCOM INGATTEMPTSFROMICONS	Sum	Sum

			Group ID from all Interconnects through this WMG ID		
INCOMINGATTEMPTS	ACCUMULATION	INTER	Number of Call attempts coming towards this WMG ID (key field in this record) from this Trunk Group ID (key field in this record)	TRKGRPWMGICONPERF.INCOMINGATTEMPTS	Sum Sum
INCOMINGATTEMPTSUSAGESEC	ACCUMULATION	INTER	Incoming Usage seconds for the call attempt	TRKGRPWMGICONPERF.INCOMINGATTEMPTSUSAGESEC	Sum Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			s toward s this WMG ID (key field in this record) from this Trunk Group ID (key field in this record)			
INCOMINGATTFROMOTHERTRKGS	ACCUMULATION	INTEGER	Number of Call attempts going to this Trunk Group ID from other Trunk Groups through this WMG ID	TRKGRPWMGICONPERF.INCOMINGATTFROMOTHERTRKGS	Sum	Sum
INDROPNORESAVAILONOUTICONS	ACCUMULATION	INTEGER	Number of calls coming from this trunk group on this WMG	TRKGRPWMGICONPERF.INDROPNORESAVAILONOUTICONS	Sum	Sum

			droppe d (not overflo ws) due to no resourc es availab le on the Interco nnects from this WMG ID to other WMGs served by the this WSS.			
INDROPNORESAVA ILONOUTTRKGS	ACCUM ULATIO N	INT EG ER	Numbe r of calls coming from this trunk group on this WMG droppe d (not overflo ws) due to no resourc	TRKGRPWMGICONPERF.INDRO PNORESAAVAILONOUTTRKGS	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			es availab le on the outgoi ng Trunk Groups of this WMG and this trunk group (this is the case where call came in this trunk group and it attempt ed to go out		
OUTATTTOICON SUSAGESEC	ACCUM ULATIO N	INT EG ER	Usage second s for call attempt s coming from this trunk group on this WMG and going out to Interco nnects	TRKGRPWMGICONPERF.OUTAT TTOICON SUSAGESEC	Sum Sum

			from this WMG ID to other WMGs served by the this WSS.			
OUTATTTOOTHERRKGSUSAGESEC	ACCUMULATION	INTER	Usage seconds for Call attempts coming from this trunk group on this WMG and going out to other Trunk Groups on this WMG. (This does not include attempts going out through the	TRKGRPWMGICONPERF.OUTATTTOOTHERRKGSUSAGESEC	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			same trunk group on this WMG)		
OUTATTUSAGESEC	ACCUMULATION	INTEGER	Outgoing usage seconds for call attempts going out of this WMG ID to this Trunk Group	TRKGRPWMGICONPERF.OUTATTUSAGESEC	Sum Sum
OUTDROPNORESOURCEAVAILONIN	ACCUMULATION	INTEGER	Number of calls dropped (not overflows to other trunk groups) due to no resources available on this Trunk Group	TRKGRPWMGICONPERF.OUTDROPNORESOURCEAVAILONIN	Sum Sum
OUTGOINGATTEMPTS	ACCUMULATION	INTEGER	Number of Call attempts going	TRKGRPWMGICONPERF.OUTGOINGATTEMPTS	Sum Sum

			out through this trunk group of this WMG ID.		
OUTGOINGATTEMPTSTOICONS	ACCUMULATION	INTER	Total number of Call attempts coming from this trunk group on this WMG and going out to Interconnects from this WMG ID to other WMGs served by the this WSS.	TRKGRPWMGICONPERF.OUTGOINGATTEMPTSTOICONS	Sum Sum
OUTGOINGATTEMPTSTOOTHERTRKGS	ACCUMULATION	INTER	Number of Call attempt	TRKGRPWMGICONPERF.OUTGOINGATTEMPTSTOOTHERTRKGS	Sum Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			s coming from this trunk group on this WMG and going out to other Trunk Groups on this WMG. (This does not include attempts going out through the same trunk group on this WMG)		
WMGIDEIGHTINCOMINGATTEMPTSICON	ACCUMULATION	INTEGRER	Number of calls coming from WMGIDFOUR to WMGID (key field in this record)	TRKGRPWMGICONPERF.WMGIDEIGHTINCOMINGATTEMPTSICON	Sum Sum
WMGIDEIGHTOUTGOINGATTEMPTSICO	ACCUMULATION	INTEGRER	Number of	TRKGRPWMGICONPERF.WMGIDEIGHTOUTGOINGATTEMPTSICO	Sum Sum

N	N	ER	calls going from this WMGID (key field in this record) to the WMGIDFOUR	CON		
WMGIDEIGHT	ACCUMULATION	STIRING	The ID of the WMG for which the next two fields are applicable	TRKGRPWMGICONPERF.WMGIDEIGHT	Null	
WMGIDFIVEINCOMINGATTEMPTSICON	ACCUMULATION	INTEGER	Number of calls coming from WMGIDFOUR to WMGID (key field in this record)	TRKGRPWMGICONPERF.WMGIDFIVEINCOMINGATTEMPTSICON	Sum	Sum
WMGIDFIVEOUTGO	ACCUM	INT	Numbe	TRKGRPWMGICONPERF.WMGID	Sum	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

INGATTEMPTSICON	ULATIO N	EG ER	r of calls going from this WMGI D (key field in this record) to the WMGI DFOU R	DFIVEOUTGOINGATTEMPTSICO N		
WMGIDFIVE	ACCUM ULATIO N	ST RIN G	The ID of the WMG for which the next two fields are applica ble	TRKGRPWMGICONPERF.WMGI DFIVE	Null	
WMGIDFOURINCO MINGATTEMPTSIC ON	ACCUM ULATIO N	INT EG ER	Numbe r of calls coming from WMGI DFOU R to WMGI D (key field in this record)	TRKGRPWMGICONPERF.WMGI DFOURINCOMINGATTEMPTSIC ON	Sum	Sum
WMGIDFOUROUTG OINGATTEMPTSICO N	ACCUM ULATIO N	INT EG ER	Numbe r of calls going from	TRKGRPWMGICONPERF.WMGI DFOUROUTGOINGATTEMPTSIC ON	Sum	Sum

			this WMGI D (key field in this record) to the WMGI DFOU R		
WMGIDFOUR	ACCUM ULATIO N	ST RIN G	The ID of the WMG for which the next two fields are applica ble	TRKGRPWMGICONPERF.WMGI DFOUR	Null
WMGIDONEINCOMI NGATTEMPTSICON	ACCUM ULATIO N	INT EG ER	Numbe r of calls coming from WMGI DONE to WMGI D (key field in this record)	TRKGRPWMGICONPERF.WMGI DONEINCOMINGATTEMPTSICO N	Sum
WMGIDONEOUTGO INGATTEMPTSICON	ACCUM ULATIO N	INT EG ER	Numbe r of calls going	TRKGRPWMGICONPERF.WMGI DONEOUTGOINGATTEMPTSICO N	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			from WMGI D (key field in this record) to the WMGI DONE		
WMGIDONE	ACCUM ULATIO N	ST RIN G	The ID of the WMG for which the next two fields are applica ble	TRKGRPWMGICONPERF.WMGI DONE	Null
WMGIDSEVENINCOMINGATTEMPTSIC ON	ACCUM ULATIO N	INT EG ER	Numbe r of calls coming from WMGI DFOU R to WMGI D (key field in this record)	TRKGRPWMGICONPERF.WMGI DSEVENINCOMINGATTEMPTSIC ON	Sum Sum
WMGIDSEVENOUTGOINGATTEMPTSIC ON	ACCUM ULATIO N	INT EG ER	Numbe r of calls going from this WMGI D (key field in this	TRKGRPWMGICONPERF.WMGI DSEVENOUTGOINGATTEMPTSIC ON	Sum Sum

			record) to the WMGI DFOU R		
WMGIDSEVEN	ACCUM ULATIO N	ST RIN G	The ID of the WMG for which the next two fields are applica ble	TRKGRPWMGICONPERF.WMGI DSEVEN	Null
WMGIDSIXINCOMI NGATTEMPTSICON	ACCUM ULATIO N	INT EG ER	Numbe r of calls coming from WMGI DFOU R to WMGI D (key field in this record)	TRKGRPWMGICONPERF.WMGI DSIXINCOMINGATTEMPTSICON	Sum
WMGIDSIXOUTGOI NGATTEMPTSICON	ACCUM ULATIO N	INT EG ER	Numbe r of calls going from this WMGI D (key field in	TRKGRPWMGICONPERF.WMGI DSIXOUTGOINGATTEMPTSICO N	Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			this record) to the WMGI DFOU R		
WMGIDSIX	ACCUM ULATIO N	ST RING	The ID of the WMG for which the next two fields are applica ble	TRKGRPWMGICONPERF.WMGI DSIX	Null
WMGIDTHREEINCOMINGATTEMPTSIC ON	ACCUM ULATIO N	INT EG ER	Numbe r of calls coming from WMGI DTHR EE to this WMGI D (key field in this record)	TRKGRPWMGICONPERF.WMGI DTHREEINCOMINGATTEMPTSIC ON	Sum
WMGIDTHREEOUTGOINGATTEMPTSIC ON	ACCUM ULATIO N	INT EG ER	Numbe r of calls going from this WMGI D (key field in this record) to the	TRKGRPWMGICONPERF.WMGI DTHREEOUTGOINGATTEMPTSIC ON	Sum

			WMGIDTHREE		
WMGIDTHREE	ACCUMULATION	STRING	The ID of the WMG for which the next two fields are applicable	TRKGRPWMGICONPERF.WMGIDTHREE	Null
WMGIDTWOINCOMINGATTEMPTSICON	ACCUMULATION	INTEGER	Number of calls coming from WMGIDTWO to WMGID (key field in this record)	TRKGRPWMGICONPERF.WMGIDTWOINCOMINGATTEMPTSICON	Sum Sum
WMGIDTWOOUTGOINGATTEMPTSICON	ACCUMULATION	INTEGER	Number of calls going from WMGID (key field in this record) to the	TRKGRPWMGICONPERF.WMGIDTWOOUTGOINGATTEMPTSICON	Sum Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			WMGIDTWO		
WMGIDTWO	ACCUMULATION	STRING	The ID of the WMG for which the next two fields are applicable	TRKGRPWMGICONPERF.WMGIDTWO	Null

7.24 WSS_Node Performance Indicators

This section shows the key performance indicators and other counters for the WSS_Node object, divided into the following sub-sections:

- [WSS_Node.Alcatel_Lucent.GSM.ALCAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.Call_Control_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.Call_Control2_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.Call_Total_Time_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.CAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.CISS_MAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.CISS_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.Close_User_Group_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.Emergency_Call_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.GMSC_MAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.GS_Interface_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.INAP_Message_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.IS41_Message_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.IS41_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.Location_Service_MAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.Mobility_Mgmt_MAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.RANAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.SCCP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.SCCP_Relay_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.SCTP_IP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.SMS_MAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.SMS_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.Subscriber_MAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.TUP_Performance](#)

- [WSS_Node.Alcatel_Lucent.GSM.VMSC_MAP_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.WPS_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.WSS_Disk_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.WSS_Overload_Control_Performance](#)
- [WSS_Node.Alcatel_Lucent.GSM.WSS_Performance](#)

7.24.1 WSS_Node.Alcatel_Lucent.GSM.ALCAP_Performance

ALCAP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BLOCKCFMRX	ACCUMULATION	INTEGER	Block Confirm received.	ALCAPMSGPERF.BLOCKCFMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
BLOCKCFMTX	ACCUMULATION	INTEGER	Block Confirm transmitted.	ALCAPMSGPERF.BLOCKCFMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
BLOCKREQRX	ACCUMULATION	INTEGER	Block Request received.	ALCAPMSGPERF.BLOCKREQRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
BLOCKREQTX	ACCUMULATION	INTEGER	Block Request transmitted.	ALCAPMSGPERF.BLOCKREQTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
ESTCFMTX	ACCUMULATION	INTEGER	Establish	ALCAPMSGPERF.ESTCF	Sum	alwnctbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	TION	GER	Response transmitted.	MTX		, alwnotbh , alwnttbh, Sum
ESTINDRX	ACCUMULATION	INTEGER	Establish Indication received.	ALCAPMSGPERF. ESTINDRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
RELEASECFMRX	ACCUMULATION	INTEGER	Release response received.	ALCAPMSGPERF. RELEASECFMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
RELEASECFMTX	ACCUMULATION	INTEGER	Release Confirm Transmitted.	ALCAPMSGPERF. RELEASECFMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
RELEASEREQRX	ACCUMULATION	INTEGER	Release Request received.	ALCAPMSGPERF. RELEASEREQRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
RELEASEREQTX	ACCUMULATION	INTEGER	Release Request Transmitted.	ALCAPMSGPERF. RELEASEREQTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
RESETCFMRX	ACCUMULATION	INTEGER	Reset Confirm received.	ALCAPMSGPERF. RESETCFMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

RESETCFMTX	ACCUMULATION	INTEGER	Reset Confirm transmitted.	ALCAPMSGPERF.RESETCFMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
RESETREQRX	ACCUMULATION	INTEGER	Reset Request received.	ALCAPMSGPERF.RESETREQRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
RESETREQTX	ACCUMULATION	INTEGER	Reset Request transmitted.	ALCAPMSGPERF.RESETREQTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
UNBLOCKCFMRX	ACCUMULATION	INTEGER	UnBlock Confirm received.	ALCAPMSGPERF.UNBLOCKCFMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
UNBLOCKCFMTX	ACCUMULATION	INTEGER	UnBlock Confirm transmitted.	ALCAPMSGPERF.UNBLOCKCFMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
UNBLOCKREQRX	ACCUMULATION	INTEGER	UnBlock Request received.	ALCAPMSGPERF.UNBLOCKREQRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
UNBLOCKR	ACCUMULATION	INTEGER	UnBlock	ALCAPMSGPERF.UNBLOCK	Sum	alwnctbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

EQTX	TION	GER	Request transmitted.	CKREQTX		, alwnotbh , alwnntbh, Sum
------	------	-----	----------------------	---------	--	-------------------------------

7.24.2 WSS_Node.Alcatel_Lucent.GSM.Call_Control_Performance

Call Control Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ADDDNTOANSI41EXCPTION	ACCUMULATION	INTEGER	Add DN to ANSI-41 Exception.	CALLPERF.ADDNTOANSI41EXCPTION	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
ADDDNTOGSMEXCPTION	ACCUMULATION	INTEGER	Add DN to GSM Exception.	CALLPERF.ADDNTOGSMEXCPTION	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
ATT3GMSORIGCTMCALLS	ACCUMULATION	INTEGER	Number of attempted CTM calls for 3G mobile originating traffic.	CALLPERF.ATT3GMSORIGCTMCALLS	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
ATT3GMSTERCTMCALLS	ACCUMULATION	INTEGER	Number of attempted	CALLPERF.ATT3GMSTERCTMCALLS	Sum	alwnctbh, alwnotbh,

			CTM calls for 3G mobile terminating traffic.			alwntt bh, Sum
ATTMSORIGCTMCALLS	ACCUMULATION	INTEGER	Number of attempted CTM calls for mobile originating traffic.	CALLPERF.ATTMSORIGCTMCALLS	Sum	alwnct bh, alwnot bh, alwntt bh, Sum
ATTMSTERCTMCALLS	ACCUMULATION	INTEGER	Number of attempted CTM calls for mobile terminating traffic.	CALLPERF.ATTMSTERCTMCALLS	Sum	alwnct bh, alwnot bh, alwntt bh, Sum
ATTPRBTMSTERVCAL	ACCUMULATION	INTEGER	Number of call attempt to PRBT user. Trigger point: For voice	CALLPERF.ATTPRBTMSTERVCAL	Sum	alwnct bh, alwnot bh, alwntt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			call, after MSC/G MSC send SRI , and receives SRI_ACK from HLR with SS_Code=PRBT(SS code for PRBT can be configured).		
CALLANS2GTO3GVCCAL	ACCUMULATION	INTEGER	Number of answered 2G to 3G mobile calls pegged when connect message received from the terminating MS.	CALLPERF.CALLANS2GTO3GVCCAL Sum	alwnctbh, alwnotbh, alwnntbh, Sum
CALLANS3GTO2GVCCAL	ACCUMULATION	INTEGER	Number of answered 3G	CALLPERF.CALLANS3GTO2GVCCAL Sum	alwnctbh, alwnotbh,

			to 2G mobile calls pegged when connect message received from the terminating MS.			alwntt bh, Sum
CALLANS3GTO3GVCCAL	ACCUMULATION	INTEGER	Number of answered 3G to 3G mobile voice calls pegged when connect message received from the terminating MS.	CALLPERF.CALLANS3GTO3GVCCAL	Sum	alwnct bh, alwnot bh, alwntt bh, Sum
CALLANS3GTO3GVDCAL	ACCUMULATION	INTEGER	Number of answered 3G to 3G video calls	CALLPERF.CALLANS3GTO3GVDCAL	Sum	alwnct bh, alwnot bh, alwntt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			pegged when connect message received from the terminating MS.		
CALLANS3GTOLANDVCCAL	ACCUMULATION	INTEGER	Number of answered 3G mobile to land calls pegged when ANM message received from the terminating switch.	CALLPERF.CALLANS3GTOLANDVCCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum
CALLANS3GTOLANDVDCAL	ACCUMULATION	INTEGER	Number of answered 3G mobile to land video calls pegged when ANM message received from the	CALLPERF.CALLANS3GTOLANDVDCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum

			terminating switch.		
CALLANSLANDTO3GVCCAL	ACCUMULATION	INTEGER	Number of answered land to 3G mobile calls pegged when connect message received from the terminating MS.	CALLPERF.CALLANSLANDTO3GVCCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum
CALLANSLANDTO3GVDCAL	ACCUMULATION	INTEGER	Number of answered land to 3G mobile video calls pegged when connect message received from the terminating MS.	CALLPERF.CALLANSLANDTO3GVDCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CALLANSLANDTOL ANDCAL	ACCUMU LATION	INT EGE R	Numbe r of answer ed Land to Land call pegged when ANM receive d from termina ting switch.	CALLPERF.CALLANSLAN DTOLANDCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
CALLANSMSTOMS VCCAL	ACCUMU LATION	INT EGE R	Numbe r of answer ed mobile- to- mobile calls pegged when connect messag e receive d from termina ting MS.	CALLPERF.CALLANSMST OMSVCCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
CALLANSMSTOPST NVCCAL	ACCUMU LATION	INT EGE R	Numbe r of answer ed mobile to PSTN calls pegged when ANM receive	CALLPERF.CALLANSMST OPSTNVCCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum

			d from termina ting switch.			
CALLANSRBTMST ERVCCAL	ACCUMU LATION	INT EGE R	Numbe r of call answer ed times from PRBT called user. Trigger point: . ANM. (TUP/I SUP)or .CONN ECT. (A-Itf) messag es receiv ed, and called user is PRBT user.	CALLPERF.CALLANSRBT MSTERVCCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
CALLANSRBTNTOM SVCCAL	ACCUMU LATION	INT EGE R	Numbe r of answer ed PSTN to mobile calls pegged when connect	CALLPERF.CALLANSRBTN TOMSVCCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			message received from terminating MS.		
CALLATT2GTO3GVCCAL	ACCUMULATION	INTEGER	Number of attempted 2G to 3G mobile calls pegged when setup message is sent to the terminating MS.	CALLPERF.CALLATT2GTO3GVCCAL Sum	alwnctbh, alwnotbh, alwnntbh, Sum
CALLATT3GTO2GVCCAL	ACCUMULATION	INTEGER	Number of attempted 3G to 2G mobile calls pegged when setup message is sent to the terminating MS.	CALLPERF.CALLATT3GTO2GVCCAL Sum	alwnctbh, alwnotbh, alwnntbh, Sum
CALLATT3GTO3GVCCAL	ACCUMULATION	INTEGER	Number of attempted 3G to 3G	CALLPERF.CALLATT3GTO3GVCCAL Sum	alwnctbh, alwnotbh, alwnntbh, Sum

			mobile voice calls pegged when setup message is sent to the terminating MS.			bh, Sum
CALLATT3GTO3GVDCAL	ACCUMULATION	INTEGER	Number of attempted 3G to 3G video calls pegged when setup message is sent to the terminating MS.	CALLPERF.CALLATT3GTO3GVDCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
CALLATT3GTOLANDVCCAL	ACCUMULATION	INTEGER	Number of attempted 3G mobile to land calls pegged when IAM message is sent	CALLPERF.CALLATT3GTOLANDVCCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			to the terminating switch.		
CALLATT3GTOLANDVDCAL	ACCUMULATION	INTEGER	Number of attempted 3G mobile to land video calls pegged when IAM message is sent to the terminating switch.	CALLPERF.CALLATT3GTOLANDVDCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum
CALLATTLANDTO3GVCCAL	ACCUMULATION	INTEGER	Number of attempted land to 3G mobile calls pegged when setup message is sent to the terminating MS.	CALLPERF.CALLATTLANDTO3GVCCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum
CALLATTLANDTO3GVDCAL	ACCUMULATION	INTEGER	Number of attempted LAND to 3G mobile	CALLPERF.CALLATTLANDTO3GVDCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum

			video calls pegged when setup message is sent to the terminating MS.		
CALLATTLANDTOLANDCAL	ACCUMULATION	INTEGER	Number of attempted Land-to-Land call pegged when IAM is sent to the terminating switch.	CALLPERF.CALLATTLANDTOLANDCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum
CALLATTMSTOMSVCCAL	ACCUMULATION	INTEGER	Number of attempted mobile-to-mobile calls pegged when setup message is sent to the	CALLPERF.CALLATTMSTOMSVCCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			terminating MS.			
CALLATTMSTOPSTNVCCAL	ACCUMULATION	INTEGER	Number of attempted mobile to PSTN call pegged when IAM is sent to the terminating switch. A call forward to voice mail for a busy and not reachab le sub, and intersys tem handoff will also peg this counter .	CALLPERF.CALLATTMSTOPSTNVCCAL	Sum	alwnct bh, alwnot bh, alwn tt bh, Sum
CALLATTPSTNTOMSVCCAL	ACCUMULATION	INTEGER	Number of attempted PSTN to mobile call pegged	CALLPERF.CALLATTPSTNTOMSVCCAL	Sum	alwnct bh, alwnot bh, alwn tt bh, Sum

			when setup messag e is sent to the termina ting MS.		
CALLSUCC2GTO3G VCCAL	ACCUMU LATION	INT EGE R	Numbe r success ful 2G to 3G mobile calls pegged when RAB assign ment complet e receiv ed from the termina ting MS.	CALLPERF.CALLSUCC2GT O3GVCCAL	Sum alwnct bh, alwnot bh, alwnnt bh, Sum
CALLSUCC3GTO2G VCCAL	ACCUMU LATION	INT EGE R	Numbe r of success ful 3G to 2G mobile calls pegged when assign ment complet	CALLPERF.CALLSUCC3GT O2GVCCAL	Sum alwnct bh, alwnot bh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			e receive d from the termina ting MS.		
CALLSUCC3GTO3GVCCAL	ACCUMULATION	INTEGER	Number of successful 3G to 3G mobile voice calls pegged when RAB assignment complete received from the terminating MS.	CALLPERF.CALLSUCC3GT O3GVCCAL	Sum alwnct bh, alwnot bh, alwnnt bh, Sum
CALLSUCC3GTO3GVDCAL	ACCUMULATION	INTEGER	Number of successful 3G to 3G video calls pegged when RAB assignment complete received from the	CALLPERF.CALLSUCC3GT O3GVDCAL	Sum alwnct bh, alwnot bh, alwnnt bh, Sum

			terminating MS.		
CALLSUCC3GTOLANDVCCAL	ACCUMULATION	INTEGER	Number of successful 3G mobile to land calls pegged when ACM message received from the terminating switch.	CALLPERF.CALLSUCC3GTOLANDVCCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum
CALLSUCC3GTOLANDVDCAL	ACCUMULATION	INTEGER	Number of successful 3G mobile to land video calls pegged when ACM message received from the terminating switch.	CALLPERF.CALLSUCC3GTOLANDVDCAL	Sum alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CALLSUCCLANDTO 3GVCCAL	ACCUMU LATION	INT EGE R	Numbe r of success ful land to 3G mobile calls pegged when RAB assign ment complet e receive d from the termina ting MS.	CALLPERF.CALLSUCCLAN DTO3GVCCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
CALLSUCCLANDTO 3GVDCAL	ACCUMU LATION	INT EGE R	Numbe r of success ful land to 3G mobile video calls when RAB assign ment complet e receive d from the termina ting MS.	CALLPERF.CALLSUCCLAN DTO3GVDCAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
CALLSUCCLANDTO LANDCAL	ACCUMU LATION	INT EGE R	Numbe r of success ful Land-	CALLPERF.CALLSUCCLAN DTOLANDCAL	Sum	alwnct bh, alwnot bh, alwnnt

			to-Land call pegged when ACM received from terminating switch.			bh, Sum
CALLSUCCMSTOMSVCCAL	ACCUMULATION	INTEGER	Number of successful mobile-to-mobile calls pegged when assignment complete message is received from the terminating MS.	CALLPERF.CALLSUCCMSTOMSVCCAL	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
CALLSUCCMSTOPSTNVCCAL	ACCUMULATION	INTEGER	Number of successful mobile to PSTN calls	CALLPERF.CALLSUCCMSTOPSTNVCCAL	Sum	alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			pegged when ACM received from terminating switch.		
CALLSUCCPSTNTOMSVCCAL	ACCUMULATION	INTEGER	Number of successful PSTN to mobile calls pegged when assignment complete message is received from the terminating MS.	CALLPERF.CALLSUCCPSTNTOMSVCCAL Sum	alwnctbh, alwnotbh, alwnntbh, Sum
DELDNFROMANSI41EXCPTION	ACCUMULATION	INTEGER	Delete DN from ANSI-41 Exception.	CALLPERF.DELDNFROMANSI41EXCPTION Sum	alwnctbh, alwnotbh, alwnntbh, Sum
DELDNFROMGSMEXCPTION	ACCUMULATION	INTEGER	Delete DN from GSM Exception.	CALLPERF.DELDNFROMGSMEXCPTION Sum	alwnctbh, alwnotbh, alwnntbh, Sum

INVOKECALLWAITSS	ACCUMULATION	INTEGER	Number of Call Waiting.	CALLPERF.INVOKECALLWAITSS	Sum	alwnctbh, alwnotbh, alwnntt bh, Sum
INVOKECFBSS	ACCUMULATION	INTEGER	Number of Call Forwarding Busy.	CALLPERF.INVOKECFBSS	Sum	alwnctbh, alwnotbh, alwnntt bh, Sum
INVOKECFNRCSS	ACCUMULATION	INTEGER	Number of Call Forwarding Not Reachable.	CALLPERF.INVOKECFNRCSS	Sum	alwnctbh, alwnotbh, alwnntt bh, Sum
INVOKECFNRYSS	ACCUMULATION	INTEGER	Number of Call Forwarding No Reply.	CALLPERF.INVOKECFNRYSS	Sum	alwnctbh, alwnotbh, alwnntt bh, Sum
INVOKECFUSS	ACCUMULATION	INTEGER	Number of Call Forwarding Unconditional.	CALLPERF.INVOKECFUSS	Sum	alwnctbh, alwnotbh, alwnntt bh, Sum
INVOKEECTSS	ACCUMULATION	INTEGER	Number of	CALLPERF.INVOKEECTSS	Sum	alwnctbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

		R	Explicit Call Transfers.			alwnot bh, alwnnt bh, Sum
INVOKEMULTIPARTYSS	ACCUMULATION	INTEGER	Number of Multiparty calls.	CALLPERF.INVOKEMULTIPARTYSS	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
LNPDIPTOTAL	ACCUMULATION	INTEGER	Number of LNPNP DB dips resulting in dialed number being returned (non-ported case).	CALLPERF.LNPDIPTOTAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
LNPDIPTOTAL	ACCUMULATION	INTEGER	Number of LNPNP DB dips resulting in LRN being returned.	CALLPERF.LNPDIPTOTAL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
LNPDIPTOTAL	ACCUMULATION	INTEGER	Total Number of LNPNP DB dips.	CALLPERF.LNPDIPTOTAL	Sum	alwnct bh, alwnot bh, alwnnt bh,

						Sum
LNPMISROUTE	ACCUMULATION	INTEGER	Number of instances of an IAM arriving with LRN (and FCI M-bit set to number translated), where LRN is the operator's (own) LRN, but for which the related HLR query result is unsuccessful.	CALLPERF.LNPMISROUTE	Sum	alwnct bh, alwnot bh, alwntt bh, Sum
LNPOWNLNRNUNALLOC	ACCUMULATION	INTEGER	Number of instances of an LRN being returned which	CALLPERF.LNPOWNLRNUNALLOC	Sum	alwnct bh, alwnot bh, alwntt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			is the operator's (own) LRN, but for which the related HLR query result is unsuccessful.		
LONGCALLDISCONNECT	ACCUMULATION	INTEGER	Number of calls disconnected by the long call disconnect function.	CALLPERF.LONGCALLDISCONNECT Sum	alwnctbh, alwnotbh, alwnctbh, Sum
ODBDURINGACALL	ACCUMULATION	INTEGER	Number of calls released due to Operator Determined Barring requests from HLR received during a call.	CALLPERF.ODBDURINGACALL Sum	alwnctbh, alwnotbh, alwnctbh, Sum
OREARLYCFALLO	ACCUMULATION	INTEGER	Number of calls	CALLPERF.OREARLYCFALLO Sum	alwnctbh

WED	LATION	EGE R	r of OR Early CF Allowe d.	LOWED		bh, alwnot bh, alwnnt bh, Sum
ORGMSCCLATCFALL OWED	ACCUMU LATION	INT EGE R	Numbe r of OR GMSC Late CF Allowe d.	CALLPERF.ORGMSCLATC FALLOWED	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
ORGMSCCLATCFNOT ALLOWED	ACCUMU LATION	INT EGE R	Numbe r of OR GMSC Late CF Not Allowe d.	CALLPERF.ORGMSCLATC FNOTALLOWED	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
ORGMSCCLATECFFA ILED	ACCUMU LATION	INT EGE R	Numbe r of OR GMSC Late CF Failed.	CALLPERF.ORGMSCLATE CFFAILED	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
ORINTERPLMNCAL LALLOWED	ACCUMU LATION	INT EGE R	Numbe r of Inter- PLMN Calls Allowe d.	CALLPERF.ORINTERPLMN CALLALLOWED	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
ORINTERPLMNCAL NOTALLOWED	ACCUMU LATION	INT EGE R	Numbe r of Inter- PLMN	CALLPERF.ORINTERPLMN CALLNOTALLOWED	Sum	alwnct bh, alwnot bh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Calls Not Allowe d.			alwnct bh, Sum
ORINTERROGATIO N	ACCUMU LATION	INT EGE R	Numbe r of OR Interrog ation.	CALLPERF.ORINTERROGA TION	Sum	alwnct bh, alwnot bh, alwnct bh, Sum
ORVMSCLATCFREQ UEST	ACCUMU LATION	INT EGE R	Numbe r of OR VMSC Late CF Request .	CALLPERF.ORVMSCLATC FREQUST	Sum	alwnct bh, alwnot bh, alwnct bh, Sum
ORVMSCLATECFAL LOWED	ACCUMU LATION	INT EGE R	Numbe r of OR VMSC Late CF Allowe d.	CALLPERF.ORVMSCLATE CFALLOWED	Sum	alwnct bh, alwnot bh, alwnct bh, Sum
ORVMSCLATECFFA ILED	ACCUMU LATION	INT EGE R	Numbe r of OR VMSC Late CF Failed.	CALLPERF.ORVMSCLATE CFFAILED	Sum	alwnct bh, alwnot bh, alwnct bh, Sum
ORVMSCLATECFNO TALLOWED	ACCUMU LATION	INT EGE R	Numbe r of OR VMSC Late CF Not Allowe d.	CALLPERF.ORVMSCLATE CFNOTALLOWED	Sum	alwnct bh, alwnot bh, alwnct bh, Sum
ORVMSCLATECFRE QTIMEOUT	ACCUMU LATION	INT EGE R	Numbe r of OR VMSC	CALLPERF.ORVMSCLATE CFREQTIMEOUT	Sum	alwnct bh, alwnot

			Late CF Timeout.			bh, alwnnt bh, Sum
PRBTATTEMPTS	ACCUMULATION	INTEGER	Number of outgoing IAM messages sent to PRBT server.	CALLPERF.PRBTATTEMPTS	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
PRBTSUCCESSFUL	ACCUMULATION	INTEGER	Number of incoming ACM messages received from PRBT server	CALLPERF.PRBTSUCCESSFUL	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SEVENDIGITDIALATT	ACCUMULATION	INTEGER	Number of 7-digit dialing attempts.	CALLPERF.SEVENDIGITDIALATT	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SEVENDIGITDIALSUCC	ACCUMULATION	INTEGER	Number of calls that are allowed to go through	CALLPERF.SEVENDIGITDIALSUCC	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			with user dials 7 digits.			
SUCC3GMSORIGCT MCALLS	ACCUMU LATION	INT EGE R	Numbe r of success ful CTM calls for 3G mobile originat ing traffic.	CALLPERF.SUCC3GMSORI GCTMCALLS	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SUCC3GMSTERCTM CALLS	ACCUMU LATION	INT EGE R	Numbe r of success ful CTM calls for 3G mobile termina ting traffic.	CALLPERF.SUCC3GMSTER CTMCALLS	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SUCCMSORIGCTMC ALLS	ACCUMU LATION	INT EGE R	Numbe r of success ful CTM calls for mobile originat ing traffic.	CALLPERF.SUCCMSORIGC TMCALLS	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SUCCMSTERCTMC ALLS	ACCUMU LATION	INT EGE R	Numbe r of success ful CTM calls	CALLPERF.SUCCMSTERCT MCALLS	Sum	alwnct bh, alwnot bh, alwnnt bh,

			for mobile terminating traffic.			Sum
--	--	--	---------------------------------	--	--	-----

7.24.3 WSS_Node.Alcatel_Lucent.GSM.Call_Control2_Performance

Call Control 2 Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ABNORMAFALERTCAMVCCAL	ACCUMULATION	INTEGER	Number of No Answer Clear Forward for CAMEL Calls: Number of no answer clear forwards during alerting on called party for CAMEL calls. During CAMEL call setup, after alerting on called party and before answer, 'Clear Request/Clear Forward/REL' messages are received from calling party, and calling or called party is CAMEL subscriber. When both calling and called parties are	CALLPERF2.ABNORMAFALERTCAMVCCAL	Sum	alwnc tbh, alwno tbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			CAMEL subscribers, this counter will only be measured one time.			
ABNORMBFALERTCAMVCCAL	ACCUMULATION	INTEGER	Number of Clear Forward Before Alerting on Called Party for CAMEL calls: Number of clear forwards before alerting for CAMEL calls. During call setup, 'Clear Request/ Clear Forward/ REL' messages are received from calling party before called party alert, and calling or called party is CAMEL subscriber. When both calling and called parties are CAMEL subscriber, this counter will only be measured one time.	CALLPERF2.ABNORMBFALERTCAMVCCAL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
ANSCAMORIGVCCAL	ACCUMULATION	INTEGER	Number of Answered CAMEL Originating Calls: Number of answers when calling party is CAMEL subscriber. Own SSF receives 'ANC/ANM/CON' messages, and calling party is	CALLPERF2.ANSCAMORIGVCCAL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum

			CAMEL subscribers.			
ANSCAMTERVCCAL	ACCUMULATION	INTEGER	Number of Answered CAMEL Terminating Calls: Number of answers when called party is CAMEL subscriber. Own SSF receives 'ANC/ANM/CON' messages, and called party is CAMEL subscriber.	CALLPERF2.ANSCAMTERVCCAL	Sum	alwnc tbh, alwno tbh, alwnttbh, Sum
ANSCAMVCCAL	ACCUMULATION	INTEGER	Number of Answered CAMEL Calls: Number of answers for CAMEL calls (when both calling and called parties are CAMEL subscribers, only 1 answer will be measured). Own SSF receives 'ANC/ANM/CON' messages, and calling or called subscriber is CAMEL subscriber. (answeredCamelCalls = answeredCamelO	CALLPERF2.ANSCAMVCCAL	Sum	alwnc tbh, alwno tbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			iginatingCalls + answeredCamelTerminatingCalls - Number of answers for CAMEL-to-CAMEL calls).			
ANSMSORIGDATA CALL	ACCUM ULATION	INT EGER	Number of "connect"(for data) received by MSS sent from RNC.	CALLPERF2.ANSMS ORIGDATA CALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ANSMSORIGVCC ALG	ACCUM ULATION	INT EGER	Number of "connect" received by MSS sent from RNC.	CALLPERF2.ANSMS ORIGVCC ALG	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ANSMSORIGVOI CECALL	ACCUM ULATION	INT EGER	Number of "Connect"(for voice) received by MSS sent from RNC.	CALLPERF2.ANSMS ORIGVOI CECALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTCAMORIGVCC AL	ACCUM ULATION	INT EGER	Number of Call Attempts for CAMEL Originating Calls: Number of all attempts when calling party is CAMEL subscriber. Own SSF receives 'SETUP/IAM/IAI' messages from BSC/GMSC/other MSC/PSTN (MO), and calling	CALLPERF2.ATTCA MORIGVCC AL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum

			party is CAMEL subscriber.			
ATTCAMTERVCCAL	ACCUMULATION	INTER	Number of Call Attempts for CAMEL Terminating Calls: Number of call attempts when called party is CAMEL subscriber. Own SSF receives 'SETUP/IAM/IAI' messages from BSC/ GMSC/ otherMSC/PSTN (MO), and called party is CAMEL subscriber.	CALLPERF2.ATTCAMTERVCCAL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
ATTCAMVCCAL	ACCUMULATION	INTER	Number of Seizured CAMEL Calls: Number of seizures for CAMEL calls (when both calling and called parties are CAMEL subscribers, only 1 seizure will be measured). Own SSF sends 'SETUP/IAI/IAM' messages to BSC/ GMSC/ otherMSC/ PSTN, and calling or called party is CAMEL subscriber.	CALLPERF2.ATTCAMVCCAL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			(seizuredCamelCalls = seizedCamelOriginatingCalls + seizedCamelTerminatingCalls - Number of seizures for CAMEL-to-CAMEL calls).		
ATTCODECNEG	ACCUMULATION	INTEGER	Number of "setup" received by MSS from calling party which contain the codec information.	CALLPERF2.ATTCODECNEG	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
ATTMSORIGDATAALL	ACCUMULATION	INTEGER	Number of "setup"(for data) received by MSS sent from RNC.	CALLPERF2.ATTMSORIGDATAALL	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
ATTMSORIGVOICEALL	ACCUMULATION	INTEGER	Number of "setup"(for voice) received by MSS sent from RNC.	CALLPERF2.ATTMSORIGVOICEALL	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
CALLANSCAMCAMVCCAL	ACCUMULATION	INTEGER	Number of Answers for CAMEL to CAMEL Calls: Number of Answers for CAMEL to CAMEL calls received by SSF in the measurement interval. Own	CALLPERF2.CALLANSCAMCAMVCCAL	Sum alwnc tbh, alwno tbh, alwntt bh, Sum

			SSF receives 'ANC/ANM/CON' from BSC/ GMSC/ otherMSC/ PSTN, and both calling and called parties are CAMEL subscribers.		
CALLATTCAMCAMVCCAL	ACCUMULATION	INTEGER	Number of CAMEL to CAMEL Calls: Number of CAMEL to CAMEL calls received by SSF in the measurement interval. Own SSF receives 'SETUP/IAM/IAI' from BSC/ GMSC/ otherMSC/ PSTN, and both calling and called parties are CAMEL subscribers.	CALLPERF2.CALLATTCAMCAMVCCAL	Sum alwnc tbh, alwno tbh, alwnnt bh, Sum
CALLSUCCLANDTOMSVCCALG	ACCUMULATION	INTEGER	The connection number of incoming terminating call. I.e when call is incoming terminating call, sum the number of "ACM" messages which are sent to	CALLPERF2.CALLSUCCLANDTOMSVCCALG	Sum alwnc tbh, alwno tbh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			originating exchange.(GSM)		
CALLSUCCMSTOMSVCCALG	ACCUMULATION	INTEGER	Then call connection number of intra-MSC call, I.e when call is Intra-MSC call, sum the number of sending "ALERTING" messages to calling subscriber. (GSM).	CALLPERF2.CALLSUCCMSTOMSVCCALG	Sum alwnc tbh, alwno tbh, alwnttbh, Sum
CDASSFAILMSORIGDATA CALL	ACCUMULATION	INTEGER	Number of "RAB assignment response" received from RNC which contains RAB failed to be assigned(for data).	CALLPERF2.CDASSFAILMSORIGDATA CALL	Sum alwnc tbh, alwno tbh, alwnttbh, Sum
CDASSFAILMSORIGVOICE CALL	ACCUMULATION	INTEGER	Number of "RAB assignment response" received from RNC which contains RAB failed to be assigned(for voice)	CALLPERF2.CDASSFAILMSORIGVOICE CALL	Sum alwnc tbh, alwno tbh, alwnttbh, Sum
CDBSYCAMVCCAL	ACCUMULATION	INTEGER	Number of Called Busy for CAMEL Calls: Number of called party busy for CAMEL calls in the measurement interval.	CALLPERF2.CDBSYCAMVCCAL	Sum alwnc tbh, alwno tbh, alwnttbh, Sum
CDBSYMSORIGDATA CALL	ACCUMULATION	INTEGER	Number of "Disconnect" received and the	CALLPERF2.CDBSYMSORIGDATA CALL	Sum alwnc tbh, alwno

			cause is 'user busy'(for data).			tbh, alwnttbh, Sum
CDBSYMSORIGVCCALG	ACCUMULATION	INTEGER	Number of "Diconnect" received and the cause is 'user busy'(for voice) (GSM).	CALLPERF2.CDBSYMSORIGVCCALG	Sum	alwnc tbh, alwno tbh, alwnttbh, Sum
CDBSYMSORIGVOICECALL	ACCUMULATION	INTEGER	Number of "Diconnect" received and the cause is 'user busy'(for voice).	CALLPERF2.CDBSYMSORIGVOICECALL	Sum	alwnc tbh, alwno tbh, alwnttbh, Sum
CDDETACHMSORIGDATACALL	ACCUMULATION	INTEGER	MSS inquire HLR and know called party is power off; if there is no HLR, MSS/VLR think the called party is power off(for data).	CALLPERF2.CDDETACHMSORIGDATACALL	Sum	alwnc tbh, alwno tbh, alwnttbh, Sum
CDDETACHMSORIGVOICECALL	ACCUMULATION	INTEGER	MSS inquire HLR and know called party is power off; if there is no HLR, MSS/VLR think the called party is power off(for voice).	CALLPERF2.CDDETACHMSORIGVOICECALL	Sum	alwnc tbh, alwno tbh, alwnttbh, Sum
CDNOANSMSORIGDATACALL	ACCUMULATION	INTEGER	Number of "Disconnect" sent to called party with cause	CALLPERF2.CDNOANSMSORIGDATACALL	Sum	alwnc tbh, alwno tbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			"recovery on timer expiry" or "normal, unspecified"after receiving the "Alerting" message and timer T301 expires(for data).			alwntt bh, Sum
CDNOANSMSORIGVOICECALL	ACCUMULATION	INTEGER	Number of "Disconnect" sent to called party with cause "recovery on timer expiry" or "normal, unspecified"after receiving the "Alerting" message and timer T301 expires(for voice).	CALLPERF2.CDNOANSMSORIGVOICECALL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
CLERLRLSMSORIGDATACALL	ACCUMULATION	INTEGER	Number of "Disconnect" received from calling party before send "Alerting" to it and the cause for "Disconnect" should be "Normal call clearing"(for data).	CALLPERF2.CLERLRLSMSORIGDATACALL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
CLERLRLSMSORIGVOICECALL	ACCUMULATION	INTEGER	Number of "Disconnect" received from calling party before send "Alerting" to it and the cause for "Disconnect" should be "Normal call	CALLPERF2.CLERLRLSMSORIGVOICECALL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum

			clearing"(for voice).			
INCNRMSORIGDATA TACALL	ACCUM ULATION	INT EGER	Number of "CC Disconnect" sent by CN with cause "Invalid number format"(incomplete number))(for data).	CALLPERF2.INCNRMSORIGDATA TACALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
INCNRMSORIGVOI CECALL	ACCUM ULATION	INT EGER	Number of "CC Disconnect" sent by CN with cause "Invalid number format"(incomplete number))(for voice).	CALLPERF2.INCNRMSORIGVOI CECALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
INCOMINGCAMCAL LATT	ACCUM ULATION	INT EGER	Number of CAMEL Calls incoming to the SSF: Number of CAMEL calls received by SSF in the measurement interval. Own SSF receives 'SETUP/IAM/IAI' message from BSC/GMSC/other MSC/ISDN/PSTN, and the result of number analysis indicate that calling or called party is CAMEL subscriber.	CALLPERF2.INCOMI NGCAMCALLATT	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
MSORIGCPSENT	ACCUM	INT	Number of "Call	CALLPERF2.MSORI	Sum	alwnc

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	ULATION	INTEGER	proceeding" sent by MSS.	GCPSSENT		tbh, alwno tbh, alwntt bh, Sum
MSORIGCPSENTVC CALG	ACCUM ULATION	INTEGER	Number of "Call proceeding" sent by MSS(GSM).	CALLPERF2.MSORI GCPSSENTVCCALG	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
MSTERCCRECVDG	ACCUM ULATION	INTEGER	Number of "Call confirmed" received by MSS from BSC(GSM).	CALLPERF2.MSTER CCRECVDG	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
MSTERCCRECVD	ACCUM ULATION	INTEGER	Number of "Call confirmed" received by MSS from RNC.	CALLPERF2.MSTER CCRECVD	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
NOANSCAMVCCAL	ACCUM ULATION	INTEGER	Number of No Answer Timeout for CAMEL calls: Number of no answer timeout for CAMEL calls in a measurement interval.	CALLPERF2.NOANS CAMVCCAL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
NWBSYMSORIGDATA CALL	ACCUM ULATION	INTEGER	Number of "CC Disconnect" sent by CN with cause XX: "NW Busy" (for data).	CALLPERF2.NWBSY MSORIGDATAACALL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum

NWBSYMSORIGVOICECALL	ACCUMULATION	INTEGER	Number of "CC Disconnect" sent by CN with cause XX:"NW Busy"(for voice).	CALLPERF2.NWBSYMSORIGVOICECALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
OUTGOINGCAMCALLATT	ACCUMULATION	INTEGER	Number of CAMEL calls going out of the SSF: Number of CAMEL calls submitted to SCF by SSF in the measurement interval. Own SSF sends 'InitialDP' message to SCF (DP2+DP12), and calling or called party is CAMEL subscriber.	CALLPERF2.OUTGOINGCAMCALLATT	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SEIZCAMORIGVCCAL	ACCUMULATION	INTEGER	Number of Seized CAMEL Originating Calls: Number of seizures when calling party is CAMEL subscriber. Own SSF sends 'SETUP/IAI/IAM' messages to BSC (intraMSC calls) / GMSC/otherMSC / PSTN (MT), and calling party is CAMEL subscriber.	CALLPERF2.SEIZCAMORIGVCCAL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

SEIZCAMTERVCCAL	ACCUMULATION	INTER	Number of Seizured CAMEL Terminating Calls: Number of seizures when called party is CAMEL subscriber. Own SSF sends 'SETUP/IAI/IAM' messages to BSC (intraMSC calls) / GMSC/otherMSC / PSTN (MT), and called party is CAMEL subscriber.	CALLPERF2.SEIZCAMTERVCCAL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SUBSCREASONCAMCALL	ACCUMULATION	INTER	Number of unsuccessful CAMEL calls due to subscriber reason: Number of unsuccessful CAMEL calls due to subscriber reason in the measurement interval, e.g., illegal user information input, time out of the user information input, error user information input, insufficient user account. (During CAMEL call setup, receive 'ReleaseCall' message from SCF, with the subscriber reason is unsuccessful call.)	CALLPERF2.SUBSCREASONCAMCALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCCAMORIGVCC	ACCUM	INT	Number of	CALLPERF2.SUCCC	Sum	alwnc

AL	ULATIO N	EGE R	Connected CAMEL Originating Calls: Number of throughconnects when calling party is CAMEL subscriber. Own SSF receives 'Alerting/ACM' messages from BSC (intraMSC calls)/GMSC/ otherMSC/ PSTN (MT), and calling party is CAMEL subscriber.	AMORIGVCCAL		tbh, alwno tbh, alwntt bh, Sum
SUCCCAMTERVCCAL	ACCUM ULATIO N	INT EGE R	Number of Connected CAMEL Terminating Calls: Number of throughconnects when called party is CAMEL subscriber. Own SSF receives 'Alerting/ACM' messages from BSC (intraMSC calls)/GMSC/ otherMSC/ PSTN (MT), and called party is CAMEL subscriber.	CALLPERF2.SUCCCAMTERVCCAL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
SUCCCAMVCCAL	ACCUM ULATIO N	INT EGE R	Number of Connected CAMEL Calls: Number of throughconnects	CALLPERF2.SUCCCAMVCCAL	Sum	alwnc tbh, alwno tbh, alwntt

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			for CAMEL calls (when both calling and called parties are CAMEL subscribers, only 1 connect will be measured). Own SSF receives 'Alerting/ACM' messages from BSC/ GMSC/ otherMSC/ PSTN, and calling or called party is CAMEL subscriber. (connectedCamelCalls = connectedCamelOriginatingCalls + connectedCamelTerminatingCalls - Number of connects for CAMEL-to-CAMEL calls).			bh, Sum
SUCCCODECNEGACK	ACCUMULATION	INTEGER	Number of "call confirmed" which contains codec information and confirm the success of codec negotiation received by MSS from called MS.	CALLPERF2.SUCCCODECNEGACK	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCMSORIGDATA CALL	ACCUMULATION	INTEGER	Number of "Alerting"(for data) received by MSS sent from RNC.	CALLPERF2.SUCCMSORIGDATA CALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCMSORIGVOICE	ACCUM	INT	Number of	CALLPERF2.SUCCM	Sum	alwnc

CALL	ULATION	EGER	"Alerting"(for voice) received by MSS sent from RNC.	SORIGVOICECALL		tbh, alwno tbh, alwnnt bh, Sum
SVCLIMMSORIGDATA TACALL	ACCUM ULATION	INTE GER	Number of "CC Disconnect" sent by CN with cause"58: Bearer capability not presently available or 63: service or option not available, unspecified)(for data).	CALLPERF2.SVCLIM MSORIGDATA CALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SVCLIMMSORIGVOI CECALL	ACCUM ULATION	INTE GER	Number of "CC Disconnect" sent by CN with cause"58: Bearer capability not presently available or 63: service or option not available, unspecified)(for voice)	CALLPERF2.SVCLIM MSORIGVOICE CALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SYSFAILCAMCALL	ACCUM ULATION	INTE GER	Number of unsuccessful CAMEL calls due to system reason: Number of unsuccessful CAMEL calls due to system reason in a measurement interval, e.g., operation time	CALLPERF2.SYSFAI LCAMCALL	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			out, discarded by SCF. (During CAMEL call set up, time out of the service logic operation, or 'ReleaseCall' message for system reason received from SSF).			
TOTALCALLANSTIMECAMORIGVCCAL	ERLANG	FLOAT	Originating CAMEL Traffic: Originating CAMEL conversation occupancy traffic (Erlang) in the measurement interval (calling party is CAMEL subscriber). Accumulate the time interval from 'ANC/ANM/CON' to corresponding call release, with calling party is CAMEL subscriber.	CALLPERF2.TOTALCALLANSTIMECAMORIGVCCAL	Average	alwnc tbh, alwno tbh, alwnntb bh, Average, Maximum, Minimum, Sum
TOTALCALLANSTIMECAMTERVCCAL	ERLANG	FLOAT	Terminating CAMEL Traffic: Terminating CAMEL conversation occupancy traffic (Erlang) in the measurement interval (called party is CAMEL subscriber). Accumulate the time interval from 'ANC/ANM/CON' to corresponding	CALLPERF2.TOTALCALLANSTIMECAMTERVCCAL	Average	alwnc tbh, alwno tbh, alwnntb bh, Average, Maximum, Minimum, Sum

			call release, with called party is CAMEL subscriber.			
TOTALCALLANSTIMECAMVCCAL	ERLANG	FLOAT	Conversation Occupancy Traffic (Erlang) for CAMEL calls: Conversation Occupancy Traffic (Erlang) for CAMEL calls. Accumulate the time interval from 'ANC/ ANM/ CON' to corresponding release, and calling or called party is CAMEL subscriber.	CALLPERF2.TOTALCALLANSTIMECAMVCCAL	Average	alwnc tbh, alwno tbh, alwn ttbh, Average, Maximum, Minimum, Sum
TOTALCALLSEIZTIMECAMVCCAL	ERLANG	FLOAT	Seizure Occupancy Traffic (Erlang) for CAMEL calls: Seizure Occupancy Traffic (Erlang) for CAMEL calls. Accumulate the time interval from 'SETUP/IAI/IAM' messages to corresponding call release, and calling or called party is CAMEL subscriber.	CALLPERF2.TOTALCALLSEIZTIMECAMVCCAL	Average	alwnc tbh, alwno tbh, alwn ttbh, Average, Maximum, Minimum, Sum
TOTALCALLSUCCTI	ERLANG	FLO	Connection	CALLPERF2.TOTAL	Aver	alwnc

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

MECAMVCCAL		AT	Occupancy Traffic (Erlang) for CAMEL calls:Connection Occupancy Traffic (Erlang) for CAMEL calls. Accumulate the time interval from 'Alerting/ACM' messages to corresponding call release, and calling or called party is CAMEL subscriber.	CALLSUCCTIMECAMVCCAL	age	tbh, alwno tbh, alwntt bh, Average, Maximum, Minimum, Sum
UNASSNBRMSORIG DATACALL	ACCUM ULATION	INTER	Number of "CC Disconnect" sent by CN with cause "Unassigned(unallocated) number"(for data).	CALLPERF2.UNASS NBRMSORIGDATA CALL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
UNASSNBRMSORIG VOICECALL	ACCUM ULATION	INTER	Number of "CC Disconnect" sent by CN with cause "Unassigned(unallocated) number"(for voice).	CALLPERF2.UNASS NBRMSORIGVOIC E CALL	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum

7.24.4 WSS_Node.Alcatel_Lucent.GSM.Call_Total_Time_Performance

Call Total Time Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
TOTALCALLTIME LANDTOLAND	ACCUM ULATION	INTER	Used for mean hold	CALLTOTALTIMEPERF.TOTALCALLTIME LANDTOLAND	Sum	alwnc tbh, alwno tbh,

			time for Land to Land call.			alwnct bh, Sum
TOTALCALLTIME LANDTOMOBILE	ACCUM ULATION	INT EGE R	Used for mean hold time for Land to 2G/3 G Mobi le call.	CALLTOTALTIMEPERF.TOTALC ALLTIME LANDTOMOBILE	Sum	alwnct bh, alwno tbh, alwnct bh, Sum
TOTALCALLTIME MOBILETOLAND	ACCUM ULATION	INT EGE R	Used for mean hold time for 2G/3 G Mobi le to Land call.	CALLTOTALTIMEPERF.TOTALC ALLTIME MOBILETOLAND	Sum	alwnct bh, alwno tbh, alwnct bh, Sum
TOTALCALLTIME MOBILETOMOBILE	ACCUM ULATION	INT EGE R	Used for mean hold time for 2G Mobi	CALLTOTALTIMEPERF.TOTALC ALLTIME MOBILETOMOBILE	Sum	alwnct bh, alwno tbh, alwnct bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			le to 2G Mobi le call, 2G Mobi le to 3G Mobi le call, 3G Mobi le to 2G Mobi le call,a nd 3G to 3G voice /vide o call.		
TOTALVCCALLTIME3GTO3G	ACCUMULATION	INTEGER	Used for mean hold time for 3G Mobi le- to-3G Mobi le voice call.	CALLTOTALTIMEPERF.TOTAL VCCALLTIME3GTO3G	Sum alwnct bh, alwno tbh, alwnnt bh, Sum
TOTALVCCALLTIME3GTOLAND	ACCUMULATION	INTEGER	Used for mean hold time	CALLTOTALTIMEPERF.TOTAL VCCALLTIME3GTOLAND	Sum alwnct bh, alwno tbh, alwnnt

			for 3G Mobi le-to- Land voice call.		bh, Sum
TOTALVCCALLTIME LANDTO3G	ACCUM ULATION	INT EGER	Used for mean hold time for Land- to-3G Mobi le voice call.	CALLTOTALTIMEPERF.TOTAL VCCALLTIMELANDTO3G	Sum alwnct bh, alwno tbh, alwnnt bh, Sum
TOTALVDCALLTI ME3GTO3G	ACCUM ULATION	INT EGER	Used for mean hold time for 3G Mobi le- to-3G Mobi le video call.	CALLTOTALTIMEPERF.TOTAL VDCALLTIME3GTO3G	Sum alwnct bh, alwno tbh, alwnnt bh, Sum
TOTALVDCALLTI ME3GTOLAND	ACCUM ULATION	INT EGER	Used for mean hold time for	CALLTOTALTIMEPERF.TOTAL VDCALLTIME3GTOLAND	Sum alwnct bh, alwno tbh, alwnnt bh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			3G Mobi le-to- Land video call.			Sum
TOTALVDCALLTIMELANDTO3G	ACCUMULATION	INTEGER	Used for mean hold time for Land- to-3G Mobi le video call.	CALLTOTALTIMEPERF.TOTAL VDCALLTIMELANDTO3G	Sum	alwnctbh, alwnotbh, alwnctbh, Sum

7.24.5 WSS_Node.Alcatel_Lucent.GSM.CAP_Performance

CAP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ACTVTSTINVRX	ACCUMULATION	INTEGER	Number of Activity Test: Invoke messages received.	CAPMSGPERF.ACTVTSTINVRX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
ACTVTSTPH2INVRX	ACCUMULATION	INTEGER	Number of Activity Test Ph2: Invoke messages received.	CAPMSGPERF.ACTVTSTPH2INVRX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum

ACTVTSTPH2RRTX	ACCUMULATION	INTEGER	Number of Activity Test Ph2: Return Result messages transmitted.	CAPMSGPERF.ACTVTSTPH2RRTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ACTVTSTRRTX	ACCUMULATION	INTEGER	Number of Activity Test: Return Result messages transmitted.	CAPMSGPERF.ACTVTSTRRTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
APPCHRGINVRX	ACCUMULATION	INTEGER	Number of Apply Charging : Invoke messages received.	CAPMSGPERF.APPCHRGINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
APPCHRGPH2INVRX	ACCUMULATION	INTEGER	Number of Apply Charging Ph2: Invoke messages received.	CAPMSGPERF.APPCHRGPH2INVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
APPCHRGPH2	ACCUMULATION	INTEGER	Number of Apply	CAPMSGPERF.APPCHRGPH2	Sum	alwnctbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Charging Ph2: Invoke message s received.			alwnotb h, alwnttb h, Sum
APPCHRGPH2RE TX	ACCUMUL ATION	INTE GER	Number of Apply Charging Ph2: Return Error message s transmitt ed.	CAPMSGPERF.APPCHRGPH2RETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
APPCHRGRET X	ACCUMUL ATION	INTE GER	Number of Apply Charging : Return Error message s transmitt ed.	CAPMSGPERF.APPCHRGRET X	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
APPCHGRPTIN VTX	ACCUMUL ATION	INTE GER	Number of Apply Charging Report: Invoke message s transmitt ed.	CAPMSGPERF.APPCHGRPTINVTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
APPCHGRPTPH 2INVTX	ACCUMUL ATION	INTE GER	Number of Apply Charging report Ph2: Invoke message s transmitt	CAPMSGPERF.APPCHGRPTPH2INVTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

			ed.			
APPCHGRPTPH2RERX	ACCUMULATION	INTEGER	Number of Apply Charging Report Ph2: Return Error messages received.	CAPMSGPERF.APPCHGRPTPH2RERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
APPCHGRPTRETX	ACCUMULATION	INTEGER	Number of Apply Charging Report: Return Error messages received.	CAPMSGPERF.APPCHGRPTRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CALLGAPINVRX	ACCUMULATION	INTEGER	Number of Call Gap: Invoke messages received.	CAPMSGPERF.CALLGAPINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CALLGAPPH2INVTX	ACCUMULATION	INTEGER	Number of Call Gap Ph2: Invoke messages transmitted.	CAPMSGPERF.CALLGAPPH2INVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CALLINFOREQINVRX	ACCUMULATION	INTEGER	Number of Call Informat	CAPMSGPERF.CALLINFOREQINVRX	Sum	alwnctbh, alwnotbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ion Request: Invoke message s received.			h, alwnttb h, Sum
CALLINFOREQPH2INVRX	ACCUMULATION	INTEGER	Number of Call Informat ion Request Ph2: Invoke message s received.	CAPMSGPERF.CALLINFOREQPH2INVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CALLINFOREQPH2RERX	ACCUMULATION	INTEGER	Number of Call Informat ion Request Ph2: Return Error message s received.	CAPMSGPERF.CALLINFOREQPH2RERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CALLINFOREQRET	ACCUMULATION	INTEGER	Number of Call Informat ion Request: Return Error message s transmitt ed.	CAPMSGPERF.CALLINFOREQRET	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CALLINFOREPORT	ACCUMULATION	INTEGER	Number of Call Informat ion Report:	CAPMSGPERF.CALLINFOREPORT	Sum	alwnctb h, alwnotb h, alwnttb

			Invoke message s transmitt ed.			h, Sum
CALLINFORPTP H2INVTX	ACCUMUL ATION	INTE GER	Number of Call Informat ion Report Ph2: Invoke message s transmitt ed.	CAPMSGPERF.CALLINFO RPTPH2INVTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CNCLINVRX	ACCUMUL ATION	INTE GER	Number of Cancel: Invoke message s received.	CAPMSGPERF.CNCLINVR X	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CNCLPH2INVRX	ACCUMUL ATION	INTE GER	Number of Cancel Ph2: Invoke message s received.	CAPMSGPERF.CNCLPH2I NVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CNCLPH2RETX	ACCUMUL ATION	INTE GER	Number of Cancel Ph2: Return Error message	CAPMSGPERF.CNCLPH2R ETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			s transmitt ed.			
CNCLRETX	ACCUMUL ATION	INTE GER	Number of Cancel: Return Error message s transmitt ed.	CAPMSGPERF.CNCLRETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CONINVRX	ACCUMUL ATION	INTE GER	Number of Connect: Invoke message s received.	CAPMSGPERF.CONINVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CONPH2INVRX	ACCUMUL ATION	INTE GER	Number of Connect Ph2: Invoke message s received.	CAPMSGPERF.CONPH2IN VRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CONPH2	ACCUMUL ATION	INTE GER	Number of Connect Ph2	CAPMSGPERF.CONPH2	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CONPH2RETX	ACCUMUL ATION	INTE GER	Number of Connect Ph2: Return Error message s transmitt ed.	CAPMSGPERF.CONPH2RE TX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

CONRETX	ACCUMULATION	INTEGER	Number of Connect: Return Error messages transmitted.	CAPMSGPERF.CONRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONSMSINVRX	ACCUMULATION	INTEGER	Number of Connect SMS: Invoke messages received.	CAPMSGPERF.CONSMSINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONSMSRETX	ACCUMULATION	INTEGER	Number of Connect SMS: Return Error messages transmitted.	CAPMSGPERF.CONSMSRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTINVRX	ACCUMULATION	INTEGER	Number of Continue : Invoke messages received.	CAPMSGPERF.CONTINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTORESINVRX	ACCUMULATION	INTEGER	Number of Connect To	CAPMSGPERF.CONTORESINVRX	Sum	alwnctbh, alwnotbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Resource : Invoke messages received.			alwnttbh, Sum
CONTOPH2INVRX	ACCUMULATION	INTEGER	Number of Connect to Resource Ph2: Invoke messages received.	CAPMSGPERF.CONTOPH2INVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTOPH2RET	ACCUMULATION	INTEGER	Number of Connect to Resource Ph2: Return Error messages transmitted.	CAPMSGPERF.CONTOPH2RET	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTOPH2RET	ACCUMULATION	INTEGER	Number of Connect to Resource : Return Error messages transmitted.	CAPMSGPERF.CONTOPH2RET	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTOPH2INVRX	ACCUMULATION	INTEGER	Number of Continue Ph2: Invoke	CAPMSGPERF.CONTOPH2INVRX	Sum	alwnctbh, alwnotbh, alwnttbh

			messages received.			h, Sum
CONTSMSINVRX	ACCUMULATION	INTEGER	Number of Continue SMS: Invoke messages received.	CAPMSGPERF.CONTSMSINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTWITHARGINVRX	ACCUMULATION	INTEGER	Number of Continue with Argument: Invoke messages received.	CAPMSGPERF.CONTWITHARGINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTWITHARGRETX	ACCUMULATION	INTEGER	Number of Continue with Argument: Return Error messages transmitted.	CAPMSGPERF.CONTWITHARGRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
DISCFWDCONINVRX	ACCUMULATION	INTEGER	Number of Disconnect Forward	CAPMSGPERF.DISCFWDCONINVRX	Sum	alwnctbh, alwnotbh, alwnttbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Connecti on: Invoke message s received.			h, Sum
DISCFWDCONP H2INVRX	ACCUMUL ATION	INTE GER	Number of Disconn ect Forward Connecti on Ph2: Invoke message s received.	CAPMSGPERF.DISCFWDC ONPH2INVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
DISCFWDCONP H2	ACCUMUL ATION	INTE GER	Number of Disconn ect Forward Connecti on Ph2.	CAPMSGPERF.DISCFWDC ONPH2	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
DISCFWDCONP H2RETX	ACCUMUL ATION	INTE GER	Number of Disconn ect Forward Connecti on Ph2: Return Error message s transmitt ed.	CAPMSGPERF.DISCFWDC ONPH2RETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
DISCFWDCONR ETX	ACCUMUL ATION	INTE GER	Number of Disconn ect Forward Connecti	CAPMSGPERF.DISCFWDC ONRETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

			on: Return Error message s transmitt ed.			
ESTTMPCONINVRX	ACCUMULATION	INTEGER	Number of Establish Tempora ry Connecti on (ETC): Invoke message s received.	CAPMSGPERF.ESTTMPCONINVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
ESTTMPCONPH2INVRX	ACCUMULATION	INTEGER	Number of Establish Tempora ry Connecti on Ph2: Invoke message s received.	CAPMSGPERF.ESTTMPCONPH2INVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
ESTTMPCONPH2RETX	ACCUMULATION	INTEGER	Number of Establish Tempora ry Connecti on Ph2: Return Error	CAPMSGPERF.ESTTMPCONPH2RETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			message s transmitt ed.			
ESTTMPCONRE TX	ACCUMUL ATION	INTE GER	Number of Establish Tempora ry Connecti on (ETC): Return Error message s transmitt ed.	CAPMSGPERF.ESTTMPCO NRETXX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
EVTRPTBCSMIN VTX	ACCUMUL ATION	INTE GER	Number of Event Report BCSM: Invoke message s transmitt ed.	CAPMSGPERF.EVTRPTBC SMINVTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
EVTRPTBCSMP H2INVTX	ACCUMUL ATION	INTE GER	Number of Event Report BCSM Ph2: Invoke message s transmitt ed.	CAPMSGPERF.EVTRPTBC SMPH2INVTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
EVTRPTSMSINV TX	ACCUMUL ATION	INTE GER	Number of Event Report SMS: Invoke message	CAPMSGPERF.EVTRPTSM SINVTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

			s transmitt ed.			
FURCHRGINFOI NVRX	ACCUMUL ATION	INTE GER	Number of Furnish Charging Informat ion: Invoke message s received.	CAPMSGPERF.FURCHRG INFOINVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
FURCHRGINFOP H2INVRX	ACCUMUL ATION	INTE GER	Number of Furnish Charging Informat ion Ph2: Invoke message s received.	CAPMSGPERF.FURCHRG INFOPH2INVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
FURCHRGINFOP H2RETX	ACCUMUL ATION	INTE GER	Number of Furnish Charging Informat ion Ph2: Return Error message s transmitt ed.	CAPMSGPERF.FURCHRG INFOPH2RETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
FURCHRGINFOS MSINVRX	ACCUMUL ATION	INTE GER	Number of Furnish	CAPMSGPERF.FURCHRG INFOSMSINVRX	Sum	alwnctb h, alwnotb

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Charging Informat ion SMS: Invoke message s received.			h, alwnttb h, Sum
FURCHRGINFOS MSRETX	ACCUMUL ATION	INTE GER	Number of Furnish Charging Informat ion SMS: Return Error message s transmitt ed.	CAPMSGPERF.FURCHRG INFOSMSRETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INITDPINVTX	ACCUMUL ATION	INTE GER	Number of Initial Detectio n Point (IDP): Invoke message s transmitt ed.	CAPMSGPERF.INITDPINV TX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INITDPPH2INVT X	ACCUMUL ATION	INTE GER	Number of Initial Detectio n Point (IDP) Phase-2: Invoke message s transmitt ed.	CAPMSGPERF.INITDPPH2 INVTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INITDPPH2	ACCUMUL	INTE	Number	CAPMSGPERF.INITDPPH2	Sum	alwnctb

	ATION	GER	of Initial Detectio n Point (IDP) Phase-2.			h, alwnotb h, alwnttb h, Sum
INITDPPH2RERX	ACCUMUL ATION	INTE GER	Number of Initial DP Ph2: Return Error message s received.	CAPMSGPERF.INITDPPH2 RERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INITDPRERX	ACCUMUL ATION	INTE GER	Number of Initial DP (IDP): Return Error message s received.	CAPMSGPERF.INITDPRER X	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INITDPSMSINVT X	ACCUMUL ATION	INTE GER	Number of Initial Detectio n Point (DP) SMS: Invoke message s transmitt ed.	CAPMSGPERF.INITDPSMS INVTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INITDPSMSRER X	ACCUMUL ATION	INTE GER	Number of Initial DP SMS: Return	CAPMSGPERF.INITDPSMS RERX	Sum	alwnctb h, alwnotb h, alwnttb

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Error message s received.			h, Sum
PCOLUSRINFOR RTX	ACCUMUL ATION	INTE GER	Number of Prompt and Collect User Informat ion Return Result message s transmitt ed.	CAPMSGPERF.PCOLUSRI NFORRTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PLAYANNOINV RX	ACCUMUL ATION	INTE GER	Number of Play Announc ement Invoke message s received.	CAPMSGPERF.PLAYANN OINVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
RELCALLINVRX	ACCUMUL ATION	INTE GER	Number of Release Call: Invoke message s received.	CAPMSGPERF.RELCALLI NVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
RELCALLPH2IN VRX	ACCUMUL ATION	INTE GER	Number of Release Call Ph2: Invoke message s received.	CAPMSGPERF.RELCALLP H2INVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
RELSMSINVRX	ACCUMUL	INTE	Number	CAPMSGPERF.RELSMSIN	Sum	alwnctb

	ATION	GER	of Release SMS: Invoke message s received.	VRX		h, alwnotb h, alwnttb h, Sum
REQRPTBCSMIN VRX	ACCUMUL ATION	INTE GER	Number of Request Report BCSM Event: Invoke message s received.	CAPMSGPERF.REQRPTBC SMINVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
REQRPTBCSMP H2INVRX	ACCUMUL ATION	INTE GER	Number of Request Report BCSM Event Ph2: Invoke message s received.	CAPMSGPERF.REQRPTBC SMPH2INVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
REQRPTBCSMP H2RETX	ACCUMUL ATION	INTE GER	Number of Request Report BCSM Event Ph2: Return Error message s	CAPMSGPERF.REQRPTBC SMPH2RETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			transmitted.			
REQRPTBCSMRET X	ACCUMULATION	INTEGER	Number of Request Report BCSM Event: Return Error messages transmitted.	CAPMSGPERF.REQRPTBCSMRET X	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
REQRPTSMSIN VRX	ACCUMULATION	INTEGER	Number of Request Report SMS Event: Invoke messages received.	CAPMSGPERF.REQRPTSMSIN VRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
REQRPTSMSRET X	ACCUMULATION	INTEGER	Number of Request Report SMS Event: Return Error messages transmitted.	CAPMSGPERF.REQRPTSMSRET X	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RSTTMRPH2IN VRX	ACCUMULATION	INTEGER	Number of Reset Timer Ph2: Invoke messages	CAPMSGPERF.RSTTMRPH2IN VRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

			received.			
RSTTMRPH2RET X	ACCUMUL ATION	INTE GER	Number of Reset timer Ph2: Return Error message s transmitt ed.	CAPMSGPERF.RSTTMRPH 2RET X	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
RSTTMRRET X	ACCUMUL ATION	INTE GER	Number of Reset Timer: Return Error message s transmitt ed.	CAPMSGPERF.RSTTMRRE TX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
RSTTMRSMSIN VRX	ACCUMUL ATION	INTE GER	Number of Reset Timer SMS: Invoke message s received.	CAPMSGPERF.RSTTMRS MSINVRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
RSTTMRSMSRE TX	ACCUMUL ATION	INTE GER	Number of Reset Timer SMS: Return Error message s transmitt ed.	CAPMSGPERF.RSTTMRS MSRET X	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

SNDCHRGINFOINVRX	ACCUMULATION	INTEGER	Number of Send Charging Info: Invoke messages received.	CAPMSGPERF.SNDCHRGINFOINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SNDCHRGINFOPH2INVRX	ACCUMULATION	INTEGER	Number of Send Charging Info Ph2: Invoke messages received.	CAPMSGPERF.SNDCHRGINFOPH2INVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SNDCHRGINFOPH2RETX	ACCUMULATION	INTEGER	Number of Send Charging Info Ph2: Return Error messages transmitted.	CAPMSGPERF.SNDCHRGINFOPH2RETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SNDCHRGINFORETX	ACCUMULATION	INTEGER	Number of Send Charging Info: Return Error messages transmitted.	CAPMSGPERF.SNDCHRGINFORETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SPECRESCREPINVTX	ACCUMULATION	INTEGER	Number of Specialized Resource Report message	CAPMSGPERF.SPECRESCREPINVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

			s transmitt ed.			
--	--	--	-----------------------	--	--	--

7.24.6 WSS_Node.Alcatel_Lucent.GSM.CISS_MAP_Performance

CISS MAPP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ACTVSSREQTX	ACCUMULATION	INTEGER	Number of Activate SS: Request messages transmitted.	MAPCISSMSGPERF.ACTVS SREQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ACTVSSRERX	ACCUMULATION	INTEGER	Number of Activate SS: Return Error messages received.	MAPCISSMSGPERF.ACTVS SRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ACTVSSRSRPRX	ACCUMULATION	INTEGER	Number of Activate SS: Response messages	MAPCISSMSGPERF.ACTVS RSRPRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received.		
BGNSUBACT VREQTX	ACCUMULATION	INTEGER	Number of Begin Subscriber Activity: Request messages transmitted.	MAPCISSMSGPERF.BGNSUBACTVREQTX	Sum alwnctbh, alwnotbh, alwnttbh, Sum
DACTVSSREQ TX	ACCUMULATION	INTEGER	Number of Deactivate SS: Request messages transmitted.	MAPCISSMSGPERF.DACTVSSREQTX	Sum alwnctbh, alwnotbh, alwnttbh, Sum
DACTVSSRER X	ACCUMULATION	INTEGER	Number of Deactivate SS: Return Error messages received.	MAPCISSMSGPERF.DACTVSSRERX	Sum alwnctbh, alwnotbh, alwnttbh, Sum
DACTVSSRSP RX	ACCUMULATION	INTEGER	Number of Deactivate SS: Response messages	MAPCISSMSGPERF.DACTVSSRSPRX	Sum alwnctbh, alwnotbh, alwnttbh, Sum

			received.			
ERASESSREQTX	ACCUMULATION	INTEGER	Number of Erase SS: Request messages transmitted.	MAPCISSMSGPERF.ERASESSREQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ERASESSRERX	ACCUMULATION	INTEGER	Number of Erase SS: Return Error messages received.	MAPCISSMSGPERF.ERASESSRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ERASESSRSPRX	ACCUMULATION	INTEGER	Number of Erase SS: Response messages received.	MAPCISSMSGPERF.ERASESSRSPRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
GETPASSWDRQTX	ACCUMULATION	INTEGER	Number of Get Password: Request	MAPCISSMSGPERF.GETPASSWDRQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages received.		
GETPASSWDRET X	ACCUMULATION	INTEGER	Number of Get Password: Return Error messages transmitted.	MAPCISSMSGPERF.GETPASSWDRET X	Sum alwnctbh, alwnotbh, alwnttbh, Sum
GETPASSWD RSP TX	ACCUMULATION	INTEGER	Number of Get Password: Response messages transmitted.	MAPCISSMSGPERF.GETPASSWD RSP TX	Sum alwnctbh, alwnotbh, alwnttbh, Sum
INTERSSREQ TX	ACCUMULATION	INTEGER	Number of Interrogate SS: Request messages transmitted.	MAPCISSMSGPERF.INTERSSREQ TX	Sum alwnctbh, alwnotbh, alwnttbh, Sum
INTERSSRER X	ACCUMULATION	INTEGER	Number of Interrogate SS: Return Error messages	MAPCISSMSGPERF.INTERSSRER X	Sum alwnctbh, alwnotbh, alwnttbh, Sum

			es receive d.			
INTERSSRSPRX	ACCUMULATION	INTEGER	Number of Interrogate SS: Response messages received.	MAPCISSMSGPERF.INTERSSRSPRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PROCUSSDATREQRX	ACCUMULATION	INTEGER	Number of Process USS DATA: Request messages received.	MAPCISSMSGPERF.PROCUSSDATREQRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PROCUSSDATREQTX	ACCUMULATION	INTEGER	Number of Process USS Data: Request messages transmitted.	MAPCISSMSGPERF.PROCUSSDATREQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PROCUSSDATRERX	ACCUMULATION	INTEGER	Number of	MAPCISSMSGPERF.PROCUSSDATRERX	Sum	alwnctbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Process USS DATA: Return Error messag es receiv ed.			alwnotb h, alwnttbh , Sum
PROCUSSDAT RETX	ACCUMUL ATION	INTE GER	Numbe r of Process USS Data: Return Error messag es transmi tted.	MAPCISSMSGPERF.PROCU SSDATRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
PROCUSSDAT RSPRX	ACCUMUL ATION	INTE GER	Numbe r of Process USS DATA: Respon se messag es receiv ed.	MAPCISSMSGPERF.PROCU SSDATRSPRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
PROCUSSDAT RSPTX	ACCUMUL ATION	INTE GER	Numbe r of Process USS Data: Respon se messag es transmi tted.	MAPCISSMSGPERF.PROCU SSDATRSPTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
PROCUSSREQ	ACCUMUL	INTE	Numbe	MAPCISSMSGPERF.PROCU	Sum	alwnctb

RX	ATION	GER	r of Process USS: Reques t messag es receive d.	SSREQRX		h, alwnotb h, alwnttbh , Sum
PROCUSSREQ TX	ACCUMUL ATION	INTE GER	Numbe r of Process USS: Reques t messag es transmi tted.	MAPCISSMSGPERF.PROCU SSREQTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
PROCUSSRER X	ACCUMUL ATION	INTE GER	Numbe r of Process USS: Return Error messag es receive d.	MAPCISSMSGPERF.PROCU SSRERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
PROCUSSRET X	ACCUMUL ATION	INTE GER	Numbe r of Process USS: Return Error messag es transmi tted.	MAPCISSMSGPERF.PROCU SSRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

PROCUSSRSP RX	ACCUMUL ATION	INTE GER	Numbe r of Process USS: Respon se messag es receive d.	MAPCISSMSGPERF.PROCU SSRSPRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
PROCUSSRSP TX	ACCUMUL ATION	INTE GER	Numbe r of Process USS: Respon se messag es transmi tted.	MAPCISSMSGPERF.PROCU SSRSPTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REGPASSWD REQTX	ACCUMUL ATION	INTE GER	Numbe r of Registe r Passwo rd: Reques t messag es transmi tted.	MAPCISSMSGPERF.REGPA SSWDREQTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REGPASSWD RERX	ACCUMUL ATION	INTE GER	Numbe r of Registe r Passwo rd: Return Error messag es receive d.	MAPCISSMSGPERF.REGPA SSWDRERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

REGPASSWD RSPRX	ACCUMUL ATION	INTE GER	Numbe r of Registe r Passwo rd: Respon se messag es receive d.	MAPCISSMSGPERF.REGPA SSWDRSPRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REGSSREQTX	ACCUMUL ATION	INTE GER	Numbe r of Registe r SS: Reques t messag es transmi tted.	MAPCISSMSGPERF.REGSSR EQTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REGSSRERX	ACCUMUL ATION	INTE GER	Numbe r of Registe r SS: Return Error messag es receive d.	MAPCISSMSGPERF.REGSSR ERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REGSSRSPRX	ACCUMUL ATION	INTE GER	Numbe r of Registe r SS: Respon se messag	MAPCISSMSGPERF.REGSSR SPRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			es receive d.			
USSNOTREQRX	ACCUMULATION	INTEGER	Number of USS Notify: Request messages received.	MAPCISSMSGPERF.USSNOTREQRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
USSNOTRETX	ACCUMULATION	INTEGER	Number of USS Notify: Return Error messages transmitted.	MAPCISSMSGPERF.USSNOTRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
USSREQRX	ACCUMULATION	INTEGER	Number of USS: Request messages received.	MAPCISSMSGPERF.USSREQRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
USSREQTX	ACCUMULATION	INTEGER	Number of USS: Request messages transmitted.	MAPCISSMSGPERF.USSREQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
USSRERX	ACCUMULATION	INTEGER	Number of	MAPCISSMSGPERF.USSRERX	Sum	alwnctbh,

			USS: Return Error messag es receiv ed.			alwnotb h, alwnttbh , Sum
USSRETX	ACCUMUL ATION	INTE GER	Numbe r of USS: Return error messag es transmi tted.	MAPCISSMSGPERF.USSRET X	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
USSRSPRX	ACCUMUL ATION	INTE GER	Numbe r of USS: Respon se messag es receiv ed.	MAPCISSMSGPERF.USSRSP RX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
USSRSPTX	ACCUMUL ATION	INTE GER	Numbe r of USS: Respon se messag es transmi tted.	MAPCISSMSGPERF.USSRSP TX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

7.24.7 WSS_Node.Alcatel_Lucent.GSM.CISS_Performance

CISS Statistics

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
-----	------	-----------	-------------	------------	--------------------	-------------------

ACTIVATIONATT EMPT	ACCUMUL ATION	INTE GER	Numbe r of SS feature activati on attempt s.	CISSPERF.ACTIVATION ATTEMPT	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
ACTIVATIONSUC CESS	ACCUMUL ATION	INTE GER	Numbe r of SS feature activati on succeed ed.	CISSPERF.ACTIVATION SUCCESS	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
DEACTIVATION ATTEMPT	ACCUMUL ATION	INTE GER	Numbe r of SS feature de- activati on attempt s.	CISSPERF.DEACTIVATI ONATTEMPT	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
DEACTIVATIONS UCCESS	ACCUMUL ATION	INTE GER	Numbe r of SS feature de- activati on succeed ed.	CISSPERF.DEACTIVATI ONSUCCESS	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
DEREGISTRATTE MPT	ACCUMUL ATION	INTE GER	Numbe r of SS feature de- registra tion attempt s.	CISSPERF.DEREGISTRA TTEMPT	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

DEREGISTRSUCCESS	ACCUMULATION	INTEGER	Number of SS feature de-registration succeeded.	CISSPERF.DEREGISTRSUCCESS	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
MIUSSDATTEMPT	ACCUMULATION	INTEGER	Number of Mobile Initiated USSD attempts.	CISSPERF.MIUSSDATTEMPT	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
MIUSSDSUCCESS	ACCUMULATION	INTEGER	Number of Mobile USSD succeeded.	CISSPERF.MIUSSDSUCCESS	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
NIUSSDATTEMPT	ACCUMULATION	INTEGER	Number of network Initiated USSD attempts.	CISSPERF.NIUSSDATTEMPT	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
NIUSSDSUCCESS	ACCUMULATION	INTEGER	Number of network Initiated USSD succeeded.	CISSPERF.NIUSSDSUCCESS	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
REGISTRATTEMPT	ACCUMULATION	INTEGER	Number of SS feature	CISSPERF.REGISTRATTEMPT	Sum	alwnctbh, alwnotb

			Registration attempts.			h, alwnttbh, Sum
REGISTRSUCCESSES	ACCUMULATION	INTEGER	Number of SS feature Registration succeeded.	CISSPERF.REGISTRSUCCESSES	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

7.24.8 WSS_Node.Alcatel_Lucent.GSM.Close_User_Group_Performance

CUG Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALLCFGRANTED	ACCUMULATION	INTEGER	CF calls granted.	CUGPERF.CALLCFGRANTED	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CALLCFREJECTED	ACCUMULATION	INTEGER	CF calls rejected	CUGPERF.CALLCFREJECTED	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CALLGMSCGRANTED	ACCUMULATION	INTEGER	GMSC calls granted.	CUGPERF.CALLGMSCGRANTED	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CALLGMSCREJECTED	ACCUMULATION	INTEGER	GMSC calls rejected	CUGPERF.CALLGMSCREJECTED	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
CALLMOGRANTED	ACCUMULATION	INTEGER	MO calls granted.	CUGPERF.CALLMOGRANTED	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
CALLMOREJECTED	ACCUMULATION	INTEGER	MO calls rejected.	CUGPERF.CALLMOREJECTED	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
CALLMTGRANTED	ACCUMULATION	INTEGER	MT calls granted.	CUGPERF.CALLMTGRANTED	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
CALLMTREJECTED	ACCUMULATION	INTEGER	MT calls rejected.	CUGPERF.CALLMTREJECTED	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

7.24.9 WSS_Node.Alcatel_Lucent.GSM.Emergency_Call_Performance

Emergency Call Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATTINAPQUERIES	ACCUMULATION	INTEGER	Number of	EMERGENCYCALLPERF.ATTINAPQUERIES	Sum	alwnctbh,

	N	R	INAP queries attempted to obtain ESRK.		alwnotbh, alwnntbh, Sum
INAPESRKNOTIFICATIONS	ACCUMULATION	INTEGER	Number of INAP queries to inform GMLC what ESRK was used.	EMERGENCYCALLPERF.INAPESRKNOTIFICATIONS Sum	alwnctbh, alwnotbh, alwnntbh, Sum
PHASE0ATTEMPTS	ACCUMULATION	INTEGER	Number of Emergency Call Attempts using Phase 0.	EMERGENCYCALLPERF.PHASE0ATTEMPTS Sum	alwnctbh, alwnotbh, alwnntbh, Sum
PHASE0FALLBACK	ACCUMULATION	INTEGER	Number of Fallbacks to Phase 0.	EMERGENCYCALLPERF.PHASE0FALLBACK Sum	alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

PHASE1ATTEMPTS	ACCUMULATION	INTER	Number of Emergency Call Attempts using Phase 1.	EMERGENCYCALLPERF.PHASE1ATTEMPTS	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
PHASE1FALLBACK	ACCUMULATION	INTER	Number of Fallbacks to Phase 0 from Phase 1.	EMERGENCYCALLPERF.PHASE1FALLBACK	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
PHASE2ATTEMPTS	ACCUMULATION	INTER	Number of Emergency Call Attempts using Phase 2.	EMERGENCYCALLPERF.PHASE2ATTEMPTS	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
PHASE2FALLBACK	ACCUMULATION	INTER	Number of Fallbacks to Phase 0 from Phase 2.	EMERGENCYCALLPERF.PHASE2FALLBACK	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
SUCCINAPQWCONNECTWESRK	ACCUMULATION	INTER	Number of successful INAP	EMERGENCYCALLPERF.SUCCINAPQWCONNECTWESRK	Sum	alwnctbh, alwnotbh, alwnnt

			queries with CONNECT to obtain ESRK. This is the count where CONNECT contains ESRK.		bh, Sum
SUCCINAPQWCONNECTWOESRK	ACCUMULATION	INTEGER	Number of successful INAP queries with connect to obtain ESRK. This is the count where CONNECT does NOT contain ESRK.	EMERGENCYCALLPERF.SUCCINAPQWCONNECTWOESRK	Sum alwnct bh, alwnot bh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

SUCCINAPQWCONTINUE	ACCUMULATION	INTEGER	Number of successful INAP queries with CONTINUE to obtain ESRK. Note that by default this does not return ESRK.	EMERGENCYCALLPERF.SUCCINAPQWCONTINUE	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
--------------------	--------------	---------	---	--------------------------------------	-----	--

7.24.10WSS_Node.Alcatel_Lucent.GSM.GMSC_MAP_Performance

Gateway MSC MAP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATTINTERROHLRFORROUTING	ACCUMULATION	INTEGER	Number of HLR queries by the GMSC function for the purpose of routing incoming	MAP1PERF.ATTINTERROHLRFORROUTING	Sum	alwnctbh, alwnotbh, alwnctbh, Sum

			calls.			
SUCCINTERROHL RCALFRWD	ACCUMU LATION	INTE GER	Numbe r of success ful HLR interrog ations where forward ed to number obtaine d.	MAP1PERF.SUCCINTERR OHLRCALFRWD	Sum	alwnct bh, alwnot bh, alwnctb h, Sum
SUCCINTERROHL RCAMEL	ACCUMU LATION	INTE GER	Numbe r of success ful HLR interrog ations where T-CSI is returne d.	MAP1PERF.SUCCINTERR OHLRCAMEL	Sum	alwnct bh, alwnot bh, alwnctb h, Sum
SUCCINTERROHL RMSRN	ACCUMU LATION	INTE GER	Numbe r of success ful HLR interrog ations where MSRN is obtaine d.	MAP1PERF.SUCCINTERR OHLRMSRN	Sum	alwnct bh, alwnot bh, alwnctb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

7.24.11WSS_Node.Alcatel_Lucent.GSM.GS_Interface_Performance

GS Interface Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
EXPLICITDETACHGPRS	ACCUMULATION	INTEGER	Total number Explicit Detach for GPRS.	GSPERF.EXPLICITDETACHGPRS	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
EXPLICITDETACHNONGPRS	ACCUMULATION	INTEGER	Total number Explicit Detach for Non GPRS.	GSPERF.EXPLICITDETACHNONGPRS	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
GPRSATTACH	ACCUMULATION	INTEGER	Number of GPRS attach requests received in Gs Interface.	GSPERF.GPRSATTACH	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
IMPLICITDETACHNONGPRS	ACCUMULATION	INTEGER	Total number of implicit IMSI detach for Non-GPRS.	GSPERF.IMPLICITDETACHNONGPRS	Sum	alwnctbh, alwnotbh, alwncttbh, Sum

IMSIATTACH	ACCUMULATION	INTEGER	Number of IMSI attach requests received on Gs Interface.	GSPERF.IMSIATTACH	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
LOCATIONUPDATE RCVD	ACCUMULATION	INTEGER	Number of normal location update requests received on Gs Interface.	GSPERF.LOCATIONUPD ATERCVD	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
MMINFORMPROC	ACCUMULATION	INTEGER	Number MM informs sent to the SGSNs.	GSPERF.MMINFORMPROC	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
MSACTIVITYINDICATIONRCVD	ACCUMULATION	INTEGER	Number of MS activity indications received	GSPERF.MSACTIVITYINDICATIONRCVD	Sum	alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			d.			
MSALERTSREJECT RCVD	ACCUMUL ATION	INTE GER	Numbe r Alert reject receive d for an MS.	GSPERF.MSALERTSREJE CTRCVD	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
MSALERTSREQSEN T	ACCUMUL ATION	INTE GER	Numbe r Alerts sent for an MS.	GSPERF.MSALERTSREQS ENT	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
MSINFORMPROC	ACCUMUL ATION	INTE GER	Numbe r MS inform s sent to the SGSNs .	GSPERF.MSINFORMPRO C	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
MSPAGE	ACCUMUL ATION	INTE GER	Numbe r of page request s sent in a GS- Interfa ce.	GSPERF.MSPAGE	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
SGSNRESETRCVD	ACCUMUL ATION	INTE GER	Numbe r of SGSN reset indicat ions receive d.	GSPERF.SGSNRESETRCV D	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
VLRRESETSENTTO SGSN	ACCUMUL ATION	INTE GER	Numbe r of VLR resets sent to	GSPERF.VLRRESETSENT TOSGSN	Sum	alwnctb h, alwnotb h, alwnttb

			the SGSNs			h, Sum
--	--	--	--------------	--	--	--------

7.24.12WSS_Node.Alcatel_Lucent.GSM.INAP_Message_Performance

INAP Message Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ACTVSVCFTDINVRX	ACCUMULATION	INTEGER	Number of Activate Service Filtering: Invoke messages received.	INAPMSGPERF.ACTVSVCFTDINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ACTVSVCFTDRET	ACCUMULATION	INTEGER	Number of Activate Service Filtering: Return Error messages transmitted.	INAPMSGPERF.ACTVSVCFTDRET	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ACTVTSTINVRX	ACCUMULATION	INTEGER	Number of Activit	INAPMSGPERF.ACTVTSTINVRX	Sum	alwnctbh, alwnotbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			y Test: Invoke messag es receiv ed.			h, alwnttbh , Sum
APPCHGINVRX	ACCUMUL ATION	INTE GER	Numbe r of Apply Chargin g: Invoke messag es receiv ed.	INAPMSGPERF.APPCHGIN VRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
APPCHGRETX	ACCUMUL ATION	INTE GER	Numbe r of Apply Chargin g: Return Error messag es transmi tted.	INAPMSGPERF.APPCHGR ETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
APPCHGRPTIN VTX	ACCUMUL ATION	INTE GER	Numbe r of Apply Chargin g Report: Invoke messag es transmi tted.	INAPMSGPERF.APPCHGR PTINVTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
APPCHGRPTRE RX	ACCUMUL ATION	INTE GER	Numbe r of Apply Chargin g	INAPMSGPERF.APPCHGR PTRERX	Sum	alwnctb h, alwnotb h, alwnttbh

			Report: Return Error messag es receiv ed.			, Sum
ASEDINFOINV TX	ACCUMUL ATION	INTE GER	Numbe r of Analyz ed Informa tion: Invoke messag es transmi tted.	INAPMSGPERF.ASEDINFO INVTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
ASEDINFOFOR ERX	ACCUMUL ATION	INTE GER	Numbe r of Analyz ed Informa tion; Return Error messag es receiv ed.	INAPMSGPERF.ASEDINFO RERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
ASEINFOINVR X	ACCUMUL ATION	INTE GER	Numbe r of Analyz e Informa tion: Invoke messag es	INAPMSGPERF.ASEINFOI NVRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received.			
ASEINFORET	ACCUMULATION	INTEGER	Number of Analyze Information: Return Error messages transmitted.	INAPMSGPERF.ASEINFORET	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ASTREQINSTRINVT	ACCUMULATION	INTEGER	Number of Assist Request Instructions: Invoke messages transmitted.	INAPMSGPERF.ASTREQINSTRINVT	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ASTREQINSTRERR	ACCUMULATION	INTEGER	Number of Assist Request Instructions: Return Error messages received.	INAPMSGPERF.ASTREQINSTRERR	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CALLGAPINVT	ACCUMULATION	INTEGER	Number of Call Gap: Invoke messages	INAPMSGPERF.CALLGAPINVT	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

			es receive d.			
CALLINFOREQ NVRX	ACCUMUL ATION	INTE GER	Numbe r of Call Informa tion Request : Invoke messag es receive d.	INAPMSGPERF.CALLINFO REQINVRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
CALLINFOREQ RETX	ACCUMUL ATION	INTE GER	Numbe r of Call Informa tion Request : Return Error messag es transmi tted.	INAPMSGPERF.CALLINFO REQRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
CALLINFO RPTI NVTX	ACCUMUL ATION	INTE GER	Numbe r of Call Informa tion Report: Invoke messag es transmi tted.	INAPMSGPERF.CALLINFO RPTINVTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CLCTINFOINVRX	ACCUMULATION	INTEGER	Number of Collect Information: Invoke messages received.	INAPMSGPERF.CLCTINFOINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CLCTINFORETX	ACCUMULATION	INTEGER	Number of Collect Information: Return Error messages transmitted.	INAPMSGPERF.CLCTINFORETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CNCLINVRX	ACCUMULATION	INTEGER	Number of Cancel: Invoke messages received.	INAPMSGPERF.CNCLINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CNCLRETX	ACCUMULATION	INTEGER	Number of Cancel: Return Error messages transmitted.	INAPMSGPERF.CNCLRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CNCLSTATREQINVRX	ACCUMULATION	INTEGER	Number of Cancel Status Report	INAPMSGPERF.CNCLSTATREQINVRX	Sum	alwnctbh, alwnotbh, alwnttbh

			Request : Invoke messag es receiv ed.			, Sum
CNCLSTATREQ RETX	ACCUMUL ATION	INTE GER	Numbe r of Cancel Status Report: Request Return Error messag es transmi tted.	INAPMSGPERF.CNCLSTA TREQRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
CONINVRX	ACCUMUL ATION	INTE GER	Numbe r of Connec t: Invoke messag es receiv ed.	INAPMSGPERF.CONINVR X	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
CONRETX	ACCUMUL ATION	INTE GER	Numbe r of Connec t: Return Error messag es transmi tted.	INAPMSGPERF.CONRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CONTINVRX	ACCUMULATION	INTEGER	Number of Continue: Invoke messages received.	INAPMSGPERF.CONTINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTORESINVRX	ACCUMULATION	INTEGER	Number of Connect To Resource: Invoke messages received.	INAPMSGPERF.CONTORESINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CONTORESRETX	ACCUMULATION	INTEGER	Number of Connect To Resource: Return Error messages transmitted.	INAPMSGPERF.CONTORESRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CTEDINFOINVTX	ACCUMULATION	INTEGER	Number of Collected Information: Invoke messages transmitted.	INAPMSGPERF.CTEDINFOINVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

CTEDINFORERX	ACCUMULATION	INTEGER	Number of Collected Information: Return Error messages received.	INAPMSGPERF.CTEDINFORERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
DISCFWDCONINVRX	ACCUMULATION	INTEGER	Number of Disconnect Forward Connection: Invoke messages received.	INAPMSGPERF.DISCFWDCONINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
DISCFWDCONRETXX	ACCUMULATION	INTEGER	Number of Disconnect Forward Connection: Return Error messages transmitted.	INAPMSGPERF.DISCFWDCONRETXX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

ESTTMPCONINVRX	ACCUMULATION	INTEGER	Number of Establish Temporary Connection (ETC): Invoke messages received.	INAPMSGPERF.ESTTMPCONINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ESTTMPCONRETX	ACCUMULATION	INTEGER	Number of Establish Temporary Connection: Return Error messages transmitted.	INAPMSGPERF.ESTTMPCONRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
EVTNOTCHGINVTX	ACCUMULATION	INTEGER	Number of Event Notification Charging: Invoke messages transmitted.	INAPMSGPERF.EVTNOTCHGINVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
EVTRPTBCSMINVTX	ACCUMULATION	INTEGER	Number of Event Report	INAPMSGPERF.EVTRPTBCSMINVTX	Sum	alwnctbh, alwnotbh,

			BCSM: Invoke messag es transmi tted.			alwnttbh , Sum
FURCHGINFOI NVRX	ACCUMUL ATION	INTE GER	Numbe r of Furnish Chargin g Informa tion: Invoke messag es receiv ed.	INAPMSGPERF.FURCHGI NFOINVRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
FURCHGINFOR ETX	ACCUMUL ATION	INTE GER	Numbe r of Furnish Chargin g Informa tion: Return Error messag es transmi tted.	INAPMSGPERF.FURCHGI NFORETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
HOLDCALLNE TINVRX	ACCUMUL ATION	INTE GER	Numbe r of Hold Call In Networ k: Invoke messag	INAPMSGPERF.HOLDCAL LNETINVRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			es receive d.			
HOLDCALLNETRET X	ACCUMULATION	INTE GER	Numbe r of Hold Call In Networ k: Return Error messag es transmi tted.	INAPMSGPERF.HOLDCALL LNETRET X	Sum	alwnctb h, alwnotb h, alwnntbh , Sum
INITCALLATTI NVRX	ACCUMULATION	INTE GER	Numbe r of Initiate Call Attemp t: Invoke messag es receive d.	INAPMSGPERF.INITCALL ATTINVR X	Sum	alwnctb h, alwnotb h, alwnntbh , Sum
INITCALLATTR ETX	ACCUMULATION	INTE GER	Numbe r of Initiate Call Attemp t: Return Error messag es transmi tted.	INAPMSGPERF.INITCALL ATTRET X	Sum	alwnctb h, alwnotb h, alwnntbh , Sum
INITDPINVRX	ACCUMULATION	INTE GER	Numbe r of Initial DP: Invoke	INAPMSGPERF.INITDPIN VRX	Sum	alwnctb h, alwnotb h, alwnntbh

			messages received.			, Sum
INITDPRETX	ACCUMULATION	INTEGER	Number of Initial DP: Return Error messages transmitted.	INAPMSGPERF.INITDPRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
OANSWERINVTX	ACCUMULATION	INTEGER	Number of Origination No Answer: Invoke messages transmitted.	INAPMSGPERF.OANSWERINVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
OANSWERRERX	ACCUMULATION	INTEGER	Number of Origination No Answer: Return Error messages received.	INAPMSGPERF.OANSWERRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
OATTAUTHINVTX	ACCUMULATION	INTEGER	Number of Origination No Answer: Return Error messages received.	INAPMSGPERF.OATTAUTHINVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

TX	ATION	GER	r of Origina tion Attemp t Authori zed: Invoke messag es transmi tted.	HINVTX		h, alwnotb h, alwnttbh , Sum
OATTAUTHRE RX	ACCUMUL ATION	INTE GER	Numbe r of Origina tion Attemp t Authori zed: Return Error messag es receive d.	INAPMSGPERF.OATTAUT HRERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
OCDPTYBUSYI NVTX	ACCUMUL ATION	INTE GER	Numbe r of Origina tion Called Party Busy: Invoke messag es transmi tted.	INAPMSGPERF.OCDPTYB USYINVTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
OCDPTYBUSY RERX	ACCUMUL ATION	INTE GER	Numbe r of Origina tion Called Party	INAPMSGPERF.OCDPTYB USYRERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

			Busy: Return Error messag es receiv ed.			
ODISCINVTX	ACCUMUL ATION	INTE GER	Numbe r of Origina tion Discon nect: Invoke messag es transmi tted.	INAPMSGPERF.ODISCINV TX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
ODISCRERX	ACCUMUL ATION	INTE GER	Numbe r of Origina tion Discon nect: Return Error messag es receiv ed.	INAPMSGPERF.ODISCRER X	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
OMIDCALLINV TX	ACCUMUL ATION	INTE GER	Numbe r of Origina tion Mid Call: Invoke messag es	INAPMSGPERF.OMIDCAL LINTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			transmitted.			
OMIDCALLRERX	ACCUMULATION	INTEGER	Number of Origination Mid Call: Return Error messages received.	INAPMSGPERF.OMIDCALLRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ONOANSWERINVTX	ACCUMULATION	INTEGER	Number of Origination No Answer : Invoke messages transmitted.	INAPMSGPERF.ONOANSWERINVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ONOANSWERRERX	ACCUMULATION	INTEGER	Number of Origination No Answer : Return Error messages received.	INAPMSGPERF.ONOANSWERRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RELCALLINVRX	ACCUMULATION	INTEGER	Number of Release Call: Invoke message	INAPMSGPERF.RELCALLINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

			es receive d.			
REQCRNTSTAT INVRX	ACCUMUL ATION	INTE GER	Numbe r of Request Current Status Report: Invoke messag es receive d.	INAPMSGPERF.REQCRNT STATINVRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REQCRNTSTAT RETX	ACCUMUL ATION	INTE GER	Numbe r of Request Current Status Report: Return Error messag es transmi tted.	INAPMSGPERF.REQCRNT STATRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REQCRNTSTAT RRTX	ACCUMUL ATION	INTE GER	Numbe r of Request Current Status Report: Return Result messag es transmi tted.	INAPMSGPERF.REQCRNT STATRRTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

REQEVERYSTA TINVRX	ACCUMUL ATION	INTE GER	Numbe r of Request Every Status Report: Invoke messag es receiv ed	INAPMSGPERF.REQEVER YSTATINVRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REQEVERYSTA TRETX	ACCUMUL ATION	INTE GER	Numbe r of Request Every Status Report: Return Error messag es transmi tted.	INAPMSGPERF.REQEVER YSTATRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REQFIRSTSTAT INVRX	ACCUMUL ATION	INTE GER	Numbe r of Request First Status Match Report: Invoke messag es receiv ed.	INAPMSGPERF.REQFIRST STATINVRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
REQFIRSTSTAT RETX	ACCUMUL ATION	INTE GER	Numbe r of Request First Status Match Report: Return Error	INAPMSGPERF.REQFIRST STATRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

			messages transmitted.			
REQNOTCHGINVRX	ACCUMULATION	INTEGER	Number of Request Notification Charging Event: Invoke messages received.	INAPMSGPERF.REQNOTCHGINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
REQNOTCHGRETX	ACCUMULATION	INTEGER	Number of Request Notification Charging Event: Return Error messages transmitted.	INAPMSGPERF.REQNOTCHGRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
REQRPTBCSMINVRX	ACCUMULATION	INTEGER	Number of Request Report BCSM Event: Invoke message	INAPMSGPERF.REQRPTBCSMINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			es receive d.			
REQRPTBCSMR ETX	ACCUMUL ATION	INTE GER	Numbe r of Request Report BCSM Event: Return Error messag es transmi tted.	INAPMSGPERF.REQRPTB CSMRETX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
ROUTSELFALI NVTX	ACCUMUL ATION	INTE GER	Numbe r of Route Select Failure: Invoke messag es transmi tted.	INAPMSGPERF.ROUTSEL FAILINVTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
ROUTSELFALI RERX	ACCUMUL ATION	INTE GER	Numbe r of Route Select Failure: Return Error messag es receive d.	INAPMSGPERF.ROUTSEL FAILRERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
RSTTMRINVRX	ACCUMUL ATION	INTE GER	Numbe r of Reset Timer: Invoke messag es	INAPMSGPERF.RSTTMRI NVRX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

			received.			
RSTTMRRRET	ACCUMULATION	INTEGER	Number of Reset Timer: Return Error messages transmitted.	INAPMSGPERF.RSTTMRR	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SELFACINVR	ACCUMULATION	INTEGER	Number of Select Facility : Invoke messages received.	INAPMSGPERF.SELFACIN	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SELFACRET	ACCUMULATION	INTEGER	Number of Select Facility : Return Error messages transmitted.	INAPMSGPERF.SELFACRE	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SELROUTINVR	ACCUMULATION	INTEGER	Number of Select Route: Invoke	INAPMSGPERF.SELROUTI	Sum	alwnctbh, alwnotbh, alwnttbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages received.			, Sum
SELROUTRETX	ACCUMULATION	INTEGER	Number of Select Route: Return Error messages transmitted.	INAPMSGPERF.SELROUTRETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SNDCHGINFOINVRX	ACCUMULATION	INTEGER	Number of Send Charging Info Send Charging Info: Invoke messages received.	INAPMSGPERF.SNDCHGINFOINVRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SNDCHGINFORETX	ACCUMULATION	INTEGER	Number of Send Charging Info: Return Error messages transmitted.	INAPMSGPERF.SNDCHGINFORETX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
STATRPTINVRX	ACCUMULATION	INTEGER	Number of Status Report: Invoke	INAPMSGPERF.STATRPTINVRX	Sum	alwnctbh, alwnotbh, alwnttbh

			messages received.			, Sum
SVCFTDRSPINVTX	ACCUMULATION	INTEGER	Number of Service Filtering Response: Invoke messages transmitted.	INAPMSGPERF.SVCFTDRSPINVTX	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
TANSWERINVTX	ACCUMULATION	INTEGER	Number of Termination Answer: Invoke messages transmitted.	INAPMSGPERF.TANSWERINVTX	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
TANSWERRERX	ACCUMULATION	INTEGER	Number of Termination Answer: Return Error messages received.	INAPMSGPERF.TANSWERRERX	Sum	alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

TATTAUTHINVTX	ACCUMULATION	INTEGER	Number of Termination Attempt Authorized: Invoke messages transmitted.	INAPMSGPERF.TATTAUTHINVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
TATTAUTHRERX	ACCUMULATION	INTEGER	Number of Termination Attempt Authorized: Return Error messages received.	INAPMSGPERF.TATTAUTHRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
TCDPTYBUSYINVTX	ACCUMULATION	INTEGER	Number of Termination Called Party Busy: Invoke messages transmitted.	INAPMSGPERF.TCDPTYBUSYINVTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
TCDPTYBUSYRERX	ACCUMULATION	INTEGER	Number of Termination Called	INAPMSGPERF.TCDPTYBUSYRERX	Sum	alwnctbh, alwnotbh, alwnttbh

			Party Busy: Return Error messag es receiv ed.			, Sum
TDISCINVTX	ACCUMUL ATION	INTE GER	Numbe r of Termin ation Discon nect: Invoke messag es transmi tted.	INAPMSGPERF.TDISCINV TX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
TDISCRERX	ACCUMUL ATION	INTE GER	Numbe r of Termin ation Discon nect; Return Error messag es receiv ed.	INAPMSGPERF.TDISCRER X	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
TMIDCALLINV TX	ACCUMUL ATION	INTE GER	Numbe r of Termin ation Mid Call: Invoke messag	INAPMSGPERF.TMIDCAL LINTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			es transmi tted.			
TMIDCALLRER X	ACCUMUL ATION	INTE GER	Numbe r of Termin ation Mid Call: Return Error messag es receiv ed.	INAPMSGPERF.TMIDCAL LRERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
TNOANSWERI NVTX	ACCUMUL ATION	INTE GER	Numbe r of Termin ation No Answer : Invoke messag es transmi tted.	INAPMSGPERF.TNOANSW ERINVTX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum
TNOANSWERR ERX	ACCUMUL ATION	INTE GER	Numbe r of Termin ation No Answer : Return Error messag es receiv ed.	INAPMSGPERF.TNOANSW ERRERX	Sum	alwnctb h, alwnotb h, alwnttbh , Sum

7.24.13WSS_Node.Alcatel_Lucent.GSM.IS41_Message_Performance

IS41 Message Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
LOCREQINVTX	ACCUMULATION	INTEGER	Number of Location Request : Invoke messages transmitted.	IS41MSGPERF.LOCREQINVTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
LOCREQRERX	ACCUMULATION	INTEGER	Number of Location Request : Return Error messages received .	IS41MSGPERF.LOCREQRERX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
LOCREQRRRX	ACCUMULATION	INTEGER	Number of Location Request : Return Result messages received .	IS41MSGPERF.LOCREQRRRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
REDIRREQINVRX	ACCUMULATION	INTEGER	Number of Redirect	IS41MSGPERF.REDIRREQINVRX	Sum	alwnctbh , alwnotbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ion Request : Invoke message s received .			, alwnttbh, Sum
REDIRREQRE TX	ACCUMULA TION	INTE GER	Number of Redirect ion Request : Return Error message s transmit ted.	IS41MSGPERF.REDIRRE QRETX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
REDIRREQRR TX	ACCUMULA TION	INTE GER	Number of Redirect ion Request : Return Result message s transmit ted.	IS41MSGPERF.REDIRRE QRRTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
XFERTONMBI NVTX	ACCUMULA TION	INTE GER	Number of Transfer To Number Request : Invoke message s transmit ted.	IS41MSGPERF.XFERTON MBINVTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
XFERTONMB RERX	ACCUMULA TION	INTE GER	Number of Transfer	IS41MSGPERF.XFERTON MBRERX	Sum	alwnctbh , alwnotbh

			To Number Request : Return Error message s received .			, alwnttbh, Sum
XFERTONMB RRRX	ACCUMULA TION	INTE GER	Number of Transfer To Number Request : Return Result message s received .	IS41MSGPERF.XFERTON MBRRRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

7.24.14WSS_Node.Alcatel_Lucent.GSM.IS41_Performance

IS41 Statistics

KPI	Type	Data Type	Descri ption	Derivation	Defaul t Aggre gator	Other Aggreg ators
LOCREQREQSENT	ACCUMU LATION	INTE GER	Numb er of Locati on Reque st sent to HLR.	IS41PERF.LOCREQREQSE NT	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
LOCREQRSPWCFRE	ACCUMU	INTE	Numb	IS41PERF.LOCREQRSPWC	Sum	alwnctbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CVD	LATION	GER	er of Locati on Reque st respon se with Call Forwar ding receive d from HLR.	FRECVD		h, alwnot bh, alwnttb h, Sum
LOCREQRSPWROUTNUMRECVD	ACCUMULATION	INTEGER	Numb er of Locati on Reque st respon se with Routin g Numb er receive d from HLR.	IS41PERF.LOCREQRSPWROUTNUMRECVD	Sum	alwnctb h, alwnot bh, alwnttb h, Sum
REDIRREQREQRECVD	ACCUMULATION	INTEGER	Numb er of Redire ction request receive d from HLR.	IS41PERF.REDIRREQREQRECVD	Sum	alwnctb h, alwnot bh, alwnttb h, Sum
REDIRREQRSPSENT	ACCUMULATION	INTEGER	Numb er of Redire ction respon se sent to HLR.	IS41PERF.REDIRREQRSPSENT	Sum	alwnctb h, alwnot bh, alwnttb h, Sum

TRANSNUMREQSENT	ACCUMULATION	INTEGER	Number of transfer to number sent to HLR.	IS41PERF.TRANSNUMREQSENT	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
TRANSNUMRSPRECVD	ACCUMULATION	INTEGER	Number of transfer to number response received from HLR.	IS41PERF.TRANSNUMRSPRECVD	Sum	alwnctbh, alwnotbh, alwnctbh, Sum

7.24.15WSS_Node.Alcatel_Lucent.GSM.Location_Service_MAP_Performance

Location Service MAP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
PROVSUBSLOCREQRX	ACCUMULATION	INTEGER	Number of Provide Subscriber Location: Request messages	MAPLCSMSGPERF.PROVSUBSLOCREQRX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received.			
PROVSUBSLO CRETX	ACCUMUL ATION	INTE GER	Numbe r of Provide Subscri ber Locatio n: Return Error messag es transmi tted.	MAPLCSMSGPERF.PROVSU BSLOCRETX	Sum	alwnctb h, alwnotb h, alwnctb h, Sum
PROVSUBSLO CRSPTX	ACCUMUL ATION	INTE GER	Numbe r of Provide Subscri ber Locatio n: Respon se messag es transmi tted.	MAPLCSMSGPERF.PROVSU BSLOCRSPTX	Sum	alwnctb h, alwnotb h, alwnctb h, Sum
SUBSLOCREQ TX	ACCUMUL ATION	INTE GER	Numbe r of Subscri ber Locatio n: Reques t messag es transmi tted.	MAPLCSMSGPERF.SUBSLO CREQTX	Sum	alwnctb h, alwnotb h, alwnctb h, Sum
SUBSLOCRER X	ACCUMUL ATION	INTE GER	Numbe r of Subscri	MAPLCSMSGPERF.SUBSLO CRERX	Sum	alwnctb h, alwnotb

			ber Locatio n: Return Error messag es receiv ed.			h, alwnttb h, Sum
SUBSLOCRSP RX	ACCUMUL ATION	INTE GER	Numbe r of Subscri ber Locatio n: Respon se messag es receiv ed.	MAPLCMSGPERF.SUBSLO CRSPRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

7.24.16WSS_Node.Alcatel_Lucent.GSM.Mobility_Mgmt_MAP_Performance

Mobility Mgmt MAP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ACTVTRREQRX	ACCUMULATION	INTEGER	Number of Activate Trace: Request messages received.	MAPMMMSGPERF.ACTVTRREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
ACTVTRRETXX	ACCUMULATION	INTE	Number	MAPMMMSGPERF.ACTVTR	Sum	alwnctb

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	ATION	GER	of Activate Trace: Return message s transmitt ed.	RETX		h, alwnotb h, alwnttb h, Sum
ACTVTRRSPTX	ACCUMUL ATION	INTE GER	Number of Activate Trace: Respons e message s transmitt ed.	MAPMMMSGPERF.ACTVTR RSPTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
AUTHFAILRPT REQTX	ACCUMUL ATION	INTE GER	Number of Authenti cation Fail Report: Request message s transmitt ed.	MAPMMMSGPERF.AUTHFA ILRPTREQTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
AUTHFAILRPT RERX	ACCUMUL ATION	INTE GER	Number of Authenti cation Fail Report: Return Error message s received.	MAPMMMSGPERF.AUTHFA ILRPTRERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
AUTHFAILRPT RSPRX	ACCUMUL ATION	INTE GER	Number of Authenti	MAPMMMSGPERF.AUTHFA ILRPTRSPRX	Sum	alwnctb h, alwnotb

			cation Fail Report: Respon se message s received.			h, alwnttb h, Sum
AUTHINFREQTX	ACCUMULATION	INTEGER	Number of Authenti cation Info: Request message s transmitt ed.	MAPMMMSGPERF.AUTHINFREQTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
AUTHINFRERX	ACCUMULATION	INTEGER	Number of Authenti cation Info: Return Error message s received.	MAPMMMSGPERF.AUTHINFRERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
AUTHINFRSPRX	ACCUMULATION	INTEGER	Number of Authenti cation Info: Respon se message s received.	MAPMMMSGPERF.AUTHINFRSPRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CANLOCREQR X	ACCUMUL ATION	INTE GER	Number of Cancel Location : Request message s received.	MAPMMMSGPERF.CANLO CREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CANLOCRETX	ACCUMUL ATION	INTE GER	Number of Cancel Location : Return message s transmitt ed.	MAPMMMSGPERF.CANLO CRETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CANLOCRSPT X	ACCUMUL ATION	INTE GER	Number of Cancel Location : Respons e message s transmitt ed.	MAPMMMSGPERF.CANLO CRSPTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CHKIMEIREQT X	ACCUMUL ATION	INTE GER	Number of Check IMEI: Request message s transmitt ed.	MAPMMMSGPERF.CHKIME IREQTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CHKIMEIRERX	ACCUMUL ATION	INTE GER	Number of Check IMEI: Return Error message	MAPMMMSGPERF.CHKIME IRERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

			s received.			
CHKIMEIRSPRX	ACCUMULATION	INTEGER	Number of Check IMEI: Response message s received.	MAPMMMSGPERF.CHKIMEIRSPRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
DACTVTRREQRX	ACCUMULATION	INTEGER	Number of Deactiva te Trace: Request message s received.	MAPMMMSGPERF.DACTVTRREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
DACTVTRRET X	ACCUMULATION	INTEGER	Number of Deactiva te Trace: Return message s transmitt ed.	MAPMMMSGPERF.DACTVTRRET X	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
DACTVTRRSPT X	ACCUMULATION	INTEGER	Number of Deactiva te Trace: Response message s transmitt ed.	MAPMMMSGPERF.DACTVTRRSPT X	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
DELSUBREQR	ACCUMULATION	INTEGER	Number	MAPMMMSGPERF.DELSUB	Sum	alwnctb

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

X	ATION	GER	of Delete Subscriber Data: Request messages received.	REQRX		h, alwnotb h, alwnttb h, Sum
DELSUBRETX	ACCUMULATION	INTEGER	Number of Delete Subscriber Data: Return Error messages transmitted.	MAPMMMSGPERF.DELSUBRETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
DELSUBRSPTX	ACCUMULATION	INTEGER	Number of Delete Subscriber Data: Response messages transmitted.	MAPMMMSGPERF.DELSUBRSPTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
FWDACCSIGREQRX	ACCUMULATION	INTEGER	Number of Forward Access Signaling: Request messages received.	MAPMMMSGPERF.FWDACCSIGREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
FWDACCSIGREQTX	ACCUMULATION	INTEGER	Number of Forward	MAPMMMSGPERF.FWDACCSIGREQTX	Sum	alwnctb h, alwnotb

			Access Signalin g: Request message s transmitt ed.			h, alwnttb h, Sum
FWDCHKSSIN DREQRX	ACCUMUL ATION	INTE GER	Number of Forward Check SS Indicatio n: Request message s received.	MAPMMMSGPERF.FWDCH KSSINDREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INSSUBREQRX	ACCUMUL ATION	INTE GER	Number of Insert Subscrib er Data: Request message s received.	MAPMMMSGPERF.INSSUB REQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INSSUBRETX	ACCUMUL ATION	INTE GER	Number of Insert Subscrib er Data: Return Error message s transmitt ed.	MAPMMMSGPERF.INSSUB RETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
INSSUBRSPTX	ACCUMUL	INTE	Number	MAPMMMSGPERF.INSSUB	Sum	alwnctb

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	ATION	GER	of Insert Subscriber Data: Response messages transmitted.	RSPTX		h, alwnotb h, alwnttb h, Sum
NOTMMEVRE QTX	ACCUMUL ATION	INTE GER	Number of MAP Notify MM: Event message s transmitt ed.	MAPMMMSGPERF.NOTMM EVREQTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
NOTMMEVRER X	ACCUMUL ATION	INTE GER	Number of MAP Notify MM Event: Return Error message s received.	MAPMMMSGPERF.NOTMM EVRERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
NOTMMEVRSP RX	ACCUMUL ATION	INTE GER	Number of MAP Notify MM Event: Respons e message s received.	MAPMMMSGPERF.NOTMM EVRSPRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PREHOREQRX	ACCUMUL ATION	INTE GER	Number of Prepare Handove r:	MAPMMMSGPERF.PREHOR EQRX	Sum	alwnctb h, alwnotb h, alwnttb

			Request message s received.			h, Sum
PREHOREQTX	ACCUMUL ATION	INTE GER	Number of Prepare Handove r: Request message s transmitt ed.	MAPMMMSGPERF.PREHOR EQTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PREHORERX	ACCUMUL ATION	INTE GER	Number of Prepare Handove r: Return Error message s received.	MAPMMMSGPERF.PREHOR ERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PREHORETX	ACCUMUL ATION	INTE GER	Number of Prepare Handove r: Return Error message s transmitt ed.	MAPMMMSGPERF.PREHOR ETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PREHORSRX	ACCUMUL ATION	INTE GER	Number of Prepare Handove r:	MAPMMMSGPERF.PREHOR SPRX	Sum	alwnctb h, alwnotb h, alwnttb

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Response message s received.			h, Sum
PREHORSPTX	ACCUMULATION	INTEGER	Number of Prepare Handover: Response message s transmitted.	MAPMMMSGPERF.PREHORSPTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PRESUBHOREQRX	ACCUMULATION	INTEGER	Number of Prepare Subsequent Handover: Request message s received.	MAPMMMSGPERF.PRESUBHOREQRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PRESUBHOREQTX	ACCUMULATION	INTEGER	Number of Prepare Subsequent Handover: Request message s transmitted.	MAPMMMSGPERF.PRESUBHOREQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PRESUBHORERX	ACCUMULATION	INTEGER	Number of Prepare Subsequent	MAPMMMSGPERF.PRESUBHORERX	Sum	alwnctbh, alwnotbh,

			ent Handove r: Return Error message received.			alwnttb h, Sum
PRESUBHORET X	ACCUMUL ATION	INTE GER	Number of Prepare Subsequ ent Handove r: Return Error message s transmitt ed.	MAPMMMSGPERF.PRESUB HORETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PRESUBHORSP RX	ACCUMUL ATION	INTE GER	Number of Prepare Subsequ ent Handove r: Respons e message s received.	MAPMMMSGPERF.PRESUB HORSPRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PRESUBHORSP TX	ACCUMUL ATION	INTE GER	Number of Prepare Subsequ ent Handove r: Respons e	MAPMMMSGPERF.PRESUB HORSPTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			message s transmitt ed.			
PROCACCSIGREQRX	ACCUMULATION	INTEGER	Number of Process Access Signalin g: Request message s received.	MAPMMMSGPERF.PROCACCSIGREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PROCACCSIGREQTX	ACCUMULATION	INTEGER	Number of Process Access Signalin g: Request message s transmitt ed.	MAPMMMSGPERF.PROCACCSIGREQTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PROVROAMNMBREQRX	ACCUMULATION	INTEGER	Number of Provide Roamin g Number: Request message s received.	MAPMMMSGPERF.PROVROAMNMBREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PROVROAMNMBRETX	ACCUMULATION	INTEGER	Number of Provide Roamin g Number: Return Error	MAPMMMSGPERF.PROVROAMNMBRETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

			message s transmitt ed.			
PROVROAMN MBSPTX	ACCUMUL ATION	INTE GER	Number of Provide Roamin g Number: Respons e message s transmitt ed.	MAPMMMSGPERF.PROVRO AMNMBSPTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PROVSUBSINF OREQRX	ACCUMUL ATION	INTE GER	Number of Provide Subscrib er Info: Request message s received.	MAPMMMSGPERF.PROVSU BSINFOREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PROVSUBSINF ORETX	ACCUMUL ATION	INTE GER	Number of Provide Subscrib er Info: Return Error message s transmitt ed.	MAPMMMSGPERF.PROVSU BSINFORETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PROVSUBSINF ORSPTX	ACCUMUL ATION	INTE GER	Number of	MAPMMMSGPERF.PROVSU BSINFORSPTX	Sum	alwnctb h,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Provide Subscriber Info: Response messages transmitted.			alwnotbh, alwnttbh, Sum
PURGMSREQTX	ACCUMULATION	INTEGER	Number of Mobile Station Purge: Request messages transmitted.	MAPMMMSGPERF.PURGMSREQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PURGMSRERX	ACCUMULATION	INTEGER	Number of Purge MS: Return messages received.	MAPMMMSGPERF.PURGMSRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PURGMSRSPRX	ACCUMULATION	INTEGER	Number of Purge MS: Response messages received.	MAPMMMSGPERF.PURGMSRSPRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RESETREQRX	ACCUMULATION	INTEGER	Number of Reset: Request messages received.	MAPMMMSGPERF.RESETREQRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RESTOREREQTX	ACCUMULATION	INTEGER	Number of Restore:	MAPMMMSGPERF.RESTOREREQTX	Sum	alwnctbh, alwnotbh

			Request message s transmitt ed.			h, alwnttb h, Sum
RESTORERERX	ACCUMUL ATION	INTE GER	Number of Restore SS: Return Error message s received.	MAPMMMSGPERF.RESTOR ERERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
RESTORERSPR X	ACCUMUL ATION	INTE GER	Number of Restore SS: Respons e message s received.	MAPMMMSGPERF.RESTOR ERSPRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
SENDENDSIGRE QRX	ACCUMUL ATION	INTE GER	Number of Send End Signal: Request message s received.	MAPMMMSGPERF.SNDEND SIGREQRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
SENDENDSIGRE QTX	ACCUMUL ATION	INTE GER	Number of Send End Signal: Request message s	MAPMMMSGPERF.SNDEND SIGREQTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			transmitted.		
SNDENDSIGRSPRX	ACCUMULATION	INTEGER	Number of Send End Signal: Response messages received.	MAPMMMSGPERF.SNDENDSIGRSPRX	Sum alwnctbh, alwnotbh, alwnctbh, Sum
SNDENDSIGRSPTX	ACCUMULATION	INTEGER	Number of Send End Signal: Response messages transmitted.	MAPMMMSGPERF.SNDENDSIGRSPTX	Sum alwnctbh, alwnotbh, alwnctbh, Sum
SNDIDREQRX	ACCUMULATION	INTEGER	Number of Send Identification: Request messages received.	MAPMMMSGPERF.SNDIDREQRX	Sum alwnctbh, alwnotbh, alwnctbh, Sum
SNDIDREQTX	ACCUMULATION	INTEGER	Number of Send Identification: Request messages transmitted.	MAPMMMSGPERF.SNDIDREQTX	Sum alwnctbh, alwnotbh, alwnctbh, Sum
SNDIDRERX	ACCUMULATION	INTEGER	Number of Send Identification: Return	MAPMMMSGPERF.SNDIDRERX	Sum alwnctbh, alwnotbh, alwnctbh

			Error message s received.			h, Sum
SNDIDRETX	ACCUMULATION	INTEGER	Number of Send Identification: Return Error message s transmitt ed.	MAPMMMSGPERF.SNDIDRETX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
SNDIDRSPRX	ACCUMULATION	INTEGER	Number of Send Identification: Respons e message s received.	MAPMMMSGPERF.SNDIDRSPRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
SNDIDRSPTX	ACCUMULATION	INTEGER	Number of Send Identification: Respons e message s transmitt ed.	MAPMMMSGPERF.SNDIDRSPTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
SNDIMSIREQTX	ACCUMULATION	INTEGER	Number of Send IMSI: Request message	MAPMMMSGPERF.SNDIMSIREQTX	Sum	alwnctb h, alwnotb h, alwnttb

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			s transmitt ed.			h, Sum
SNDIMSIRERX	ACCUMUL ATION	INTE GER	Number of Send IMSI: Return Error message s received.	MAPMMMSGPERF.SNDIMS IRERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
SNDIMSIRSPR X	ACCUMUL ATION	INTE GER	Number of Send IMSI: Respons e message s received.	MAPMMMSGPERF.SNDIMS IRSPRX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
UPLOCREQTX	ACCUMUL ATION	INTE GER	Number of Update Location : Request message s transmitt ed.	MAPMMMSGPERF.UPLOCR EQTX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
UPLOCRERX	ACCUMUL ATION	INTE GER	Number of Update Location : Return Error message s received.	MAPMMMSGPERF.UPLOCR ERX	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
UPLOCRSPRX	ACCUMUL ATION	INTE GER	Number of Update Location :	MAPMMMSGPERF.UPLOCR SPRX	Sum	alwnctb h, alwnotb h, alwnttb

			Response messages received.			h, Sum
--	--	--	-----------------------------	--	--	--------

7.24.17WSS_Node.Alcatel_Lucent.GSM.RANAP_Performance

RANAP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ANSMEMRGNCYCALLS	ACCUMULATION	INTEGER	Number of answered emergency calls	RANAPPERF.ANSMEMRGNCYCALLS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ANSMSORIGCALLS	ACCUMULATION	INTEGER	Number of answered calls for mobile originating traffic	RANAPPERF.ANSMSORIGCALLS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ANSMSTERCALLS	ACCUMULATION	INTEGER	Number of answered calls for mobile terminating traffic	RANAPPERF.ANSMSTERCALLS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTAUTH	ACCUMULATION	INTEGER	Number of	RANAPPERF.ATTAUTH	Sum	alwnc tbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	N	ER	attempted authentications Pegged when on attempt to send .authentication request. to mobile		alwno tbh, alwn ttbh, Sum
ATTINTERMSC2GTO3GHDI	ACCUMULATION	INTEGER	Number of attempted Inter MSC 2G to 3G handins. Pegged on receiving "MAP-Prep-Handover Req" and attempt is made to send relocation request to target RNC	RANAPPERF.ATTINTERMSC2GTO3GHDI	Sum alwnc tbh, alwno tbh, alwn ttbh, Sum
ATTINTERMSC2GTO3GHDO	ACCUMULATION	INTEGER	Number of attempted InterMSC 2G to 3G handover . Pegged on "Handov	RANAPPERF.ATTINTERMSC2GTO3GHDO	Sum alwnc tbh, alwno tbh, alwn ttbh, Sum

			er required" received from serving BSS and attempt is made to send .MAP- Prep- Handove r Req. to service MSC		
ATTINTERMSC3GTO2 GHDI	ACCUM ULATIO N	INT EG ER	Number of attempte d InterMS C 3G to 2G handins. Pegged on receiving .MAP- Prep- Handove r Req. and attempt is being made to send handover request to target BSS.	RANAPPERF.ATTINTERMSC 3GTO2GHDI	alwnc tbh, alwno tbh, alwnnt bh, Sum
				Sum	

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

ATTINTERMSC3GTO2GHDO	ACCUMULATION	INTEGER	Number of attempted InterMSC 3G to 2G handovers. Pegged on "Relocation required" message received from the serving RNC and attempt is made to send .MAP-Prep-Handover Req. to service MSC.	RANAPPERF.ATTINTERMSC3GTO2GHDO	Sum	alwnc tbh, alwno tbh, alwn ttbh, Sum
ATTINTERMSC3GTO3GHDI	ACCUMULATION	INTEGER	Number of attempted InterMSC 3G to 3G handins. Pegged on receiving send "MAP-PREP-HANDOVER	RANAPPERF.ATTINTERMSC3GTO3GHDI	Sum	alwnc tbh, alwno tbh, alwn ttbh, Sum

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

PD	ULATI ON	EG ER	of attempte d inter VLR location updates	LOCUPD		tbh, alwno tbh, alwnnt bh, Sum
ATTINTRAMSC2GTO 3GHDO	ACCUM ULATIO N	INT EG ER	Number of attempte d IntraMS C 2G to 3G handover s. Pegged at handover required from serving BSS and attempt is being made to send relocatio n required to target RNC.	RANAPPERF.ATTINTRAMSC 2GTO3GHDO	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTINTRAMSC3GTO 2GHDO	ACCUM ULATIO N	INT EG ER	Number of attempte d IntraMS C 3G to 2G handover s. Pegged on Relocati on Required	RANAPPERF.ATTINTRAMSC 3GTO2GHDO	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum

			received serving RNC and attempting to send .Handover request. to target BSS.		
ATTINTRAMSC3GTO3GHDO	ACCUMULATION	INTEGER	Number of attempted IntraMSC 3G to 3G handovers. Pegged on Relocation Required received serving RNC and attempting to send .Relocation request. to target RNC.	RANAPPERF.ATTINTRAMSC3GTO3GHDO	Sum alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTINTRAVLRLOCUPD	ACCUMULATION	INTEGER	Number of attempted intra VLR loc updates	RANAPPERF.ATTINTRAVLRLOCUPD	Sum alwnc tbh, alwno tbh, alwnnt bh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

						Sum
ATTMSEMRGNCYCALLS	ACCUMULATION	INTEGER	Number of emergency call attempts	RANAPPERF.ATTMSEMRGNCYCALLS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTMSORIGCALLS	ACCUMULATION	INTEGER	Number of call attempts for mobile originating traffic	RANAPPERF.ATTMSORIGCALLS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTMSTERCALLS	ACCUMULATION	INTEGER	Number of attempted calls for mobile terminating traffic	RANAPPERF.ATTMSTERCALLS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTPAGEMSIMSI	ACCUMULATION	INTEGER	Number of UMTS paging attempts with IMSI.	RANAPPERF.ATTPAGEMSIMSI	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTPAGEMSTMSI	ACCUMULATION	INTEGER	Number of UMTS paging attempts with TMSI.	RANAPPERF.ATTPAGEMSTMSI	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
ATTPERIINTRAVLRL OCUPD	ACCUMULATION	INTEGER	Number of attempted periodic	RANAPPERF.ATTPERIINTRAVLRL OCUPD	Sum	alwnc tbh, alwno tbh, alwnnt

			intra VLR location update		bh, Sum
ATTSEARCHMSIMSI	ACCUM ULATIO N	INT EG ER	Number of UMTS search attempts with IMSI.	RANAPPERF.ATTSEARCHM SIMSI	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
ATTTMSIREALOC	ACCUM ULATIO N	INT EG ER	Number of TMSI reallocati ons	RANAPPERF.ATTTMSIREAL OC	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
BLOCKEDHANDININ TERMSC	ACCUM ULATIO N	INT EG ER	Number of Blocked Handove rs for Hand In to MSC- A from MSC-B	RANAPPERF.BLOCKEDHAN DININTERMSC	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
BLOCKEDHANDOUTI NTERMSC	ACCUM ULATIO N	INT EG ER	Number of Blocked Handove rs for Inter MSC-B	RANAPPERF.BLOCKEDHAN DOUTINTERMSC	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
BLOCKEDHANDOUTI NTRAMSCB	ACCUM ULATIO N	INT EG ER	Number of Blocked Handove	RANAPPERF.BLOCKEDHAN DOUTINTRAMSCB	Sum alwnc tbh, alwno tbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			rs for Intra MSC in case of multiple MCC/M NC		alwntt bh, Sum
BLOCKEDSUBSHOOUTINTERMSC	ACCUM ULATION	INT EG ER	Number of Blocked Subsequ ent Handove rs for Inter MSC-C	RANAPPERF.BLOCKEDSUB SHOOUTINTERMSC	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
CALLVLRRGSTRDSUBFROMMOTHERPLMN	INTENSI TY	INT EG ER	Number of roamers registre d in the VLR	RANAPPERF.CALLVLRRGS TRDSUBFROMMOTHERPLMN	Aver age alwnc tbh, alwno tbh, alwntt bh, Avera ge, Maxi mum, Mini mum, Sum
DTRXR	ACCUM ULATION	INT EG ER	Number of Direct Transfers received	RANAPPERF.DTRXR	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
DTRXST	ACCUM ULATION	INT EG ER	Number of Direct Transfers sent	RANAPPERF.DTRXST	Sum alwnc tbh, alwno tbh, alwntt bh, Sum

IMSIATTACHPROCS	ACCUM ULATION	INT EG ER	Number of IMSI procedur es that involve an attach between one WSS area	RANAPPERF.IMSIATTACHP ROCS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
IMSIATTACHSUCC	ACCUM ULATION	INT EG ER	Number of success IMSI attach procedur es	RANAPPERF.IMSIATTACHS UCC	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
IMSIDETACHPROCS	ACCUM ULATION	INT EG ER	Number of IMSI produces that involve a detach between one WSS area	RANAPPERF.IMSIDETACHP ROCS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
IURELCMDSNT	ACCUM ULATION	INT EG ER	Number of Iu Release comman ds sent.	RANAPPERF.IURELCMDSNT	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
IURELRQRX	ACCUM ULATION	INT EG ER	Number of Iu Release Requests received.	RANAPPERF.IURELRQRX	Sum	alwnc tbh, alwno tbh, alwnnt bh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

						Sum
MSEMERGENCYCMS ERVCREQ	ACCUM ULATIO N	INT EG ER	MS Emergen cy CM service Request	RANAPPERF.MSEMERGENC YCMSERVCREQ	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
MSORIGCMSRVCREQ	ACCUM ULATIO N	INT EG ER	CM service Request From Originati ng MS	RANAPPERF.MSORIGCMSR VCREQ	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
NOINTUERX	ACCUM ULATIO N	INT EG ER	Number of successf ul initial UE received.	RANAPPERF.NOINTUERX	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
RABASSGNREQST	ACCUM ULATIO N	INT EG ER	Number of RAB Assignm ent Requests sent	RANAPPERF.RABASSGNRE QST	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
RABASSGNRESRX	ACCUM ULATIO N	INT EG ER	Number of RAB Assignm ent Respons es received	RANAPPERF.RABASSGNRE SRX	Sum	alwnc tbh, alwno tbh, alwntt bh, Sum
RABRELREQRX	ACCUM ULATIO N	INT EG ER	Number of RAB Release Requests received	RANAPPERF.RABRELREQR X	Sum	alwnc tbh, alwno tbh, alwntt bh,

						Sum
RELOCCANCELAKNSNT	ACCUMULATION	INTEGER	Number of Relocation Cancel Acknowledgements sent.	RANAPPERF.RELOCCANCELAKNSNT	Sum	alwnc tbh, alwno tbh, alwnntb bh, Sum
RELOCCANCELRX	ACCUMULATION	INTEGER	Number of Relocation Cancels received	RANAPPERF.RELOCCANCELRX	Sum	alwnc tbh, alwno tbh, alwnntb bh, Sum
RELOCCMPRX	ACCUMULATION	INTEGER	Number of Relocation Completes received	RANAPPERF.RELOCCMPRX	Sum	alwnc tbh, alwno tbh, alwnntb bh, Sum
RELOCDETRX	ACCUMULATION	INTEGER	Number of Relocation Detects received.	RANAPPERF.RELOCDETRX	Sum	alwnc tbh, alwno tbh, alwnntb bh, Sum
RELOCREQRX	ACCUMULATION	INTEGER	Number of Relocation Required received.	RANAPPERF.RELOCREQRX	Sum	alwnc tbh, alwno tbh, alwnntb bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

RELOCREQSNT	ACCUM ULATIO N	INT EG ER	Number of Relocati on Requests sent.	RANAPPERF.RELOCREQSN T	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SECMODECOMMAND TX	ACCUM ULATIO N	INT EG ER	Number of Security Mode Comman d Transmit ted.	RANAPPERF.SECMODECOM MANDTX	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SECMODECOMPLETE RX	ACCUM ULATIO N	INT EG ER	Number of Security Mode Comple te received.	RANAPPERF.SECMODECOM PLETERX	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCAUTH	ACCUM ULATIO N	INT EG ER	Number of successf ul authentic ations. Pegged when .authenti cation response. is received by the WSS	RANAPPERF.SUCCAUTH	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCCTMSIREALOC	ACCUM ULATIO N	INT EG ER	Num successf ul performe d TMSI re-	RANAPPERF.SUCCCTMSIRE ALOC	Sum	alwnc tbh, alwno tbh, alwnnt bh,

			allocation			Sum
SUCCINTERINHOCTMCALLS	ACCUMULATION	INTEGER	Number of successful Incoming Inter-MSCH for UMTS CTM Calls	RANAPPERF.SUCCINTERINHOCTMCALLS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCINTERINHOH324MCALLS	ACCUMULATION	INTEGER	Number of successful Incoming Inter-MSCH for UMTS H324M Calls	RANAPPERF.SUCCINTERINHOH324MCALLS	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCINTERMSC2GT03GHDI	ACCUMULATION	INTEGER	Number of successful InterMSC 2G to 3G handins. Pegged on receiving relocation complete from	RANAPPERF.SUCCINTERMSC2GT03GHDI	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			target RNC.		
SUCCINTERMSC2GT O3GHDO	ACCUM ULATIO N	INT EG ER	Number of successf ul InterMS C 2G to 3G handover . Pegged on "MAP- Send- End- Signal req" received by the anchor MSC.	RANAPPERF.SUCCINTERMS C2GTO3GHDO	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
SUCCINTERMSC3GT O2GHDI	ACCUM ULATIO N	INT EG ER	Number of successf ul InterMS C 3G to 2G handins. Pegged receiving handover complete from target BSS.	RANAPPERF.SUCCINTERMS C3GTO2GHDI	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
SUCCINTERMSC3GT O2GHDO	ACCUM ULATIO N	INT EG ER	Number of successf ul InterMS C 3G to 2G handover	RANAPPERF.SUCCINTERMS C3GTO2GHDO	Sum alwnc tbh, alwno tbh, alwntt bh, Sum

			. Pegged on "MAP-Send-End-Signal req" received by the anchor MSC.		
SUCCINTERMSC3GT O3GHDI	ACCUM ULATION	INTER EG ER	Number of successful InterMSC 3G to 3G handins. Pegged receiving relocation complete from target RNC.	RANAPPERF.SUCCINTERMS C3GTO3GHDI	Sum alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCINTERMSC3GT O3GHDO	ACCUM ULATION	INTER EG ER	Number of successful InterMSC 3G to 3G handovers. Pegged on "MAP-Send-	RANAPPERF.SUCCINTERMS C3GTO3GHDO	Sum alwnc tbh, alwno tbh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			End-Signal req" received by the anchor MSC.		
SUCCINTEROUTHOC TMCALLS	ACCUM ULATION	INT EG ER	Number of successful Outgoing Inter-MSC HO for UMTS CTM Calls	RANAPPERF.SUCCINTEROUTHOC TMCALLS	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
SUCCINTEROUTHOH 324MCALLS	ACCUM ULATION	INT EG ER	Number of successful Outgoing Inter-MSC HO for UMTS H324M Calls	RANAPPERF.SUCCINTEROUTHOH 324MCALLS	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
SUCCINTERVLRLOC UPD	ACCUM ULATION	INT EG ER	Number of successful inter VLR location updates	RANAPPERF.SUCCINTERVLR LOCUPD	Sum alwnc tbh, alwno tbh, alwntt bh, Sum
SUCCINTRAHOC TMCALLS	ACCUM ULATION	INT EG ER	Number of successful Intra MSC HO for UMTS	RANAPPERF.SUCCINTRAHOC TMCALLS	Sum alwnc tbh, alwno tbh, alwntt bh, Sum

			CTM Calls		
SUCCINTRAH324M CALLS	ACCUMULATION	INTEGER	Number of successful Intra MSC HO for UMTS H324M Calls	RANAPPERF.SUCCINTRAH324M CALLS	Sum alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCINTRAMSC2GTO3GHDO	ACCUMULATION	INTEGER	Number of successful IntraMSC 2G to 3G handover . Pegged on Relocation Complete received from target RNCs	RANAPPERF.SUCCINTRAMSC2GTO3GHDO	Sum alwnc tbh, alwno tbh, alwnnt bh, Sum
SUCCINTRAMSC3GTO2GHDO	ACCUMULATION	INTEGER	Number of successful IntraMSC 3G to 2G handovers. Pegged	RANAPPERF.SUCCINTRAMSC3GTO2GHDO	Sum alwnc tbh, alwno tbh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			on Handover complete received from target BSS		
SUCCINTRAMSC3GTO3GHDO	ACCUMULATION	INTEGER	Number of successful IntraMSC 3G to 3G handovers. Pegged on Relocation Complete received from target RNC.	RANAPPERF.SUCCINTRAMSC3GTO3GHDO	Sum alwnc tbh, alwno tbh, alwn ttbh, Sum
SUCCINTRAVLRLOCUPD	ACCUMULATION	INTEGER	Number of successful intra VLR loc updates	RANAPPERF.SUCCINTRAVLRLOCUPD	Sum alwnc tbh, alwno tbh, alwn ttbh, Sum
SUCCMSEMRGNCYCALLS	ACCUMULATION	INTEGER	Number of successful emergency calls	RANAPPERF.SUCCMSEMRGNCYCALLS	Sum alwnc tbh, alwno tbh, alwn ttbh, Sum
SUCCMSORIGCALLS	ACCUMULATION	INTEGER	Number of	RANAPPERF.SUCCMSORIGCALLS	Sum alwnc tbh,

	N	ER	successful calls for mobile originating traffic		alwno tbh, alwnntb bh, Sum
SUCCMSTERCALLS	ACCUM ULATION	INTEGER	Number of successful calls for mobile terminating traffic	RANAPPERF.SUCCMSTERCALLS	Sum alwnc tbh, alwno tbh, alwnntb bh, Sum
SUCCPAGEMSIMSI	ACCUM ULATION	INTEGER	Number of UMTS paging success with IMSI.	RANAPPERF.SUCCPAGEMSIMSI	Sum alwnc tbh, alwno tbh, alwnntb bh, Sum
SUCCPAGEMSTMSI	ACCUM ULATION	INTEGER	Number of UMTS paging success with TMSI.	RANAPPERF.SUCCPAGEMSTMSI	Sum alwnc tbh, alwno tbh, alwnntb bh, Sum
SUCCPERIINTRAVLRLOCUPD	ACCUM ULATION	INTEGER	Number of successful periodic intra VLR location update	RANAPPERF.SUCCPERIINTRAVLRLOCUPD	Sum alwnc tbh, alwno tbh, alwnntb bh, Sum
SUCCSEARCHMSIMSI	ACCUM	INT	Number	RANAPPERF.SUCCSEARCH	Sum alwnc

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	ULATIO N	EG ER	of UMTS search success with IMSI.	MSIMSI		tbh, alwno tbh, alwnnt bh, Sum
TOTALACTIVESUB	INTENSI TY	INT EG ER	Number of active subscribe rs	RANAPPERF.TOTALACTIVE SUB	Aver age	alwnc tbh, alwno tbh, alwnnt bh, Avera ge, Maxi mum, Mini mum, Sum
TRANSSUBIDWTMSI	ACCUM ULATIO N	INT EG ER	Num Transacti on where mobile subscribe r was	RANAPPERF.TRANSSUBID WTMSI	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
UNSCCEXTHDOLOSS CNCTPERMSC	ACCUM ULATIO N	INT EG ER	Number of unsucces sful handover s with loss of call	RANAPPERF.UNSCCEXTHD OLOSSCNCTPERMSC	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum
UNSCCEXTHDOREC NCTPERMSC	ACCUM ULATIO N	INT EG ER	Number of unsucces sful Handove rs with reconnec t to the original	RANAPPERF.UNSCCEXTHD ORECNCTPERMSC	Sum	alwnc tbh, alwno tbh, alwnnt bh, Sum

			channels		
--	--	--	----------	--	--

7.24.18WSS_Node.Alcatel_Lucent.GSM.SCCP_Performance

SCCP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SCCPGENPFMCREFRX	ACCUMULATION	INTEGER	Number of times the CREF messages received	SYSSCCPPERF.SCCPGENPFMCREFRX	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
SCCPGENPFMCREFTX	ACCUMULATION	INTEGER	Number of times the CREF messages sent	SYSSCCPPERF.SCCPGENPFMCREFTX	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
SCCPGENPFMCRRX	ACCUMULATION	INTEGER	Number of times the CR messages received.	SYSSCCPPERF.SCCPGENPFMCRRX	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
SCCPGENPFMCRTX	ACCUMULATION	INTEGER	Number of times the CR	SYSSCCPPERF.SCCPGENPFMCRTX	Sum	alwnctbh, alwnotbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages sent			alwnttbh, Sum
SCCPGENPFMERRNOSPC	ACCUMULATION	INTEGER	Number of times the Reassembly no space error	SYSSCCPPERF.SCCPGENPFMERRNOSPC	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SCCPGENPFMERRRX	ACCUMULATION	INTEGER	Number of times the ERR messages received	SYSSCCPPERF.SCCPGENPFMERRRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SCCPGENPFMERRTIMEXP	ACCUMULATION	INTEGER	Number of times the Reassembly time expired error	SYSSCCPPERF.SCCPGENPFMERRTIMEXP	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SCCPGENPFMERRTX	ACCUMULATION	INTEGER	Number of times the ERR messages sent	SYSSCCPPERF.SCCPGENPFMERRTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SCCPGENPFMGTTTRANREQ	ACCUMULATION	INTEGER	Number of messages requiring Global	SYSSCCPPERF.SCCPGENPFMGTTTRANREQ	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

			Title Transl ation (GTT).			
SCCPGENPFMIUD TRX	ACCUMU LATION	INTE GER	Numbe r of ITU96 unit data messag es receive d.	SYSSCCPPERF.SCCPGENPF MIUDTRX	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMIUD TSRX	ACCUMU LATION	INTE GER	Numbe r of ITU96 unit data messag es service receive d.	SYSSCCPPERF.SCCPGENPF MIUDTSRX	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMIUD TSTX	ACCUMU LATION	INTE GER	Numbe r of ITU96 unit data service messag es transm itted.	SYSSCCPPERF.SCCPGENPF MIUDTSTX	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMIUD TTX	ACCUMU LATION	INTE GER	Numbe r of ITU96 unit data	SYSSCCPPERF.SCCPGENPF MIUDTTX	Sum	alwnctb h, alwnot bh, alwnntb

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages transmitted.			h, Sum
SCCPGENPFMMSGLOC	ACCUMULATION	INTEGER	Number of inbound messages intended for local subsystem.	SYSSCCPPERF.SCCPGENPFMMMSGLOC	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMMSGRX0	ACCUMULATION	INTEGER	Number of class 0 messages received.	SYSSCCPPERF.SCCPGENPFMMMSGRX0	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMMSGRX1	ACCUMULATION	INTEGER	Number of class 1 messages received.	SYSSCCPPERF.SCCPGENPFMMMSGRX1	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMMSGTX0	ACCUMULATION	INTEGER	Number of class 0 messages transmitted.	SYSSCCPPERF.SCCPGENPFMMMSGTX0	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMMSGTX1	ACCUMULATION	INTEGER	Number of class 1 messages transmitted.	SYSSCCPPERF.SCCPGENPFMMMSGTX1	Sum	alwnctbh, alwnotbh, alwnctbh, Sum

			itted.			
SCCPGENPFMPRV INITREL	ACCUMU LATION	INTE GER	Numbe r of times the SCCP layer initiate d release s.	SYSSCCPPERF.SCCPGENPF MPRVINITREL	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMPRV INITRESET	ACCUMU LATION	INTE GER	Numbe r of times the SCCP layer initiate d resets.	SYSSCCPPERF.SCCPGENPF MPRVINITRESET	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMREA SSEMERR	ACCUMU LATION	INTE GER	Numbe r of times the Reasse mby out of sequen ce error	SYSSCCPPERF.SCCPGENPF MREASSEMERR	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMRFH OPVIOLATE	ACCUMU LATION	INTE GER	Numbe r of routing failure s due to hop counte r	SYSSCCPPERF.SCCPGENPF MRFHOPVIOLATE	Sum	alwnctb h, alwnot bh, alwnntb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			violati on.			
SCCPGENPFMRFN ETCONG	ACCUMU LATION	INTE GER	Numbe r of routing failure s due to networ k conges tion.	SYSSCCPPERF.SCCPGENPF MRFNETCONG	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMRFN ETFAIL	ACCUMU LATION	INTE GER	Numbe r of routing failure due to networ k failure (point code unavail able).	SYSSCCPPERF.SCCPGENPF MRFNETFAIL	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMRFN TASN	ACCUMU LATION	INTE GER	Numbe r of routing failure s due to no translat ion for addres s of such nature.	SYSSCCPPERF.SCCPGENPF MRFNTASN	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMRFN TSA	ACCUMU LATION	INTE GER	Numbe r of routing failure s due to no translat	SYSSCCPPERF.SCCPGENPF MRFNTSA	Sum	alwnctb h, alwnot bh, alwnntb h, Sum

			ion for this specifi c addres s.			
SCCPGENPFMRFS SNCONG	ACCUMU LATION	INTE GER	Numbe r of routing failure s due to sub- system conges tion.	SYSSCCPPERF.SCCPGENPF MRFSSNCONG	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMRFS SNFAIL	ACCUMU LATION	INTE GER	Numbe r of routing failure s due to sub- system failure.	SYSSCCPPERF.SCCPGENPF MRFSSNFAIL	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMRFU NEQUIP	ACCUMU LATION	INTE GER	Numbe r of routing failure s due to unequi pped user.	SYSSCCPPERF.SCCPGENPF MRFUNEQUIP	Sum	alwnctb h, alwnot bh, alwnntb h, Sum
SCCPGENPFMRFU NKNOWN	ACCUMU LATION	INTE GER	Numbe r of routing failure s due to	SYSSCCPPERF.SCCPGENPF MRFUNKNOWN	Sum	alwnctb h, alwnot bh, alwnntb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			unkno wn reason.			
SCCPGENPFMRLSCMPFAIL	ACCUMULATION	INTEGER	Number of times the Release Complete fail.	SYSSCCPPERF.SCCPGENPFMRLSCMPFAIL	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
SCCPGENPFMRSRRX	ACCUMULATION	INTEGER	Number of times the RSR messages received	SYSSCCPPERF.SCCPGENPFMRSRRX	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
SCCPGENPFMRSRTX	ACCUMULATION	INTEGER	Number of times the RSR messages sent	SYSSCCPPERF.SCCPGENPFMRSRTX	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
SCCPGENPFMSEGERRFAIL	ACCUMULATION	INTEGER	Number of times the Segment message fail	SYSSCCPPERF.SCCPGENPFMSEGERRFAIL	Sum	alwnctbh, alwnotbh, alwncttbh, Sum
SCCPGENPFMSEGERR	ACCUMULATION	INTEGER	Number of times the Segment message	SYSSCCPPERF.SCCPGENPFMSEGERR	Sum	alwnctbh, alwnotbh, alwncttbh, Sum

			e too large			
SCCPGENPFMSSCONGRX	ACCUMULATION	INTEGER	Number of times the SS Congest messages received	SYSSCCPPERF.SCCPGENPFMSSCONGRX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMSSPROHRX	ACCUMULATION	INTEGER	Number of times the SS Prohibit messages received	SYSSCCPPERF.SCCPGENPFMSSPROHRX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMSYNERROR	ACCUMULATION	INTEGER	Number of routing failures due to syntax error.	SYSSCCPPERF.SCCPGENPFMSYNERROR	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMTIMEREXP	ACCUMULATION	INTEGER	Number of times the SCCP connection inactive	SYSSCCPPERF.SCCPGENPFMTIMEREXP	Sum	alwnctbh, alwnotbh, alwnctbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			ity timer expire d.			
SCCPGENPFMTOTALMSG	ACCUMULATION	INTEGER	Number of messages handled (total inbound).	SYSSCCPPERF.SCCPGENPFMTOTALMSG	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMUDTRX	ACCUMULATION	INTEGER	Number of unit data messages received.	SYSSCCPPERF.SCCPGENPFMUDTRX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMUDTSRX	ACCUMULATION	INTEGER	Number of unit data service messages received.	SYSSCCPPERF.SCCPGENPFMUDTSRX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMUDTSTX	ACCUMULATION	INTEGER	Number of unit data service messages transmitted.	SYSSCCPPERF.SCCPGENPFMUDTSTX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCCPGENPFMUDTTX	ACCUMULATION	INTEGER	Number of unit data messages	SYSSCCPPERF.SCCPGENPFMUDTTX	Sum	alwnctbh, alwnotbh, alwnctbh

			e transm itted.			h, Sum
SCCPGENPFMXU DTRX	ACCUMU LATION	INTE GER	Numbe r of extend ed unit data messag es receive d.	SYSSCCPPERF.SCCPGENPF MXUDTRX	Sum	alwnctb h, alwnot bh, alwnctb h, Sum
SCCPGENPFMXU DTSRX	ACCUMU LATION	INTE GER	Numbe r of extend ed unit data service messag es receive d.	SYSSCCPPERF.SCCPGENPF MXUDTSRX	Sum	alwnctb h, alwnot bh, alwnctb h, Sum
SCCPGENPFMXU DTSTX	ACCUMU LATION	INTE GER	Numbe r of extend ed unit data service messag es transm itted.	SYSSCCPPERF.SCCPGENPF MXUDTSTX	Sum	alwnctb h, alwnot bh, alwnctb h, Sum
SCCPGENPFMXU DTTX	ACCUMU LATION	INTE GER	Numbe r of extend ed unit data messag	SYSSCCPPERF.SCCPGENPF MXUDTTX	Sum	alwnctb h, alwnot bh, alwnctb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			es transm itted.			
--	--	--	------------------------	--	--	--

7.24.19WSS_Node.Alcatel_Lucent.GSM.SCCP_Relay_Performance

SCCP Relay Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
NUMTRANSLATION	ACCUMULATION	INTEGER	Number of routing failures due to no translation for this specific address.	SYSSCCPRELAYPERF.NUMTRANSLATION	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RELAYERDROP	ACCUMULATION	INTEGER	Number of routing failure due to network failure (point code unavailable).	SYSSCCPRELAYPERF.RELAYERDROP	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RELAYRX	ACCUMULATION	INTEGER	Number of routing failures due to no translation for address of such nature.	SYSSCCPRELAYPERF.RELAYRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

RELAYTX	ACCUMULATION	INTEGER	Total number of relay messages transmitted by DDF.	SYSSCCPRELAYPERF.RELAYTX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
---------	--------------	---------	--	--------------------------	-----	--

7.24.20WSS_Node.Alcatel_Lucent.GSM.SCTP_IP_Performance

SCTP IP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SCTPCOCKIEACKRX	ACCUMULATION	INTEGER	COOKIE ACK chunk received.	SYSSCTPIPPERF.SCTPCOCKIEACKRX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCTPCOCKIEACKTX	ACCUMULATION	INTEGER	COOKIE ACK chunk is sent o acknowledge the receipt of COOKIE chunk	SYSSCTPIPPERF.SCTPCOCKIEACKTX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum
SCTPCOCKIERETX	ACCUMULATION	INTEGER	COOKIE chunk resent.	SYSSCTPIPPERF.SCTPCOCKIERETX	Sum	alwnctbh, alwnotbh, alwnctbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

						bh, Sum
SCTPCOCKIERX	ACCUMULATION	INTEGER	COOKIE chunk received.	SYSSCTPIPPERF.SCTPCOCKIERX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPCOCKIETX	ACCUMULATION	INTEGER	COOKIE chunk is sent to PSP during initiation process	SYSSCTPIPPERF.SCTPCOCKIETX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPDATARETX	ACCUMULATION	INTEGER	Number of data chunk resent	SYSSCTPIPPERF.SCTPDATARETX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPDATARX	ACCUMULATION	INTEGER	Number of data chunk received	SYSSCTPIPPERF.SCTPDATARX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPDATATX	ACCUMULATION	INTEGER	Number of data chunk sent	SYSSCTPIPPERF.SCTPDATATX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPHEARTBEATACKRX	ACCUMULATION	INTEGER	HEARTBEATACK chunk received	SYSSCTPIPPERF.SCTPHEARTBEATACKRX	Sum	alwnct bh, alwnot bh, alwnntt

						bh, Sum
SCTPHEARTBEATACKTX	ACCUMULATION	INTEGER	HEARTBEATACK chunk sent to acknowledge the receipt of heartbeat.	SYSSCTPIPPERF.SCTPHEARTBEATACKTX	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SCTPHEARTBEATRX	ACCUMULATION	INTEGER	HEARTBEAT chunk received from PSP	SYSSCTPIPPERF.SCTPHEARTBEATRX	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SCTPHEARTBEATTX	ACCUMULATION	INTEGER	HEARTBEAT chunk sent to PSP	SYSSCTPIPPERF.SCTPHEARTBEATTX	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SCTPINITACKRX	ACCUMULATION	INTEGER	INITACK received to acknowledge receipt of INIT chunk.	SYSSCTPIPPERF.SCTPINITACKRX	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum
SCTPINITACKTX	ACCUMULATION	INTEGER	INITACK is sent to acknowledge receipt of INIT chunk.	SYSSCTPIPPERF.SCTPINITACKTX	Sum	alwnct bh, alwnot bh, alwnnt bh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

SCTPINITRETX	ACCUMULATION	INTEGER	Number of INIT chunk retransmission sent	SYSSCTPIPPERF.SCTPINITRETX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPINITRX	ACCUMULATION	INTEGER	Number of Init chunk received	SYSSCTPIPPERF.SCTPINITRX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPINITTX	ACCUMULATION	INTEGER	INIT chunk is sent to PSP to initiate SCTP association.	SYSSCTPIPPERF.SCTPINITTX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPOCTRX	ACCUMULATION	INTEGER	Total Number of SCTP octets received.	SYSSCTPIPPERF.SCTPOCTRX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPOCTTX	ACCUMULATION	INTEGER	Total Number of SCTP octets sent	SYSSCTPIPPERF.SCTPOCTTX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPSACKRX	ACCUMULATION	INTEGER	Number of SACK chunk received.	SYSSCTPIPPERF.SCTPSACKRX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum

SCTPSACKTX	ACCUMULATION	INTEGER	Number of SACK chunk sent to acknowledge the receipt of DATA chunk.	SYSSCTPIPPERF.SCTPSACKTX	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
SCTPSHUTDOWNACKRETX	ACCUMULATION	INTEGER	SHUTDOWNACK retransmitted	SYSSCTPIPPERF.SCTPSHUTDOWNACKRETX	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
SCTPSHUTDOWNACKRX	ACCUMULATION	INTEGER	SHUTDOWNACK received.	SYSSCTPIPPERF.SCTPSHUTDOWNACKRX	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
SCTPSHUTDOWNACKTX	ACCUMULATION	INTEGER	SHUTDOWNACK is used to acknowledge the receipt of SHUTDOWN chunk	SYSSCTPIPPERF.SCTPSHUTDOWNACKTX	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
SCTPSHUTDOWNCOMPLETERX	ACCUMULATION	INTEGER	The shutdown complete chunk received.	SYSSCTPIPPERF.SCTPSHUTDOWNCOMPLETERX	Sum	alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

SCTPSHUTDOWN COMPLETETX	ACCUMU LATION	INT EGE R	The shutdown complete chunk sent to concludes the shutdown procedure	SYSSCTPIPPERF.SCTPSHU TDOWNCOMPLETETX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPSHUTDOWN RETX	ACCUMU LATION	INT EGE R	The shutdown chunks retransmitt ed.	SYSSCTPIPPERF.SCTPSHU TDOWNRETX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPSHUTDOWN RX	ACCUMU LATION	INT EGE R	The shutdown chunk received.	SYSSCTPIPPERF.SCTPSHU TDOWNRX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum
SCTPSHUTDOWN TX	ACCUMU LATION	INT EGE R	The shutdown chunk is sent, it triggers graceful associatio n with a PSP.	SYSSCTPIPPERF.SCTPSHU TDOWNTX	Sum	alwnct bh, alwnot bh, alwnntt bh, Sum

7.24.21WSS_Node.Alcatel_Lucent.GSM.SMS_MAP_Performance

SMS MAP Statistics

KPI	Type	Data Type	Description	Derivation	Defaul t Aggre gator	Other Aggreg ators
FWDSMREQ TX	ACCUMUL ATION	INTE GER	Number of Forward	MAPSMSMSGPERF.FWDS MREQTX	Sum	alwnctb h,

			Short Message (MAP-MO-FORWARD - SHORTMESSAGE): Request messages transmitted from the serving MSC.			alwnotbh, alwnttbh, Sum
FWDSMRERX	ACCUMULATION	INTEGER	Number of Forward Short Message (MAP-MO-FORWARD - SHORTMESSAGE): Return Error messages received by the serving MSC.	MAPSMSMSGPERF.FWDSMRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
FWDSMRSPRX	ACCUMULATION	INTEGER	Number of Forward Short Message (MAP-MO-FORWARD - SHORTMESSAGE): Response messages received by the serving	MAPSMSMSGPERF.FWDSMRSPRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			MSC.		
MTFWDSMR EQRX	ACCUMUL ATION	INTE GER	Number of Mobile Terminated Forward Short Message (MAP-Mt- FORWARD -SHORT- MESSAGE) : Request messages received by the serving MSC.	MAPSMSMSGPERF.MTFW DSMREQRX	Sum alwnctb h, alwnotb h, alwnttb h, Sum
MTFWDSMR ETX	ACCUMUL ATION	INTE GER	Number of Mobile Terminated Forward Short Message (MAP- MTFORWA RD- SHORT- MESSAGE) : Return Error messages transmitted from the serving MSC.	MAPSMSMSGPERF.MTFW DSMRETX	Sum alwnctb h, alwnotb h, alwnttb h, Sum
MTFWDSMR SPTX	ACCUMUL ATION	INTE GER	Number of Mobile Terminated Forward Short Message (MAP- MTFORWA RD- SHORT-	MAPSMSMSGPERF.MTFW DSMRSPTX	Sum alwnctb h, alwnotb h, alwnttb h, Sum

			MESSAGE) : Response messages transmitted from the serving MSC.		
NOTSUBPRE SREQRX	ACCUMUL ATION	INTE GER	Number of Notify Subscriber Present: Request messages received. This is equivalent of MAP- READY- FOR-SM response message for MAP v1.0	MAPSMSMSGPERF.NOTS UBPRESREQRX	Sum alwnctb h, alwnotb h, alwnttb h, Sum
NOTSUBPRE SREQTX	ACCUMUL ATION	INTE GER	Number of Notify Subscriber Present: Request messages transmitted. This is same equivalent of MAP- READY- FOR-SM for MAP v1.0	MAPSMSMSGPERF.NOTS UBPRESREQTX	Sum alwnctb h, alwnotb h, alwnttb h, Sum
SMRDYREQT X	ACCUMUL ATION	INTE GER	Number of Short Message Ready	MAPSMSMSGPERF.SMRD YREQTX	Sum alwnctb h, alwnotb h,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			(MAP-READY-FOR-SM): Request messages transmitted by the serving MSC to indicate memory available situation to the HLR.			alwnttbh, Sum
SMRDYRERX	ACCUMULATION	INTEGER	Number of Short Message Ready (MAP-READY-FOR-SM): Return messages received from HLR.	MAPSMSMSGPERF.SMRDYRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
SMRDYRSPRX	ACCUMULATION	INTEGER	Number of Short Message Ready (MAP-READY-FOR-SM response): Response messages received from HLR.	MAPSMSMSGPERF.SMRDYRSPRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

7.24.22WSS_Node.Alcatel_Lucent.GSM.SMS_Performance

SMS Statistics

KPI	Type	Data Type	Description	Derivation	Default	Other Aggreg
-----	------	-----------	-------------	------------	---------	--------------

					Aggre gator	ators
CALLATTMSOR GSMS	ACCUMUL ATION	INTE GER	Numbe r of attempt ed SMS transact ions for mobile originat ing traffic pegged when RP Data is receive d from MS.	BSSAPSMSPERF.CALLATT MSORGSMS	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
CALLATTMSTE RMSMS	ACCUMUL ATION	INTE GER	Numbe r of attempt ed SMS transact ions for mobile termina ting traffic pegged when attempt is made to send RP Data to the MS.	BSSAPSMSPERF.CALLATT MSTERMSMS	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CALLSUCCMSORGSMS	ACCUMULATION	INTEGER	Number of successful SMS transactions for mobile originating traffic pegged when attempt is made to send RP_ACK to MS.	BSSAPSMSPERF.CALLSUCCMSORGSMS	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
CALLSUCCMSTERMSMS	ACCUMULATION	INTEGER	Number of successful SMS transactions for mobile terminating traffic pegged when RP_ACK is received from the MS.	BSSAPSMSPERF.CALLSUCCMSTERMSMS	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

7.24.23WSS_Node.Alcatel_Lucent.GSM.Subscriber_MAP_Performance

Subscribers MAP Statistics

KPI	Type	Data Type	Description	Derivation	Default	Other Aggreg
-----	------	-----------	-------------	------------	---------	--------------

					Aggre gator	ators
RESCALLHANDLREQRX	ACCUMULATION	INTEGER	Number of Resume Call Handling: Request messages received.	MAPSPMMSGPERF.RESCALLHANDLREQRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RESCALLHANDLREQTX	ACCUMULATION	INTEGER	Number of Resume Call Handling: Request messages transmitted.	MAPSPMMSGPERF.RESCALLHANDLREQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RESCALLHANDLRERX	ACCUMULATION	INTEGER	Number of Resume Call Handling: Return Error messages received.	MAPSPMMSGPERF.RESCALLHANDLRERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

RESCALLHANDLRET	ACCUMULATION	INTEGER	Number of Resume Call Handling: Return Error messages transmitted.	MAPSPMMSGPERF.RESCALLHANDLRET	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RESCALLHANDLRSR	ACCUMULATION	INTEGER	Number of Resume Call Handling: Response messages received.	MAPSPMMSGPERF.RESCALLHANDLRSR	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
RESCALLHANDLRSPT	ACCUMULATION	INTEGER	Number of Resume Call Handling: Response messages transmitted.	MAPSPMMSGPERF.RESCALLHANDLRSPT	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ROUTINFOREQTX	ACCUMULATION	INTEGER	Number of Send Route Info: Request messages	MAPSPMMSGPERF.ROUTINFOREQTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

			es transmi tted.			
ROUTINFORERX	ACCUMULATION	INTEGER	Numbe r of Send Route Info: Return Error messag es receiv ed.	MAPSPMMSGPERF.ROUTINFORERX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
ROUTINFORSPRX	ACCUMULATION	INTEGER	Numbe r of Send Route Info: Respon se messag es receiv ed.	MAPSPMMSGPERF.ROUTINFORSPRX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

7.24.24WSS_Node.Alcatel_Lucent.GSM.TUP_Performance

TUP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
TUPPFMACBRX	ACCUMULATION	INTEGER	Access Barred Signal messages received.	SYSTUPPERF.TUPPFMACBRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

TUPPFMAC BTX	ACCUMULA TION	INTEG ER	Access Barred Signal messages transmitted.	SYSTUPPERF.TUPPF MACBTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAC CRX	ACCUMULA TION	INTEG ER	Automatic Congestion Control Information messages received.	SYSTUPPERF.TUPPF MACCRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAC CTX	ACCUMULA TION	INTEG ER	Automatic Congestion Control Information messages transmitted.	SYSTUPPERF.TUPPF MACCTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAC MRX	ACCUMULA TION	INTEG ER	Address Complete messages received.	SYSTUPPERF.TUPPF MACMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAC MTX	ACCUMULA TION	INTEG ER	Address Complete messages transmitted.	SYSTUPPERF.TUPPF MACMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMADI RX	ACCUMULA TION	INTEG ER	Address Incomplete Signal messages received.	SYSTUPPERF.TUPPF MADIRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMADI TX	ACCUMULA TION	INTEG ER	Address Incomplete Signal messages transmitted.	SYSTUPPERF.TUPPF MADITX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

TUPPFMAN CRX	ACCUMULA TION	INTEG ER	Answer Signal,charge messages received.	SYSTUPPERF.TUPPF MANCRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAN CTX	ACCUMULA TION	INTEG ER	Answer Signal,charge messages transmitted.	SYSTUPPERF.TUPPF MANCTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAN NRX	ACCUMULA TION	INTEG ER	Answer Signal,No charge messages received.	SYSTUPPERF.TUPPF MANNRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAN NTX	ACCUMULA TION	INTEG ER	Answer Signal,No charge messages transmitted.	SYSTUPPERF.TUPPF MANNTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAN URX	ACCUMULA TION	INTEG ER	Answer Signal,Unqua lified messages received.	SYSTUPPERF.TUPPF MANURX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMAN UTX	ACCUMULA TION	INTEG ER	Answer Signal,Unqua lified messages transmitted.	SYSTUPPERF.TUPPF MANUTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMBL	ACCUMULA	INTEG	Blocking-	SYSTUPPERF.TUPPF	Sum	alwnctbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

ARX	TION	ER	acknowledge ment signal messages received.	MBLARX		, alwnotbh , alwnttbh, Sum
TUPPFMBL ATX	ACCUMULA TION	INTEG ER	Blocking- acknowledge ment signal messages transmitted.	SYSTUPPERF.TUPPF MBLATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMBL ORX	ACCUMULA TION	INTEG ER	Blocking Signal messages received.	SYSTUPPERF.TUPPF MBLORX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMBL OTX	ACCUMULA TION	INTEG ER	Blocking Signal messages transmitted.	SYSTUPPERF.TUPPF MBLOTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCB KRX	ACCUMULA TION	INTEG ER	Clear-Back Signal messages received.	SYSTUPPERF.TUPPF MCBKRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCB KTX	ACCUMULA TION	INTEG ER	Clear-Back Signal messages transmitted.	SYSTUPPERF.TUPPF MCBKTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCC FRX	ACCUMULA TION	INTEG ER	Continuity- Failure Signal messages received.	SYSTUPPERF.TUPPF MCCFRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

TUPPFMCC LRX	ACCUMULA TION	INTEG ER	Calling Party Clear Signal messages received.	SYSTUPPERF.TUPPF MCCLRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCC LTX	ACCUMULA TION	INTEG ER	Calling Party Clear Signal messages transmitted.	SYSTUPPERF.TUPPF MCCLTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCC RRX	ACCUMULA TION	INTEG ER	Continuity- Check- Request Signal messages received.	SYSTUPPERF.TUPPF MCCRXX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCC RTX	ACCUMULA TION	INTEG ER	Continuity- Check- Request Signal messages transmitted.	SYSTUPPERF.TUPPF MCCRTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCFL RX	ACCUMULA TION	INTEG ER	Call-Failure Signal messages received.	SYSTUPPERF.TUPPF MCFLRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCFL TX	ACCUMULA TION	INTEG ER	Call-Failure Signal messages transmitted.	SYSTUPPERF.TUPPF MCFLTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCG	ACCUMULA	INTEG	Circuit-	SYSTUPPERF.TUPPF	Sum	alwnctbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

CRX	TION	ER	Group- Congestion Signal messages received.	MCGCRX		, alwnotbh , alwnttbh, Sum
TUPPFMCG CTX	ACCUMULA TION	INTEG ER	Circuit- Group- Congestion Signal messages transmitted.	SYSTUPPERF.TUPPF MCGCTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCH GRX	ACCUMULA TION	INTEG ER	Charging messages received.	SYSTUPPERF.TUPPF MCHGRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCH GTX	ACCUMULA TION	INTEG ER	Charging messages transmitted.	SYSTUPPERF.TUPPF MCHGTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCLF RX	ACCUMULA TION	INTEG ER	Clear- forward Signal messages received.	SYSTUPPERF.TUPPF MCLFRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCLF TX	ACCUMULA TION	INTEG ER	Clear- forward Signal messages transmitted.	SYSTUPPERF.TUPPF MCLFTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMCO TRX	ACCUMULA TION	INTEG ER	Continuity Signal messages received.	SYSTUPPERF.TUPPF MCOTRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

TUPPFMCO TTX	ACCUMULA TION	INTEG ER	Continuity Signal messages transmitted.	SYSTUPPERF.TUPPF MCOTTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMDP NRX	ACCUMULA TION	INTEG ER	Digital Path Not Provided Signal messages received.	SYSTUPPERF.TUPPF MDPNRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMDP NTX	ACCUMULA TION	INTEG ER	Digital Path Not Provided Signal messages transmitted.	SYSTUPPERF.TUPPF MDPNTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMEU MRX	ACCUMULA TION	INTEG ER	Extended Unsuccessful Backward set-up Information messages received.	SYSTUPPERF.TUPPF MEUMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMEU MTX	ACCUMULA TION	INTEG ER	Extended Unsuccessful Backward set-up Information messages transmitted.	SYSTUPPERF.TUPPF MEUMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMFO TRX	ACCUMULA TION	INTEG ER	Forward- Transfer Signal messages received.	SYSTUPPERF.TUPPF MFOTRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

TUPPFMFO TTX	ACCUMULA TION	INTEG ER	Forward- Transfer Signal messages transmitted.	SYSTUPPERF.TUPPF MFOTTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMGR ARX	ACCUMULA TION	INTEG ER	Circuit Group Reset- acknowledge ment messages received.	SYSTUPPERF.TUPPF MGRARX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMGR ATX	ACCUMULA TION	INTEG ER	Circuit Group Reset- acknowledge ment messages transmitted.	SYSTUPPERF.TUPPF MGRATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMGR QRX	ACCUMULA TION	INTEG ER	General Request messages received.	SYSTUPPERF.TUPPF MGRQRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMGR QTX	ACCUMULA TION	INTEG ER	General Request messages transmitted.	SYSTUPPERF.TUPPF MGRQTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMGR SRX	ACCUMULA TION	INTEG ER	Circuit Group Reset messages received.	SYSTUPPERF.TUPPF MGRSRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMGR STX	ACCUMULA TION	INTEG ER	Circuit Group Reset messages transmitted.	SYSTUPPERF.TUPPF MGRSTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

TUPPFMGS MRX	ACCUMULA TION	INTEG ER	General Forward Set- up Information messages received.	SYSTUPPERF.TUPPF MGSMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMGS MTX	ACCUMULA TION	INTEG ER	General Forward Set- up Information messages transmitted.	SYSTUPPERF.TUPPF MGSMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMHB ARX	ACCUMULA TION	INTEG ER	Hardware Failure Oriented Group Blocking- acknowledge ment messages received.	SYSTUPPERF.TUPPF MHBARX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMHB ATX	ACCUMULA TION	INTEG ER	Hardware Failure Oriented Group Blocking- acknowledge ment messages transmitted.	SYSTUPPERF.TUPPF MHBATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMHG BRX	ACCUMULA TION	INTEG ER	Hardware Failure Oriented group Blocking messages received.	SYSTUPPERF.TUPPF MHGBRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMHG	ACCUMULA	INTEG	Hardware	SYSTUPPERF.TUPPF	Sum	alwnctbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

BTX	TION	ER	Failure Oriented group Blocking messages transmitted.	MHGBTX		, alwnotbh , alwnttbh, Sum
TUPPFMHG URX	ACCUMULA TION	INTEG ER	Hardware Failure Oriented Group Unblocking messages received.	SYSTUPPERF.TUPPF MHGURX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMHG UTX	ACCUMULA TION	INTEG ER	Hardware Failure Oriented Group Unblocking messages transmitted.	SYSTUPPERF.TUPPF MHGUTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMHU ARX	ACCUMULA TION	INTEG ER	Hardware Failure Oriented Group Unblocking- acknowledge ment messages received.	SYSTUPPERF.TUPPF MHUARX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMHU ATX	ACCUMULA TION	INTEG ER	Hardware Failure Oriented Group Unblocking- acknowledge ment messages transmitted.	SYSTUPPERF.TUPPF MHUATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMIAI RX	ACCUMULA TION	INTEG ER	Number of Initial Address messages received.	SYSTUPPERF.TUPPF MIAIRX	Sum	alwnctbh , alwnotbh , alwnttbh,

						Sum
TUPPFMIAITX	ACCUMULATION	INTEGER	Number of Initial Address messages with additional info transmitted.	SYSTUPPERF.TUPPFMIAITX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMIAMRX	ACCUMULATION	INTEGER	Number of Initial Address messages received.	SYSTUPPERF.TUPPFMIAMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMIAMTX	ACCUMULATION	INTEGER	Number of Initial Address messages transmitted.	SYSTUPPERF.TUPPFMIAMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMLOS RX	ACCUMULATION	INTEGER	Line-Out-Of-Service Signal messages received.	SYSTUPPERF.TUPPFMLOS RX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMLOSTX	ACCUMULATION	INTEGER	Line-Out-Of-Service Signal messages transmitted.	SYSTUPPERF.TUPPFMLOSTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMA LRX	ACCUMULATION	INTEGER	Malicious Call Identification Signalling	SYSTUPPERF.TUPPFMMA LRX	Sum	alwnctbh , alwnotbh ,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			received.			alwnttbh, Sum
TUPPFMMALTX	ACCUMULATION	INTEGER	Malicious Call Identification Signalling transmitted	SYSTUPPERF.TUPPFMMALTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMBARX	ACCUMULATION	INTEGER	Maintenance Oriented group Blocking-acknowledgement messages received.	SYSTUPPERF.TUPPFMMBARX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMBATX	ACCUMULATION	INTEGER	Maintenance Oriented group Blocking-acknowledgement messages transmitted.	SYSTUPPERF.TUPPFMMBATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMGBRX	ACCUMULATION	INTEGER	Maintenance oriented group Blocking messages received.	SYSTUPPERF.TUPPFMMGBRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMGBTX	ACCUMULATION	INTEGER	Maintenance oriented group Blocking messages transmitted.	SYSTUPPERF.TUPPFMMGBTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMGURX	ACCUMULATION	INTEGER	Maintenance Oriented Group Unblocking messages received.	SYSTUPPERF.TUPPFMMGURX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

TUPPFMMG UTX	ACCUMULA TION	INTEG ER	Maintenance Oriented Group Unblocking messages transmitted.	SYSTUPPERF.TUPPF MMGUTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMP MRX	ACCUMULA TION	INTEG ER	Meter Pulse Message Signalling received.	SYSTUPPERF.TUPPF MMPMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMP MTX	ACCUMULA TION	INTEG ER	Meter Pulse Message Signalling transmitted	SYSTUPPERF.TUPPF MMPMTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMP RRX	ACCUMULA TION	INTEG ER	Misdialled trunk prefix messages received.	SYSTUPPERF.TUPPF MMPRRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMP RTX	ACCUMULA TION	INTEG ER	Misdialled trunk prefix messages transmitted.	SYSTUPPERF.TUPPF MMPRTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMMU ARX	ACCUMULA TION	INTEG ER	Maintenance Oriented Group Unblocking- acknowledge ment messages received.	SYSTUPPERF.TUPPF MMUARX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

TUPPFMMU ATX	ACCUMULA TION	INTEG ER	Maintenance Oriented Group Unblocking- acknowledge ment messages transmitted.	SYSTUPPERF.TUPPF MMUATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMNN CRX	ACCUMULA TION	INTEG ER	National- network- Congestion Signal messages received.	SYSTUPPERF.TUPPF MNNCRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMNN CTX	ACCUMULA TION	INTEG ER	National- network- Congestion Signal messages transmitted.	SYSTUPPERF.TUPPF MNNCTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMOP RRX	ACCUMULA TION	INTEG ER	Operator Signalling received.	SYSTUPPERF.TUPPF MOPRRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMOP RTX	ACCUMULA TION	INTEG ER	Operator Signalling transmitted	SYSTUPPERF.TUPPF MOPRTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMRA NRX	ACCUMULA TION	INTEG ER	Reanswer Signal messages received.	SYSTUPPERF.TUPPF MRANRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMRA NTX	ACCUMULA TION	INTEG ER	Reanswer Signal messages transmitted.	SYSTUPPERF.TUPPF MRANTX	Sum	alwnctbh , alwnotbh ,

						alwnttbh, Sum
TUPPFMRL GRX	ACCUMULA TION	INTEG ER	Release- Guard Signal messages received.	SYSTUPPERF.TUPPF MRLGRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMRL GTX	ACCUMULA TION	INTEG ER	Release- Guard Signal messages transmitted.	SYSTUPPERF.TUPPF MRLGTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMRS CRX	ACCUMULA TION	INTEG ER	Reset-Circuit Signal messages received.	SYSTUPPERF.TUPPF MRSCRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMRS CTX	ACCUMULA TION	INTEG ER	Reset-Circuit Signal messages transmitted.	SYSTUPPERF.TUPPF MRSCTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSA MRX	ACCUMULA TION	INTEG ER	Subsequent Address messages received.	SYSTUPPERF.TUPPF MSAMRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSA MTX	ACCUMULA TION	INTEG ER	Subsequent Address messages transmitted.	SYSTUPPERF.TUPPF MSAMTX	Sum	alwnctbh , alwnotbh , alwnttbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

						Sum
TUPPFMSA ORX	ACCUMULA TION	INTEG ER	Subsequent Address Message with One Signal messages received.	SYSTUPPERF.TUPPF MSAORX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSA OTX	ACCUMULA TION	INTEG ER	Subsequent Address Message with One Signal messages transmitted.	SYSTUPPERF.TUPPF MSAOTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSB ARX	ACCUMULA TION	INTEG ER	Software Generated Group Blocking- acknowledge ment messages received.	SYSTUPPERF.TUPPF MSBARX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSB ATX	ACCUMULA TION	INTEG ER	Software Generated Group Blocking- acknowledge ment messages transmitted.	SYSTUPPERF.TUPPF MSBATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSEC RX	ACCUMULA TION	INTEG ER	Switching- Equipment- Congestion Signal messages received.	SYSTUPPERF.TUPPF MSECRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSEC TX	ACCUMULA TION	INTEG ER	Switching- Equipment- Congestion Signal messages	SYSTUPPERF.TUPPF MSECTX	Sum	alwnctbh , alwnotbh , alwnttbh,

			transmitted.			Sum
TUPPFMSG BRX	ACCUMULA TION	INTEG ER	Software Generated Group Blocking messages received.	SYSTUPPERF.TUPPF MSGBRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSG BTX	ACCUMULA TION	INTEG ER	Software Generated Group Blocking messages transmitted.	SYSTUPPERF.TUPPF MSGBTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSG URX	ACCUMULA TION	INTEG ER	Software Generaged Group Unblocking messages received.	SYSTUPPERF.TUPPF MSGURX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSG UTX	ACCUMULA TION	INTEG ER	Software Generaged Group Unblocking messages transmitted.	SYSTUPPERF.TUPPF MSGUTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSLB RX	ACCUMULA TION	INTEG ER	Subscriber Local Busy Signalling received.	SYSTUPPERF.TUPPF MSLBRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSLB TX	ACCUMULA TION	INTEG ER	Subscriber Local Busy Signalling transmitted	SYSTUPPERF.TUPPF MSLBTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

TUPPFMSSBRX	ACCUMULATION	INTEGER	Subscriber-Busy signal messages received.	SYSTUPPERF.TUPPFMSSBRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSSBTX	ACCUMULATION	INTEGER	Subscriber-Busy signal messages transmitted.	SYSTUPPERF.TUPPFMSSBTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSSTRX	ACCUMULATION	INTEGER	Send-Special-Information Tone Signal messages received.	SYSTUPPERF.TUPPFMSSTRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSSTTX	ACCUMULATION	INTEGER	Send-Special-Information Tone Signal messages transmitted.	SYSTUPPERF.TUPPFMSSTTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSTBRX	ACCUMULATION	INTEGER	Subscriber Toll Busy Signalling received.	SYSTUPPERF.TUPPFMSTBRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSTBTX	ACCUMULATION	INTEGER	Subscriber Toll Busy Signalling transmitted	SYSTUPPERF.TUPPFMSTBTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMSUARX	ACCUMULATION	INTEGER	Software Generated Group Unblocking-acknowledgement	SYSTUPPERF.TUPPFMSUARX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum

			messages received.			
TUPPFMSU ATX	ACCUMULA TION	INTEG ER	Software Generated Group Unblocking- acknowledge ment messages transmitted.	SYSTUPPERF.TUPPF MSUATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMUB ARX	ACCUMULA TION	INTEG ER	Unblocking- acknowledge ment Signal messages received.	SYSTUPPERF.TUPPF MUBARX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMUB ATX	ACCUMULA TION	INTEG ER	Unblocking- acknowledge ment Signal messages transmitted.	SYSTUPPERF.TUPPF MUBATX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMUB LRX	ACCUMULA TION	INTEG ER	Unblocking Signal messages received.	SYSTUPPERF.TUPPF MUBLRX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMUB LTX	ACCUMULA TION	INTEG ER	Unblocking Signal messages transmitted.	SYSTUPPERF.TUPPF MUBLTX	Sum	alwnctbh , alwnotbh , alwnttbh, Sum
TUPPFMUN NRX	ACCUMULA TION	INTEG ER	Unallocated- Number Signal	SYSTUPPERF.TUPPF MUNNRX	Sum	alwnctbh , alwnotbh

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			messages received.			, alwnttbh, Sum
TUPPFMUNNTX	ACCUMULATION	INTEGER	Unallocated-Number Signal messages transmitted.	SYSTUPPERF.TUPPFMUNNTX	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

7.24.25WSS_Node.Alcatel_Lucent.GSM.VMSC_MAP_Performance

Visiting MSC MAP Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATTAUTHSETSRQSTTOHLR	ACCUMULATION	INTEGER	Number of requests to the HLR by the VLR for Authentication triplets	MAPPERF.ATTAUTHSETSRQSTTOHLR	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
ATTIDRQSTTOPVLR	ACCUMULATION	INTEGER	Number of identification information requests to the previous VLR for subscribers registering afresh in this VLR	MAPPERF.ATTIDRQSTTOPVLR	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
ATTININTERMSCHDO	ACCUMULATION	INTEGER	Number of attempted incoming inter-MSC handovers pegged when the serving MSC receives MAP-Prep-Handover-Req message from	MAPPERF.ATTININTERMSCHDO	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum

			the anchor MSC.			
ATTLOCUPDTHLR	ACCUMULATION	INTEGER	Attempted location updates to HLR from VLR	MAPPERF.ATTLOCUPDTHLR	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
ATTOUTSUBINTERMSCHOMSCA	ACCUMULATION	INTEGER	Number of subsequent Inter MSC handover attempts out of Serving MSC-B to Anchor MSC-A or target MSC-C via MSC-A, pegged when serving MSC-B sends MAP-Prep-Sub-Handover-Req to MSC-A and the target cell belongs to anchor MSC-A or MSC-C. This was previously mapped to RESERVE3.	MAPPERF.ATTOUTSUBINTERMSCHOMSCA	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
ATTOUTSUBINTERMSCHOMSCC	ACCUMULATION	INTEGER	Number of subsequent Inter MSC handover attempts out of serving MSC-B to MSC-C , pegged when MSC-B sends MAPPrep-Sub-Handover-Req to MSC-A (anchor) for target cell belonging to	MAPPERF.ATTOUTSUBINTERMSCHOMSCC	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			MSC-C. (Not supported as a separate counter, currently pegged as part of 28)		
ATTREQFORMSRN	ACCUMULATION	INTEGER	Requests for MSRN received by VLR	MAPPERF.ATTREQFORMSRN	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
ATTSUBSQNTINTERMSCHDOMSCA	ACCUMULATION	INTEGER	Number of attempted subsequent inter-MSC handbacks (to MSCA) pegged when the anchor MSC-A receives MAP-Prep-Sub-Handover-Req from the serving MSC-B.	MAPPERF.ATTSUBSQNTINTERMSCHDOMSCA	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
ATTSUBSQNTINTERMSCHDOMSCC	ACCUMULATION	INTEGER	Number of attempted subsequent inter-MSC handovers (to MSCC) pegged when the anchor MSC-A receives MAP-Prep-Sub-Handover-Req and attempts to send MAP-Prep-Handover-Req to the target MSC-C.	MAPPERF.ATTSUBSQNTINTERMSCHDOMSCC	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
CANCELLOCREQFROMHLR	ACCUMULATION	INTEGER	Cancel Location Request From HLR	MAPPERF.CANCELLOCREQFROMHLR	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum

DELSUBSCRIBERFROMHLR	ACCUMULATION	INTEGER	Number of Delete Subscriber received from HLR	MAPPERF.DELSUBSCRIBERFROMHLR	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
EMPTYRESPAUTHFROMHLR	ACCUMULATION	INTEGER	Number of empty responses received by the VLR in response to requests for Authentication information. (Previously this field was overwritten by another field USOUTSUBINTERMSCHOMSCARB in patch2.3.17.Now it is freed.)	MAPPERF.EMPTYRESPAUTHFROMHLR	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
INSSUBSCRIBERFROMHLR	ACCUMULATION	INTEGER	Number of successful Insert Subscriber Data transactions received from HLR Position Field Name Description	MAPPERF.INSSUBSCRIBERFROMHLR	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
OUTINTERMSCHDO	ACCUMULATION	INTEGER	Number of attempted outgoing inter-MSC handovers pegged when the anchor MSC sends MAP-Prep-Handover-Req message to the	MAPPERF.OUTINTERMSCHDO	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			serving MSC.		
SUCCAUTHSETSF FROMHLR	ACCUM ULATION	INT EG ER	Number of successful responses (including Authentication triplet vector) received by the VLR in response to requests for Authentication information.	MAPPERF.SUCCAUTHS ETSFROMHLR	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
SUCCIDRQSTTOP VLR	ACCUM ULATION	INT EG ER	Number of successful identification requests to the previous VLR for subscriber registering afresh in this VLR	MAPPERF.SUCCIDRQS TTOPVLR	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
SUCCININTERMS CHDO	ACCUM ULATION	INT EG ER	Number of successful incoming inter- MSC handovers pegged when the serving MSC sends MAP-Send-End- Signal-Req to the anchor MSC.	MAPPERF.SUCCININTE RMSCHDO	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
SUCCLOCUPDTH LR	ACCUM ULATION	INT EG ER	Success location updates to HLR from VLR	MAPPERF.SUCCLOCUP DTHLR	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
SUCCOUTINTER MSCHDO	ACCUM ULATION	INT EG ER	Number of successful outgoing inter- MSC handovers pegged when the anchor MSC receives MAP-	MAPPERF.SUCCOUTIN TERMSCHDO	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum

			Send-End-Signal-Req from the serving MSC.		
SUCCOUTSUBINTERMSCHOMSCA	ACCUMULATION	INTEGER	Number of subsequent Inter MSC handover successes for the attempts out of Serving MSC-B to anchor MSC-A when the target call belongs to MSC-A or MSC-C, it is pegged when MSC-B receives successful MAP-Send-End-Sig resp from MSC-A. This was previously mapped to RESERVE4.	MAPPERF.SUCCOUTSUBINTERMSCHOMSCA	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
SUCCOUTSUBINTERMSCHOMSCC	ACCUMULATION	INTEGER	Number of subsequent Inter MSC handover successes for the attempts out of MSC-B to MSC-C when the target cell belongs to MSC-C, pegged when MSC-B receives successful MAP-Send-End-Sig Resp from MSC-A. (currently not supported)	MAPPERF.SUCCOUTSUBINTERMSCHOMSCC	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
SUCCREQFORMSRN	ACCUMULATION	INTEGER	Successful Request for MSRN (MSRN available, response	MAPPERF.SUCCREQFORMSRN	Sum alwnc tbh, alwno

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			sent)			tbh, alwnt tbh, Sum
SUCCSUBSQNTIN TERMSCHDOMSC A	ACCUM ULATIO N	INT EG ER	Number of successful subsequent inter- MSC handbacks (to MSCA) pegged when the anchor MSC-A sends back MAP-Send-End- Signal-Resp to the serving MSC-B.	MAPPERF.SUCCSUBSQ NTINTERMSCHDOMSC A	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
SUCCSUBSQNTIN TERMSCHDOMSC C	ACCUM ULATIO N	INT EG ER	Number of successful subsequent inter- MSC handovers (to MSCC) pegged when anchor MSC-A receives MAP-Send-End- Signal- Req from target MSC-C and attempts to send MAP-Send-End- Signal-Resp to serving MSC-B.	MAPPERF.SUCCSUBSQ NTINTERMSCHDOMSC C	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
TOTALTRIPLETA UTHSETSFROMH LR	ACCUM ULATIO N	INT EG ER	Total Number of successful actual triplets. It includes triplets from previous VLR in inter-VLR location updates	MAPPERF.TOTALTRIPL ETAUTHSETSFROMHL R	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum
USOUTINTERMSC HORB	ACCUM ULATIO N	INT EG ER	Number of unsuccessful Inter MSC handovers out of serving MSC-A with reconnect back to MSC-A. Pegged when MSC-A	MAPPERF.USOUTINTE RMSCHORB	Sum	alwnc tbh, alwno tbh, alwnt tbh, Sum

			receives a A-HO-FAILURE from its BSS-A and MSC-A attempts to send MAP Process Access Signaling Req to target MSC-B. This was previously mapped to RESERVED1		
USOUTSUBINTER MSCHOMSCARB	ACCUM ULATIO N	INT EG ER	Number of unsuccessful subsequent Inter MSC handovers out of Serving MSC-B to Anchor MSC-A or target MSC-C with reconnect back to Serving MSC-B. Pegged when serving MSC-B received HO-Failure from its BSC-B and it sends HO failure to anchor MSC-A or target MSC-C via MAP Process access signaling Req to MSC-A. This field was overwritten on EMPTYRESPAU THFROMHLR field (field # 16) in the Patch 2.3.17	MAPPERF.USOUTSUBI NTERMSCHOMSCARB	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
USOUTSUBINTER MSCHOMSCCRB	ACCUM ULATIO N	INT EG ER	Number of unsuccessful subsequent Inter	MAPPERF.USOUTSUBI NTERMSCHOMSCCRB	Sum alwnc tbh, alwno

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			MSC handovers out of Serving MSC-B to target MSC-C with reconnect back to MSC-B . Pegged when MSC-B received HO-Failure from its BSC-B and it sends HO failure to anchor MSC-A via MAP Process access signaling Req.		tbh, alwnt tbh, Sum
USSUBINTERMSC HOMSCARB	ACCUM ULATION	INTER EG ER	Number of unsuccessful subsequent Inter MSC handovers into MSC-A with reconnect back to serving MSC-B. Pegged when anchor MSC-A receives MAP-PROCESS-ACCESS-SIGNALING req containing A-HO-FAILURE from serving MSC-B. This was previously mapped to RESERVE2.	MAPPERF.USSUBINTERMSC HOMSCARB	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum
USSUBINTERMSC HOMSCCRB	ACCUM ULATION	INTER EG ER	Number of unsuccessful subsequent Inter MSC handovers out of Serving MSC-B to target MSC-C with reconnect back to Serving MSC-B . Pegged when anchor MSC-A	MAPPERF.USSUBINTERMSC HOMSCCRB	Sum alwnc tbh, alwno tbh, alwnt tbh, Sum

			receives MAP- Process- Access- Signaling req with HO failure from serving MSC-B..			
--	--	--	---	--	--	--

7.24.26WSS_Node.Alcatel_Lucent.GSM.WPS_Performance

WPS Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
GETSATTMOCALLS	ACCUMULATION	INTEGER	[R-159] Total Number of GETS call attempts.	PRIORITYCALLPERF.GETSATTMOCALLS	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
PCATTINCLCALLS	ACCUMULATION	INTEGER	[R-168] Total Number of NS/EP calls received on incoming trunks.	PRIORITYCALLPERF.PCATTINCLCALLS	Sum	alwnctbh, alwnotbh, alwnntbh, Sum
PCATTLQABANCALLS	ACCUMULATION	INTEGER	[R-169] Total Number of NS/EP calls	PRIORITYCALLPERF.PCATTLQABANCALLS	Sum	alwnctbh, alwnotbh, alwnntbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			remov ed from a queue due to user abando n.			
PCATTLQDCAL LS	ACCUMU LATION	INTE GER	[R-169] Total Numbe r of NS/EP calls queued for a outgoi ng trunk.	PRIORITYCALLPERF.PCATT LQDCALLS	Sum	alwnctb h, alwnotb h, alwnctb h, Sum
PCATTLQDOFL OWCALLS	ACCUMU LATION	INTE GER	[R-169] Total Numbe r of NS/EP calls failed to queue for an outgoi ng trunk.	PRIORITYCALLPERF.PCATT LQDOFLOWCALLS	Sum	alwnctb h, alwnotb h, alwnctb h, Sum
PCATTLQTOUT CALLS	ACCUMU LATION	INTE GER	[R-169] Total Numbe r of NS/EP calls remov ed from a queue due to timeou	PRIORITYCALLPERF.PCATT LQTOUTCALLS	Sum	alwnctb h, alwnotb h, alwnctb h, Sum

			t.			
PCATTLTOLCALL	ACCUMULATION	INTEGER	[R-168]] Total Number of NS/EP calls that require an outgoing trunk.	PRIORITYCALLPERF.PCATTLTOLCALL	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PCATTLTOMSCALLS	ACCUMULATION	INTEGER	[R-160]] Total Number of NS/EP calls received on inc trunks w/ MSC.s MSRN .	PRIORITYCALLPERF.PCATTLTOMSCALLS	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
PCATTNOCKT	ACCUMULATION	INTEGER	[R-161]] Total Number of NS/EP calls with no outgoing trunk circuit	PRIORITYCALLPERF.PCATTTNOCKT	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			availab le.			
PCATTNOPREC CALLS	ACCUMU LATION	INTE GER	[R-160] Total Numbe r of incomi ng NS/ EP calls receiv ed w/o the preced ence.	PRIORITYCALLPERF.PCATT NOPRECCALLS	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PCATTTOMSCA LLS	ACCUMU LATION	INTE GER	[R-160] Total Numbe r of NS/EP calls termin ated in this MSC.	PRIORITYCALLPERF.PCATT TOMSCALLS	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PCNOIXCCKTC ALLS	ACCUMU LATION	INTE GER	[R-161] Total Numbe r of NS/EP calls with no outgoi ng trunk circuit availab le to an IXC.	PRIORITYCALLPERF.PCNOIX CCKTCALLS	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PCRADSUCCM TCALLS	ACCUMU LATION	INTE GER	[O-21] Total Numbe	PRIORITYCALLPERF.PCRAD SUCCMTCALLS	Sum	alwnctb h, alwnotb

			r of incomi ng NS/ EP calls receiv ed with a radio traffic channe l assigne d.			h, alwnttb h, Sum
PCSUCCIXCCA LLS	ACCUMU LATION	INTE GER	[R-161] Total Numbe r of NS/EP calls with succes sful trunk set up to an IXC.	PRIORITYCALLPERF.PCSUC CIXCCALLS	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
PCSUCCTOLCA LL	ACCUMU LATION	INTE GER	[R-161] Total Numbe r of NS/EP calls with succes sful trunk set up.	PRIORITYCALLPERF.PCSUC CTOLCALL	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
WPSATTMOCA LLS	ACCUMU LATION	INTE GER	[R-158] Total	PRIORITYCALLPERF.WPSAT TMOCALLS	Sum	alwnctb h,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

			Number of WPS call attempts.			alwnotbh, alwnttbh, Sum
WPSATTTOLCALL	ACCUMULATION	INTEGER	[R-161] Total Number of WPS calls that require an outgoing trunk.	PRIORITYCALLPERF.WPSATTTOLCALL	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
WPSRADSUCCMOCALLS	ACCUMULATION	INTEGER	[O-18] Total Number of WPS call attempts with a radio traffic channel assigned.	PRIORITYCALLPERF.WPSRADSUCCMOCALLS	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

7.24.27WSS_Node.Alcatel_Lucent.GSM.WSS_Disk_Performance

WSS Disk Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CARDSTATUSES	ACCUMULATION	INTEGER	Status of WSSNODE NUM (i.e. ACTIVE or	WSSDISKPERF.CARDSTATUS	Null	

			INACTIVE /STANDBY).			
CARDTYPE	ACCUMULATION	INTEGER	Card type of WSS node number to which the record apply.	WSSDISKPERF.CARDTYPE	Null	
DISKOCPPARROOT	INTENSITY	FLOAT	Disk occupancy (ROOT).	WSSDISKPERF.DISKOCPPARROOT	Average	alwnctbh, alwnotbh, alwnttbh, Average, Maximum, Minimum, Sum
DISKOCPPARSPACE	INTENSITY	FLOAT	Disk occupancy (SPACE).	WSSDISKPERF.DISKOCPPARSPACE	Average	alwnctbh, alwnotbh, alwnttbh, Average, Maximum, Minimum, Sum
DISKOCPPARVAR	INTENSITY	FLOAT	Disk occupancy (VAR).	WSSDISKPERF.DISKOCPPARVAR	Average	alwnctbh, alwnotbh,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

						alwnttbh , Average , Maximum, Minimum, Sum
--	--	--	--	--	--	--

7.24.28WSS_Node.Alcatel_Lucent.GSM.WSS_Overload_Control_Performance

WSS Overload Control Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
OVRLDRJCTLUP	ACCUMULATION	INTEGER	Number of Location Updates rejected as a result of overload controls.	MOOVLDPERF.OVRLDRJCTLUP	Sum	alwnctbh, alwnotbh, alwnttbh, Sum
OVRLDRJCTMO CISSCALL	ACCUMULATION	INTEGER	Number of Mobile Originated CISS transactions rejected as a result of overloa	MOOVLDPERF.OVRLDRJCTMO CISSCALL	Sum	alwnctbh, alwnotbh, alwnttbh, Sum

			d control s being active.			
OVRLDRJCTMO SMSCALL	ACCUMUL ATION	INTE GER	Numbe r of Mobile Origina ted SMS transac tions rejecte d as a result of overloa d control s being active.	MOOVLDPERF.OVRLDRJC TMOSMSCALL	Sum	alwnctb h, alwnotb h, alwnttb h, Sum
OVRLDRJCTMO VCALL	ACCUMUL ATION	INTE GER	Numbe r of Mobile Origina ted Calls rejecte d as a result of overloa d control s being active.	MOOVLDPERF.OVRLDRJC TMOVCALL	Sum	alwnctb h, alwnotb h, alwnttb h, Sum

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

7.24.29WSS_Node.Alcatel_Lucent.GSM.WSS_Performance

WSS Statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CARDSTATUS	ACCUMULATION	INTEGER	Status of WSSNODENUM (i.e. ACTIVE or INACTIVE/STANDBY).	WSSPERF.CARDSTATUS	Null	
CARDTYPE	ACCUMULATION	INTEGER	Type of WSS card (CCM, DDM, SAM, SIM, IPM,etc).	WSSPERF.CARDTYPE	Null	
MAXWSSCPU	INTENSITY	FLOAT	Max CPU occupancy (percentage).	WSSPERF.MAXWSSCPU	Constant	alwnctbh , alwnotbh , alwnttbh, Average, Maximum, Minimum, Sum
MEANWSSCPU	INTENSITY	FLOAT	Mean CPU occupancy.	WSSPERF.MEANWSSCPU	Average	alwnctbh , alwnotbh , alwnttbh, Average, Maximum, Minimum, Sum
MEANWSSMEM	INTENSITY	FLOAT	Mean available memory.	WSSPERF.MEANWSSMEM	Average	alwnctbh , alwnotbh , alwnttbh, Average,

						Maximum, Minimum, Sum
--	--	--	--	--	--	-----------------------------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

8 Performance Alarms

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

None.

9 Reports

This section shows details of the reports that are defined in this technology pack module.

All reports can be run as raw, daily, weekly or monthly reports.

Where a KPI is marked (DA), it means Data Availability is to be reported upon it.

- [Traffic_Dest Reports.](#)
- [WSS_Node Reports.](#)
- [MSC Reports.](#)
- [HLR Reports.](#)
- [MGW_Relation Reports.](#)
- [Signalling_Link Reports.](#)
- [Signalling_LinkSet Reports.](#)

9.1 Traffic_Dest Reports.

This section shows reports for the Traffic_Dest object.

- [Traffic Destination Call Report](#)

9.1.1 Traffic Destination Call Report

Traffic Destination Call Summary

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.Traffic_Dest
Primary Object	Traffic_Dest
Traffic Destination Call Summary	Traffic_Dest.Traffic_Dest_Id, Traffic_Dest.WSS_Node_Id, Traffic_Dest.Alcatel_Lucent.Traffic_Destination_Code_Performance. ANSWCALLTIMEVCCAL, Traffic_Dest.Alcatel_Lucent.Traffic_Destination_Code_Performance. SEIZCALLTIMEVCCAL,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

	Traffic_Dest.Alcatel_Lucent.Traffic_Destination_Code_Performance. CALLANSVCCAL, Traffic_Dest.Alcatel_Lucent.Traffic_Destination_Code_Performance. CDBSYVCCAL, Traffic_Dest.Alcatel_Lucent.Traffic_Destination_Code_Performance. NOANSVCCAL, Traffic_Dest.Alcatel_Lucent.Traffic_Destination_Code_Performance. CALLATTVCCAL
--	---

9.2 WSS_Node Reports.

This section shows reports for the WSS_Node object.

- [WSS Node CAMEL Call Report](#)
- [WSS Node CAMEL Call Traffic Report](#)
- [WSS Node SMS Report](#)

9.2.1 WSS Node CAMEL Call Report

WSS Node CAMEL Call Details

Report Feature	Details
Report Tree Branch	WSS Node CAMEL Call
Primary Object	WSS_Node
WSS Node CAMEL Call Summary	WSS_Node.WSS_Node_Id, WSS_Node.MSC_Id, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.ATTCAMO RIGVCCAL, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.ATTCAMTE RVCCAL, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.ANSCAMO RIGVCCAL, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.ANSCAMT ERVCCAL, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.SUCCCAM ORIGVCCAL, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.SUCCCAM TERVCCAL

9.2.2 WSS Node CAMEL Call Traffic Report

WSS Node CAMEL Call Traffic Details

Report Feature	Details
----------------	---------

Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.WSS_Node
Primary Object	WSS_Node
WSS Node CAMEL Call Traffic Summary	WSS_Node.WSS_Node_Id, WSS_Node.MSC_Id, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.TOTALCALLA NSTIMECAMVCCAL, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.TOTALCALLA NSTIMECAMORIGVCCAL, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.TOTALCALLA NSTIMECAMTERVCCAL, WSS_Node.Alcatel_Lucent.Call_Control2_Performance.TOTALCALLS EIZTIMECAMVCCAL

9.2.3 WSS Node SMS Report

WSS Node SMS Details

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.WSS_Node
Primary Object	WSS_Node
WSS Node SMS Summary	WSS_Node.WSS_Node_Id, WSS_Node.MSC_Id, WSS_Node.Alcatel_Lucent.SMS_Performance.CALLATTMSTERM SMS, WSS_Node.Alcatel_Lucent.SMS_Performance.CALLSUCCMSORG SMS, WSS_Node.Alcatel_Lucent.SMS_Performance.CALLSUCCMSTER MSMS, WSS_Node.Alcatel_Lucent.SMS_Performance.CALLATTMSORGS MS

9.3 MSC Reports.

This section shows reports for the MSC object.

- [MSC Handover Performance Report](#)
- [MSC Performance Report](#)

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

9.3.1 MSC Handover Performance Report

MSC Handover Performance Details

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.MSC
Primary Object	MSC
MSC Handover Performance Summary	MSC.MSC_Id, MSC.Alcatel_Lucent.WSS_System_Performance.ATTINTERMSCH OHO (DA), MSC.Alcatel_Lucent.WSS_System_Performance.ATTINTERMSCH OHI, MSC.Alcatel_Lucent.WSS_System_Performance.ATTINTRAMSC HO, MSC.Alcatel_Lucent.WSS_System_Performance.SUCCINTERMSC HOHO, MSC.Alcatel_Lucent.WSS_System_Performance.SUCCINTERMSC HOHI, MSC.Alcatel_Lucent.WSS_System_Performance.SUCCINTRAMSC HO, MSC.Alcatel_Lucent.WSS_System_Performance.UNSCCEXTHDOR ECNCTPERMSC, MSC.Alcatel_Lucent.WSS_System_Performance.UNSCEXTHDOLO SCNCTPERMSC

9.3.2 MSC Performance Report

MSC Performance Details

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.MSC
Primary Object	MSC
MSC Performance Summary	MSC.MSC_Id, MSC.Alcatel_Lucent.WSS_System_Performance.LLCALLATT (DA), MSC.Alcatel_Lucent.WSS_System_Performance.LLCALLFAILURE RATE, MSC.Alcatel_Lucent.WSS_System_Performance.LMCALLATT, MSC.Alcatel_Lucent.WSS_System_Performance.LMALLFAILUR ERATE, MSC.Alcatel_Lucent.WSS_System_Performance.MLCALLATT, MSC.Alcatel_Lucent.WSS_System_Performance.MLCALLFAILUR ERATE,

	MSC.Alcatel_Lucent.WSS_System_Performance.MMCALLATT, MSC.Alcatel_Lucent.WSS_System_Performance.MMCALLFAILURE RATE, MSC.Alcatel_Lucent.WSS_System_Performance.TOTALCALLATT, MSC.Alcatel_Lucent.WSS_System_Performance.TOTALCALLFAIL URERATE, MSC.Alcatel_Lucent.WSS_System_Performance.SMSCALLATT, MSC.Alcatel_Lucent.WSS_System_Performance.SMSFAILURERAT E, MSC.Alcatel_Lucent.WSS_System_Performance.LUPFAILURERAT E
--	--

9.4 HLR Reports.

This section shows reports for the HLR object.

- [HLR Report](#)

9.4.1 HLR Report

HLR Details

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.HLR
Primary Object	HLR
HLR Summary	HLR.HLR_Id, HLR.Alcatel_Lucent.VLR_Utilization_Performance.TOTALSUBRECORDS, HLR.Alcatel_Lucent.VLR_Utilization_Performance.HOMECOUNTRYACTI VEROAMER, HLR.Alcatel_Lucent.VLR_Utilization_Performance.INTERNATIONALACT IVEROAMER, HLR.Alcatel_Lucent.VLR_Utilization_Performance.TOTALNUMOFACTHO MEPLMNSUBINVLR, HLR.Alcatel_Lucent.VLR_Utilization_Performance.TOTALNUMOFACTSU BREGINVLR, HLR.Alcatel_Lucent.VLR_Utilization_Performance.TOTALNUMOFCAME LACTSUBINVLR, HLR.Alcatel_Lucent.VLR_Utilization_Performance.TOTALNUMOFDETAC HEDSUBREGINVLR,

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

HLR.Alcatel_Lucent.VLR_Utilization_Performance.TOTALNUMOFHOME CONTACTSUBINVLR
--

9.5 MGW_Relation Reports.

This section shows reports for the MGW_Relation object.

- [MGW Relation Report](#)

9.5.1 MGW Relation Report

MGW Relation Details

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.MGW_Relation
Primary Object	MGW_Relation
MGW Relation Summary	MGW_Relation.MGW_Relation_Id, MGW_Relation.MGW_Id, MGW_Relation.Alcatel_Lucent.EGCP_Performance.CALLATTMGC ADD, MGW_Relation.Alcatel_Lucent.EGCP_Performance.CALLSUCCMG CADD, MGW_Relation.Alcatel_Lucent.EGCP_Performance.CALLATTMGC MODIFY, MGW_Relation.Alcatel_Lucent.EGCP_Performance.CALLSUCCMG CMODIFY, MGW_Relation.Alcatel_Lucent.EGCP_Performance.CALLATTMGC MOVE, MGW_Relation.Alcatel_Lucent.EGCP_Performance.CALLSUCCMG CMOVE, MGW_Relation.Alcatel_Lucent.EGCP_Performance.CALLATTMGC SUBTRACT, MGW_Relation.Alcatel_Lucent.EGCP_Performance.CALLSUCCMG CSUBTRACT

9.6 Signalling_Link Reports.

This section shows reports for the Signalling_Link object.

- [Signalling Link Performance Report](#)

9.6.1 Signalling Link Performance Report

Signalling Link Performance Details

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.Signalling_Link
Primary Object	Signalling_Link
Signalling Link Performance Summary	Signalling_Link.SS7_Link_Id, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMMSURX, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMMSUTX, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMMSUOCTETRETX, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMNACKRX, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMSUERRS, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMALIGNFAIL, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMLINKFAILABNFIBBSNR, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMLINKFAILCONG, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMLINKFAILSUERM, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMLINKFAILT7EXP, Signalling_Link.Alcatel_Lucent.MTP2_Link_Performance.MTP2LNK PFMLINKFAILTOTAL

9.7 Signalling_LinkSet Reports.

This section shows reports for the Signalling_LinkSet object.

- [Signalling Linkset Performance Report](#)

9.7.1 Signalling Linkset Performance Report

Signalling Linkset Performance Details

Report Feature	Details
----------------	---------

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Report Tree Branch	System.GSM.Engineering.NSS.Alcatel_Lucent.Signalling_LinkSet
Primary Object	Signalling_LinkSet
Signalling Linkset Performance Summary	Signalling_LinkSet.SS7_LinkSet_Id, Signalling_LinkSet.Alcatel_Lucent.Linkset_System_Performance.MA XRXLINKOCCPERLS, Signalling_LinkSet.Alcatel_Lucent.Linkset_System_Performance.MA XTXLINKOCCPERLS, Signalling_LinkSet.Alcatel_Lucent.Linkset_System_Performance.ME ANRXLINKOCCPERLS, Signalling_LinkSet.Alcatel_Lucent.Linkset_System_Performance.ME ANTXLINKOCCPERLS

Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in all countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk NY 10504-1785
U.S.A.*

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
1623-14, Shimotsuruma, Yamato-shi
Kanagawa 242-8502 Japan*

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication.

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

*IBM Corporation
2Z4A/101
11400 Burnet Road
Austin, TX 78758
U.S.A.*

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

Trademarks

IBM, the IBM logo and ibm.com are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "[Copyright and trademark information](http://www.ibm.com/legal/copytrade.shtml)" at www.ibm.com/legal/copytrade.shtml.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.



Java and all Java-based trademarks and logos are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product or service names may be trademarks or service marks of others.

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

© Copyright IBM Corp. 2011. All Rights Reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.



Printed in the U.S.A.